Analytical Environmental Services, Inc **Date:** 9-Nov-16

Client:	Crawford Environmental Services	**Client Sample ID:**	DUP-3
Project Name:	Clouds Chevron	**Collection Date:**	10/20/2016 3:05:00 PM
Lab ID:	1610O41-065	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.24	1.0	ug/L	232138	1	11/02/2016 05:24	NP
Benzene	BRL		0.14	1.0	ug/L	232138	1	11/02/2016 05:24	NP
Ethylbenzene	BRL		0.20	1.0	ug/L	232138	1	11/02/2016 05:24	NP
Methyl tert-butyl ether	2.3		0.22	1.0	ug/L	232138	1	11/02/2016 05:24	NP
Naphthalene	BRL		0.13	5.0	ug/L	232138	1	11/02/2016 05:24	NP
Toluene	BRL		0.20	1.0	ug/L	232138	1	11/02/2016 05:24	NP
Xylenes, Total	BRL		0.30	1.0	ug/L	232138	1	11/02/2016 05:24	NP
Surr: 4-Bromofluorobenzene	108		0	70-130	%REC	232138	1	11/02/2016 05:24	NP
Surr: Dibromofluoromethane	115		0	70-130	%REC	232138	1	11/02/2016 05:24	NP
Surr: Toluene-d8	96.7		0	70-130	%REC	232138	1	11/02/2016 05:24	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		44	100	ug/L	232138	1	11/02/2016 05:24	NP
Ethanol	BRL		25	100	ug/L	232138	1	11/02/2016 05:24	NP
Ethyl tert-butyl ether	BRL		3.5	100	ug/L	232138	1	11/02/2016 05:24	NP
Isopropyl ether	19		3.9	10	ug/L	232138	1	11/02/2016 05:24	NP
tert-Amyl alcohol	170		43	100	ug/L	232138	1	11/02/2016 05:24	NP
tert-Amyl methyl ether	BRL		3.5	10	ug/L	232138	1	11/02/2016 05:24	NP
tert-Butyl Alcohol	BRL		46	100	ug/L	232138	1	11/02/2016 05:24	NP
tert-Butyl formate	BRL		31	100	ug/L	232138	1	11/02/2016 05:24	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 9-Nov-16

Client:	Crawford Environmental Services	**Client Sample ID:**	DUP-4
Project Name:	Clouds Chevron	**Collection Date:**	10/21/2016 11:05:00 AM
Lab ID:	1610O41-066	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.24	1.0	ug/L	232159	1	11/03/2016 03:06	NP
Benzene	BRL		0.14	1.0	ug/L	232159	1	11/03/2016 03:06	NP
Ethylbenzene	BRL		0.20	1.0	ug/L	232159	1	11/03/2016 03:06	NP
Methyl tert-butyl ether	BRL		0.22	1.0	ug/L	232159	1	11/03/2016 03:06	NP
Naphthalene	BRL		0.13	5.0	ug/L	232159	1	11/03/2016 03:06	NP
Toluene	BRL		0.20	1.0	ug/L	232159	1	11/03/2016 03:06	NP
Xylenes, Total	BRL		0.30	1.0	ug/L	232159	1	11/03/2016 03:06	NP
Surr: 4-Bromofluorobenzene	103		0	70-130	%REC	232159	1	11/03/2016 03:06	NP
Surr: Dibromofluoromethane	105		0	70-130	%REC	232159	1	11/03/2016 03:06	NP
Surr: Toluene-d8	96.5		0	70-130	%REC	232159	1	11/03/2016 03:06	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		44	100	ug/L	232159	1	11/03/2016 03:06	NP
Ethanol	BRL		25	100	ug/L	232159	1	11/03/2016 03:06	NP
Ethyl tert-butyl ether	BRL		3.5	100	ug/L	232159	1	11/03/2016 03:06	NP
Isopropyl ether	BRL		3.9	10	ug/L	232159	1	11/03/2016 03:06	NP
tert-Amyl alcohol	BRL		43	100	ug/L	232159	1	11/03/2016 03:06	NP
tert-Amyl methyl ether	BRL		3.5	10	ug/L	232159	1	11/03/2016 03:06	NP
tert-Butyl Alcohol	BRL		46	100	ug/L	232159	1	11/03/2016 03:06	NP
tert-Butyl formate	BRL		31	100	ug/L	232159	1	11/03/2016 03:06	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 9-Nov-16

Client:	Crawford Environmental Services	**Client Sample ID:**	DUP-5
Project Name:	Clouds Chevron	**Collection Date:**	10/21/2016 2:50:00 PM
Lab ID:	1610O41-067	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		120	500	ug/L	232159	500	11/02/2016 17:05	NP
Benzene	2600		68	500	ug/L	232159	500	11/02/2016 17:05	NP
Ethylbenzene	1300		100	500	ug/L	232159	500	11/02/2016 17:05	NP
Methyl tert-butyl ether	BRL		110	500	ug/L	232159	500	11/02/2016 17:05	NP
Naphthalene	1200	J	64	2500	ug/L	232159	500	11/02/2016 17:05	NP
Toluene	20000		100	500	ug/L	232159	500	11/02/2016 17:05	NP
Xylenes, Total	21000		150	500	ug/L	232159	500	11/02/2016 17:05	NP
Surr: 4-Bromofluorobenzene	104		0	70-130	%REC	232159	500	11/02/2016 17:05	NP
Surr: Dibromofluoromethane	108		0	70-130	%REC	232159	500	11/02/2016 17:05	NP
Surr: Toluene-d8	96.1		0	70-130	%REC	232159	500	11/02/2016 17:05	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		22000	50000	ug/L	232159	500	11/02/2016 17:05	NP
Ethanol	BRL		13000	50000	ug/L	232159	500	11/02/2016 17:05	NP
Ethyl tert-butyl ether	BRL		1800	50000	ug/L	232159	500	11/02/2016 17:05	NP
Isopropyl ether	BRL		1900	5000	ug/L	232159	500	11/02/2016 17:05	NP
tert-Amyl alcohol	BRL		21000	50000	ug/L	232159	500	11/02/2016 17:05	NP
tert-Amyl methyl ether	BRL		1800	5000	ug/L	232159	500	11/02/2016 17:05	NP
tert-Butyl Alcohol	BRL		23000	50000	ug/L	232159	500	11/02/2016 17:05	NP
tert-Butyl formate	BRL		16000	50000	ug/L	232159	500	11/02/2016 17:05	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 9-Nov-16

Client:	Crawford Environmental Services	**Client Sample ID:**	TRIP BLANK 1
Project Name:	Clouds Chevron	**Collection Date:**	10/28/2016
Lab ID:	1610O41-068	**Matrix:**	Aqueous

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.24	1.0	ug/L	232159	1	11/02/2016 22:06	NP
Benzene	BRL		0.14	1.0	ug/L	232159	1	11/02/2016 22:06	NP
Ethylbenzene	BRL		0.20	1.0	ug/L	232159	1	11/02/2016 22:06	NP
Methyl tert-butyl ether	BRL		0.22	1.0	ug/L	232159	1	11/02/2016 22:06	NP
Naphthalene	BRL		0.13	5.0	ug/L	232159	1	11/02/2016 22:06	NP
Toluene	BRL		0.20	1.0	ug/L	232159	1	11/02/2016 22:06	NP
Xylenes, Total	BRL		0.30	1.0	ug/L	232159	1	11/02/2016 22:06	NP
Surr: 4-Bromofluorobenzene	103		0	70-130	%REC	232159	1	11/02/2016 22:06	NP
Surr: Dibromofluoromethane	113		0	70-130	%REC	232159	1	11/02/2016 22:06	NP
Surr: Toluene-d8	95.3		0	70-130	%REC	232159	1	11/02/2016 22:06	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		44	100	ug/L	232159	1	11/02/2016 22:06	NP
Ethanol	BRL		25	100	ug/L	232159	1	11/02/2016 22:06	NP
Ethyl tert-butyl ether	BRL		3.5	100	ug/L	232159	1	11/02/2016 22:06	NP
Isopropyl ether	BRL		3.9	10	ug/L	232159	1	11/02/2016 22:06	NP
tert-Amyl alcohol	BRL		43	100	ug/L	232159	1	11/02/2016 22:06	NP
tert-Amyl methyl ether	BRL		3.5	10	ug/L	232159	1	11/02/2016 22:06	NP
tert-Butyl Alcohol	BRL		46	100	ug/L	232159	1	11/02/2016 22:06	NP
tert-Butyl formate	BRL		31	100	ug/L	232159	1	11/02/2016 22:06	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 9-Nov-16

Client:	Crawford Environmental Services	**Client Sample ID:**	TRIP BLANK 2
Project Name:	Clouds Chevron	**Collection Date:**	10/28/2016
Lab ID:	1610O41-069	**Matrix:**	Aqueous

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.24	1.0	ug/L	232159	1	11/02/2016 22:31	NP
Benzene	BRL		0.14	1.0	ug/L	232159	1	11/02/2016 22:31	NP
Ethylbenzene	BRL		0.20	1.0	ug/L	232159	1	11/02/2016 22:31	NP
Methyl tert-butyl ether	BRL		0.22	1.0	ug/L	232159	1	11/02/2016 22:31	NP
Naphthalene	BRL		0.13	5.0	ug/L	232159	1	11/02/2016 22:31	NP
Toluene	BRL		0.20	1.0	ug/L	232159	1	11/02/2016 22:31	NP
Xylenes, Total	BRL		0.30	1.0	ug/L	232159	1	11/02/2016 22:31	NP
Surr: 4-Bromofluorobenzene	109		0	70-130	%REC	232159	1	11/02/2016 22:31	NP
Surr: Dibromofluoromethane	114		0	70-130	%REC	232159	1	11/02/2016 22:31	NP
Surr: Toluene-d8	96.9		0	70-130	%REC	232159	1	11/02/2016 22:31	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		44	100	ug/L	232159	1	11/02/2016 22:31	NP
Ethanol	BRL		25	100	ug/L	232159	1	11/02/2016 22:31	NP
Ethyl tert-butyl ether	BRL		3.5	100	ug/L	232159	1	11/02/2016 22:31	NP
Isopropyl ether	BRL		3.9	10	ug/L	232159	1	11/02/2016 22:31	NP
tert-Amyl alcohol	BRL		43	100	ug/L	232159	1	11/02/2016 22:31	NP
tert-Amyl methyl ether	BRL		3.5	10	ug/L	232159	1	11/02/2016 22:31	NP
tert-Butyl Alcohol	60	J	46	100	ug/L	232159	1	11/02/2016 22:31	NP
tert-Butyl formate	BRL		31	100	ug/L	232159	1	11/02/2016 22:31	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
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- Narr See case narrative

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Access-Crawford Work Order Number 1610041

Checklist completed by Alexa Hodge 10/20/16
Signature Date

Carrier name: FedEx ✓ UPS __ Courier __ Client __ US Mail __ Other _____

Shipping container/cooler in good condition? Yes ✓ No __ Not Present __

Custody seals intact on shipping container/cooler? Yes __ No __ Not Present ✓

Custody seals intact on sample bottles? Yes ✓ No __ Not Present __

Container/Temp Blank temperature in compliance? (0°≤6°C)* Yes ✓ No __

Cooler #1 3.3°C Cooler #2 2.4°C Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes ✓ No __

Chain of custody signed when relinquished and received? Yes ✓ No __

Chain of custody agrees with sample labels? Yes __ No ✓

Samples in proper container/bottle? Yes ✓ No __

Sample containers intact? Yes __ No ✓

Sufficient sample volume for indicated test? Yes ✓ No __

All samples received within holding time? Yes ✓ No __

Was TAT marked on the COC? Yes ✓ No __

Proceed with Standard TAT as per project history? Yes __ No __ Not Applicable ✓

Water - VOA vials have zero headspace? No VOA vials submitted __ Yes ✓ No __

Water - pH acceptable upon receipt? Yes ✓ No __ Not Applicable __

Adjusted? _____ Checked by _____

Sample Condition: Good __ Other(Explain) one of three vials received broken for samples "PW-IPR" and "34"

(For diffusive samples or AIHA lead) Is a known blank included? Yes __ No __

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

\\Aes_server\I\Sample Receipt\My Documents\COCs and pH Adjustment Sheet\Sample_Cooler_Recipt_Checklist_Rev1.rtf

Analytical Environmental Services, Inc

Date: 9-Nov-16

Client: Crawford Environmental Services
Project Name: Clouds Chevron
Lab Order: 1610O41

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1610O41-001A	DW-1	10/21/2016 11:50:00AM	Groundwater	Volatile Organic Compounds by GC/MS		11/2/2016 10:24:00AM	11/03/2016
1610O41-001A	DW-1	10/21/2016 11:50:00AM	Groundwater	Oxygenates by GC/MS		11/2/2016 10:24:00AM	11/03/2016
1610O41-002A	DW-2	10/21/2016 12:30:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/2/2016 10:24:00AM	11/03/2016
1610O41-002A	DW-2	10/21/2016 12:30:00PM	Groundwater	Oxygenates by GC/MS		11/2/2016 10:24:00AM	11/03/2016
1610O41-003A	DW-3	10/21/2016 2:40:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/2/2016 10:24:00AM	11/02/2016
1610O41-003A	DW-3	10/21/2016 2:40:00PM	Groundwater	Oxygenates by GC/MS		11/2/2016 10:24:00AM	11/02/2016
1610O41-004A	DW-4	10/21/2016 1:40:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/2/2016 10:24:00AM	11/03/2016
1610O41-004A	DW-4	10/21/2016 1:40:00PM	Groundwater	Oxygenates by GC/MS		11/2/2016 10:24:00AM	11/03/2016
1610O41-005A	DW-5	10/25/2016 11:15:00AM	Groundwater	Volatile Organic Compounds by GC/MS		11/2/2016 10:24:00AM	11/02/2016
1610O41-005A	DW-5	10/25/2016 11:15:00AM	Groundwater	Oxygenates by GC/MS		11/2/2016 10:24:00AM	11/02/2016
1610O41-006A	DW-6	10/25/2016 11:55:00AM	Groundwater	Volatile Organic Compounds by GC/MS		11/2/2016 10:24:00AM	11/03/2016
1610O41-006A	DW-6	10/25/2016 11:55:00AM	Groundwater	Oxygenates by GC/MS		11/2/2016 10:24:00AM	11/03/2016
1610O41-007A	DW-7	10/21/2016 8:45:00AM	Groundwater	Volatile Organic Compounds by GC/MS		11/1/2016 9:45:00PM	11/03/2016
1610O41-007A	DW-7	10/21/2016 8:45:00AM	Groundwater	Oxygenates by GC/MS		11/1/2016 9:45:00PM	11/03/2016
1610O41-008A	DW-9	10/21/2016 9:00:00AM	Groundwater	Volatile Organic Compounds by GC/MS		11/1/2016 9:45:00PM	11/03/2016
1610O41-008A	DW-9	10/21/2016 9:00:00AM	Groundwater	Oxygenates by GC/MS		11/1/2016 9:45:00PM	11/03/2016
1610O41-009A	PW-1 PR	10/21/2016 2:45:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/2/2016 10:24:00AM	11/02/2016
1610O41-009A	PW-1 PR	10/21/2016 2:45:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/2/2016 10:24:00AM	11/03/2016
1610O41-009A	PW-1 PR	10/21/2016 2:45:00PM	Groundwater	Oxygenates by GC/MS		11/2/2016 10:24:00AM	11/02/2016
1610O41-010A	5AR	10/21/2016 2:00:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/2/2016 10:24:00AM	11/02/2016
1610O41-010A	5AR	10/21/2016 2:00:00PM	Groundwater	Oxygenates by GC/MS		11/2/2016 10:24:00AM	11/02/2016
1610O41-011A	MW-2	10/21/2016 10:40:00AM	Groundwater	Volatile Organic Compounds by GC/MS		11/2/2016 10:24:00AM	11/03/2016
1610O41-011A	MW-2	10/21/2016 10:40:00AM	Groundwater	Oxygenates by GC/MS		11/2/2016 10:24:00AM	11/03/2016
1610O41-012A	MW-3	10/21/2016 10:50:00AM	Groundwater	Volatile Organic Compounds by GC/MS		11/2/2016 10:24:00AM	11/03/2016
1610O41-012A	MW-3	10/21/2016 10:50:00AM	Groundwater	Oxygenates by GC/MS		11/2/2016 10:24:00AM	11/03/2016
1610O41-013A	MW-4	10/21/2016 11:10:00AM	Groundwater	Volatile Organic Compounds by GC/MS		11/2/2016 10:24:00AM	11/03/2016
1610O41-013A	MW-4	10/21/2016 11:10:00AM	Groundwater	Oxygenates by GC/MS		11/2/2016 10:24:00AM	11/03/2016
1610O41-014A	MW-6	10/21/2016 11:00:00AM	Groundwater	Volatile Organic Compounds by GC/MS		11/2/2016 10:24:00AM	11/03/2016
1610O41-014A	MW-6	10/21/2016 11:00:00AM	Groundwater	Oxygenates by GC/MS		11/2/2016 10:24:00AM	11/03/2016

Analytical Environmental Services, Inc

Date: 9-Nov-16

Client: Crawford Environmental Services
Project Name: Clouds Chevron
Lab Order: 1610O41

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1610O41-015A	MW-7	10/21/2016 11:20:00AM	Groundwater	Volatile Organic Compounds by GC/MS		11/2/2016 10:24:00AM	11/03/2016
1610O41-015A	MW-7	10/21/2016 11:20:00AM	Groundwater	Oxygenates by GC/MS		11/2/2016 10:24:00AM	11/03/2016
1610O41-016A	MW-8	10/21/2016 11:30:00AM	Groundwater	Volatile Organic Compounds by GC/MS		11/2/2016 10:24:00AM	11/03/2016
1610O41-016A	MW-8	10/21/2016 11:30:00AM	Groundwater	Oxygenates by GC/MS		11/2/2016 10:24:00AM	11/03/2016
1610O41-017A	MW-9	10/21/2016 10:30:00AM	Groundwater	Volatile Organic Compounds by GC/MS		11/2/2016 10:24:00AM	11/02/2016
1610O41-017A	MW-9	10/21/2016 10:30:00AM	Groundwater	Volatile Organic Compounds by GC/MS		11/2/2016 10:24:00AM	11/03/2016
1610O41-017A	MW-9	10/21/2016 10:30:00AM	Groundwater	Oxygenates by GC/MS		11/2/2016 10:24:00AM	11/03/2016
1610O41-018A	MW-10	10/21/2016 10:20:00AM	Groundwater	Volatile Organic Compounds by GC/MS		11/2/2016 10:24:00AM	11/03/2016
1610O41-018A	MW-10	10/21/2016 10:20:00AM	Groundwater	Oxygenates by GC/MS		11/2/2016 10:24:00AM	11/03/2016
1610O41-019A	MW-11	10/21/2016 9:50:00AM	Groundwater	Volatile Organic Compounds by GC/MS		11/2/2016 10:24:00AM	11/03/2016
1610O41-019A	MW-11	10/21/2016 9:50:00AM	Groundwater	Oxygenates by GC/MS		11/2/2016 10:24:00AM	11/03/2016
1610O41-020A	MW-12	10/20/2016 3:20:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/1/2016 9:45:00PM	11/02/2016
1610O41-020A	MW-12	10/20/2016 3:20:00PM	Groundwater	Oxygenates by GC/MS		11/1/2016 9:45:00PM	11/02/2016
1610O41-021A	MW-13	10/20/2016 2:45:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/1/2016 9:45:00PM	11/02/2016
1610O41-021A	MW-13	10/20/2016 2:45:00PM	Groundwater	Oxygenates by GC/MS		11/1/2016 9:45:00PM	11/02/2016
1610O41-022A	MW-16	10/20/2016 2:30:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/1/2016 9:45:00PM	11/02/2016
1610O41-022A	MW-16	10/20/2016 2:30:00PM	Groundwater	Oxygenates by GC/MS		11/1/2016 9:45:00PM	11/02/2016
1610O41-023A	MW-17	10/20/2016 2:15:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/1/2016 9:45:00PM	11/02/2016
1610O41-023A	MW-17	10/20/2016 2:15:00PM	Groundwater	Oxygenates by GC/MS		11/1/2016 9:45:00PM	11/02/2016
1610O41-024A	MW-18	10/20/2016 1:30:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/1/2016 9:45:00PM	11/02/2016
1610O41-024A	MW-18	10/20/2016 1:30:00PM	Groundwater	Oxygenates by GC/MS		11/1/2016 9:45:00PM	11/02/2016
1610O41-025A	MW-19	10/21/2016 2:50:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/2/2016 10:24:00AM	11/02/2016
1610O41-025A	MW-19	10/21/2016 2:50:00PM	Groundwater	Oxygenates by GC/MS		11/2/2016 10:24:00AM	11/02/2016
1610O41-026A	MW-20	10/21/2016 2:20:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/2/2016 10:24:00AM	11/03/2016
1610O41-026A	MW-20	10/21/2016 2:20:00PM	Groundwater	Oxygenates by GC/MS		11/2/2016 10:24:00AM	11/03/2016
1610O41-027A	MW-22	10/21/2016 12:50:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/2/2016 10:24:00AM	11/02/2016
1610O41-027A	MW-22	10/21/2016 12:50:00PM	Groundwater	Oxygenates by GC/MS		11/2/2016 10:24:00AM	11/02/2016
1610O41-028A	MW-23	10/21/2016 3:10:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/2/2016 10:48:00AM	11/02/2016
1610O41-028A	MW-23	10/21/2016 3:10:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/2/2016 10:48:00AM	11/03/2016

Analytical Environmental Services, Inc

Date: 9-Nov-16

Client: Crawford Environmental Services
Project Name: Clouds Chevron
Lab Order: 1610O41

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1610O41-028A	MW-23	10/21/2016 3:10:00PM	Groundwater	Oxygenates by GC/MS		11/2/2016 10:48:00AM	11/03/2016
1610O41-029A	MW-25	10/19/2016 3:25:00PM	Groundwater	Volatile Organic Compounds by GC/MS		10/31/2016 6:50:00PM	10/31/2016
1610O41-029A	MW-25	10/19/2016 3:25:00PM	Groundwater	Volatile Organic Compounds by GC/MS		10/31/2016 6:50:00PM	11/01/2016
1610O41-029A	MW-25	10/19/2016 3:25:00PM	Groundwater	Oxygenates by GC/MS		10/31/2016 6:50:00PM	11/01/2016
1610O41-030A	MW-27	10/19/2016 2:05:00PM	Groundwater	Volatile Organic Compounds by GC/MS		10/31/2016 6:50:00PM	11/01/2016
1610O41-030A	MW-27	10/19/2016 2:05:00PM	Groundwater	Oxygenates by GC/MS		10/31/2016 6:50:00PM	11/01/2016
1610O41-031A	MW-28	10/19/2016 1:55:00PM	Groundwater	Volatile Organic Compounds by GC/MS		10/31/2016 6:50:00PM	11/01/2016
1610O41-031A	MW-28	10/19/2016 1:55:00PM	Groundwater	Oxygenates by GC/MS		10/31/2016 6:50:00PM	11/01/2016
1610O41-032A	MW-29	10/19/2016 1:54:00PM	Groundwater	Volatile Organic Compounds by GC/MS		10/31/2016 6:50:00PM	11/01/2016
1610O41-032A	MW-29	10/19/2016 1:54:00PM	Groundwater	Oxygenates by GC/MS		10/31/2016 6:50:00PM	11/01/2016
1610O41-033A	MW-30	10/19/2016 2:40:00PM	Groundwater	Volatile Organic Compounds by GC/MS		10/31/2016 6:50:00PM	11/01/2016
1610O41-033A	MW-30	10/19/2016 2:40:00PM	Groundwater	Oxygenates by GC/MS		10/31/2016 6:50:00PM	11/01/2016
1610O41-034A	MW-31	10/20/2016 10:00:00AM	Groundwater	Volatile Organic Compounds by GC/MS		10/31/2016 6:50:00PM	11/01/2016
1610O41-034A	MW-31	10/20/2016 10:00:00AM	Groundwater	Oxygenates by GC/MS		10/31/2016 6:50:00PM	11/01/2016
1610O41-035A	MW-33	10/19/2016 2:20:00PM	Groundwater	Volatile Organic Compounds by GC/MS		10/31/2016 6:50:00PM	10/31/2016
1610O41-035A	MW-33	10/19/2016 2:20:00PM	Groundwater	Volatile Organic Compounds by GC/MS		10/31/2016 6:50:00PM	11/01/2016
1610O41-035A	MW-33	10/19/2016 2:20:00PM	Groundwater	Oxygenates by GC/MS		10/31/2016 6:50:00PM	11/01/2016
1610O41-036A	MW-34	10/19/2016 3:10:00PM	Groundwater	Volatile Organic Compounds by GC/MS		10/31/2016 6:50:00PM	11/01/2016
1610O41-036A	MW-34	10/19/2016 3:10:00PM	Groundwater	Oxygenates by GC/MS		10/31/2016 6:50:00PM	11/01/2016
1610O41-037A	MW-35	10/20/2016 9:45:00AM	Groundwater	Volatile Organic Compounds by GC/MS		10/31/2016 6:50:00PM	11/02/2016
1610O41-037A	MW-35	10/20/2016 9:45:00AM	Groundwater	Oxygenates by GC/MS		10/31/2016 6:50:00PM	11/02/2016
1610O41-038A	MW-36	10/19/2016 2:45:00PM	Groundwater	Volatile Organic Compounds by GC/MS		10/31/2016 6:50:00PM	11/01/2016
1610O41-038A	MW-36	10/19/2016 2:45:00PM	Groundwater	Oxygenates by GC/MS		10/31/2016 6:50:00PM	11/01/2016
1610O41-039A	MW-37	10/20/2016 9:30:00AM	Groundwater	Volatile Organic Compounds by GC/MS		10/31/2016 6:50:00PM	11/01/2016
1610O41-039A	MW-37	10/20/2016 9:30:00AM	Groundwater	Oxygenates by GC/MS		10/31/2016 6:50:00PM	11/01/2016
1610O41-040A	MW-38	10/20/2016 10:15:00AM	Groundwater	Volatile Organic Compounds by GC/MS		10/31/2016 6:50:00PM	11/01/2016
1610O41-040A	MW-38	10/20/2016 10:15:00AM	Groundwater	Oxygenates by GC/MS		10/31/2016 6:50:00PM	11/01/2016
1610O41-041A	MW-39	10/20/2016 10:45:00AM	Groundwater	Volatile Organic Compounds by GC/MS		10/31/2016 6:50:00PM	11/02/2016
1610O41-041A	MW-39	10/20/2016 10:45:00AM	Groundwater	Oxygenates by GC/MS		10/31/2016 6:50:00PM	11/02/2016

Analytical Environmental Services, Inc

Date: 9-Nov-16

Client: Crawford Environmental Services
Project Name: Clouds Chevron
Lab Order: 1610O41

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1610O41-042A	MW-40	10/20/2016 11:00:00AM	Groundwater	Volatile Organic Compounds by GC/MS		10/31/2016 6:50:00PM	11/02/2016
1610O41-042A	MW-40	10/20/2016 11:00:00AM	Groundwater	Oxygenates by GC/MS		10/31/2016 6:50:00PM	11/02/2016
1610O41-043A	MW-41	10/20/2016 11:15:00AM	Groundwater	Volatile Organic Compounds by GC/MS		10/31/2016 6:50:00PM	11/02/2016
1610O41-043A	MW-41	10/20/2016 11:15:00AM	Groundwater	Oxygenates by GC/MS		10/31/2016 6:50:00PM	11/02/2016
1610O41-044A	MW-42	10/20/2016 11:30:00AM	Groundwater	Volatile Organic Compounds by GC/MS		11/1/2016 9:45:00PM	11/02/2016
1610O41-044A	MW-42	10/20/2016 11:30:00AM	Groundwater	Oxygenates by GC/MS		11/1/2016 9:45:00PM	11/02/2016
1610O41-045A	MW-43	10/20/2016 1:00:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/1/2016 9:45:00PM	11/02/2016
1610O41-045A	MW-43	10/20/2016 1:00:00PM	Groundwater	Oxygenates by GC/MS		11/1/2016 9:45:00PM	11/02/2016
1610O41-046A	MW-44	10/20/2016 1:15:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/1/2016 9:45:00PM	11/02/2016
1610O41-046A	MW-44	10/20/2016 1:15:00PM	Groundwater	Oxygenates by GC/MS		11/1/2016 9:45:00PM	11/02/2016
1610O41-047A	MW-45	10/20/2016 1:45:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/1/2016 9:45:00PM	11/02/2016
1610O41-047A	MW-45	10/20/2016 1:45:00PM	Groundwater	Oxygenates by GC/MS		11/1/2016 9:45:00PM	11/02/2016
1610O41-048A	MW-46	10/20/2016 2:00:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/1/2016 9:45:00PM	11/02/2016
1610O41-048A	MW-46	10/20/2016 2:00:00PM	Groundwater	Oxygenates by GC/MS		11/1/2016 9:45:00PM	11/02/2016
1610O41-049A	MW-49	10/25/2016 10:30:00AM	Groundwater	Volatile Organic Compounds by GC/MS		11/2/2016 10:48:00AM	11/03/2016
1610O41-049A	MW-49	10/25/2016 10:30:00AM	Groundwater	Oxygenates by GC/MS		11/2/2016 10:48:00AM	11/03/2016
1610O41-050A	MW-51	10/20/2016 10:10:00AM	Groundwater	Volatile Organic Compounds by GC/MS		10/31/2016 6:50:00PM	11/01/2016
1610O41-050A	MW-51	10/20/2016 10:10:00AM	Groundwater	Oxygenates by GC/MS		10/31/2016 6:50:00PM	11/01/2016
1610O41-051A	MW-53	10/21/2016 9:30:00AM	Groundwater	Volatile Organic Compounds by GC/MS		11/2/2016 10:48:00AM	11/03/2016
1610O41-051A	MW-53	10/21/2016 9:30:00AM	Groundwater	Oxygenates by GC/MS		11/2/2016 10:48:00AM	11/03/2016
1610O41-052A	MW-54	10/20/2016 3:00:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/1/2016 9:45:00PM	11/02/2016
1610O41-052A	MW-54	10/20/2016 3:00:00PM	Groundwater	Oxygenates by GC/MS		11/1/2016 9:45:00PM	11/02/2016
1610O41-053A	MW-55	10/21/2016 9:15:00AM	Groundwater	Volatile Organic Compounds by GC/MS		11/2/2016 10:48:00AM	11/02/2016
1610O41-053A	MW-55	10/21/2016 9:15:00AM	Groundwater	Volatile Organic Compounds by GC/MS		11/2/2016 10:48:00AM	11/03/2016
1610O41-053A	MW-55	10/21/2016 9:15:00AM	Groundwater	Oxygenates by GC/MS		11/2/2016 10:48:00AM	11/02/2016
1610O41-053A	MW-55	10/21/2016 9:15:00AM	Groundwater	Oxygenates by GC/MS		11/2/2016 10:48:00AM	11/03/2016
1610O41-054A	MW-56	10/21/2016 8:45:00AM	Groundwater	Volatile Organic Compounds by GC/MS		11/1/2016 9:45:00PM	11/03/2016
1610O41-054A	MW-56	10/21/2016 8:45:00AM	Groundwater	Oxygenates by GC/MS		11/1/2016 9:45:00PM	11/03/2016
1610O41-055A	MW-59	10/20/2016 3:35:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/1/2016 9:45:00PM	11/02/2016

Analytical Environmental Services, Inc

Date: 9-Nov-16

Client: Crawford Environmental Services
Project Name: Clouds Chevron
Lab Order: 1610O41

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1610O41-055A	MW-59	10/20/2016 3:35:00PM	Groundwater	Oxygenates by GC/MS		11/1/2016 9:45:00PM	11/02/2016
1610O41-056A	MW-63	10/20/2016 12:00:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/1/2016 9:45:00PM	11/02/2016
1610O41-056A	MW-63	10/20/2016 12:00:00PM	Groundwater	Oxygenates by GC/MS		11/1/2016 9:45:00PM	11/02/2016
1610O41-057A	MW-67	10/20/2016 10:30:00AM	Groundwater	Volatile Organic Compounds by GC/MS		10/31/2016 6:50:00PM	11/02/2016
1610O41-057A	MW-67	10/20/2016 10:30:00AM	Groundwater	Oxygenates by GC/MS		10/31/2016 6:50:00PM	11/02/2016
1610O41-058A	MW-70	10/20/2016 11:45:00AM	Groundwater	Volatile Organic Compounds by GC/MS		11/1/2016 9:45:00PM	11/02/2016
1610O41-058A	MW-70	10/20/2016 11:45:00AM	Groundwater	Oxygenates by GC/MS		11/1/2016 9:45:00PM	11/02/2016
1610O41-059A	FB1	10/19/2016 3:30:00PM	Groundwater	Volatile Organic Compounds by GC/MS		10/31/2016 6:50:00PM	10/31/2016
1610O41-059A	FB1	10/19/2016 3:30:00PM	Groundwater	Oxygenates by GC/MS		10/31/2016 6:50:00PM	10/31/2016
1610O41-060A	FB2	10/20/2016 3:50:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/1/2016 9:45:00PM	11/01/2016
1610O41-060A	FB2	10/20/2016 3:50:00PM	Groundwater	Oxygenates by GC/MS		11/1/2016 9:45:00PM	11/01/2016
1610O41-061A	FB3	10/21/2016 3:30:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/2/2016 10:48:00AM	11/03/2016
1610O41-061A	FB3	10/21/2016 3:30:00PM	Groundwater	Oxygenates by GC/MS		11/2/2016 10:48:00AM	11/02/2016
1610O41-062A	FB4	10/25/2016 12:10:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/2/2016 10:48:00AM	11/02/2016
1610O41-062A	FB4	10/25/2016 12:10:00PM	Groundwater	Oxygenates by GC/MS		11/2/2016 10:48:00AM	11/02/2016
1610O41-063A	DUP-1	10/19/2016 2:25:00PM	Groundwater	Volatile Organic Compounds by GC/MS		10/31/2016 6:50:00PM	10/31/2016
1610O41-063A	DUP-1	10/19/2016 2:25:00PM	Groundwater	Volatile Organic Compounds by GC/MS		10/31/2016 6:50:00PM	11/01/2016
1610O41-063A	DUP-1	10/19/2016 2:25:00PM	Groundwater	Oxygenates by GC/MS		10/31/2016 6:50:00PM	11/01/2016
1610O41-064A	DUP-2	10/20/2016 12:05:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/1/2016 9:45:00PM	11/02/2016
1610O41-064A	DUP-2	10/20/2016 12:05:00PM	Groundwater	Oxygenates by GC/MS		11/1/2016 9:45:00PM	11/02/2016
1610O41-065A	DUP-3	10/20/2016 3:05:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/1/2016 9:45:00PM	11/02/2016
1610O41-065A	DUP-3	10/20/2016 3:05:00PM	Groundwater	Oxygenates by GC/MS		11/1/2016 9:45:00PM	11/02/2016
1610O41-066A	DUP-4	10/21/2016 11:05:00AM	Groundwater	Volatile Organic Compounds by GC/MS		11/2/2016 10:48:00AM	11/03/2016
1610O41-066A	DUP-4	10/21/2016 11:05:00AM	Groundwater	Oxygenates by GC/MS		11/2/2016 10:48:00AM	11/03/2016
1610O41-067A	DUP-5	10/21/2016 2:50:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/2/2016 10:48:00AM	11/02/2016
1610O41-067A	DUP-5	10/21/2016 2:50:00PM	Groundwater	Oxygenates by GC/MS		11/2/2016 10:48:00AM	11/02/2016
1610O41-068A	TRIP BLANK 1	10/28/2016 12:00:00AM	Aqueous	Volatile Organic Compounds by GC/MS		11/2/2016 10:48:00AM	11/02/2016
1610O41-068A	TRIP BLANK 1	10/28/2016 12:00:00AM	Aqueous	Oxygenates by GC/MS		11/2/2016 10:48:00AM	11/02/2016
1610O41-069A	TRIP BLANK 2	10/28/2016 12:00:00AM	Aqueous	Volatile Organic Compounds by GC/MS		11/2/2016 10:48:00AM	11/02/2016

Analytical Environmental Services, Inc

Date: 9-Nov-16

Client: Crawford Environmental Services
Project Name: Clouds Chevron
Lab Order: 1610O41

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1610O41-069A	TRIP BLANK 2	10/28/2016 12:00:00AM	Aqueous	Oxygenates by GC/MS		11/2/2016 10:48:00AM	11/02/2016

Client: Crawford Environmental Services
Project Name: Clouds Chevron
Workorder: 1610O41

ANALYTICAL QC SUMMARY REPORT

BatchID: 232049

Sample ID: **MB-232049** Client ID: Units: **ug/L** Prep Date: **10/31/2016** Run No: **328689**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **232049** Analysis Date: **10/31/2016** Seq No: **7133026**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	BRL	1.0									
Benzene	BRL	1.0									
Ethylbenzene	BRL	1.0									
Methyl tert-butyl ether	BRL	1.0									
Naphthalene	BRL	5.0									
Toluene	BRL	1.0									
Xylenes, Total	BRL	1.0									
Surr: 4-Bromofluorobenzene	51.30	0	50.00		103	70	130				
Surr: Dibromofluoromethane	53.03	0	50.00		106	70	130				
Surr: Toluene-d8	47.36	0	50.00		94.7	70	130				

Sample ID: **MB-232049** Client ID: Units: **ug/L** Prep Date: **10/31/2016** Run No: **328689**
SampleType: **MBLK** TestCode: **Oxygenates SW8260B** BatchID: **232049** Analysis Date: **10/31/2016** Seq No: **7133326**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
3,3-Dimethyl-1-butanol	BRL	100									
Ethanol	BRL	100									
Ethyl tert-butyl ether	BRL	100									
Isopropyl ether	BRL	10									
tert-Amyl alcohol	BRL	100									
tert-Amyl methyl ether	BRL	10									
tert-Butyl Alcohol	BRL	100									
tert-Butyl formate	BRL	100									

Sample ID: **LCS-232049** Client ID: Units: **ug/L** Prep Date: **10/31/2016** Run No: **328689**
SampleType: **LCS** TestCode: **Oxygenates SW8260B** BatchID: **232049** Analysis Date: **10/31/2016** Seq No: **7133323**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Crawford Environmental Services
Project Name: Clouds Chevron
Workorder: 1610O41

ANALYTICAL QC SUMMARY REPORT

BatchID: 232049

Sample ID: **LCS-232049** Client ID: Units: **ug/L** Prep Date: **10/31/2016** Run No: **328689**
SampleType: **LCS** TestCode: **Oxygenates SW8260B** BatchID: **232049** Analysis Date: **10/31/2016** Seq No: **7133323**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
3,3-Dimethyl-1-butanol	537.2	100	500.0		107	70	130				
Ethanol	622.4	100	500.0		124	70	130				
Ethyl tert-butyl ether	92.30	10	100.0		92.3	70	130				
Isopropyl ether	91.46	10	100.0		91.5	70	130				
tert-Amyl alcohol	609.0	100	500.0		122	70	130				
tert-Amyl methyl ether	89.62	10	100.0		89.6	70	130				
tert-Butyl Alcohol	633.1	100	500.0		127	70	130				
tert-Butyl formate	467.7	100	500.0		93.5	70	130				

Sample ID: **LCS-232049** Client ID: Units: **ug/L** Prep Date: **10/31/2016** Run No: **328735**
SampleType: **LCS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **232049** Analysis Date: **11/01/2016** Seq No: **7135427**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	57.54	1.0	50.00		115	70	130				
Benzene	57.43	1.0	50.00		115	70	130				
Ethylbenzene	56.34	1.0	50.00		113	70	130				
Naphthalene	59.23	5.0	50.00		118	70	130				
Toluene	58.20	1.0	50.00		116	70	130				
Xylenes, Total	175.4	1.0	150.0		117	70	130				
Surr: 4-Bromofluorobenzene	55.10	0	50.00		110	70	130				
Surr: Dibromofluoromethane	51.88	0	50.00		104	70	130				
Surr: Toluene-d8	52.51	0	50.00		105	70	130				

Sample ID: **1610O41-029AMS** Client ID: **MW-25** Units: **ug/L** Prep Date: **10/31/2016** Run No: **328689**
SampleType: **MS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **232049** Analysis Date: **10/31/2016** Seq No: **7133016**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	4886	100	5000		97.7	66.5	133				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Analytical Environmental Services, Inc

Date: 9-Nov-16

Client: Crawford Environmental Services
Project Name: Clouds Chevron
Workorder: 1610O41

ANALYTICAL QC SUMMARY REPORT

BatchID: 232049

Sample ID: **1610O41-029AMS**	Client ID: **MW-25**			Units: **ug/L**		Prep Date: **10/31/2016**		Run No: **328689**	
SampleType: **MS**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**			BatchID: **232049**		Analysis Date: **10/31/2016**		Seq No: **7133016**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	3877	100	5000		77.5	70.1	132				
Ethylbenzene	4835	100	5000	233.0	92.0	77.8	129				
Naphthalene	4313	500	5000	446.0	77.3	50.2	134				
Toluene	4356	100	5000	108.0	85.0	70.1	133				
Xylenes, Total	17410	100	15000	3358	93.7	74.7	133				
Surr: 4-Bromofluorobenzene	5093	0	5000		102	70	130				
Surr: Dibromofluoromethane	5301	0	5000		106	70	130				
Surr: Toluene-d8	4743	0	5000		94.9	70	130				

Sample ID: **1610O41-029AMS**	Client ID: **MW-25**			Units: **ug/L**		Prep Date: **10/31/2016**		Run No: **328689**	
SampleType: **MS**	TestCode: **Oxygenates SW8260B**			BatchID: **232049**		Analysis Date: **10/31/2016**		Seq No: **7133324**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
3,3-Dimethyl-1-butanol	50850	10000	50000		102	61.1	139				
Ethanol	56310	10000	50000		113	61.7	144				
Ethyl tert-butyl ether	8997	1000	10000		90.0	69.6	130				
Isopropyl ether	8803	1000	10000		88.0	70.1	134				
tert-Amyl alcohol	57860	10000	50000		116	66.5	145				
tert-Amyl methyl ether	8691	1000	10000		86.9	70.1	127				
tert-Butyl Alcohol	59550	10000	50000		119	70	149				
tert-Butyl formate	46040	10000	50000		92.1	41.5	139				

Sample ID: **1610O41-029AMSD**	Client ID: **MW-25**			Units: **ug/L**		Prep Date: **10/31/2016**		Run No: **328689**	
SampleType: **MSD**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**			BatchID: **232049**		Analysis Date: **10/31/2016**		Seq No: **7133021**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	4943	100	5000		98.9	66.5	133	4886	1.16	20	
Benzene	3871	100	5000		77.4	70.1	132	3877	0.155	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Crawford Environmental Services
Project Name: Clouds Chevron
Workorder: 1610O41

ANALYTICAL QC SUMMARY REPORT

BatchID: 232049

Sample ID: **1610O41-029AMSD** Client ID: **MW-25** Units: **ug/L** Prep Date: **10/31/2016** Run No: **328689**
SampleType: **MSD** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **232049** Analysis Date: **10/31/2016** Seq No: **7133021**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethylbenzene	4741	100	5000	233.0	90.2	77.8	129	4835	1.96	20	
Naphthalene	4224	500	5000	446.0	75.6	50.2	134	4313	2.09	32.5	
Toluene	4397	100	5000	108.0	85.8	70.1	133	4356	0.937	20	
Xylenes, Total	17090	100	15000	3358	91.5	74.7	133	17410	1.86	22.7	
Surr: 4-Bromofluorobenzene	5051	0	5000		101	70	130	5093	0	0	
Surr: Dibromofluoromethane	5435	0	5000		109	70	130	5301	0	0	
Surr: Toluene-d8	4837	0	5000		96.7	70	130	4743	0	0	

Sample ID: **1610O41-029AMSD** Client ID: **MW-25** Units: **ug/L** Prep Date: **10/31/2016** Run No: **328689**
SampleType: **MSD** TestCode: **Oxygenates SW8260B** BatchID: **232049** Analysis Date: **10/31/2016** Seq No: **7133325**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
3,3-Dimethyl-1-butanol	52140	10000	50000		104	61.1	139	50850	2.50	24.9	
Ethanol	59200	10000	50000		118	61.7	144	56310	5.00	27.9	
Ethyl tert-butyl ether	8868	1000	10000		88.7	69.6	130	8997	1.44	20	
Isopropyl ether	8550	1000	10000		85.5	70.1	134	8803	2.92	20	
tert-Amyl alcohol	58650	10000	50000		117	66.5	145	57860	1.37	24.8	
tert-Amyl methyl ether	8610	1000	10000		86.1	70.1	127	8691	0.936	20	
tert-Butyl Alcohol	59760	10000	50000		120	70	149	59550	0.352	29.4	
tert-Butyl formate	44330	10000	50000		88.7	41.5	139	46040	3.78	21.6	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Crawford Environmental Services
Project Name: Clouds Chevron
Workorder: 1610O41

ANALYTICAL QC SUMMARY REPORT

BatchID: 232138

Sample ID: **MB-232138** Client ID: Units: **ug/L** Prep Date: **11/01/2016** Run No: **328810**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **232138** Analysis Date: **11/01/2016** Seq No: **7135812**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	BRL	1.0									
Benzene	BRL	1.0									
Ethylbenzene	BRL	1.0									
Methyl tert-butyl ether	BRL	1.0									
Naphthalene	BRL	5.0									
Toluene	BRL	1.0									
Xylenes, Total	BRL	1.0									
Surr: 4-Bromofluorobenzene	54.25	0	50.00		108	70	130				
Surr: Dibromofluoromethane	55.55	0	50.00		111	70	130				
Surr: Toluene-d8	47.89	0	50.00		95.8	70	130				

Sample ID: **MB-232138** Client ID: Units: **ug/L** Prep Date: **11/01/2016** Run No: **328810**
SampleType: **MBLK** TestCode: **Oxygenates SW8260B** BatchID: **232138** Analysis Date: **11/01/2016** Seq No: **7136027**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
3,3-Dimethyl-1-butanol	BRL	100									
Ethanol	BRL	100									
Ethyl tert-butyl ether	BRL	100									
Isopropyl ether	BRL	10									
tert-Amyl alcohol	BRL	100									
tert-Amyl methyl ether	BRL	10									
tert-Butyl Alcohol	BRL	100									
tert-Butyl formate	BRL	100									

Sample ID: **LCS-232138** Client ID: Units: **ug/L** Prep Date: **11/01/2016** Run No: **328810**
SampleType: **LCS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **232138** Analysis Date: **11/01/2016** Seq No: **7135811**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Analytical Environmental Services, Inc

Date: 9-Nov-16

Client: Crawford Environmental Services
Project Name: Clouds Chevron
Workorder: 1610O41

ANALYTICAL QC SUMMARY REPORT

BatchID: 232138

Sample ID: **LCS-232138** Client ID: Units: **ug/L** Prep Date: **11/01/2016** Run No: **328810**
SampleType: **LCS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **232138** Analysis Date: **11/01/2016** Seq No: **7135811**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	54.01	1.0	50.00		108	70	130				
Benzene	43.48	1.0	50.00		87.0	70	130				
Ethylbenzene	50.39	1.0	50.00		101	70	130				
Naphthalene	47.54	5.0	50.00		95.1	70	130				
Toluene	46.03	1.0	50.00		92.1	70	130				
Xylenes, Total	158.6	1.0	150.0		106	70	130				
Surr: 4-Bromofluorobenzene	53.42	0	50.00		107	70	130				
Surr: Dibromofluoromethane	56.24	0	50.00		112	70	130				
Surr: Toluene-d8	47.16	0	50.00		94.3	70	130				

Sample ID: **LCS-232138** Client ID: Units: **ug/L** Prep Date: **11/01/2016** Run No: **328810**
SampleType: **LCS** TestCode: **Oxygenates SW8260B** BatchID: **232138** Analysis Date: **11/01/2016** Seq No: **7136026**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
3,3-Dimethyl-1-butanol	590.9	100	500.0		118	70	130				
Ethanol	509.4	100	500.0		102	70	130				
Ethyl tert-butyl ether	102.4	100	100.0		102	70	130				
Isopropyl ether	98.33	10	100.0		98.3	70	130				
tert-Amyl alcohol	630.4	100	500.0		126	70	130				
tert-Amyl methyl ether	94.82	10	100.0		94.8	70	130				
tert-Butyl Alcohol	633.5	100	500.0		127	70	130				
tert-Butyl formate	434.5	100	500.0		86.9	70	130				

Sample ID: **1610O41-023AMS** Client ID: **MW-17** Units: **ug/L** Prep Date: **11/01/2016** Run No: **328810**
SampleType: **MS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **232138** Analysis Date: **11/02/2016** Seq No: **7135840**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	5474	100	5000		109	66.5	133				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Analytical Environmental Services, Inc

Date: 9-Nov-16

Client: Crawford Environmental Services
Project Name: Clouds Chevron
Workorder: 1610O41

ANALYTICAL QC SUMMARY REPORT

BatchID: 232138

Sample ID: **1610O41-023AMS**	Client ID: **MW-17**			Units: **ug/L**		Prep Date: **11/01/2016**		Run No: **328810**	
SampleType: **MS**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**			BatchID: **232138**		Analysis Date: **11/02/2016**		Seq No: **7135840**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	4575	100	5000		91.5	70.1	132				
Ethylbenzene	5775	100	5000	509.0	105	77.8	129				
Naphthalene	6111	500	5000	564.0	111	50.2	134				
Toluene	10180	100	5000	5478	94.0	70.1	133				
Xylenes, Total	26760	100	15000	10730	107	74.7	133				
Surr: 4-Bromofluorobenzene	5327	0	5000		107	70	130				
Surr: Dibromofluoromethane	5650	0	5000		113	70	130				
Surr: Toluene-d8	4804	0	5000		96.1	70	130				

Sample ID: **1610O41-023AMS**	Client ID: **MW-17**			Units: **ug/L**		Prep Date: **11/01/2016**		Run No: **328810**	
SampleType: **MS**	TestCode: **Oxygenates SW8260B**			BatchID: **232138**		Analysis Date: **11/02/2016**		Seq No: **7136051**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
3,3-Dimethyl-1-butanol	47880	10000	50000		95.8	61.1	139				
Ethanol	55820	10000	50000		112	61.7	144				
Ethyl tert-butyl ether	10330	10000	10000		103	69.6	130				
Isopropyl ether	10120	1000	10000		101	70.1	134				
tert-Amyl alcohol	56400	10000	50000		113	66.5	145				
tert-Amyl methyl ether	9767	1000	10000		97.7	70.1	127				
tert-Butyl Alcohol	53470	10000	50000		107	70	149				
tert-Butyl formate	45440	10000	50000		90.9	41.5	139				

Sample ID: **1610O41-023AMSD**	Client ID: **MW-17**			Units: **ug/L**		Prep Date: **11/01/2016**		Run No: **328810**	
SampleType: **MSD**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**			BatchID: **232138**		Analysis Date: **11/02/2016**		Seq No: **7135841**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	5377	100	5000		108	66.5	133	5474	1.79	20	
Benzene	4500	100	5000		90.0	70.1	132	4575	1.65	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Analytical Environmental Services, Inc

Date: 9-Nov-16

Client: Crawford Environmental Services
Project Name: Clouds Chevron
Workorder: 1610O41

ANALYTICAL QC SUMMARY REPORT

BatchID: 232138

Sample ID: **1610O41-023AMSD**	Client ID: **MW-17**			Units: **ug/L**		Prep Date: **11/01/2016**		Run No: **328810**	
SampleType: **MSD**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**			BatchID: **232138**		Analysis Date: **11/02/2016**		Seq No: **7135841**	

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethylbenzene	5509	100	5000	509.0	100	77.8	129	5775	4.71	20	
Naphthalene	5592	500	5000	564.0	101	50.2	134	6111	8.87	32.5	
Toluene	10060	100	5000	5478	91.6	70.1	133	10180	1.17	20	
Xylenes, Total	25930	100	15000	10730	101	74.7	133	26760	3.18	22.7	
Surr: 4-Bromofluorobenzene	5375	0	5000		108	70	130	5327	0	0	
Surr: Dibromofluoromethane	5650	0	5000		113	70	130	5650	0	0	
Surr: Toluene-d8	4784	0	5000		95.7	70	130	4804	0	0	

Sample ID: **1610O41-023AMSD**	Client ID: **MW-17**			Units: **ug/L**		Prep Date: **11/01/2016**		Run No: **328810**	
SampleType: **MSD**	TestCode: **Oxygenates SW8260B**			BatchID: **232138**		Analysis Date: **11/02/2016**		Seq No: **7136052**	

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
3,3-Dimethyl-1-butanol	55450	10000	50000		111	61.1	139	47880	14.7	24.9	
Ethanol	58110	10000	50000		116	61.7	144	55820	4.01	27.9	
Ethyl tert-butyl ether	10110	10000	10000		101	69.6	130	10330	2.21	20	
Isopropyl ether	9767	1000	10000		97.7	70.1	134	10120	3.56	20	
tert-Amyl alcohol	58740	10000	50000		117	66.5	145	56400	4.05	24.8	
tert-Amyl methyl ether	9611	1000	10000		96.1	70.1	127	9767	1.61	20	
tert-Butyl Alcohol	62610	10000	50000		125	70	149	53470	15.7	29.4	
tert-Butyl formate	43640	10000	50000		87.3	41.5	139	45440	4.03	21.6	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Crawford Environmental Services
Project Name: Clouds Chevron
Workorder: 1610O41

ANALYTICAL QC SUMMARY REPORT

BatchID: 232158

Sample ID: **MB-232158**	Client ID:				Units: **ug/L**		Prep Date: **11/02/2016**		Run No: **328857**	
SampleType: **MBLK**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**				BatchID: **232158**		Analysis Date: **11/02/2016**		Seq No: **7137219**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	BRL	1.0									
Benzene	BRL	1.0									
Ethylbenzene	BRL	1.0									
Methyl tert-butyl ether	BRL	1.0									
Naphthalene	1.560	5.0									J
Toluene	BRL	1.0									
Xylenes, Total	BRL	1.0									
Surr: 4-Bromofluorobenzene	54.25	0	50.00		108	70	130				
Surr: Dibromofluoromethane	55.80	0	50.00		112	70	130				
Surr: Toluene-d8	48.54	0	50.00		97.1	70	130				

Sample ID: **MB-232158**	Client ID:				Units: **ug/L**		Prep Date: **11/02/2016**		Run No: **328857**	
SampleType: **MBLK**	TestCode: **Oxygenates SW8260B**				BatchID: **232158**		Analysis Date: **11/02/2016**		Seq No: **7137320**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
3,3-Dimethyl-1-butanol	BRL	100									
Ethanol	BRL	100									
Ethyl tert-butyl ether	BRL	100									
Isopropyl ether	BRL	10									
tert-Amyl alcohol	BRL	100									
tert-Amyl methyl ether	BRL	10									
tert-Butyl Alcohol	BRL	100									
tert-Butyl formate	BRL	100									

Sample ID: **LCS-232158**	Client ID:				Units: **ug/L**		Prep Date: **11/02/2016**		Run No: **328938**	
SampleType: **LCS**	TestCode: **Oxygenates SW8260B**				BatchID: **232158**		Analysis Date: **11/03/2016**		Seq No: **7141923**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Crawford Environmental Services
Project Name: Clouds Chevron
Workorder: 1610O41

ANALYTICAL QC SUMMARY REPORT

BatchID: 232158

Sample ID: **LCS-232158** Client ID: Units: **ug/L** Prep Date: **11/02/2016** Run No: **328938**
SampleType: **LCS** TestCode: **Oxygenates SW8260B** BatchID: **232158** Analysis Date: **11/03/2016** Seq No: **7141923**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
3,3-Dimethyl-1-butanol	422.8	100	500.0		84.6	70	130				
Ethanol	400.9	100	500.0		80.2	70	130				
Ethyl tert-butyl ether	95.75	10	100.0		95.8	70	130				
Isopropyl ether	91.43	10	100.0		91.4	70	130				
tert-Amyl alcohol	587.4	100	500.0		117	70	130				
tert-Amyl methyl ether	90.64	10	100.0		90.6	70	130				
tert-Butyl Alcohol	507.4	100	500.0		101	70	130				
tert-Butyl formate	430.6	100	500.0		86.1	70	130				

Sample ID: **LCS-232158** Client ID: Units: **ug/L** Prep Date: **11/02/2016** Run No: **329027**
SampleType: **LCS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **232158** Analysis Date: **11/04/2016** Seq No: **7142203**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	60.50	1.0	50.00		121	70	130				
Benzene	47.85	1.0	50.00		95.7	70	130				
Ethylbenzene	54.77	1.0	50.00		110	70	130				
Naphthalene	47.67	5.0	50.00	1.560	92.2	70	130				
Toluene	50.20	1.0	50.00		100	70	130				
Xylenes, Total	171.9	1.0	150.0		115	70	130				
Surr: 4-Bromofluorobenzene	52.36	0	50.00		105	70	130				
Surr: Dibromofluoromethane	57.08	0	50.00		114	70	130				
Surr: Toluene-d8	46.73	0	50.00		93.5	70	130				

Sample ID: **1610O41-026AMS** Client ID: **MW-20** Units: **ug/L** Prep Date: **11/02/2016** Run No: **329027**
SampleType: **MS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **232158** Analysis Date: **11/04/2016** Seq No: **7142389**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	29750	500	25000		119	66.5	133				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Analytical Environmental Services, Inc

Date: 9-Nov-16

Client: Crawford Environmental Services
Project Name: Clouds Chevron
Workorder: 1610O41

ANALYTICAL QC SUMMARY REPORT

BatchID: 232158

Sample ID: **1610O41-026AMS**	Client ID: **MW-20**			Units: **ug/L**		Prep Date: **11/02/2016**		Run No: **329027**	
SampleType: **MS**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**			BatchID: **232158**		Analysis Date: **11/04/2016**		Seq No: **7142389**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	24490	500	25000	450.0	96.2	70.1	132				
Ethylbenzene	29220	500	25000	1600	110	77.8	129				
Naphthalene	23570	2500	25000	935.0	90.5	50.2	134				
Toluene	31600	500	25000	6585	100	70.1	133				
Xylenes, Total	106000	500	75000	20050	115	74.7	133				
Surr: 4-Bromofluorobenzene	25740	0	25000		103	70	130				
Surr: Dibromofluoromethane	28430	0	25000		114	70	130				
Surr: Toluene-d8	23250	0	25000		93.0	70	130				

Sample ID: **1610O41-026AMS**	Client ID: **MW-20**			Units: **ug/L**		Prep Date: **11/02/2016**		Run No: **329027**	
SampleType: **MS**	TestCode: **Oxygenates SW8260B**			BatchID: **232158**		Analysis Date: **11/04/2016**		Seq No: **7142413**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
3,3-Dimethyl-1-butanol	223100	50000	250000		89.2	61.1	139				
Ethanol	194300	50000	250000		77.7	61.7	144				
Ethyl tert-butyl ether	45960	5000	50000		91.9	69.6	130				
Isopropyl ether	44190	5000	50000		88.4	70.1	134				
tert-Amyl alcohol	178600	50000	250000		71.4	66.5	145				
tert-Amyl methyl ether	47220	5000	50000		94.4	70.1	127				
tert-Butyl Alcohol	192600	50000	250000		77.0	70	149				
tert-Butyl formate	203600	50000	250000		81.4	41.5	139				

Sample ID: **1610O41-026AMSD**	Client ID: **MW-20**			Units: **ug/L**		Prep Date: **11/02/2016**		Run No: **329027**	
SampleType: **MSD**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**			BatchID: **232158**		Analysis Date: **11/04/2016**		Seq No: **7142391**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	29970	500	25000		120	66.5	133	29750	0.754	20	
Benzene	23920	500	25000	450.0	93.9	70.1	132	24490	2.35	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Crawford Environmental Services
Project Name: Clouds Chevron
Workorder: 1610O41

ANALYTICAL QC SUMMARY REPORT

BatchID: 232158

Sample ID: **1610O41-026AMSD** Client ID: **MW-20** Units: **ug/L** Prep Date: **11/02/2016** Run No: **329027**
SampleType: **MSD** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **232158** Analysis Date: **11/04/2016** Seq No: **7142391**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethylbenzene	28100	500	25000	1600	106	77.8	129	29220	3.89	20	
Naphthalene	23190	2500	25000	935.0	89.0	50.2	134	23570	1.63	32.5	
Toluene	31390	500	25000	6585	99.2	70.1	133	31600	0.667	20	
Xylenes, Total	102200	500	75000	20050	110	74.7	133	106000	3.66	22.7	
Surr: 4-Bromofluorobenzene	26190	0	25000		105	70	130	25740	0	0	
Surr: Dibromofluoromethane	28550	0	25000		114	70	130	28430	0	0	
Surr: Toluene-d8	23550	0	25000		94.2	70	130	23250	0	0	

Sample ID: **1610O41-026AMSD** Client ID: **MW-20** Units: **ug/L** Prep Date: **11/02/2016** Run No: **329027**
SampleType: **MSD** TestCode: **Oxygenates SW8260B** BatchID: **232158** Analysis Date: **11/04/2016** Seq No: **7142414**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
3,3-Dimethyl-1-butanol	272600	50000	250000		109	61.1	139	223100	20.0	24.9	
Ethanol	158700	50000	250000		63.5	61.7	144	194300	20.2	27.9	
Ethyl tert-butyl ether	47540	5000	50000		95.1	69.6	130	45960	3.38	20	
Isopropyl ether	44620	5000	50000		89.2	70.1	134	44190	0.968	20	
tert-Amyl alcohol	224400	50000	250000		89.8	66.5	145	178600	22.7	24.8	
tert-Amyl methyl ether	48890	5000	50000		97.8	70.1	127	47220	3.46	20	
tert-Butyl Alcohol	233000	50000	250000		93.2	70	149	192600	19.0	29.4	
tert-Butyl formate	219400	50000	250000		87.8	41.5	139	203600	7.49	21.6	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Crawford Environmental Services
Project Name: Clouds Chevron
Workorder: 1610O41

ANALYTICAL QC SUMMARY REPORT

BatchID: 232159

Sample ID: **MB-232159** Client ID: Units: **ug/L** Prep Date: **11/02/2016** Run No: **328857**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **232159** Analysis Date: **11/02/2016** Seq No: **7137220**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	BRL	1.0									
Benzene	BRL	1.0									
Ethylbenzene	BRL	1.0									
Methyl tert-butyl ether	BRL	1.0									
Naphthalene	BRL	5.0									
Toluene	BRL	1.0									
Xylenes, Total	BRL	1.0									
Surr: 4-Bromofluorobenzene	55.35	0	50.00		111	70	130				
Surr: Dibromofluoromethane	58.42	0	50.00		117	70	130				
Surr: Toluene-d8	48.29	0	50.00		96.6	70	130				

Sample ID: **MB-232159** Client ID: Units: **ug/L** Prep Date: **11/02/2016** Run No: **328857**
SampleType: **MBLK** TestCode: **Oxygenates SW8260B** BatchID: **232159** Analysis Date: **11/02/2016** Seq No: **7137321**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
3,3-Dimethyl-1-butanol	BRL	100									
Ethanol	BRL	100									
Ethyl tert-butyl ether	BRL	100									
Isopropyl ether	BRL	10									
tert-Amyl alcohol	BRL	100									
tert-Amyl methyl ether	BRL	10									
tert-Butyl Alcohol	BRL	100									
tert-Butyl formate	BRL	100									

Sample ID: **LCS-232159** Client ID: Units: **ug/L** Prep Date: **11/02/2016** Run No: **328938**
SampleType: **LCS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **232159** Analysis Date: **11/03/2016** Seq No: **7141912**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Analytical Environmental Services, Inc

Date: 9-Nov-16

Client: Crawford Environmental Services
Project Name: Clouds Chevron
Workorder: 1610O41

ANALYTICAL QC SUMMARY REPORT

BatchID: 232159

Sample ID: **LCS-232159**	Client ID:			Units: **ug/L**		Prep Date: **11/02/2016**		Run No: **328938**	
SampleType: **LCS**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**			BatchID: **232159**		Analysis Date: **11/03/2016**		Seq No: **7141912**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	50.79	1.0	50.00		102	70	130				
Benzene	42.68	1.0	50.00		85.4	70	130				
Ethylbenzene	48.47	1.0	50.00		96.9	70	130				
Naphthalene	46.01	5.0	50.00		92.0	70	130				
Toluene	44.58	1.0	50.00		89.2	70	130				
Xylenes, Total	151.7	1.0	150.0		101	70	130				
Surr: 4-Bromofluorobenzene	53.26	0	50.00		107	70	130				
Surr: Dibromofluoromethane	55.87	0	50.00		112	70	130				
Surr: Toluene-d8	48.57	0	50.00		97.1	70	130				

Sample ID: **LCS-232159**	Client ID:			Units: **ug/L**		Prep Date: **11/02/2016**		Run No: **328938**	
SampleType: **LCS**	TestCode: **Oxygenates SW8260B**			BatchID: **232159**		Analysis Date: **11/03/2016**		Seq No: **7141924**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
3,3-Dimethyl-1-butanol	635.8	100	500.0		127	70	130				
Ethanol	525.9	100	500.0		105	70	130				
Ethyl tert-butyl ether	96.66	10	100.0		96.7	70	130				
Isopropyl ether	89.80	10	100.0		89.8	70	130				
tert-Amyl alcohol	647.8	100	500.0		130	70	130				
tert-Amyl methyl ether	92.87	10	100.0		92.9	70	130				
tert-Butyl Alcohol	646.6	100	500.0		129	70	130				
tert-Butyl formate	457.3	100	500.0		91.5	70	130				

Sample ID: **1610O41-067AMS**	Client ID: **DUP-5**			Units: **ug/L**		Prep Date: **11/02/2016**		Run No: **328938**	
SampleType: **MS**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**			BatchID: **232159**		Analysis Date: **11/03/2016**		Seq No: **7141915**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	29440	500	25000		118	66.5	133				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Analytical Environmental Services, Inc

Date: 9-Nov-16

Client: Crawford Environmental Services
Project Name: Clouds Chevron
Workorder: 1610O41

ANALYTICAL QC SUMMARY REPORT

BatchID: 232159

Sample ID: **1610O41-067AMS**	Client ID: **DUP-5**				Units: **ug/L**		Prep Date: **11/02/2016**		Run No: **328938**	
SampleType: **MS**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**				BatchID: **232159**		Analysis Date: **11/03/2016**		Seq No: **7141915**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	26480	500	25000	2585	95.6	70.1	132				
Ethylbenzene	28460	500	25000	1315	109	77.8	129				
Naphthalene	22580	2500	25000	1215	85.4	50.2	134				
Toluene	44030	500	25000	19510	98.1	70.1	133				
Xylenes, Total	103500	500	75000	21450	109	74.7	133				
Surr: 4-Bromofluorobenzene	26680	0	25000		107	70	130				
Surr: Dibromofluoromethane	28770	0	25000		115	70	130				
Surr: Toluene-d8	23610	0	25000		94.4	70	130				

Sample ID: **1610O41-067AMS**	Client ID: **DUP-5**				Units: **ug/L**		Prep Date: **11/02/2016**		Run No: **328938**	
SampleType: **MS**	TestCode: **Oxygenates SW8260B**				BatchID: **232159**		Analysis Date: **11/03/2016**		Seq No: **7142124**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
3,3-Dimethyl-1-butanol	315200	50000	250000		126	61.1	139				
Ethanol	238600	50000	250000		95.5	61.7	144				
Ethyl tert-butyl ether	50790	5000	50000		102	69.6	130				
Isopropyl ether	47550	5000	50000		95.1	70.1	134				
tert-Amyl alcohol	342800	50000	250000		137	66.5	145				
tert-Amyl methyl ether	48480	5000	50000		97.0	70.1	127				
tert-Butyl Alcohol	264500	50000	250000		106	70	149				
tert-Butyl formate	236200	50000	250000		94.5	41.5	139				

Sample ID: **1610O41-067AMSD**	Client ID: **DUP-5**				Units: **ug/L**		Prep Date: **11/02/2016**		Run No: **328938**	
SampleType: **MSD**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**				BatchID: **232159**		Analysis Date: **11/03/2016**		Seq No: **7141916**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	29760	500	25000		119	66.5	133	29440	1.08	20	
Benzene	26880	500	25000	2585	97.2	70.1	132	26480	1.48	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Crawford Environmental Services
Project Name: Clouds Chevron
Workorder: 1610O41

ANALYTICAL QC SUMMARY REPORT

BatchID: 232159

Sample ID: **1610O41-067AMSD** Client ID: **DUP-5** Units: **ug/L** Prep Date: **11/02/2016** Run No: **328938**
SampleType: **MSD** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **232159** Analysis Date: **11/03/2016** Seq No: **7141916**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethylbenzene	28580	500	25000	1315	109	77.8	129	28460	0.421	20	
Naphthalene	25420	2500	25000	1215	96.8	50.2	134	22580	11.9	32.5	
Toluene	44320	500	25000	19510	99.3	70.1	133	44030	0.656	20	
Xylenes, Total	103100	500	75000	21450	109	74.7	133	103500	0.319	22.7	
Surr: 4-Bromofluorobenzene	25590	0	25000		102	70	130	26680	0	0	
Surr: Dibromofluoromethane	27350	0	25000		109	70	130	28770	0	0	
Surr: Toluene-d8	23350	0	25000		93.4	70	130	23610	0	0	

Sample ID: **1610O41-067AMSD** Client ID: **DUP-5** Units: **ug/L** Prep Date: **11/02/2016** Run No: **328938**
SampleType: **MSD** TestCode: **Oxygenates SW8260B** BatchID: **232159** Analysis Date: **11/03/2016** Seq No: **7142125**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
3,3-Dimethyl-1-butanol	305100	50000	250000		122	61.1	139	315200	3.25	24.9	
Ethanol	307400	50000	250000		123	61.7	144	238600	25.2	27.9	
Ethyl tert-butyl ether	49650	5000	50000		99.3	69.6	130	50790	2.27	20	
Isopropyl ether	47290	5000	50000		94.6	70.1	134	47550	0.548	20	
tert-Amyl alcohol	309900	50000	250000		124	66.5	145	342800	10.1	24.8	
tert-Amyl methyl ether	46960	5000	50000		93.9	70.1	127	48480	3.20	20	
tert-Butyl Alcohol	321300	50000	250000		129	70	149	264500	19.4	29.4	
tert-Butyl formate	232500	50000	250000		93.0	41.5	139	236200	1.58	21.6	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

APPENDIX D

Injection Well Installation Summary

CRAWFORD
ENVIRONMENTAL
SERVICES

August 24, 2016

Mr. Christopher A. Wargo
State of South Carolina
Department of Health and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

RE: Injection Well Installation Summary
Handy Pantry #65/University Mart & Cloud's Chevron
Intersection of Taylor Street and Two Notch Road
Columbia, South Carolina
UST Permit # 07584 / 07777 / 12352
UIC Permit: SCHE03020184M

Dear Mr. Wargo:

In accordance with Underground Injection Control Permit SCHE03020184M, CES installed four injection wells at the subject site between July 26, 2016 and July 27, 2016. CES has included the following documents pertaining to the injection well installation:
Appendix A – Injection Well Location Map
Appendix B – Executed SCDHEC 1903 Forms
Appendix C – Well Development Logs / Manifests
Appendix D – Photo-Documentation of the Completed Injection Wells

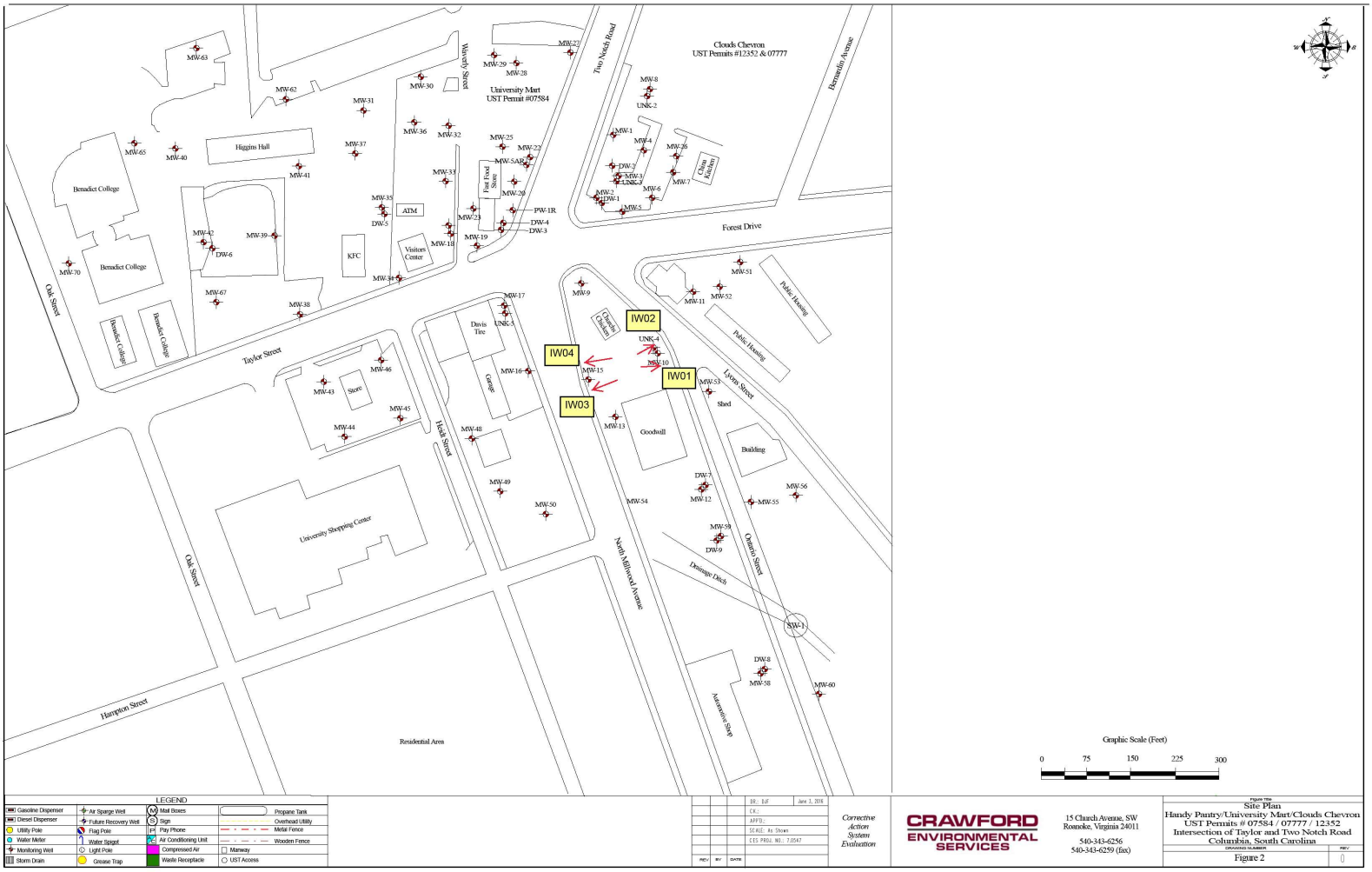
Should you have any comments or questions please feel free to contact me at 540.798.5068. Thank you.

Best Regards,

Daniel J. Fisher
Division Manager

Appendix A

Injection Well Location Map



LEGEND

Gasoline Dispenser	Air Sparge Well	Mail Boxes	Propane Tank
Diesel Dispenser	Future Recovery Well	Sign	Overhead Utility
Utility Pole	Flag Pole	Pay Phone	Metal Fence
Water Meter	Water Spigot	Air Conditioning Unit	Wooden Fence
Monitoring Well	Light Pole	Compressed Air	Manway
Storm Drain	Grease Trap	Waste Receptacle	UST Access

REV.	BY	DATE

DR.: BJF June 3, 2016
CK.:
APP'D.:
SCALE: As Shown
CES PROJ. NO.: 7.0547

Corrective Action System Evaluation

CRAWFORD ENVIRONMENTAL SERVICES

15 Church Avenue, SW
Roanoke, Virginia 24011
540-343-6256
540-343-6259 (fax)

Figure Title
Site Plan
Handy Pantry/University Mart/Clouds Chevron
UST Permits # 07584 / 07777 / 12352
Intersection of Taylor and Two Notch Road
Columbia, South Carolina

DRAWING NUMBER
Figure 2

REV.
0

Appendix B

Executed SCDHEC 1903 Forms

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: SCDHEC
(last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip:
Phone:

2. LOCATION OF WELL: COUNTY: Lexington
Name: Clouds Chevron Et Al
Address: Intersection of Taylors Street & Two Notch Road
City: Columbia, South Carolina

3. PUBLIC SYSTEM NAME: IW01

4. ABANDONMENT:
Grouted Depth: from to ft.

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum	
Grass/topsoil/fill	0.5	0	0.5
Blackish red (5R 2/2), dry, clayey, silty, m/c sand. PID = 0.4 ppm	4.5	0.5	5
Moderate reddish orange (10R 6/6), dry to slightly moist, clayey, silty, f/m sand. Slight petroleum odor noted. PID = 1.8 ppm	5	5	10
Pale yellowish orange (10YR 8/6), slightly moist to moist, clayey, f/m sand. Slight petroleum odor noted. PID = 4.8 ppm	5	10	15
Grayish orange (5Y 8/4), moist to wet, m/c sand. Slight to moderate petroleum odor noted. PID = 9.4 ppm	5	15	20

5. REMARKS:
Bentonite Seal 5-8 feet BGS

6. TYPE: Mud Rotary Jetted Bored
Dug Air Rotary Driven
Cable tool (Auger) Other

7. PERMIT NUMBER: Site ID 07584/07777/12352

8. USE:
Residential Public Supply Process
Irrigation Air Conditioning Emergency
Test Well (Monitor Well) Replacement

9. WELL DEPTH (completed)
20.00 ft. Date Started: 7/26/2016
Date Completed: 7/27/2016

10. CASING: (Threaded) Welded
Diameter: 4"
Type: PVC
4.0 in. to 10.00 ft. depth
in. to ft. depth
Height: Below
Surface: ft. Weight: lb./ft.
Drive Shoe:

11. SCREEN:
Type: PVC Diameter: 4"
Slot/Gauge: 0.010" Length: 10'
Set Between: 10.00 ft. and 20.00 ft.
ft. and ft.
Sieve Analysis: Y/N

12. STATIC WATER LEVEL 14.00 ft. below land surface after 24 hours.

13. PUMPING LEVEL Below Land Surface.
ft. after hrs Pumping GPM
Pumping Test:
Yield:

14. WATER QUALITY
Chemical Analysis: Bacterial Analysis:

15. ARTIFICIAL FILTER (filter pack) #2 - Sand
Installed from: 8.0 ft. to 20.0
Effective Size: Uniformity Coefficient:

16. WELL GROUTED?
Neat Cement Bentonite (Bentonite/Cement) Other
Depth: From 0.0 ft. to 5.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type:
Well Disinfected: Type: Amount:

18. PUMP: Date installed:
Mfr. Name: Model no.:
H.P.: Volts: Length of pipe: ft.
Capacity: gpm
TYPE:
Submersible Jet (shallow) Turbine
Jet (deep) Reciprocating Centrifugal

19. WELL DRILLER: Michael Carey **CERT NO.: 1920**
Address: Petra-Tech Environmental Level: A B C (D)
2435 East North St, Ste 1108-202 (circle one)
Greenville, SC 29615
Telephone: 864.631.2490 Fax:

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed:
Date: 7/27/16

If D Level Driller, provide supervising driller's name.
Robyn Barkley 934-A

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: SCDHEC
(last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip:
Phone:

2. LOCATION OF WELL: COUNTY: Lexington
Name: Clouds Chevron Et Al
Address: Intersection of Taylors Street & Two Notch Road
City: Columbia, South Carolina

3. PUBLIC SYSTEM NAME: IW02

4. ABANDONMENT:
Grouted Depth: from to ft.

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum	
Asphalt	0.5	0	0.5
Very dusky red (10R 2/2), dry, silty, f/m sand. PID = 0.2 ppm	4.5	0.5	5
Grayish orange (10YR 7/4), slightly moist, clayey, silty, f/m sand. Slight petroleum odor noted. PID = 0.7 ppm	5	5	10
Moderate yellowish brown (10YR 5/4), slightly moist to moist, clayey, silty, f/m sand. Moderate to strong petroleum odor noted. PID = 8.3 ppm	5	10	15
Dark yellowishj orange (10YR 6/6), moist to wet, slightly clayey, m/c sand. Strong petroleum odor noted. PID = 25.3 ppm	5	15	20

5. REMARKS:
Bentonite Seal 5-8 feet BGS

6. TYPE: Mud Rotary Jetted Bored
Dug Air Rotary Driven
Cable tool (Auger) Other

7. PERMIT NUMBER: Site ID 07584/07777/12352

8. USE:
Residential Public Supply Process
Irrigation Air Conditioning Emergency
Test Well (Monitor Well) Replacement

9. WELL DEPTH (completed)
20.00 ft.
Date Started: 7/26/2016
Date Completed: 7/27/2016

10. CASING: (Threaded) Welded
Diameter: 4"
Type: PVC
4.0 in. to 10.00 ft. depth
in. to ft. depth
Height: Below
Surface: ft. Weight: lb./ft.
Drive Shoe:

11. SCREEN:
Type: PVC Diameter: 4"
Slot/Gauge: 0.010" Length: 10'
Set Between: 10.00 ft. and 20.00 ft.
ft. and ft.
Sieve Analysis: Y/N

12. STATIC WATER LEVEL 14.00 ft. below land surface after 24 hours.

13. PUMPING LEVEL Below Land Surface.
ft. after hrs Pumping GPM
Pumping Test:
Yield:

14. WATER QUALITY
Chemical Analysis: Bacterial Analysis:

15. ARTIFICIAL FILTER (filter pack) #2 - Sand
Installed from: 8.0 ft. to 20.0
Effective Size: Uniformity Coefficient:

16. WELL GROUTED?
Neat Cement Bentonite (Bentonite/Cement) Other
Depth: From 0.0 ft. to 5.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type:
Well Disinfected: Type: Amount:

18. PUMP: Date installed:
Mfr. Name: Model no.:
H.P.: Volts: Length of pipe: ft.
Capacity: gpm
TYPE:
Submersible Jet (shallow) Turbine
Jet (deep) Reciprocating Centrifugal

19. WELL DRILLER: Michael Carey **CERT NO.: 1920**
Address: Petra-Tech Environmental Level: A B C (D)
2435 East North St, Ste 1108-202 (circle one)
Greenville, SC 29615
Telephone: 864.631.2490 Fax:

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed:
Date: 7/27/16

If D Level Driller, provide supervising driller's name.
Robyn Barkley 934-A

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: SCDHEC
(last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip:
Phone:

2. LOCATION OF WELL: COUNTY: Lexington
Name: Clouds Chevron Et Al
Address: Intersection of Taylors Street & Two Notch Road
City: Columbia, South Carolina

3. PUBLIC SYSTEM NAME: IW03

4. ABANDONMENT:
Grouted Depth: from to ft.

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum	
Mulch/Grass/topsoil/fill	0.5	0	0.5
Grayish brown (5Y 3/2), dry, silty, f/m sand. PID = 0.5 ppm	4.5	0.5	5
Moderate brown (5YR 4/4), slightly moist, silty, f/m sand. Slight petroleum odor noted. PID = 2.5 ppm	5	5	10
Moderate reddish brown (10R 4/6), moist, silty, clayey, f/m sand. Moderate petroleum odor noted. PID = 8.1 ppm	5	10	15
Moderate reddish brown (10R 4/6), wet, clayey, silty, f/m and. Moderate petroleum odor noted. PID = 7.6 ppm	5	15	20

5. REMARKS:
Bentonite Seal 5-8 feet BGS

6. TYPE: Mud Rotary Jetted Bored
Dug Air Rotary Driven
Cable tool (Auger) Other

7. PERMIT NUMBER: Site ID 07584/07777/12352

8. USE:
Residential Public Supply Process
Irrigation Air Conditioning Emergency
Test Well (Monitor Well) Replacement

9. WELL DEPTH (completed)
20.00 ft. Date Started: 7/26/2016
Date Completed: 7/27/2016

10. CASING: (Threaded) Welded
Diameter: 4"
Type: PVC
4.0 in. to 10.00 ft. depth
in. to ft. depth
Height: Below
Surface: ft. Weight: lb./ft.
Drive Shoe:

11. SCREEN:
Type: PVC Diameter: 4"
Slot/Gauge: 0.010" Length: 10'
Set Between: 10.00 ft. and 20.00 ft.
ft. and ft.
Sieve Analysis: Y/N

12. STATIC WATER LEVEL 14.00 ft. below land surface after 24 hours.

13. PUMPING LEVEL Below Land Surface.
ft. after hrs Pumping GPM
Pumping Test:
Yield:

14. WATER QUALITY
Chemical Analysis: Bacterial Analysis:

15. ARTIFICIAL FILTER (filter pack) #2 - Sand
Installed from: 8.0 ft. to 20.0
Effective Size: Uniformity Coefficient:

16. WELL GROUTED?
Neat Cement Bentonite (Bentonite/Cement) Other
Depth: From 0.0 ft. to 5.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type:
Well Disinfected: Type: Amount:

18. PUMP: Date installed:
Mfr. Name: Model no.:
H.P.: Volts: Length of pipe: ft.
Capacity: gpm
TYPE:
Submersible Jet (shallow) Turbine
Jet (deep) Reciprocating Centrifugal

19. WELL DRILLER: Michael Carey **CERT NO.: 1920**
Address: Petra-Tech Environmental Level: A B C (D)
2435 East North St, Ste 1108-202 (circle one)
Greenville, SC 29615
Telephone: 864.631.2490 Fax:

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed:
Date: 7/27/16

If D Level Driller, provide supervising driller's name.
Robyn Barkley 934-A

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: SCDHEC
(last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip:
Phone:

2. LOCATION OF WELL: COUNTY: Lexington
Name: Clouds Chevron Et Al
Address: Intersection of Taylors Street & Two Notch Road
City: Columbia, South Carolina

3. PUBLIC SYSTEM NAME: IW04

4. ABANDONMENT:
Grouted Depth: from to ft.

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum	
Asphalt	0.5	0	0.5
Moderate reddish orange (10R 6/6), dry, clayey, silty, f/m sand. PID = 0.0 ppm	4.5	0.5	5
Moderate brown (5YR 3/4), slightly moist, slightly clayey, silty, f/m sand. Slight petroleum odor noted. PID = 1.5 ppm	5	5	10
Moderate reddish brown (10R 4/6), moist, silty, clayey, f/m sand. Moderate to stonrg petroleum odor noted. PID = 9.8 ppm	5	10	15
Moderate reddish brown (10R 4/6), wet, silty, clayey, m/c sand. Strong petroleum odor noted. PID = 18.4 ppm	5	15	20

5. REMARKS:
Bentonite Seal 5-8 feet BGS

6. TYPE: Mud Rotary Jetted Bored
Dug Air Rotary Driven
Cable tool (Auger) Other

7. PERMIT NUMBER: Site ID 07584/07777/12352

8. USE:
Residential Public Supply Process
Irrigation Air Conditioning Emergency
Test Well (Monitor Well) Replacement

9. WELL DEPTH (completed)
20.00 ft. Date Started: 7/26/2016
Date Completed: 7/27/2016

10. CASING: (Threaded) Welded
Diameter: 4"
Type: PVC
4.0 in. to 10.00 ft. depth
in. to ft. depth
Height: Below
Surface: ft. Weight: lb./ft.
Drive Shoe:

11. SCREEN:
Type: PVC Diameter: 4"
Slot/Gauge: 0.010" Length: 10'
Set Between: 10.00 ft. and 20.00 ft.
ft. and ft.
Sieve Analysis: Y/N

12. STATIC WATER LEVEL 14.00 ft. below land surface after 24 hours.

13. PUMPING LEVEL Below Land Surface.
ft. after hrs Pumping GPM
Pumping Test:
Yield:

14. WATER QUALITY
Chemical Analysis: Bacterial Analysis:

15. ARTIFICIAL FILTER (filter pack) #2 - Sand
Installed from: 8.0 ft. to 20.0
Effective Size: Uniformity Coefficient:

16. WELL GROUTED?
Neat Cement Bentonite (Bentonite/Cement) Other
Depth: From 0.0 ft. to 5.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type:
Well Disinfected: Type: Amount:

18. PUMP: Date installed:
Mfr. Name: Model no.:
H.P.: Volts: Length of pipe: ft.
Capacity: gpm
TYPE:
Submersible Jet (shallow) Turbine
Jet (deep) Reciprocating Centrifugal

19. WELL DRILLER: Michael Carey **CERT NO.: 1920**
Address: Petra-Tech Environmental Level: A B C (D)
2435 East North St, Ste 1108-202 (circle one)
Greenville, SC 29615
Telephone: 864.631.2490 Fax:

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed:
Date: 7/27/16

If D Level Driller, provide supervising driller's name.
Robyn Barkley 934-A

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

Appendix C

Well Development Logs / Manifests

D H E C
PROMOTE PROTECT PROSPER

Well Development Data Verfication Form
Underground Storage Tank Management Division

Facility Name: Clouds Chevron et al. Site ID#: 07584/07771/12352

Date: 8/1/16 Field Personnel: T. Slack/M. Caray/R. Barkley/D. Smith/Ryan M,

Drilling Company: Petra-Tech Env. Driller's Name: R. Barkley / M. Caray

Driller's Certification Number: 934-A / 1920D Weather Conditions: cldy / Hot

Well Development Method

Surge Block [X] Submersible Pump [X] Air Lifting [ ]

* Bailing can be combined with any of the above methods, but not utilized alone for development.

Quality Assurance

pH meter serial no. 2435570
pH=4.0 ✓
pH=7.0
pH=10.0

Conductivity meter serial no. 2413677
standard 1413

Temperature meter serial no. 2413677

Turbidity meter serial no. AG3883
NTU=0.0 ✓
NTU=1.0
NTU=10.0 ✓

Drilling Method

Hollow Stem Augers [X] Solid Flight Augers [ ] Direct Push [ ]

Air Rotary [ ] Mud Rotary [ ] Sonic [ ]

Monitoring Well ID# IW-1 Well Casing Diameter 4 inches Borehole Diameter 8.25 inches

Depth to Ground Water (DGW) 15.09 ft. BTOC Screen Length/Slot Size 10 ft./ .01 in.

Total Well Depth (TWD) 20.00 ft. BTOC Screen Interval 10 ft. to 20 ft.

Length of water column (LWC=TWD-DGW) 4.91 ft. Type of Drilling Fluids used: N/A

Total Gallons of Water Removed: 30 gals. Drilling Fluids recovered N/A gals.

Time (military)	1300	1320	1330	1340	1350		
pH (s.u.)*	6.87	6.26	6.17	6.20	6.19		
Specific Conductivity (mmhos/cm)*	340	290	310	300	300		
Water Temperature °F	89.8	84.1	83.9	83.8	83.9		
Turbidity (NTU) *	>1000	62	[illegible]53	33.5	9.8		
Physical Characteristics (color/odor)	strong	strong	Str	Str	Slight		
Water Level Measurement (ft) from TOC	-	-	-	-	-		
Total Well Depth (ft) from TOC	-	-	-	-	-		
Cumulative Gallons Removed	0 gals	15 gals	20 gals	25 gals	30 gals	gals	gals

* Development is completed once groundwater turbidity is ≤ 10 NTU and all parameters are ± 10%.

Detailed description of Well Development process: Surged w/ surge block equipped with check valve allowing recovery of water/sediment through attached tubing. Followed by overpumping.

Driller Signature: Date: 8/1/16

DHEC 2099 (04/2015) SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

7/24/16 Bent 5-8 Sand 8-20 Grout 0-5

D H E C
PROMOTE PROTECT PROSPER

Well Development Data Verfication Form
Underground Storage Tank Management Division

Facility Name: Clonds Chevron et. al. Site ID#: 07584/07777/12352

Date: 8/1/16 Field Personnel: T. Slack / M. Carey / R. Barkley / D. Brock Rymer

Drilling Company: Petra-Tech Env. Driller's Name: R. Barkley / M. Carey

Driller's Certification Number: 934-A / 1920 D Weather Conditions: day / Hot

Well Development Method

Surge Block Ø Submersible Pump ⊗ Air Lifting ○

* Bailing can be combined with any of the above methods, but not utilized alone for development.

Quality Assurance

pH meter	Conductivity meter	Temperature meter	Turbidity meter
serial no. 2435570	serial no. 2413677	serial no. 2413677	serial no. A631883
pH=4.0 ✓	standard 1413		NTU=0.0
pH=7.0			NTU=1.0
pH=10.0			NTU=10.0 ✓

Drilling Method

Hollow Stem Augers ⊗ Solid Flight Augers ○ Direct Push ○

Air Rotary ○ Mud Rotary ○ Sonic ○

Monitoring Well ID# IW-2 Well Casing Diameter 4 inches Borehole Diameter 8.25 inches

Depth to Ground Water (DGW) 15.70 ft. BTOC Screen Length/Slot Size 10 ft./ .01 in.

Total Well Depth (TWD) 20.06 ft. BTOC Screen Interval 10 ft. to 20 ft.

Length of water column (LWC=TWD-DGW) 4.36 ft. Type of Drilling Fluids used: N/A

Total Gallons of Water Removed: 25 gals. Drilling Fluids recovered N/A gals.

Time (military)	1415	1425	1430	1440	1455		
pH (s.u.)*	5.80	5.91	5.92	5.92	5.92		
Specific Conductivity (mmhos/cm)*	450	390	380	380	370		
Water Temperature (°C)* °F	87.0	85.2	84.2	85.1	82.7		
Turbidity (NTU) *	+1000	204	62	47	9.68		
Physical Characteristics (color/odor)	Strong	Strong	Strong	Strong	Str		
Water Level Measurement (ft) from TOC	—	—	—	—	—		
Total Well Depth (ft) from TOC	—	—	—	—	—		
Cumulative Gallons Removed	0 gals	10 gals	15 gals	20 gals	25 gals	gals	gals

* Development is completed once groundwater turbidity is ≤ 10 NTU and all parameters are ± 10%.

Detailed description of Well Development process: Surged w/ surge blocks equipped with check valve allowing recovery of water / sediment through attached tubing. Followed by overpumping.

Driller Signature: [signature] Date: 8/1/16

7-26-16 Bent 5-8 Sand 8-20 Grout 0-5

D H E C
PROMOTE PROTECT PROSPER

Well Development Data Verfication Form
Underground Storage Tank Management Division

Facility Name: Clouds Chevron etal. Site ID#: 07584/07777/12352

Date: 8/1/16 Field Personnel: T. Slack / M. Carey / R. Burtly / D. Burtly / Ryan M1

Drilling Company: Petra-Tech Env. Driller's Name: R. Bartley / M. Carey

Driller's Certification Number: 934-A/1920D Weather Conditions: day / Hot

Well Development Method

Surge Block ⊘ Submersible Pump ⊘ Air Lifting ○

* Bailing can be combined with any of the above methods, but not utilized alone for development.

Quality Assurance

pH meter	Conductivity meter	Temperature meter	Turbidity meter
serial no. 2435570	serial no. 2413677	serial no. 2413677	serial no. A631883
pH=4.0 ✓	standard ✓		NTU=0.0 ✓
pH=7.0			NTU=1.0
pH=10.0			NTU=10.0 ✓

Drilling Method

Hollow Stem Augers ⊘ Solid Flight Augers ○ Direct Push ○

Air Rotary ○ Mud Rotary ○ Sonic ○

Monitoring Well ID# IW-3 Well Casing Diameter 4 inches Borehole Diameter 8.25 inches

Depth to Ground Water (DGW) 15.59 ft. BTOC Screen Length/Slot Size 10 ft./ .01 in.

Total Well Depth (TWD) 19.71 ft. BTOC Screen Interval 10 ft. to 20 ft.

Length of water column (LWC=TWD-DGW) 4.12 ft. Type of Drilling Fluids used: N/A

Total Gallons of Water Removed: 30 gals. Drilling Fluids recovered N/A, gals.

Time (military)	1510	1525	1535	1550	1600	1610	
pH (s.u.)*	6.31	6.4	6.38	6.4	6.41	6.39	
Specific Conductivity (mmhos/cm)*	480	520	540	538	544	540	
Water Temperature (C)*	89.6	80.8	82.2	81.8	82.0	82.1	
Turbidity (NTU) *	+1000	320	192	63	39	9.4	
Physical Characteristics (~~color~~/odor)	Strong	Strong	Strong	Strong	Strong	Strong	
Water Level Measurement (ft) from TOC	—	—	—	—	—	—	
Total Well Depth (ft) from TOC	—	—	—	—	—	—	
Cumulative Gallons Removed	5 gals	10 gals	15 gals	20 gals	25 gals	30 gals	gals

* Development is completed once groundwater turbidity is ≤ 10 NTU and all parameters are ± 10%.

Detailed description of Well Development process: Surged w/ surge block equipped with check valve allowing recovery of water/sediment through tubing. Followed by overpumping.

Driller Signature: Date: 8/1/16

7-26-16 Ben 5-8 Sand 8-20 Grout 0-5

Well Development Data Verfication Form
Underground Storage Tank Management Division

Facility Name: Clonds Chevron et al Site ID#: 07584/07777/12352

Date: 8/1/16 Field Personnel: T. Slack/R. Barkley/M. Carey/D. Bush/Ryan M.

Drilling Company: Petra-Tech Env. Driller's Name: R. Backly/M. Carey

Driller's Certification Number: 934-A/1920D Weather Conditions: day/Hot

Well Development Method

Surge Block Ø Submersible Pump Ø Air Lifting ○

* Bailing can be combined with any of the above methods, but not utilized alone for development.

Quality Assurance

pH meter	Conductivity meter	Temperature meter	Turbidity meter
serial no. 2435570	serial no. 2413677	serial no. 24/3677	serial no. A631883
pH=4.0 V	standard √		NTU=0.0 V
pH=7.0			NTU=1.0
pH=10.0			NTU=10.0 V

Drilling Method

Hollow Stem Augers Ø Solid Flight Augers ○ Direct Push ○

Air Rotary ○ Mud Rotary ○ Sonic ○

Monitoring Well ID# IW-4 Well Casing Diameter 4 inches Borehole Diameter 8.25 inches

Depth to Ground Water (DGW) 15.79 ft. BTOC Screen Length/Slot Size 10 ft./.01 in.

Total Well Depth (TWD) 19.58 ft. BTOC Screen Interval 10 ft. to 20 ft.

Length of water column (LWC=TWD-DGW) 3.79 ft. Type of Drilling Fluids used: N/A

Total Gallons of Water Removed: 20 gals. Drilling Fluids recovered N/A gals.

Time (military)	1615	1625	1635	1650	1705		
pH (s.u.)*	6.26	6.18	6.05	5.99	5.98		
Specific Conductivity (mmhos/cm)*	390	344	295	297	295		
Water Temperature °F	88.9	85.6	84.2	84.0	83.9		
Turbidity (NTU) *	1000+	154	60.	35.44	9.23		
Physical Characteristics (color/odor)	Str	Str	Str	Str	Str		
Water Level Measurement (ft) from TOC	—	—	—	—	—		
Total Well Depth (ft) from TOC	—	—	—	—	—		
Cumulative Gallons Removed	0 gals	5 gals	10 gals	15 gals	20 gals	gals	gals

* Development is completed once groundwater turbidity is ≤ 10 NTU and all parameters are ± 10%.

Detailed description of Well Development process: Surged w/ surge block equipped with check valve allowing recovery of water/sediment through attached tubing. Followed by overpumping

Driller Signature: Date: 8/1/16

7-26-16 Ben 5-8 Sand 8-20 Grout 0-5

VLS recovery services, llc

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

2. Page 1 of

3. Emergency Response Phone

4. Waste Tracking Number WTN 020489

GENERATOR

5. Generator's Name and Mailing Address

PETRA - TECH ENVIRONMENTAL
2435 E NORTH STREET, SUITE 1106-202
GREENVILLE, SC 29615

Generator's Phone: 803-606-2944

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

2600 Bull St SCDHEC
Columbia, SC

6. Transporter 1 Company Name

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

Facility's Phone: 864-962-9953

U.S. EPA ID Number SCR000762468

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON HAZ NON REGULATED WELL WATER #16374	1	PVC TANK	500	gal	
2.	Clouds Chevron dev. water ~105 gallons. Clouds Chevron misc decon water ~10 gallons.					
3.	UST #07584/07777/12352					
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: Ryan McCormack | Signature: Ryan McCormack | Month: 8 | Day: 2 | Year: 16

INT'L

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

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Ryan McCormack | Signature: Ryan McCormack | Month: 8 | Day: 2 | Year: 16

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

17. Discrepancy

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

Manifest Reference Number:

17b. Alternate Facility (or Generator) U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Lane Whitmire | Signature | Month: 8 | Day: 2 | Year: 16

Appendix D

Photo-Documentation

PHOTO-DOCUMENTATION

Client: SCDHEC **Project Name:** Injection Well Installation

Site Name: Clouds Chevron **Site Location:** Columbia, South Carolina

Photographer:
William Ewing

Date:
2 August 2016

Comments:
IW-01



Photographer:
William Ewing

Date:
2 August 2016

Comments:
IW-03



PHOTO-DOCUMENTATION

Client: SCDHEC **Project Name:** Injection Well Installation

Site Name: Clouds Chevron **Site Location:** Columbia, South Carolina

Photographer:
William Ewing

Date:
2 August 2016

Comments:
IW-03 & IW-04



Photographer:
William Ewing

Date:
2 August 2016

Comments:
IW-01 & IW-02



APPENDIX E

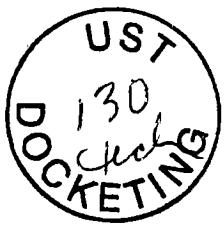
Data Verification Checklist

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

UST Programmatic QAPP Contractor Checklist				
26	Does the report include a brief discussion of the aquifer evaluation and the results?	Yes		
27	Does the report include a brief discussion of the fate & transport models used?			n/a
28	Are the site-conceptual tables included (Tier 1 risk evaluation)			n/a
29	Have the exposure pathways been analyzed (Tier 2 risk evauluation)			n/a
30	Have the SSTLs for each compound and pathway been calculated? (Tier 2 risk evaluation)	Yes		
31	Have recommendations for further action been provided and explained?			n/a
32	Has the soil analytical data for the site been provided in tabular format? (Table 5)			n/a
33	Has the potentiometric data for the site been provided in tabular format?	Yes		
34	Has the current and historical laboratory data been provided in tabular format	Yes		
35	Have the aquifer characteristics been provided and summarized on the appropriate form?			n/a
36	Have the Site conceptual model tables been included (Tier 1 risk evaluation)			n/a
37	Has the topographic map been provided with all the required elements?	Yes		
38	Has the site base map been provided with all the required elements?	Yes		
39	Have the CoC maps been provided?	Yes		
40	Have the potentiometric maps been provided?	Yes		
41	Have the geologic cross-sections been provided			n/a
42	Have maps showing the predicted migration of the CoCs through time been provided?			n/a
43	Has the site survey been provided and include all necessary elements? (Appendix A)			n/a
44	Have the sampling logs, chain of custody forms and analytical data package been included with all elements? (Appendix B)	Yes		
45	Is the laboratory performing the analyses properly certified? (Appendix B)	Yes		
46	Has the tax map been included with all necessary elements? (Appendix C)			n/a
47	Have the soil/boring field screening logs been provided? (Appendix D)			n/a
48	Have the well completion logs been provided? (Appendix E)			n/a
49	Have the aquifer evaluation forms,data, graphs, equations,etc. been provided? (Appendix F)			n/a
50	Have the disposal manifests been provided? (Appendix G)	Yes		
51	Has a copy of the local zoning regulations been provided? (Appendix H)			n/a

UST Programmatic QAPP Contractor Checklist				
52	Has all fate and transport modeling been provided? (Appendix I)			n/a
53	Have copies of all access agreements obtained by the contractor been provided? (Appendix J)			n/a
54	Has a copy of this form been attached to the final report and are explainations for any missing or incomplete data been provided?	Yes		
Comments:				

dhec
Healthy People Healthy Communities



JAN 0 4 2017

MR CHARLES F CRAWFORD III
CRAWFORD ENVIRONMENTAL SERVICES
15 CHURCH AVENUE SW
ROANOKE VA 24011

Re: **Corrective Action System Evaluation (CASE) Report Review**
UST Permit# 07584, University Mart, 2367 Taylor St., Columbia, SC
Release #1 reported January 30, 1991; CA# 47811
Release #2 reported April 17, 1998; CA# 47812
UST Permit # 07777, Clouds Chevron, 1600 Two Notch Rd., Columbia, SC
Release reported December 31, 1991; CA# 47813
UST Permit # 12352, Clouds Chevron, 1600 Two Notch Rd., Columbia, SC
Release reported December 30, 1991; CA# 47814
Contract #IFB-5400007095-1/30/2014-EMW; PO# 4600322226
CASE report received November 23, 2016
Richland County

Dear Mr. Crawford:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed the CASE report documenting the corrective action activities and the May 2016 groundwater sampling event. DHEC has noted a 75.62% reduction.

The semi-annual CASE 6 report is due on or before **June 15, 2017.**

On all correspondence regarding this site, please reference UST Permit #07584, #07777, & #12352. If you have any questions regarding this correspondence, please contact me by telephone at (803) 898-0634, by fax at (803) 898-0673, or by e-mail at kuhnkm@dhec.sc.gov.

Sincerely,

Kimberly M. Kuhn, Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

cc: Sylvan Food Systems, Inc., 1245 Boston Ave, West Columbia, SC 29170
Gilbert Walker, Public Housing Authority, Gonzales Gardens, P.O. Box 4307, Columbia, SC 29240
1500 Millwood Ave, LLC, 1330 Devonshire Drive, Columbia, SC 29204
John M. Suddeth, 1410 N Millwood Ave, Columbia, SC 29204
Fung Lau, 2300 Taylor St, Suite D, Columbia, SC 29204
Technical File

Document Receipt Information

☐ Hard Copy ☒ CD ☐ Email

Date Received 9.12.2017

Permit Number 07584 - 07777 - 12352

Project Manager Kim Kuhn

Name of Contractor Crawford Env. Services

UST Certification Number CASE Report

Docket Number 261T, 196T, 131T

Scanned _____

07584 - 261 Tech

07777 - 196 Tech

12352 - 131 Tech

CRAWFORD ENVIRONMENTAL SERVICES

August 31, 2017

Ms. Kimberly Kuhn
Corrective Action Section
UST Management Division
Bureau of Land and Waste Management
South Carolina Department of Health and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

RE: Corrective Action System Evaluation – June 2017 (Sampling Date)
Handy Pantry #65/University Mart & Cloud's Chevron
Intersection of Taylor Street and Two Notch Road
Columbia, South Carolina
UST Permit # 07584 / 07777 / 12352

Dear Ms. Kuhn:

Enclosed please find one copy of the June 2017 Corrective Action System Evaluation (CASE) report prepared by Crawford Environmental Services, Inc. (CES) for the referenced site. Should you have any questions regarding the enclosed material, or if additional information is required, please feel free to contact Charlie Crawford or myself at 540.343.6256.

Best Regards,

Daniel Fisher
Division Manager

cc:

CRAWFORD ENVIRONMENTAL SERVICES

Corrective Action System Evaluation Report
June 2017
Handy Pantry #65/University Mart & Cloud's Chevron
Intersection of Taylor Street and Two Notch Road
Columbia, South Carolina
UST Permit # 07584 / 07777 / 12352
August 31, 2017
Revision 0

CORRECTIVE ACTION SYSTEM EVALUATION REPORT

Handy Pantry #65/University Mart & Cloud's Chevron
Intersection of Taylor Street and Two Notch Road
Columbia, South Carolina
York County
UST Permit #: 07584/07777/12352
CES Job #: 7.0547

PREPARED BY:
Crawford Environmental Services, Inc.
1701 Shenandoah Avenue, NW
Roanoke, Virginia 24017
Phone: 540-343-6256; Fax: 540-343-6259
dfisher@crawfordenvironmental.com

PREPARED FOR:
South Carolina Department of Health & Environmental Control
Ms. Kimberly Kuhn
South Carolina Department of Health and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

SUBMITTED TO:
South Carolina Department of Health & Environmental Control
Ms. Kimberly Kuhn
South Carolina Department of Health and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

CRAWFORD ENVIRONMENTAL SERVICES

Title: *Corrective Action System Evaluation Report, Handy Pantry/University Mart and Cloud's Chevron, Site (Site No. 07584/07777/12352), Columbia, South Carolina, June 2017.*

Written By:

Daniel J. Fisher
Senior Project Manager/Technical Reviewer

29 August 2017
Date Reviewed

Reviewed By:

B. Thomas Houghton, P.G.
Senior Project Geologist/Technical Reviewer
Registered South Carolina P.G. No. 2343

30 August 2017
Date Reviewed

Approved By:

Charles F. Crawford
President/Chief Executive Officer, Technical Reviewer

31 August 2017
Date Reviewed

CRAWFORD ENVIRONMENTAL SERVICES

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Figure 3: Groundwater Chemicals of Concern
Figure 4: Groundwater Elevation Data Map

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Appendix A: Groundwater Laboratory Analytical Report & Chain-of-Custody Documentation
Appendix B: Groundwater Sampling Data Sheets
Appendix C: Purge Water Disposal Manifest
Appendix D: QAPP Addendum Contractor Checklist

1.0 Project Information

1.1 Introduction

Crawford Environmental Services Inc., (CES) has completed a Corrective Action System Evaluation (CASE) report for the Handy Pantry #65/University Mart and former Cloud's Chevron site. The report describes assessment activities conducted at the site in general accordance with the scope of work as defined in the QAPP Addendum Approval, dated March 20, 2014. The subject property is in a primarily commercial area of Columbia, South Carolina (*Figure 1*). The subject sites, operating as Handy Pantry #65/University Mart and former Cloud's Chevron, is bordered by light commercial properties in all directions. A site plan depicting pertinent features of the subject property is provided as *Figure 2*.

1.2 Facility Information

1.2.1 Site Address

Handy Pantry #65 / University Mart / Clouds Chevron
2367 Taylor Street
Columbia, South Carolina

1.2.2 Property Owner Information

Mr. Mahesh Patel
2367 Taylor Street
Columbia, South Carolina

Mr. Andrew Diggins
1600 Block Two Notch Road
Columbia, South Carolina

1.2.3 Contractor Information

Crawford Environmental Services
1701 Shenandoah Avenue, NW
Roanoke, Virginia 24017
1 (540) 343-6256
Contractor Number: UCC-0388

1.2.4 Laboratory Information

Access Analytical, Inc. (AA)
7478 Carlisle Street
Irmo, SC 29063
1 (803) 781-4243
SC Certification: 32575001

Analytical Environmental Services Inc. (AES)
3785 Presidential Pkwy.
Atlanta, GA 30340
1 (770) 457-8177
SC Certification: 98016003

2.0 Corrective Action Activities

Corrective Action activities at the facility for this phase of work included the following:

-Semi-Annual Sampling Event

2.1 Groundwater Sampling Event

A comprehensive groundwater sampling event, including; recording equilibrated static water levels, product thicknesses, and the collection of chemical samples was completed by CES personnel between June 26 - 28, 2017. CES personnel utilized an electronic water level indicator for water level measurements and an oil/water interface probe for free phase product measurements. Samples for the shallow wells were collected utilizing disposable polyethylene bailers. Shallow wells that exhibited groundwater above the screened bracket were purged of at least three well volumes or purged till dry before sample collection. Deep and intermediate wells exhibiting groundwater above the screened bracket were purged utilizing submersible pumps with dedicated tubing. For sample collection, disposable polyethylene bailers were lowered slowly to the top of the water column (after purging in some cases) allowed to fill one volume, then removed. Disposal records for the 109-gallons of purge water generated are included as Appendix A. Groundwater was then transferred to the appropriate sampling containers and was then placed in coolers, maintaining 4˚C, and delivered to an independent laboratory. Groundwater chemical samples were submitted to Access Analytical, Inc., {SC Certification: 32575001} for analysis.

2.1.1 Groundwater Sampling

Equilibrated static water levels and free-product thicknesses were recorded for monitoring wells MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, MW-8, MW-10, MW-11, MW-15, MW-16, MW-17, MW-19, MW-20, MW-22, MW-23, MW-26, MW-27, MW-28, MW-29, MW-30, MW-31, MW-32, MW-33, MW-34, MW-35, MW-36, MW-37, MW-38, MW-39, MW-40, MW-41, MW-42, MW-43, MW-44, MW-45, MW-46, MW-51, MW-53, MW-55, MW-56, MW-59, MW-62, MW-63,

MW-67, MW-70, MW-5AR, PW-1R, DW-1, DW-2, DW-3, DW-4, DW-5, DW-6, and DW-9. Groundwater sampling data sheets are included as Appendix B.

During the referenced sampling event, CES was unable to access monitoring wells MW-48, MW-49 and MW-50 due to a locked gate and monitoring wells MW-9, MW-25, MW-57, MW-60, MW-61, MW-65, MW-66 and MW-68 were unable to be located. CES also utilized a metal detector to locate the wells, however, the overgrown site conditions did not permit the location of the aforementioned monitoring wells. Monitoring well MW-1, MW-5, and MW-52 did not maintain sufficient water columns to collect groundwater samples. Due to obstructions (vehicle) covering the wells, monitoring wells MW-58 and DW-8 were not able to be sampled. Monitoring wells MW-12, MW-13, MW-54, and DW-7 have been paved over following recent construction and presumed destroyed.

CES sampled the monitoring wells, as part of the June 2017 sampling event, for the following chemical analyses:
Benzene/Toluene/Ethylbenzene/Xylenes (BTEX), naphthalene, Methyl Tert-Butyl Ether (MTBE), Tert-Amyl Methyl Ether (TAME), Tert-Butyl Alcohol (TBA), and Tert-Amyl Alcohol (TAA).

During the sampling event CES collected duplicate samples of monitoring wells MW-23, MW-35, MW-45, MW-55, and PW-1R. Review of the duplicate samples collected from aforementioned monitoring well samples did not yield significant data gaps.

In addition to duplicate samples, CES also collected daily field blank samples at the conclusion of the sample events. The samples were collected at the conclusion of the day to be representative of all samples that were collected during that day. Sealed trip blank samples were also stored with samples during each day of the sampling event.

Table 2 presents the laboratory data for the submitted groundwater samples collected as part of this assessment. The groundwater concentration maps are included as *Figure 3.* The groundwater elevation map is included as *Figure 4*.

3.0 Summary

During the corrective action activities performed at the subject property, CES conducted a comprehensive groundwater monitoring event, to determine the effectiveness of the current corrective action plan. The qualitative and quantitative data collected from recent assessment activities indicates the following regarding current site conditions;

1. During this sampling event, groundwater from monitoring wells MW-2, MW-3, MW-4, MW-10, MW-15, MW-17, MW-18, MW-19, MW-20, MW-22, MW-23, MW-33, MW-35, MW-5AR, PW-1R, and DW-3 exhibited hydrocarbon constituent concentrations above the SSTLs for the chemicals of concern.

2. CES calculated a COC reduction of 56.86 percent during this phase of work.

3. Free-phase petroleum was not observed during the June 2017 sampling event.

4. Review of the analytical data collected since corrective action was implemented in 2013 indicates the dissolved-phase contaminant plume is stable and migration has not been observed. As a result, CES requests the semi-annual sampling events be reduced to only include SSTL wells.

4.0 Conclusion

Based on the results of the comprehensive sampling event, CES estimates that the historical remedial injects have been successful in targeting source area and contaminants. CES estimates that decreases in the COC reduction percentage observed during this period are based upon a significant number of wells being unable to be sampled and the reduction of free-phase petroleum during sampling event. This reduction should continue to increase as CES pursues continued remedial biological injections. CES recommends continuing a course of biological injections until the goal of 100 % COC reduction is met. The next biological injection event is scheduled for October 2017. CES will focus injections in four recently-installed injection wells, installed July 2016. The next Case Report will be submitted prior to November 15, 2017 and will be comprised of Water Supply Wells Only. Based on the results of the current and historical sampling events, CES requests a reduction in sampling locations to include only SS

5.0 Limitations

This report is based upon a specific scope of work requested by SCDHEC. This report is intended only for the use of CES's client and anyone else specifically listed on this report. Some data contained within this report was previously collected by other consultants and is assumed to be correct. CES will not and cannot be liable for the unauthorized release by any third party. Other than as contained in this paragraph, CES makes no expressed or implied warranty as to the contents of this report.

Tables

Table 1: Well Construction and Historical Groundwater Elevation Summary
Table 2: Groundwater Laboratory Analytical Result Summary
Table 3: Site Specific Target Levels

Table 1

Facility Name: Handy Pantry #65 / University Mart & Clouds Chevron — UST Permit ID: 07584 / 07777 / 12352

Address: 2367 Taylor Street Columbia, South Carolina — CES Project Number: 7.0547

Well Construction and Historical Groundwater Elevation Summary

Monitor Well	Well Depth (ft)	Screened Interval		Top of Casing (ft)	Date Measured	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Product Elevation (ft)	Groundwater Elevation (ft)
MW-1	27	17	27	93.89	6/26/2017	NA	DRY	NA	NA	DRY
					10/19/2016	NA	DRY	NA	NA	DRY
					5/15/2016	NA	DRY	NA	NA	DRY
					11/3/2015	NA	DRY	NA	NA	DRY
					5/29/2015	NA	DRY	NA	NA	DRY
					11/11/2014	NA	DRY	NA	NA	DRY
					4/2/2014	NA	DRY	NA	NA	DRY
MW-2	30	20	30	94.70	6/27/2017	NA	21.51	NA	NA	73.19
					10/19/2016	NA	21.17	NA	NA	73.53
					5/16/2016	NA	20.08	NA	NA	74.62
					11/3/2015	NA	20.32	NA	NA	74.38
					5/29/2015	22.56	22.57	0.01	72.14	72.13
					11/4/2014	NA	23.03	NA	NA	71.67
					4/2/2014	NA	21.12	NA	NA	73.58
MW-3	29	19	29	94.45	6/27/2017	NA	20.98	NA	NA	73.47
					10/19/2016	NA	20.18	NA	NA	74.27
					5/16/2016	NA	19.84	NA	NA	74.61
					11/3/2015	NA	23.29	NA	NA	71.16
					5/29/2015	23.2	23.29	0.09	71.25	71.16
					4/2/2014	NA	21.40	NA	NA	73.05
					11/12/2014	NA	23.16	NA	NA	71.29
MW-4	28	18	28	94.85	6/27/2017	NA	20.55	NA	NA	74.30
					10/19/2016	NA	20.42	NA	NA	74.43
					5/16/2016	NA	19.20	NA	NA	75.65
					11/3/2015	NA	20.35	NA	NA	74.50
					5/29/2015	NA	21.52	NA	NA	73.33
					11/11/2014	NA	21.76	NA	NA	73.09
					4/2/2014	NA	21.31	NA	NA	73.54
MW-5	26	16	26	95.26	6/26/2017	NA	DRY	NA	NA	DRY
					10/19/2016	NA	DRY	NA	NA	DRY
					5/16/2016	NA	19.75	NA	NA	75.51
					11/3/2015	NA	DRY	NA	NA	DRY
					5/29/2015	NA	DRY	NA	NA	DRY
					11/11/2014	NA	DRY	NA	NA	DRY
					4/2/2014	NA	DRY	NA	NA	DRY
MW-6	30	20	30	94.96	6/27/2017	NA	22.91	NA	NA	72.05
					10/19/2016	NA	22.04	NA	NA	72.92
					5/17/2016	NA	20.59	NA	NA	74.37
					11/3/2015	NA	21.21	NA	NA	73.75
					5/29/2015	NA	22.38	NA	NA	72.58
					11/11/2014	NA	23.98	NA	NA	70.98
					4/3/2014	NA	22.61	NA	NA	72.35
MW-7	30	20	30	95.93	6/27/2017	NA	22.32	NA	NA	73.61
					10/19/2016	NA	22.20	NA	NA	73.73
					5/16/2016	NA	20.98	NA	NA	74.95
					11/3/2015	NA	21.79	NA	NA	74.14
					5/29/2015	NA	23.48	NA	NA	72.45
					11/11/2014	NA	24.12	NA	NA	71.81
					4/3/2014	NA	23.02	NA	NA	72.91
MW-8	28	18.5	28	94.79	6/27/2017	NA	19.65	NA	NA	75.14
					10/19/2016	NA	19.70	NA	NA	75.09
					5/17/2016	NA	18.75	NA	NA	76.04
					11/3/2015	NA	19.19	NA	NA	75.60
					5/29/2015	NA	20.08	NA	NA	74.71
					11/11/2014	NA	21.43	NA	NA	73.36
					4/3/2014	NA	19.95	NA	NA	74.84
MW-9	30	20	30	92.30	6/26/2017	Unable to Locate				
					10/19/2016	NA	20.30	NA	NA	72.00
					5/16/2016	NA	18.78	NA	NA	73.52
					11/3/2015	NA	20.04	NA	NA	72.26
					5/28/2015	NA	21.19	NA	NA	71.11
					11/11/2014	NA	21.69	NA	NA	70.61
					4/2/2014	NA	20.60	NA	NA	71.70
MW-10	28	18	28	85.98	6/28/2017	NA	15.33	NA	NA	70.65
					10/19/2016	NA	15.75	NA	NA	70.23
					5/18/2016	NA	14.52	NA	NA	71.46
					11/3/2015	NA	14.58	NA	NA	71.40
					5/28/2015	NA	16.64	NA	NA	69.34
					11/11/2014	Interface Probe Failure - 1.25-Feet of Product Observed in Bailer				
					4/1/2014	NA	17.69	NA	NA	68.29

Table 1

Facility Name: Handy Pantry #65 / University Mart & Clouds Chevron — UST Permit ID: 07584 / 07777 / 12352

Address: 2367 Taylor Street Columbia, South Carolina — CES Project Number: 7.0547

Well Construction and Historical Groundwater Elevation Summary

Monitor Well	Well Depth (ft)	Screened Interval		Top of Casing (ft)	Date Measured	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Product Elevation (ft)	Groundwater Elevation (ft)
MW-11	30	Unknown		88.46	6/27/2017	NA	17.75	NA	NA	70.71
					10/19/2016	NA	18.19	NA	NA	70.27
					5/18/2016	NA	16.66	NA	NA	71.80
					11/3/2015	NA	17.16	NA	NA	71.30
					5/29/2015	NA	18.93	NA	NA	69.53
					11/11/2014	NA	19.38	NA	NA	69.08
					4/2/2014	NA	18.61	NA	NA	69.85
MW-12	24.65	Unknown		72.80	6/26/2017	Destroyed - Paved Over				
					10/19/2016	NA	3.32	NA	NA	69.48
					5/18/2016	NA	2.73	NA	NA	70.07
					11/3/2015	NA	3.15	NA	NA	69.65
					5/28/2015	NA	4.38	NA	NA	68.42
					11/11/2014	NA	4.63	NA	NA	68.17
					4/2/2014	NA	4.20	NA	NA	68.60
MW-13	30.1	Unknown		80.44	6/26/2017	Destroyed - Paved Over				
					10/19/2016	NA	10.83	NA	NA	69.61
					5/16/2016	NA	9.71	NA	NA	70.73
					11/3/2015	NA	9.82	NA	NA	70.62
					5/28/2015	NA	11.71	NA	NA	68.73
					11/11/2014	NA	12.15	NA	NA	68.29
					4/1/2014	NA	11.13	NA	NA	69.31
MW-15	25	15	25	86.44	6/28/2017	NA	15.36	NA	NA	71.08
					10/19/2016	15.70	15.82	0.12	70.74	70.62
					5/18/2016	14.58	15.02	0.13	71.86	71.42
					11/3/2015	14.51	14.64	0.13	71.93	71.80
					5/29/2015	16.45	16.61	0.16	69.99	69.83
					11/11/2014	Interface Probe Failure - 0.25-Feet of Product Observed in Bailer				
					4/1/2014	16.60	16.00	0.60	69.84	70.88*
MW-16	25	15	25	88.19	6/27/2017	NA	17.21	NA	NA	70.98
					10/19/2016	NA	17.55	NA	NA	68.89
					5/18/2016	NA	16.29	NA	NA	71.90
					11/3/2015	NA	16.29	NA	NA	70.15
					5/29/2015	Unable to Locate				
					11/12/2014	NA	18.98	NA	NA	69.21
					4/2/2014	NA	17.54	NA	NA	70.65
MW-17	22	20	30	92.45	6/27/2017	NA	21.62	NA	NA	70.83
					10/19/2016	NA	21.58	NA	NA	70.87
					5/18/2016	Not Sampled due to Obstruction				
					11/3/2015	NA	20.47	NA	NA	71.98
					5/28/2015	NA	22.70	NA	NA	69.75
					11/12/2014	NA	23.45	NA	NA	69.00
					4/2/2014	NA	22.00	NA	NA	70.45
MW-18	30	20	30	94.81	6/26/2017	NA	23.16	NA	NA	71.35
					10/19/2016	NA	23.46	NA	NA	71.35
					5/15/2016	NA	22.04	NA	NA	72.77
					11/3/2015	NA	22.28	NA	NA	72.53
					5/28/2015	NA	24.41	NA	NA	70.40
					11/12/2014	NA	25.08	NA	NA	69.73
					4/2/2014	NA	23.68	NA	NA	71.13
MW-19	30	20	30	93.96	6/27/2017	NA	22.80	NA	NA	71.16
					10/19/2016	NA	23.70	NA	NA	70.26
					5/18/2016	NA	21.76	NA	NA	72.20
					11/3/2015	NA	21.81	NA	NA	72.15
					5/28/2015	NA	24.00	NA	NA	69.96
					11/13/2014	NA	24.56	NA	NA	69.40
					4/3/2014	NA	23.33	NA	NA	70.63
MW-20	25	15	25	94.12	6/27/2017	NA	21.50	NA	NA	72.62
					10/19/2016	NA	21.89	NA	NA	72.23
					5/15/2016	NA	20.41	NA	NA	73.71
					11/3/2015	NA	20.18	NA	NA	73.94
					5/28/2015	22.67	22.61	0.06	71.45	71.51
					11/13/2014	NA	23.28	NA	NA	70.84
					4/3/2014	NA	21.95	NA	NA	72.17
MW-22	30	20	30	94.25	6/27/2017	NA	20.77	NA	NA	73.48
					10/19/2016	NA	21.16	NA	NA	73.09
					5/15/2016	NA	19.61	NA	NA	74.64
					11/3/2015	NA	19.01	NA	NA	75.24
					5/28/2015	NA	21.85	NA	NA	72.40
					11/11/2014	NA	22.68	NA	NA	71.57
					4/3/2014	NA	21.11	NA	NA	73.14

Table 1

Facility Name: Handy Pantry #65 / University Mart & Clouds Chevron — UST Permit ID: 07584 / 07777 / 12352

Address: 2367 Taylor Street Columbia, South Carolina — CES Project Number: 7.0547

Well Construction and Historical Groundwater Elevation Summary

Monitor Well	Well Depth (ft)	Screened Interval		Top of Casing (ft)	Date Measured	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Product Elevation (ft)	Groundwater Elevation (ft)
MW-23	30	20	30	94.43	6/27/2017	NA	23.60	NA	NA	70.83
					10/19/2016	NA	23.06	NA	NA	71.37
					5/18/2016	NA	21.95	NA	NA	72.48
					11/3/2015	NA	21.95	NA	NA	72.48
					5/28/2015	NA	24.25	NA	NA	70.18
					11/13/2014	NA	24.98	NA	NA	69.45
					4/3/2014	NA	23.65	NA	NA	70.78
MW-25	25.6	Unknown		93.09	6/26/2017	Unable to Locate				
					10/19/2016	NA	19.96	NA	NA	73.13
					5/15/2016	Unable to Locate				
					11/3/2015	NA	17.73	NA	NA	75.36
					5/28/2015	NA	20.65	NA	NA	72.44
					11/10/2014	NA	21.60	NA	NA	71.49
					4/1/2014	NA	19.71	NA	NA	73.38
MW-26	30	Unknown		95.96	6/28/2017	NA	21.44	NA	NA	74.52
					10/19/2016	Not Sampled due to Obstruction				
					5/17/2016	NA	20.24	NA	NA	75.72
					11/3/2015	NA	21.06	NA	NA	74.90
					6/5/2015	NA	22.49	NA	NA	73.47
					11/11/2014	NA	22.95	NA	NA	73.01
					4/3/2014	NA	20.01	NA	NA	75.95
MW-27	30	15	30	91.40	6/27/2017	NA	17.31	NA	NA	74.09
					10/19/2016	NA	17.46	NA	NA	73.94
					5/17/2016	NA	15.62	NA	NA	75.78
					11/3/2015	NA	11.21	NA	NA	80.19
					5/28/2015	NA	17.75	NA	NA	73.65
					11/13/2014	NA	18.85	NA	NA	72.55
					4/1/2014	NA	14.65	NA	NA	76.75
MW-28	30	15	30	91.46	6/27/2017	NA	16.97	NA	NA	74.49
					10/19/2016	NA	17.53	NA	NA	73.93
					5/17/2016	NA	15.90	NA	NA	75.56
					11/3/2015	NA	13.08	NA	NA	78.38
					5/28/2015	NA	17.97	NA	NA	73.49
					11/13/2014	NA	19.75	NA	NA	71.71
					4/1/2014	NA	15.63	NA	NA	75.83
MW-29	30	15	30	91.09	6/27/2017	NA	16.95	NA	NA	74.14
					10/19/2016	NA	17.76	NA	NA	73.33
					5/17/2016	NA	15.88	NA	NA	75.21
					11/3/2015	NA	13.19	NA	NA	77.90
					5/28/2015	17.91	17.92	0.01	73.18	73.17
					11/13/2014	NA	19.92	NA	NA	71.17
					4/1/2014	NA	15.51	NA	NA	75.58
MW-30	30	15	30	92.77	6/27/2017	NA	20.46	NA	NA	72.31
					10/19/2016	NA	29.20	NA	NA	63.57
					5/15/2016	NA	19.27	NA	NA	73.50
					11/3/2015	NA	17.43	NA	NA	75.34
					5/28/2015	NA	26.70	NA	NA	66.07
					11/10/2014	NA	22.90	NA	NA	69.87
					4/1/2014	NA	20.50	NA	NA	72.27
MW-31	35	20	35	95.20	6/27/2017	NA	24.12	NA	NA	71.08
					10/19/2016	NA	24.41	NA	NA	70.79
					5/17/2016	NA	22.98	NA	NA	72.22
					11/3/2015	NA	22.53	NA	NA	72.67
					5/28/2015	25.61	25.62	0.01	69.59	69.58
					11/12/2014	NA	26.36	NA	NA	68.84
					4/2/2014	NA	24.41	NA	NA	70.79
MW-32	30	15	30	92.87	6/27/2017	NA	20.01	NA	NA	72.86
					10/19/2016	Not Sampled due to Obstruction				
					5/17/2016	NA	19.75	NA	NA	73.12
					11/3/2015	NA	19.12	NA	NA	73.75
					5/28/2015	NA	22.00	NA	NA	70.87
					11/12/2014	NA	23.16	NA	NA	69.71
					4/2/2014	NA	21.28	NA	NA	71.59
MW-33	35	20	35	93.84	6/27/2017	NA	22.70	NA	NA	71.14
					10/19/2016	NA	23.00	NA	NA	70.84
					5/15/2016	NA	21.57	NA	NA	72.27
					11/3/2015	NA	21.48	NA	NA	72.36
					5/28/2015	NA	23.83	NA	NA	70.01
					11/12/2014	NA	24.65	NA	NA	69.19
					4/1/2014	NA	23.18	NA	NA	70.66

Table 1

Facility Name: Handy Pantry #65 / University Mart & Clouds Chevron — UST Permit ID: 07584 / 07777 / 12352

Address: 2367 Taylor Street Columbia, South Carolina — CES Project Number: 7.0547

Well Construction and Historical Groundwater Elevation Summary

Monitor Well	Well Depth (ft)	Screened Interval		Top of Casing (ft)	Date Measured	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Product Elevation (ft)	Groundwater Elevation (ft)
MW-34	35	20	35	94.77	6/27/2017	NA	25.52	NA	NA	69.25
					10/19/2016	NA	23.81	NA	NA	70.96
					5/15/2016	NA	22.38	NA	NA	72.39
					11/3/2015	NA	21.52	NA	NA	73.25
					5/28/2015	NA	24.72	NA	NA	70.05
					11/12/2014	NA	25.49	NA	NA	69.28
					4/1/2014	NA	24.06	NA	NA	70.71
MW-35	35	20	35	93.71	6/27/2017	NA	22.65	NA	NA	71.06
					10/19/2016	NA	22.89	NA	NA	70.82
					5/16/2016	NA	21.48	NA	NA	72.23
					11/3/2015	NA	21.37	NA	NA	72.34
					5/28/2015	NA	23.80	NA	NA	69.91
					11/12/2014	NA	24.66	NA	NA	69.05
					4/1/2014	NA	21.35	NA	NA	72.36
MW-36	35	20	35	93.89	6/27/2017	NA	22.52	NA	NA	71.37
					10/19/2016	NA	22.91	NA	NA	70.98
					5/15/2016	NA	21.36	NA	NA	72.53
					11/3/2015	NA	21.36	NA	NA	72.53
					5/28/2015	NA	23.63	NA	NA	70.26
					11/12/2014	NA	24.72	NA	NA	69.17
					4/1/2014	NA	22.84	NA	NA	71.05
MW-37	35	20	35	93.78	6/27/2017	NA	22.76	NA	NA	71.02
					10/19/2016	NA	23.04	NA	NA	70.74
					5/16/2016	NA	21.61	NA	NA	72.17
					11/3/2015	NA	21.36	NA	NA	72.42
					5/28/2015	NA	23.98	NA	NA	69.80
					11/12/2014	NA	24.87	NA	NA	68.91
					4/1/2014	NA	22.24	NA	NA	71.54
MW-38	35	20	35	95.53	6/27/2017	NA	24.06	NA	NA	71.47
					10/19/2016	NA	24.32	NA	NA	71.21
					5/18/2016	NA	24.83	NA	NA	70.70
					11/3/2015	NA	22.89	NA	NA	72.64
					6/2/2015	NA	25.26	NA	NA	70.27
					11/12/2014	NA	26.17	NA	NA	69.36
					4/1/2014	NA	24.61	NA	NA	70.92
MW-39	35	20	35	96.19	6/27/2017	NA	25.15	NA	NA	71.04
					10/19/2016	NA	25.37	NA	NA	70.82
					5/18/2016	NA	24.02	NA	NA	72.17
					11/3/2015	NA	23.79	NA	NA	72.40
					6/2/2015	NA	26.45	NA	NA	69.74
					11/12/2014	NA	27.36	NA	NA	68.83
					4/2/2014	NA	25.59	NA	NA	70.60
MW-40	35	20	35	95.69	6/27/2017	NA	24.47	NA	NA	71.22
					10/19/2016	NA	25.04	NA	NA	70.65
					5/18/2016	NA	25.25	NA	NA	70.44
					11/3/2015	NA	23.43	NA	NA	72.26
					6/2/2015	NA	26.12	NA	NA	69.57
					11/12/2014	NA	27.01	NA	NA	68.68
					4/2/2014	NA	25.29	NA	NA	70.40
MW-41	35	20	35	94.85	6/27/2017	NA	24.91	NA	NA	69.94
					10/19/2016	NA	24.45	NA	NA	70.40
					5/18/2016	NA	23.71	NA	NA	71.14
					11/3/2015	NA	22.77	NA	NA	72.08
					6/2/2015	NA	25.69	NA	NA	69.16
					11/11/2014	NA	26.99	NA	NA	67.86
					4/1/2014	NA	24.70	NA	NA	70.15
MW-42	35	20	35	95.81	6/27/2017	NA	25.00	NA	NA	70.81
					10/19/2016	NA	25.08	NA	NA	70.73
					5/18/2016	NA	23.73	NA	NA	72.08
					11/3/2015	NA	23.46	NA	NA	72.35
					6/2/2015	NA	26.25	NA	NA	69.56
					11/12/2014	NA	27.22	NA	NA	68.59
					4/1/2014	NA	25.35	NA	NA	70.46
MW-43	40	20	40	95.15	6/27/2017	NA	23.32	NA	NA	71.83
					10/19/2016	NA	23.70	NA	NA	71.45
					5/18/2016	NA	22.04	NA	NA	73.11
					11/3/2015	NA	22.21	NA	NA	72.94
					5/28/2015	NA	24.66	NA	NA	70.49
					11/11/2014	NA	25.61	NA	NA	69.54
					4/2/2014	NA	24.00	NA	NA	71.15

Table 1

Facility Name: Handy Pantry #65 / University Mart & Clouds Chevron — UST Permit ID: 07584 / 07777 / 12352

Address: 2367 Taylor Street Columbia, South Carolina — CES Project Number: 7.0547

Well Construction and Historical Groundwater Elevation Summary

Monitor Well	Well Depth (ft)	Screened Interval		Top of Casing (ft)	Date Measured	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Product Elevation (ft)	Groundwater Elevation (ft)
MW-44	31	16	31	94.57	6/27/2017	NA	21.57	NA	NA	73.00
					10/19/2016	NA	22.16	NA	NA	72.41
					5/18/2016	NA	20.11	NA	NA	74.46
					11/3/2015	NA	20.33	NA	NA	74.24
					5/28/2015	NA	22.70	NA	NA	71.87
					11/11/2014	NA	24.23	NA	NA	70.34
					4/1/2014	NA	24.42	NA	NA	70.15
MW-45	30	15	30	92.51	6/27/2017	NA	20.56	NA	NA	71.95
					10/19/2016	NA	20.99	NA	NA	71.52
					5/18/2016	NA	19.43	NA	NA	73.08
					11/3/2015	NA	19.45	NA	NA	73.06
					5/28/2015	NA	21.75	NA	NA	70.76
					11/11/2014	NA	22.63	NA	NA	69.88
					4/1/2014	NA	21.22	NA	NA	71.29
MW-46	35	20	35	94.50	6/27/2017	NA	22.82	NA	NA	71.68
					10/19/2016	NA	23.25	NA	NA	71.25
					5/16/2016	NA	21.70	NA	NA	72.80
					11/3/2015	NA	21.84	NA	NA	72.66
					5/28/2015	NA	24.19	NA	NA	70.31
					11/11/2014	NA	24.95	NA	NA	69.55
					4/1/2014	NA	23.55	NA	NA	70.95
MW-48	30	15	30	89.95	6/26/2017	Unable to Access - Locked Gate				
					10/19/2016	Unable to Access - Locked Gate				
					5/18/2016	NA	18.21	NA	NA	71.74
					11/3/2015	Unable to Access - Locked Gate				
					5/29/2015	NA	19.63	NA	NA	70.32
					11/11/2014	Unable to Access - Locked Gate				
					4/2/2014	NA	19.70	NA	NA	70.25
MW-49	30	15	30	88.18	6/26/2017	Unable to Access - Locked Gate				
					10/19/2016					
					5/15/2016					
					11/3/2015					
					5/29/2015					
					11/11/2014					
					4/2/2014					
MW-50	30	15	30	84.09	6/26/2017	Unable to Access - Locked Gate				
					10/19/2016					
					5/15/2016					
					11/3/2015					
					5/29/2015					
					11/11/2014					
					4/2/2014					
MW-51	35	20	35	93.91	6/27/2017	NA	22.51	NA	NA	71.40
					10/19/2016	NA	22.78	NA	NA	71.13
					5/18/2016	NA	20.76	NA	NA	73.15
					11/3/2015	NA	21.87	NA	NA	72.04
					5/29/2015	NA	23.72	NA	NA	70.19
					11/11/2014	NA	24.29	NA	NA	69.62
					4/2/2014	NA	21.23	NA	NA	72.68
MW-53	20	5	20	79.60	6/27/2017	NA	9.49	NA	NA	70.11
					10/19/2016	Unable to Locate- Overgrown Field				
					5/15/2016	Unable to Locate- Overgrown Field				
					11/3/2015	NA	8.49	NA	NA	71.11
					5/28/2015	NA	10.50	NA	NA	69.10
					11/11/2014	NA	11.02	NA	NA	68.58
					4/3/2014	NA	9.60	NA	NA	70.00
MW-54	20	5	20	77.58	6/26/2017	Destroyed - Paved Over				
					10/19/2016	NA	10.66	NA	NA	66.92
					5/18/2016	NA	10.15	NA	NA	67.43
					11/3/2015	NA	9.83	NA	NA	67.75
					5/28/2015	NA	11.27	NA	NA	66.31
					11/11/2014	Unable to Locate - Overgrown Field				
					4/1/2014	NA	11.31	NA	NA	66.27
MW-55	14	4	14	71.22	6/27/2017	NA	2.10	NA	NA	69.12
					10/19/2016	NA	4.26	NA	NA	66.96
					5/18/2016	NA	1.55	NA	NA	69.67
					11/3/2015	NA	1.19	NA	NA	70.03
					5/28/2015	NA	3.83	NA	NA	67.39
					11/11/2014	Unable to Locate - Overgrown Field				
					4/3/2014	NA	2.51	NA	NA	68.71

Table 1

Facility Name: Handy Pantry #65 / University Mart & Clouds Chevron — UST Permit ID: 07584 / 07777 / 12352

Address: 2367 Taylor Street Columbia, South Carolina — CES Project Number: 7.0547

Well Construction and Historical Groundwater Elevation Summary

Monitor Well	Well Depth (ft)	Screened Interval		Top of Casing (ft)	Date Measured	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Product Elevation (ft)	Groundwater Elevation (ft)
MW-56	20	5	20	76.39	6/27/2017	NA	7.20	NA	NA	69.19
					10/19/2016	NA	7.45	NA	NA	68.94
					5/18/2016	NA	6.76	NA	NA	69.63
					11/3/2015	NA	6.40	NA	NA	69.99
					5/28/2015	NA	8.22	NA	NA	68.17
					11/11/2014	Unable to Locate - Overgrown Field				
					4/3/2014	NA	5.12	NA	NA	71.27
MW-58	19	4	19	76.37	6/26/2017	Not Sampled due to Obstruction				
					10/19/2016					
					5/18/2016					
					11/3/2015	NA	4.52	NA	NA	71.85
					5/29/2015	NA	6.85	NA	NA	69.52
					11/11/2014	Abandoned				
					4/2/2014					
MW-59	17	2	17	68.02	6/28/2017	NA	5.65	NA	NA	62.37
					10/19/2016	NA	5.84	NA	NA	62.18
					5/18/2016	NA	5.46	NA	NA	62.56
					11/3/2015	NA	5.04	NA	NA	62.98
					5/28/2015	NA	6.46	NA	NA	61.56
					11/11/2014	NA	6.69	NA	NA	61.33
					4/2/2014	NA	6.05	NA	NA	61.97
MW-60	14	4	14	67.94	6/26/2017	Unable to Locate				
					10/19/2016					
					5/18/2016					
					11/3/2015					
					5/28/2015					
					11/11/2014					
					4/2/2014					
MW-62	35	20	35	94.05	6/27/2017	NA	22.44	NA	NA	71.61
					10/19/2016	NA	22.64	NA	NA	71.41
					5/18/2016	Not Sampled due to Obstruction				
					11/3/2015	22.15	22.67	0.52	71.90	71.38
					5/28/2015	22.21	23.71	1.5	71.84	70.34
					11/12/2014	NA	24.75	NA	NA	69.30
					4/1/2014	NA	22.32	NA	NA	71.73
MW-63	35	20	35	94.65	6/27/2017	NA	22.81	NA	NA	71.84
					10/19/2016	NA	22.84	NA	NA	71.81
					5/18/2016	NA	21.66	NA	NA	72.99
					11/3/2015	NA	24.05	NA	NA	70.60
					5/28/2015	24.04	24.05	0.01	70.61	70.60
					11/12/2015	Unable to Locate				
					4/2/2014	NA	23.07	NA	NA	71.58
MW-65	35	20	35	94.04	6/26/2017	Unable to Locate - Paved over				
					10/19/2016					
					5/15/2016					
					11/3/2015					
					5/28/2015					
					11/11/2014					
					4/2/2014					
MW-67	35	20	35	96.10	6/27/2017	NA	25.42	NA	NA	70.68
					10/19/2016	NA	25.18	NA	NA	70.92
					5/18/2016	NA	23.73	NA	NA	72.37
					11/3/2015	NA	23.52	NA	NA	72.58
					6/2/2015	NA	26.29	NA	NA	69.81
					11/12/2014	NA	27.28	NA	NA	68.82
					4/1/2014	NA	24.44	NA	NA	71.66
MW-70	35	20	35	95.49	6/27/2017	NA	24.51	NA	NA	70.98
					10/19/2016	NA	24.43	NA	NA	71.06
					5/18/2016	NA	23.11	NA	NA	72.38
					11/3/2015	NA	22.89	NA	NA	72.60
					5/28/2015	NA	25.60	NA	NA	69.89
					11/11/2014	NA	26.22	NA	NA	69.27
					4/2/2014	NA	24.70	NA	NA	70.79
MW-5AR	28	18	28	94.18	6/27/2017	NA	21.61	NA	NA	72.57
					10/19/2016	NA	21.04	NA	NA	73.14
					5/15/2016	NA	19.59	NA	NA	74.59
					11/3/2015	NA	16.39	NA	NA	77.79
					5/28/2015	NA	20.91	NA	NA	73.27
					11/13/2014	NA	22.64	NA	NA	71.54
					4/1/2014	NA	21.24	NA	NA	72.94

Table 1

Facility Name: Handy Pantry #65 / University Mart & Clouds Chevron — UST Permit ID: 07584 / 07777 / 12352

Address: 2367 Taylor Street Columbia, South Carolina — CES Project Number: 7.0547

Well Construction and Historical Groundwater Elevation Summary

Monitor Well	Well Depth (ft)	Screened Interval		Top of Casing (ft)	Date Measured	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Product Elevation (ft)	Groundwater Elevation (ft)
PW-1R	50	45	50	93.75	6/28/2017	NA	22.16	NA	NA	71.59
					10/19/2016	NA	22.36	NA	NA	71.39
					5/18/2016	NA	21.03	NA	NA	72.72
					11/3/2015	NA	21.43	NA	NA	72.32
					5/29/2015	23.19	23.20	0.01	70.56	70.55
					11/13/2014	NA	23.92	NA	NA	69.83
					4/3/2014	NA	23.11	NA	NA	70.64
DW-1	70	65	70	94.66	6/28/2017	NA	42.91	NA	NA	51.75
					10/19/2016	NA	42.32	NA	NA	52.34
					5/16/2016	NA	42.71	NA	NA	51.95
					11/3/2015	NA	46.28	NA	NA	48.38
					5/29/2015	NA	46.28	NA	NA	48.38
					11/10/2014	NA	45.42	NA	NA	49.24
					4/2/2014	NA	45.00	NA	NA	49.66
DW-2	75	70	75	94.02	6/28/2017	NA	42.21	NA	NA	51.81
					10/19/2016	NA	43.05	NA	NA	50.97
					5/16/2016	NA	41.99	NA	NA	52.03
					11/3/2015	NA	43.07	NA	NA	50.95
					11/11/2014	NA	44.88	NA	NA	49.14
					4/2/2014	NA	44.34	NA	NA	49.68
DW-3	52	47	52	93.75	6/28/2017	NA	22.85	NA	NA	70.90
					10/19/2016	NA	23.07	NA	NA	70.68
					5/18/2016	NA	21.70	NA	NA	72.05
					11/3/2015	NA	21.29	NA	NA	72.46
					5/28/2015	NA	23.93	NA	NA	69.82
					11/13/2014	NA	24.42	NA	NA	69.33
					4/3/2014	NA	24.40	NA	NA	69.35
DW-4	110	105	110	93.79	6/28/2017	NA	38.96	NA	NA	54.83
					10/19/2016	NA	42.79	NA	NA	51.00
					5/18/2016	NA	42.31	NA	NA	51.48
					11/3/2015	NA	43.34	NA	NA	50.45
					5/28/2015	NA	44.51	NA	NA	49.28
					11/13/2014	NA	3.45	NA	NA	90.34
					4/3/2014	NA	44.60	NA	NA	49.19
DW-5	70	65	70	93.74	6/28/2017	NA	42.34	NA	NA	51.40
					10/19/2016	NA	42.51	NA	NA	51.23
					5/16/2016	NA	42.12	NA	NA	51.62
					11/3/2015	NA	42.89	NA	NA	50.85
					5/28/2015	NA	44.45	NA	NA	49.29
					11/12/2014	NA	44.75	NA	NA	48.99
					4/1/2014	NA	44.22	NA	NA	49.52
DW-6	70	65	70	95.90	6/28/2017	NA	44.31	NA	NA	51.59
					10/19/2016	NA	44.54	NA	NA	51.36
					5/18/2016	NA	44.10	NA	NA	51.80
					11/3/2015	NA	44.59	NA	NA	51.31
					6/2/2015	NA	46.16	NA	NA	49.74
					11/12/2014	NA	46.64	NA	NA	49.26
					4/1/2014	NA	45.86	NA	NA	50.04
DW-7	55	50	55	72.79	6/26/2017	Destroyed - Paved Over				
					10/19/2016	NA	22.24	NA	NA	50.55
					5/18/2016	NA	21.82	NA	NA	50.97
					11/3/2015	NA	22.97	NA	NA	49.82
					5/28/2015	NA	24.32	NA	NA	48.47
					11/11/2014	NA	24.75	NA	NA	48.04
					4/3/2014	NA	24.00	NA	NA	48.79
DW-8	55	50	55	68.63	6/26/2017	Not Sampled due to Obstruction				
					10/19/2016					
					5/18/2016					
					11/3/2015	NA	19.43	NA	NA	49.20
					5/29/2015	NA	5.37	NA	NA	63.26
					11/11/2014	Abandoned				
					4/2/2014					
DW-9	65	60	65	76.47	6/28/2017	NA	22.73	NA	NA	53.74
					10/19/2016	NA	22.87	NA	NA	53.60
					5/18/2016	NA	22.42	NA	NA	54.05
					11/3/2015	NA	23.62	NA	NA	52.85
					5/28/2015	NA	24.90	NA	NA	51.57
					11/11/2014	NA	24.44	NA	NA	52.03
					4/2/2014	NA	25.00	NA	NA	51.47

INA = Information not available

* = GW Elevation Corrected for The Presence of Free Product

n/a = not applicable

CRAWFORD ENVIRONMENTAL SERVICES

Table 2

Facility Name: Handy Pantry #65 / University Mart & Clouds Chevron | UST | 07584 / 07777 / 12352

Address: 2367 Taylor Street Columbia, South Carolina | Crawford Project No. | 7.0547

Groundwater Laboratory Analytical Result Summary

Well ID:	Date:	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphthalene	TAA	TAME	TBA
MW-1	4/2/2014	Dry								
	11/11/2014									
	5/29/2015									
	11/3/2015									
	5/15/2016									
	10/16/2016									
	6/26/2017									
MW-2	4/2/2014	170	41	200	960	320	150	230	1	6.8
	11/4/2014	140	300	220	1300	410	160	210	<10	<100
	5/29/2015	0.01-Feet of Free Product								
	11/4/2015	0.61	0.48	1.4	5.5	<1	2.6	<100	<10	<100
	5/16/2016	11	0.83 J	0.98 J	49	18	12	<100	<10	<100
	10/21/2016	34	4.9	23	60	56	18	68 J	<10	47 J
	6/27/2017	190	5.6	140	640	370	140	190	14	<100
MW-3	4/2/2014	6900	18000	1200	16000	1800	600	980	560.000	340
	11/12/2014	4600	11000	620	8700	1300	280	<5000	310.000	<5000
	5/29/2015	0.09-Feet of Free Product								
	11/4/2015	3000	8700	600	7200	720	360	<2000	140	<2000
	5/16/2016	7800	22000	1800	21000	2500	870	<5000	410 J	<5000
	10/21/2016	480	1000	76	2100	67	61	210	29	330
	6/27/2017	3900	13000	1100	10000	370	560	<1000	210	<1000
MW-4	4/2/2014	<1	<1	<1	<1	3.5	<5	<100	10.000	<100
	11/11/2014	<1	<1	<1	<1	1.6	<5	<100	<10	<100
	5/29/2015	<1	<1	<1	<1	1.9	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	1.9	<5	<100	<10	<100
	5/16/2016	<1	<1	<1	<1	0.87 J	<5	<100	<10	<100
	10/21/2016	<1	<1	<1	<1	1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	0.73 J	<5	<100	<10	<100
MW-5	4/2/2014	Dry								
	11/11/2014									
	5/29/2015									
	11/3/2015									
	5/16/2016	0.29 J	<1	<1	<1	<1	<5	<100	<10	<100
	10/19/2016	Dry								
	6/26/2017	Dry								
MW-6	4/3/2014	2.6	<1	2.4	10	2.5	4.2	<100	<10	<100
	11/11/2014	<1	<1	<1	<1	0.8	<5	<100	<10	<100
	5/29/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/17/2016	<1	<1	<1	<1	1.7	<5	<100	<10	<100
	10/21/2016	<1	<1	<1	<1	<1	1.9 J	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	1.9	<5	<100	<10	<100
MW-7	4/3/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/11/2014	0.71	<1	<1	<1	<1	<5	<100	<10	<100
	5/29/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/16/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/21/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	1.3 J	<100	<10	<100
MW-8	4/3/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/11/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/29/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/17/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/21/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-9	4/2/2014	830	7500	1700	14000	50	590	1700	5000	5000
	11/11/2014	380	11000	1900	13000	5	650	1100	<10	<100
	5/28/2015	250	5700	1200	8200	<50	480	<5000	<500	<5000
	11/4/2015	520	6200	1100	8600	<50	470	3000	<500	<5000
	5/16/2016	78	1900	1000	4300	<1	440	200	<10	<100
	10/21/2016	60	1500	730	3800	<1	210	550	<10	<100
	6/26/2017	Unable to Locate								

Table 2

Facility Name: Handy Pantry #65 / University Mart & Clouds Chevron — UST — 07584 / 07777 / 12352

Address: 2367 Taylor Street Columbia, South Carolina — Crawford Project No. — 7.0547

Groundwater Laboratory Analytical Result Summary

Well ID:	Date:	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphthalene	TAA	TAME	TBA
MW-10	4/1/2014	1800	5700	350	8500	50	690	5000	500	5000
	11/11/2014	1.25-Feet of Free Product								
	5/28/2015	66	76	67	860	<1	370	<100	<10	<100
	11/4/2015	10	18	4.5	120	<1	46	<100	<10	<100
	5/18/2016	88	11	22	97	<1	170	<100	<10	<100
	10/21/2016	27	7.1	11	93	<1	47	<100	<10	<100
	6/28/2017	27	3.3	17	59	<1	120	<100	<10	<100
MW-11	4/2/2014	2.3	4.1	11	4.1	<1	4.4	120	<10	<100
	11/11/2014	0.53	<1	<1	<1	<1	<5	80	<10	58
	5/29/2015	0.51	<1	<1	3.8	<1	6.6	50	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/21/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-12	4/2/2014	2.9	0.67	1.6	0.91	18	4.7	630	9	<100
	11/11/2014	990	19	910	140	21	180	3600	14	<100
	5/28/2015	53	2.7	430	14	22	44	2300	<10	<100
	11/4/2015	110	2	53	25	<1	10	1800	8	<100
	5/18/2016	260	83	710	330	17	190	1300	<10	<100
	10/20/2016	180	18	420	300	13	110	4000	<10	<100
	6/26/2017	Destroyed - Paved Over								
MW-13	4/1/2014	0.62	8.8	4.5	86	<1	31	10	<10	<100
	11/11/2014	<1	<1	<	<1	<1	<5	<100	<10	<100
	5/28/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<1	<100	<10	<100
	5/16/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/20/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/26/2017	Destroyed - Paved Over								
MW-15	4/1/2014	0.60-Feet of Free Product								
	11/11/2014	0.25-Feet of Free Product								
	5/29/2015	0.16-Feet of Free Product								
	11/3/2015	0.14-Feet of Free Product								
	5/15/2016	0.44-Feet of Free Product								
	10/19/2016	0.60-Feet of Free Product								
	6/28/2017	<1	300	320	7,500	<1	880	<100	<10	<100
MW-16	4/2/2014	<1	<1	<1	<1	<1	3.4	<100	<10	<100
	11/12/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/29/2015	Unable to Locate								
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/20/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-17	4/2/2014	280	5100	450	13000	50	850	2200	500	5000
	11/12/2014	32	3000	450	8300	<10	690	270	<100	<1000
	5/28/2015	210	7500	480	12000	<50	830	2200	<500	<5000
	11/4/2015	280	10000	660	13000	<100	720	<10000	<1000	<10000
	5/15/2016	Not Sampled due to Obstruction								
	10/20/2016	<100	5500	510	11000	<100	560	<10000	<1000	<10000
	6/27/2017	10	5.8	190	26	<1	190	<100	<10	<100
MW-18	4/2/2014	1900	7200	630	8300	340	370	4900	70	5000
	11/12/2014	3100	11000	560	8700	510	290	12000	<1000	<10000
	5/28/2015	970	2500	180	4100	230	180	3000	33	<100
	11/3/2015	990	5800	600	8900	93	260	<10000	<1000	<10000
	5/15/2016	260	1900	220	4900	20	220	690	<10	<100
	10/20/2016	510	2400	230	3700	68	120	5500	48	1100
	6/27/2017	310	1800	300	4100	6.3	140	190	<10	<100
MW-19	4/3/2014	300	1800	490	12000	50	900	610	500	5000
	11/13/2014	1400	2800	1600	24000	<50	1400	1300	<50	<5000
	5/28/2015	2100	17000	330	16000	<50	1200	6200	<500	<5000
	11/3/2015	2900	19000	720	17000	<100	1100	5400	<1000	<10000
	5/18/2016	2900	19000	1100	22000	200	1400	4300 J	<500	<5000
	10/21/2016	2500	18000	1200	19000	<500	1200 J	<50000	<5000	<50000
	6/27/2017	3200	21000	1100	20000	130	950	6700 J	<1000	<10000

Table 2

Facility Name: Handy Pantry #65 / University Mart & Clouds Chevron | UST | 07584 / 07777 / 12352

Address: 2367 Taylor Street Columbia, South Carolina | Crawford Project No. | 7.0547

Groundwater Laboratory Analytical Result Summary

Well ID:	Date:	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphthalene	TAA	TAME	TBA
MW-20	4/3/2014	1800	11000	460	11000	50	960	3100	65	5000
	11/13/2014	1400	12000	500	14000	120	1100	<10000	<1000	<10000
	5/29/2015	0.06-Feet of Free Product								
	11/3/2015	930	11000	1000	17000	<50	1400	<5000	<500	<5000
	5/15/2016	690	10000	2100	23000	<50	1600	<5000	<500	<5000
	10/21/2016	490	7000	1600	20000	<50	1200	4200 J	<500	<5000
	6/27/2017	390	10000	2000	26000	<50	1500	2500 J	<500	<5000
MW-22	4/3/2014	5700	12000	880	23000	50	990	3600	500	5000
	11/11/2014	6300	23000	700	21000	<20	1200	9600	<20	<140
	6/5/2015	4800	16000	760	26000	<100	840	<10000	<1000	<10000
	11/3/2015	6400	20000	740	24000	<100	1000	3900	<1000	<10000
	5/15/2016	1900	11000	1500	28000	<50	1400	<5000	<500	<5000
	10/21/2016	3400	20000	1600	20000	<500	720 J	<50000	<5000	<50000
	6/27/2017	2100	13000	1100	15000	<500	<2500	<50000	<5000	<50000
MW-23	4/3/2014	4200	16000	880	19000	120	1100	5900	500.000	5000
	11/13/2014	890	3600	450	16000	<50	1200	1500	<50	<340
	5/28/2015	570	1500	89	8300	<50	660	<5000	<500	<5000
	11/3/2015	2.9	8.5	1.5	190	<1	52	<100	<10	<100
	5/18/2016	280	990	110	4200	7.3	470	520	<10	<100
	10/21/2016	600	1900	130	4600	18	390	4000	<10	<100
	6/27/2017	400	1500	120	3800	6.3	370	1000	<10	<100
MW-25	4/1/2014	5.5	200	320	4400	<1	1300	170	<10	<100
	11/10/2014	38	140	200	2600	1.9	490	2800	<10	<100
	5/28/2015	29	140	190	3000	<1	560	430	<10	<100
	11/3/2015	14	150	200	2600	<1	340	390	<10	<100
	5/15/2016	Unable to Locate								
	10/19/2016	8.8	120	230	3400	<1	450	<100	<10	<100
	6/26/2017	Unable to Locate								
MW-26	4/3/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/11/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/2/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/17/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/19/2016	Not Sampled due to Obstruction								
	6/28/2017	<1	<1	<1	<1	<1	1.1 J	<100	<10	<100
MW-27	4/1/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/13/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/28/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/3/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/17/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/19/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-28	4/1/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/13/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/28/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/3/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/17/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/19/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-29	4/1/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/13/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/29/2015	0.01-Feet of Free Product								
	11/3/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/17/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/19/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-30	4/1/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/10/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/28/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/3/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/15/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/19/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100

Table 2

Facility Name: Handy Pantry #65 / University Mart & Clouds Chevron — UST — 07584 / 07777 / 12352

Address: 2367 Taylor Street Columbia, South Carolina — Crawford Project No. — 7.0547

Groundwater Laboratory Analytical Result Summary

Well ID:	Date:	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphthalene	TAA	TAME	TBA
MW-31	4/2/2014	0.9	<1	<1	<1	2.7	<5	59	<10	<100
	11/12/2014	30	9.8	310	9.3	4.1	160	460	<10	<100
	5/29/2015	0.01-Feet of Free Product								
	11/3/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/17/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/20/2016	7.9	<1	6.1	<1	<1	130	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-32	4/2/2014	0.94	<1	1.9	2.4	<1	6.6	170	<10	<100
	11/12/2014	4	13	72	10	<1	45	<100	<10	<100
	5/28/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/3/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/17/2016	<1	<1	<1	<1	<1	2.8 J	<100	<10	<100
	10/19/2016	Not Sampled due to Obstruction								
	6/27/2017	<1	<1	<1	<1	<1	1.4 J	<100	<10	<100
MW-33	4/1/2014	560	5200	2500	6900	50	670	4100	500.000	5000
	11/12/2014	130	410	210	550	1.2	71	1000	<10	<100
	5/28/2015	<1	<1	<1	<1	<1	<5	29	<10	<100
	11/3/2015	240	7500	1600	11000	<50	430	<5000	<500	<5000
	5/15/2016	260	3200	1400	4700	4.3	390	210	<10	<100
	10/19/2016	120	620	480	1700	<1	95	980	<10	<100
	6/27/2017	80	250	100	1400	<1	210	860	<10	<100
MW-34	4/1/2014	<1	<1	<1	<1	<1	<5	39	<10	<100
	11/12/2014	<1	<1	<1	<1	<1	<5	39	<10	<100
	5/28/2015	<1	1.1	<1	<1	<1	<5	<100	<10	<100
	11/3/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/15/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/19/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-35	4/1/2014	3700	4300	2000	6200	160	550	5600	54	5000
	11/12/2014	6000	7200	2800	7400	330	700	4700	76	<100
	5/28/2015	3300	5100	1500	4700	<50	640	4400	<500	<5000
	11/3/2015	1900	2200	1100	3300	84	530	2300	28	<100
	5/16/2016	130	130	23	490	4.6	46	120	<10	<100
	10/20/2016	2200	3300	1300	4100	64	360	5800	63	<100
	6/27/2017	3100	3800	2400	4700	56	780	3000	29	<100
MW-36	4/1/2014	5.1	<1	38	<1	<1	55	96	<10	<100
	11/12/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/28/2015	<1	1.3	<1	2.3	<1	<5	<100	<10	<100
	11/3/2015	0.74	<1	1.6	<1	<1	16	<100	<10	<100
	5/15/2016	1	<1	14	0.47 J	<1	54	<100	<10	<100
	10/19/2016	1.8	<1	25	<1	<1	14	<100	<10	<100
	6/27/2017	1	<1	<1	<1	<1	47	<100	<10	<100
MW-37	4/1/2014	<1	<1	<1	<1	<1	3.7	<100	<10	<100
	11/12/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/28/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/3/2015	3.5	<1	<1	5.4	<1	5.5	77	<10	<100
	5/16/2016	<1	<1	<1	<1	<1	0.95 J	<100	<10	<100
	10/20/2016	<1	<1	<1	<1	<1	1.0 J	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-38	4/1/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/12/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/2/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/3/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/16/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/20/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-39	4/2/2014	<1	3.2	2.2	14	<1	3.3	<100	<10	<100
	11/12/2014	11	1500	1000	3700	<1	340	220	<10	<100
	6/2/2015	1.3	160	140	1100	<1	160	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/16/2016	<1	1.2	1.9	4.9	<1	<5	<100	<10	<100
	10/20/2016	1.5	390	780	2300	<1	320	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100

Table 2

Facility Name: Handy Pantry #65 / University Mart & Clouds Chevron | UST | 07584 / 07777 / 12352

Address: 2367 Taylor Street Columbia, South Carolina | Crawford Project No. | 7.0547

Groundwater Laboratory Analytical Result Summary

Well ID:	Date:	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphthalene	TAA	TAME	TBA
MW-40	4/2/2014	5.8	14	2	580	<1	24	<100	<10	<100
	11/12/2014	140	970	300	2900	12	150	600	<10	<100
	6/2/2015	5.2	47	3.9	590	<1	38	<100	<10	<100
	11/4/2015	0.51	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	<1	<1	1.4	<1	<1	<5	<100	<10	<100
	10/20/2016	<1	<1	1.4	<1	<1	<5	<100	<10	<100
	6/27/2017	22	5.1	600	98	<1	480	<100	<10	<100
MW-41	4/1/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/11/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/2/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/20/2016	26	3.2	510	15	<1	340	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-42	4/1/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/12/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/2/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	<1	<1	0.31 J	<1	<1	<5	<100	<10	<100
	10/20/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	3.8	5.4	<1	4.9	<100	<10	<100
MW-43	4/2/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/11/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/28/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/20/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-44	4/1/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/11/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/28/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/20/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-45	4/1/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/11/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/28/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/20/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-46	4/1/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/11/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/28/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/16/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/20/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-48	4/2/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/11/2014	Unable to Access - Locked Gate								
	5/29/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/3/2015	Unable to Access - Locked Gate								
	5/18/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/25/2016	Unable to Access - Locked Gate								
	6/26/2017	Unable to Access - Locked Gate								
MW-49	4/2/2014	Unable to Access - Locked Gate								
	11/11/2014									
	5/29/2015									
	11/3/2015									
	5/15/2016									
	10/19/2016									
	6/26/2017									

Table 2

Facility Name: Handy Pantry #65 / University Mart & Clouds Chevron | UST | 07584 / 07777 / 12352

Address: 2367 Taylor Street Columbia, South Carolina | Crawford Project No. | 7.0547

Groundwater Laboratory Analytical Result Summary

Well ID:	Date:	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphthalene	TAA	TAME	TBA
MW-50	4/2/2014	Unable to Access - Locked Gate								
	11/11/2014									
	5/29/2015									
	11/3/2015									
	5/15/2016									
	10/19/2016									
	6/26/2017									
MW-51	4/2/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/11/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/29/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/20/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-53	4/3/2014	<1	<1	<1	<1	<1	4.1	<100	<10	<100
	11/11/2014	<1	<1	<1	<1	<1	4.1	<100	<10	<100
	5/28/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/15/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/21/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-54	4/1/2014	<1	<1	<1	<1	9.6	<5	<100	6.700	<100
	11/11/2014	Unable to Locate								
	5/28/2015	<1	<1	<1	<1	6.4	<5	140	<10	<100
	11/4/2015	<1	<1	<1	<1	1.5	<5	<100	<10	<100
	5/18/2016	0.60 J	<1	<1	<1	5.0	<5	60 J	<10	<100
	10/20/2016	<1	<1	<1	<1	2.0	<5	130	<10	<100
	6/26/2017	Destroyed - Paved Over								
MW-55	4/3/2014	10	1	3.5	<1	24	3.9	98	6.400	<100
	11/11/2014	Unable to Locate								
	5/28/2015	1000	40	410	260	190	180	1700	15	<100
	11/4/2015	640	64	200	230	160	120	1200	11	56
	5/18/2016	950	44	320	210	220	130	2600	15	<100
	10/21/2016	1500	310	860	1100	210	240	6000	43	370
	6/27/2017	200	2.9	53	20	100	50	2000	15	<100
MW-56	4/3/2014	<1	<1	<1	<1	<1	<5	50	<10	<100
	11/11/2014	Unable to Locate								
	5/28/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/21/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-58	4/2/2014	Abandoned								
	11/11/2014									
	5/29/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/15/2016	Not Sampled due to Obstruction								
	10/19/2016									
	6/27/2017									
MW-59	4/2/2014	28	2.8	300	6.4	130	45	2600	42	160
	11/11/2014	81	3.6	730	14	91	96	4500	27	<100
	5/28/2015	1400	23	1100	620	89	290	3900	34	<100
	11/4/2015	1300	48	440	850	58	250	2800	19	<100
	5/18/2016	1900	51	950	760	96	260	4300	28	<100
	10/20/2016	2400	61	1400	2300	62	390	10000	63	300
	6/28/2017	2400	77	2000	3400	43	490	3600	32	<100
MW-60	4/2/2014	Unable to Locate								
	11/11/2014									
	5/29/2015									
	11/3/2015									
	5/15/2016									
	10/19/2016									
	6/26/2017									

Table 2

Facility Name: Handy Pantry #65 / University Mart & Clouds Chevron — UST — 07584 / 07777 / 12352

Address: 2367 Taylor Street Columbia, South Carolina — Crawford Project No. — 7.0547

Groundwater Laboratory Analytical Result Summary

Well ID:	Date:	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphthalene	TAA	TAME	TBA
MW-62	4/1/2014	0.86	<1	<1	<1	3	3.3	260	<10	<100
	11/12/2014	51	<1	<1	0.93	2.6	65	730	<10	<100
	5/29/2015	1.50-Feet of Free Product								
	12/17/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/15/2016	Not Sampled due to Obstruction								
	10/19/2016	Not Sampled due to Obstruction								
	6/27/2017	1.6	<1	<1	<1	0.69 J	2.4 J	93 J	<10	<100
MW-63	4/2/2014	<1	<1	<1	<1	<1	5	120	<10	<100
	11/12/2014	Unable to Locate								
	5/29/2001	0.01-Feet of Free Product								
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/20/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-65	4/2/2014	Unable to Locate - Paved over								
	11/11/2014									
	5/29/2015									
	11/3/2015									
	5/15/2016									
	10/19/2016									
	6/26/2017									
MW-67	4/1/2014	<1	<1	<1	<1	<1	5	<100	<10	<100
	11/12/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/2/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/20/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-70	4/2/2014	<1	<1	<1	<1	<1	5	<100	<10	<100
	11/11/2014	<1	<1	<1	<1	<1	1.5	<100	<10	<100
	5/28/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	<1	<1	<1	0.44 J	<1	<5	<100	<10	<100
	10/20/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-5AR	4/1/2014	12000	13000	2400	13000	70	1000	<5000	160.000	<5000
	11/13/2014	830	180	98	670	13	130	<100	13.000	<100
	5/28/2015	2500	1200	280	1300	43	460	650	52.000	<100
	11/3/2015	5200	10000	810	5300	<100	580	<10000	<1000	<10000
	5/15/2016	7000	6400	1200	8000	<100	890	<10000	<1000	<10000
	10/21/2016	6300	3000	1100	7200	<50	1100	<5000	<500	<5000
	6/27/2017	1900	92	330	1400	2.3	390	220	13	<100
PW-1R	4/3/2014	460	3400	320	9200	<50	<250	710	<500	<5000
	11/13/2014	850	6900	580	18000	<50	1300	<5000	<500	<5000
	5/29/2015	0.01-Feet of Free Product								
	11/3/2015	830	20000	1200	14000	<500	600	<50000	<5000	<50000
	5/18/2016	210	1200	170	3200	6.8	200	380	<10	<100
	10/21/2016	410	5900	440	7200	<20	320	1900 J	<200	<2000
	6/28/2017	380	7900	510	9100	<50	320	<5000	<500	<5000
DW-1	4/2/2014	0.45	1.2	1.7	7.2	<1.0	<5.0	<100	<10	<100
	11/10/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/29/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/16/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/21/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/28/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
DW-2	4/2/2014	<1.0	<1.0	<1.0	<1.0	7.1	4.1	<100	<10	<100
	11/11/2014	<1	<1	<1	<1	10	<5	<100	<10	<100
	5/29/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	8.7	<5	<100	<10	<100
	5/16/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/21/2016	<1	<1	<1	<1	2.9	<5	<100	<10	<100
	6/28/2017	<1	<1	<1	<1	2.4	<5	<100	<10	<100

Table 2

Facility Name: Handy Pantry #65 / University Mart & Clouds Chevron — UST — 07584 / 07777 / 12352
Address: 2367 Taylor Street Columbia, South Carolina — Crawford Project No. — 7.0547

Groundwater Laboratory Analytical Result Summary

Well ID:	Date:	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphthalene	TAA	TAME	TBA
DW-3	4/3/2014	9800	22000	3700	17000	990	780	10000	190	<5000
	11/13/2014	2000	20000	2800	10000	23	650	2700	<20	<140
	5/28/2015	310	4000	79	3100	6.5	130	750	<10	<100
	11/3/2015	4300	16000	2300	11000	230	800	2600	50	<2000
	5/18/2016	2600	10000	1400	8200	160	410	<5000	<500	<5000
	10/21/2016	4200	8300	1800	5200	240	450 J	8200 J	<1000	<10000
	6/28/2017	3400	8600	1600	5200	120	310	3400 J	370 J	<5000
DW-4	4/3/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/13/2014	<1	1	<1	<1	<1	<5	<100	<10	<100
	6/2/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/3/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/21/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/28/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
DW-5	4/1/2014	3300	68	37	1000	940	81	4300	83	<100
	11/12/2014	6700	380	240	3100	1400	190	5300	110	<100
	5/28/2015	6900	660	420	3800	1200	290	6300	<500	<5000
	11/4/2015	5900	490	200	1800	1100	170	4800	89	<100
	5/16/2016	9200	1600	750	5300	1400	470	4300	95 J	<100
	10/25/2016	5700	1200	460	2800	1000	200 J	17000	<1000	<10000
	6/28/2017	5200	1400	380	2400	890	130 J	7200	390 J	<5000
DW-6	4/1/2014	8.5	1.2	1.6	7.2	3	5	<100	<10	<100
	11/12/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/2/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/25/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/28/2017	<1	<1	0.37 J	<1	<1	<5	<100	<10	<100
DW-7	4/3/2014	0.52	0.46	<1.0	1.4	2.6	4.2	<100	<10	<100
	11/11/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/28/2015	<1	<1	<1	<1	1.2	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/21/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/26/2017	Destroyed - Paved Over								
DW-8	4/2/2014	Abandoned								
	11/11/2014									
	5/29/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	Not Sampled due to Obstruction								
	10/21/2016	Not Sampled due to Obstruction								
	6/26/2017	Not Sampled due to Obstruction								
DW-9	4/2/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/11/2014	<1	2.8	<1	<1	<1	<5	<100	<10	<100
	5/28/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	<1	42	<1	<1	<1	<5	<100	<10	<100
	10/21/2016	<1	<1	<1	<1	3.1	<5	<100	<10	<100
	6/28/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
SW-1	4/2/2014	180	8.4	30	53	42	6.5	350	9.500	100
	11/12/2014	Unable to Access - Overgrown Brush								
	5/28/2015	230	18	89	160	30	24	590	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	44	<10	<100
	5/18/2016	130	18	53	92	12	16	430	<10	<100
	10/19/2016	Unable to Access - Overgrown Brush								
QUALITY CONTROL DATA										
MW-35 (Dup 1)	6/27/2017	3000	3600	2400	4600	59	800	3000	35	<100
MW-23 (Dup 2)	6/27/2017	400	1700	76	4100	6.2	370	980	9.9 J	<100
MW-45 (Dup 3)	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-55 (Dup 4)	6/27/2017	310	4.7	87	28	110	69	2000	15	<100
PW-1R (Dup 5)	6/28/2017	400	9800	650	11000	<50	370	<5000	<500	<5000
Trip Blank	6/29/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100

BDL= Below Detectable Limit
RBSL= Risk Based Screening Levels
NE= Not Established

CRAWFORD ENVIRONMENTAL SERVICES

1,2 DCA = 1,2 Dichloroethane
J = Estimated value detected below reporting limit

Table 3

Facility Name:	Handy Pantry #65 / University Mart & Clouds Chevron	UST	07584 / 07777 / 12352
Address:	2367 Taylor Street Columbia, South Carolina	Crawford Project No.	7.0647

Site Specific Target Level Summary

Well ID	Item	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphth	TAA	TAME	TBA	Total	Notes
MW-2	Initial	140.0	280.0	56.0	460.0	380.0	54.0	200.0	9.2	140.0	1719.2	
	SSTL	77.0	280.0	56.0	460.0	380.0	64.0	200.0	9.2	140.0	1656.2	
	Initial > SSTL	63.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63.0	
	Subsequent	190.00	5.60	140.00	840.0	370.0	140.0	190.0	14.0	100.0	1789.6	
	SSTL	77.0	280.0	56.0	460.0	380.0	64.0	200.0	9.2	140.0	1656.2	
	Subsequent > SSTL	113.0	0.0	84.0	180.0	0.0	86.0	0.0	4.8	0.0	467.8	
MW-3	Initial	3000.0	7400.0	260.0	4500.0	3300.0	260.0	2000.0	340.0	1300.0	22360.0	
	SSTL	111.0	7400.0	260.0	4500.0	1976.0	108.0	2000.0	340.0	1300.0	17995.0	
	Initial > SSTL	2889.0	0.0	0.0	0.0	1324.0	152.0	0.0	0.0	0.0	4365.0	
	Subsequent	3900.0	13000.0	1100.0	10000.0	370.0	560.0	1600.0	210.0	1000.0	31140.0	
	SSTL	111.0	7400.0	260.0	4500.0	1976.0	108.0	2000.0	340.0	1300.0	17995.0	
	Subsequent > SSTL	3789.0	5600.0	840.0	5500.0	0.0	452.0	0.0	0.0	0.0	18181.0	
MW-5	Initial	50.0	50.0	50.0	30.5	946.0	50.0	1000.0	100.0	1000.0	3276.5	
	SSTL	50.0	50.0	50.0	30.5	946.0	50.0	1000.0	100.0	1000.0	3276.5	
	Initial > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Dry 6/26/2017 - Results from 5/16/2018
	Subsequent	0.28	1.0	1.0	1.0	1.0	5.0	100.0	10.0	100.0	219.3	
	SSTL	50.0	50.0	50.0	30.5	946.0	50.0	1000.0	100.0	1000.0	3276.5	
	Subsequent > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MW-9	Initial	4100.0	27000.0	2500.0	19000.0	150.0	980.0	1600.0	2000.0	20000.0	77330.0	
	SSTL	35.0	7134.0	2500.0	19000.0	150.0	68.0	809.0	270.0	15628.0	45594.0	
	Initial > SSTL	4065.0	19866.0	0.0	0.0	0.0	892.0	791.0	1730.0	4372.0	31716.0	NS June 2017 - Results from 10/21/2016
	Subsequent	60	1800	730	3800	1	210	550	10	100	6961.0	
	SSTL	35.0	7134.0	2500.0	19000.0	150.0	68.0	809.0	270.0	15628.0	45594.0	
	Subsequent > SSTL	0.0	0.0	0.0	0.0	0.0	142.0	0.0	0.0	0.0	142.0	
MW-10	Initial	740.0	7800.0	2500.0	15000.0	2500.0	950.0	50000.0	5000.0	50000.0	134490.0	
	SSTL	24.0	7800.0	2500.0	15000.0	264.0	63.0	793.0	707.0	11042.0	38213.0	
	Initial > SSTL	716.0	0.0	0.0	0.0	2236.0	887.0	49207.0	4293.0	38958.0	96277.0	
	Subsequent	27	3.3	17	69	1	120	100	10	100	437.3	
	SSTL	24.0	7800.0	2500.0	15000.0	264.0	63.0	793.0	707.0	11042.0	38213.0	
	Subsequent > SSTL	3.0	0.0	0.0	0.0	0.0	57.0	0.0	0.0	0.0	70.0	
MW-12	Initial	1.7	5.0	11.0	5.0	5.8	4.7	370.0	1.5	19.0	423.5	
	SSTL	1.7	5.0	11.0	5.0	5.8	4.7	370.0	1.5	19.0	423.5	
	Initial > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	NS June 2017 - Results from 10/20/2016
	Subsequent	180	18	420	300	13	110	4000	10	100	5151.0	
	SSTL	1.7	5.0	11.0	5.0	5.8	4.7	370.0	1.5	19.0	423.5	
	Subsequent > SSTL	178.3	13.0	409.0	295.0	7.4	105.3	3630.0	8.5	81.0	4727.5	
MW-16	Initial	Free Product										
	SSTL	16.0	3196.0	3700.0	21680.0	730.0	45.0	492.0	199.0	5838.0	35896.0	
	Initial > SSTL											
	Subsequent	1.0	300.0	320.0	7600.0	1.0	880.0	100.0	10.0	100.0	9212.0	
	SSTL	16.0	3196.0	3700.0	21680.0	730.0	45.0	492.0	199.0	5838.0	35896.0	
	Subsequent > SSTL	0.0	0.0	0.0	0.0	0.0	835.0	0.0	0.0	0.0	835.0	

Table 3

Facility Name:	Handy Pantry #65 / University Mart & Clouds Chevron	UST	07584 / 07777 / 12352
Address:	2367 Taylor Street Columbia, South Carolina	Crawford Project No.	7.0647

Site Specific Target Level Summary

Well ID:	Item	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphth	TAA	TAME	TBA	Total	
MW-17	Initial	1400.0	28000.0	2500.0	23000.0	1000.0	1000.0	9400.0	2000.0	20000.0	88300.0	
	SSTL	32.0	6631.0	2600.0	21680.0	1000.0	66.0	773.0	263.0	14286.0	47231.0	
	Initial > SSTL	1368.0	19369.0	0.0	1320.0	0.0	934.0	8627.0	1737.0	5714.0	39069.0	
	Subsequent	10	5.8	190	26	1	190	100	10.0	100	632.9	
	SSTL	32.0	6631.0	2600.0	21680.0	1000.0	66.0	773.0	263.0	14286.0	47231.0	
	Subsequent > SSTL	0.0	0.0	0.0	0.0	0.0	124.0	0.0	0.0	0.0	124.0	
MW-18	Initial	1900.0	7200.0	630.0	8300.0	340.0	370.0	4900.0	70.0	5000.0	28710.0	
	SSTL	40.0	19326.0	3700.0	21680.0	4280.0	348.0	938.0	4869.0	54462.0	109743.0	
	Initial > SSTL	1860.0	0.0	0.0	0.0	0.0	22.0	3962.0	0.0	0.0	5844.0	
	Subsequent	310	1800	300	4100	6.3	140	190	10.00	100	6956.3	
	SSTL	40.0	19326.0	3700.0	21680.0	4280.0	348.0	938.0	4869.0	54462.0	109743.0	
	Subsequent > SSTL	270.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	270.0	
MW-19	Initial	300.0	1800.0	490.0	12000.0	60.0	900.0	610.0	600.0	5000.0	21860.0	
	SSTL	54.0	11081.0	3700.0	21680.0	16080.0	86.0	1066.0	320.0	26814.0	80880.0	
	Initial > SSTL	246.0	0.0	0.0	0.0	0.0	814.0	0.0	180.0	0.0	1240.0	
	Subsequent	3200	21000	1100	20000	130	950	6700	1000.00	10000	64080.0	
	SSTL	54.0	11081.0	3700.0	21680.0	16080.0	86.0	1066.0	320.0	26814.0	80880.0	
	Subsequent > SSTL	3146.0	9919.0	0.0	0.0	0.0	864.0	5635.0	680.0	0.0	20244.0	
MW-20	Initial	412.0	2930.0	728.0	8820.0	88.7	917.0	2850.0	200.0	2000.0	18945.7	
	SSTL	83.0	2930.0	728.0	8820.0	88.7	106.0	1403.0	200.0	2000.0	16360.7	
	Initial > SSTL	329.0	0.0	0.0	0.0	0.0	709.0	1447.0	0.0	0.0	2485.0	
	Subsequent	390.0	10000.0	2000.0	26000.0	80.0	1500.0	2500.0	500.0	5000.0	47970.0	
	SSTL	83.0	2930.0	728.0	8820.0	88.7	106.0	1403.0	200.0	2000.0	16360.7	
	Subsequent > SSTL	307.0	7070.0	1272.0	17180.0	0.0	1392.0	1097.0	300.0	3000.0	31618.0	
MW-22	Initial	3300.0	17000.0	2900.0	20000.0	1000.0	840.0	6200.0	130.0	20000.0	71170.0	
	SSTL	95.0	17000.0	2900.0	20000.0	1000.0	112.0	1468.0	130.0	20000.0	62701.0	
	Initial > SSTL	3210.0	0.0	0.0	0.0	0.0	728.0	4731.0	0.0	0.0	8469.0	
	Subsequent	2100	13000	1100	19000	900	2500	50000	9000.00	90000	186200.0	
	SSTL	95.0	17000.0	2900.0	20000.0	1000.0	112.0	1468.0	130.0	20000.0	62701.0	
	Subsequent > SSTL	2010.0	0.0	0.0	0.0	0.0	2388.0	48531.0	4870.0	30000.0	87799.0	
MW-23	Initial	4200.0	19000.0	680.0	19000.0	120.0	1100.0	5900.0	500.0	5000.0	52700.0	
	SSTL	72.0	14880.0	3700.0	21680.0	33368.0	100.0	1279.0	359.0	38475.0	113913.0	
	Initial > SSTL	4128.0	1120.0	0.0	0.0	0.0	1000.0	4621.0	141.0	0.0	11010.0	
	Subsequent	400	1500	120	3800	6.3	370	1000	10	100	7306.3	
	SSTL	72.0	14880.0	3700.0	21680.0	33368.0	100.0	1279.0	359.0	38475.0	113913.0	
	Subsequent > SSTL	328.0	0.0	0.0	0.0	0.0	270.0	0.0	0.0	0.0	598.0	
MW-25	Initial	5000.0	3000.0	1900.0	23000.0	5000.0	5000.0	100000.0	10000.0	100000.0	252900.0	
	SSTL	104.0	3000.0	1900.0	23000.0	5000.0	121.0	1612.0	415.0	60494.0	95646.0	
	Initial > SSTL	4896.0	0.0	0.0	0.0	0.0	4879.0	98388.0	9585.0	39506.0	157254.0	NS June 2017 - Results from 10/19/2016
	Subsequent	8.8	120	230	3400	1	450	100	10	100	4419.8	
	SSTL	104.0	3000.0	1900.0	23000.0	5000.0	121.0	1612.0	415.0	60494.0	95646.0	
	Subsequent > SSTL	0.0	0.0	0.0	0.0	0.0	329.0	0.0	0.0	0.0	329.0	

Facility Name:	Handy Pantry #65 / University Mart & Clouds Chevron	UST	07584 / 07777 / 12352
Address:	2367 Taylor Street Columbia, South Carolina	Crawford Project No.	7.0647

Site Specific Target Level Summary

Well ID	Item	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphth	TAA	TAME	TBA	Total	
MW-31	Initial	57.0	90.0	520.0	250.0	12.0	210.0	510.0	50.0	500.0	2199.0	
	SSTL	51.0	90.0	520.0	250.0	12.0	210.0	510.0	50.0	500.0	2193.0	
	Initial > SSTL	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	
	Subsequent	1.0	1.0	1.0	1.0	1.0	5.0	100.0	10.0	100.0	220.0	
	SSTL	51.0	90.0	520.0	250.0	12.0	210.0	510.0	50.0	500.0	2193.0	
	Subsequent > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MW-33	Initial	520.0	7200.0	1500.0	7200.0	500.0	410.0	3200.0	1000.0	10000.0	31530.0	
	SSTL	53.0	7200.0	1500.0	7200.0	500.0	410.0	1138.0	1000.0	10000.0	28999.0	
	Initial > SSTL	467.0	0.0	0.0	0.0	0.0	0.0	2064.0	0.0	0.0	2531.0	
	Subsequent	60	250	100	1450	1	210	860	10.00	100	3011.0	
	SSTL	53.0	7200.0	1500.0	7200.0	500.0	410.0	1138.0	1000.0	10000.0	28868.0	
	Subsequent > SSTL	27.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.0	
MW-35	Initial	4400.0	2000.0	1700.0	3600.0	300.0	590.0	5300.0	51.0	5000.0	22831.0	
	SSTL	56.0	2000.0	1700.0	3600.0	300.0	542.0	1181.0	51.0	5000.0	14330.0	
	Initial > SSTL	4344.0	0.0	0.0	0.0	0.0	38.0	4119.0	0.0	0.0	8501.0	
	Subsequent	3100	3600	2400	4700	58	790	3000	29	100	17665.0	
	SSTL	56.0	2000.0	1700.0	3600.0	300.0	542.0	1181.0	51.0	5000.0	14330.0	
	Subsequent > SSTL	3044.0	1600.0	700.0	1200.0	0.0	238.0	1819.0	0.0	0.0	8801.0	
MW-37	Initial	240.0	34.0	270.0	240.0	11.0	220.0	850.0	50.0	44.0	1959.0	
	SSTL	90.0	34.0	270.0	240.0	11.0	220.0	850.0	50.0	44.0	1809.0	
	Initial > SSTL	150.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	150.0	
	Subsequent	1	1	1	1	1	5	100	10	100	220.0	
	SSTL	90.0	34.0	270.0	240.0	11.0	220.0	850.0	50.0	44.0	1809.0	
	Subsequent > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MW-39	Initial	13.0	1300.0	460.0	4200.0	250.0	330.0	5000.0	500.0	5000.0	17053.0	
	SSTL	13.0	1300.0	460.0	4200.0	250.0	330.0	1607.0	500.0	5000.0	13660.0	
	Initial > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	3393.0	0.0	0.0	3393.0	
	Subsequent	1	1	1	1	1	5	100	10	100	220.0	
	SSTL	13.0	1300.0	460.0	4200.0	250.0	330.0	1607.0	500.0	5000.0	13660.0	
	Subsequent > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MW-40	Initial	290.0	2900.0	650.0	7100.0	500.0	530.0	10000.0	1000.0	10000.0	32970.0	
	SSTL	113.0	2900.0	650.0	7100.0	500.0	530.0	1875.0	1000.0	10000.0	24668.0	
	Initial > SSTL	177.0	0.0	0.0	0.0	0.0	0.0	8124.0	0.0	0.0	8301.0	
	Subsequent	22	5.1	600	98	1	480	100	10	100	1416.1	
	SSTL	113.0	2900.0	650.0	7100.0	500.0	530.0	1878.0	1000.0	10000.0	24669.0	
	Subsequent > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MW-41	Initial	260.0	1000.0	1100.0	1000.0	1000.0	420.0	20000.0	2000.0	20000.0	46780.0	
	SSTL	257.0	1000.0	1100.0	1000.0	1000.0	420.0	3234.0	2000.0	20000.0	30011.0	
	Initial > SSTL	3.0	0.0	0.0	0.0	0.0	0.0	16766.0	0.0	0.0	16769.0	
	Subsequent	1	1	1	1	1	5	100	10	100	220.0	
	SSTL	257.0	1000.0	1100.0	1000.0	1000.0	420.0	3234.0	2000.0	20000.0	30011.0	
	Subsequent > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

Table 3

Facility Name:	Handy Pantry #65 / University Mart & Clouds Chevron	UST	07584 / 07777 / 12352
Address:	2367 Taylor Street Columbia, South Carolina	Crawford Project No.	7.0647

Site Specific Target Level Summary

Well ID	Item	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphth	TAA	TAME	TBA	Total	
MW-54	Initial	5.0	5.0	5.0	5.0	5.0	5.0	100.0	10.0	100.0	240.0	NS June 2017 - Results from 10/20/2016
	SSTL	5.0	5.0	5.0	5.0	5.0	5.0	110.0	2.0	14.0	156.0	
	Initial > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	86.0	94.0	
	Subsequent	1	1	1	1	2	5	130	10	100	251.0	
	SSTL	5.0	5.0	5.0	5.0	5.0	5.0	110.0	2.0	14.0	156.0	
	Subsequent > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	20.0	8.0	86.0	114.0	
MW-88	Initial	4.8	25.0	20.0	25.0	93.0	11.0	1800.0	15.0	100.0	2093.8	NS June 2017 - Results from 11/4/2015
	SSTL	4.8	25.0	20.0	25.0	51.0	11.0	279.0	15.0	100.0	530.8	
	Initial > SSTL	0.0	0.0	0.0	0.0	42.0	0.0	1521.0	0.0	0.0	0.0	
	Subsequent	1	1	1	1	1	5	100	10	100	220.0	
	SSTL	1.0	1.0	1.0	1.0	1.0	5.0	100.0	10.0	100.0	220.0	
	Subsequent > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MW-85	Initial	420.0	398.0	234.0	262.0	16.4	168.0	648.0	50.0	500.0	2698.4	Unable to Locate - Paved Over
	SSTL	326.0	398.0	234.0	262.0	16.4	168.0	648.0	50.0	500.0	2602.4	
	Initial > SSTL	94.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Subsequent	Unable to Locate - Paved Over										
	SSTL	326.0	398.0	234.0	262.0	16.4	168.0	648.0	50.0	500.0	2602.4	
	Subsequent > SSTL	Unable to Locate - Paved Over										
MW-5AR	Initial	9200.0	1000.0	1400.0	4400.0	160.0	810.0	1300.0	1000.0	10000.0	29270.0	
	SSTL	83.0	1000.0	1400.0	4400.0	160.0	108.0	1300.0	381.0	10000.0	18832.0	
	Initial > SSTL	9117.0	0.0	0.0	0.0	0.0	702.0	0.0	619.0	0.0	10438.0	
	Subsequent	1900	92	330	3400	2.3	390	220	13.00	100	6447.3	
	SSTL	83.0	1000.0	1400.0	4400.0	160.0	108.0	1300.0	381.0	10000.0	18832.0	
	Subsequent > SSTL	1817.0	0.0	0.0	0.0	0.0	282.0	0.0	0.0	0.0	2099.0	
PW-1R	Initial	480.0	3400.0	320.0	9200.0	50.0	250.0	710.0	500.0	5000.0	19890.0	
	SSTL	58.0	11928.0	3700.0	21699.0	290.0	19288.0	1114.0	330.0	29344.0	87742.0	
	Initial > SSTL	422.0	0.0	0.0	0.0	0.0	0.0	0.0	170.0	0.0	592.0	
	Subsequent	380.0	7900.0	810.0	9100.0	80.0	320.0	5000.0	500.0	5000.0	28780.0	
	SSTL	58.0	11928.0	3700.0	21699.0	290.0	19288.0	1114.0	330.0	29344.0	87742.0	
	Subsequent > SSTL	322.0	0.0	0.0	0.0	0.0	0.0	3886.0	170.0	0.0	4378.0	
DW-3	Initial	2600.0	19000.0	2200.0	10000.0	1000.0	620.0	3600.0	2000.0	20000.0	61020.0	
	SSTL	45.0	8470.0	2200.0	10000.0	1000.0	620.0	3600.0	2000.0	20000.0	47936.0	
	Initial > SSTL	2555.0	10530.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13085.0	
	Subsequent	3400	8690	1600	5200	120	310	3400	370.000	5000	28000.0	
	SSTL	45.0	8470.0	2200.0	10000.0	1000.0	620.0	3600.0	2000.0	20000.0	47935.0	
	Subsequent > SSTL	3355.0	190.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3485.0	
SW-1	Initial	190.0	2.8	23.0	36.0	17.0	6.5	340.0	2.6	23.0	580.9	NS June 2017 - Results from 5/18/2016
	SSTL	5.0	2.8	23.0	36.0	17.0	6.5	240.0	2.6	23.0	356.9	
	Initial > SSTL	125.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	225.0	
	Subsequent	130	18	65	62	12	16	430	10	100	851.0	
	SSTL	5.0	2.8	23.0	36.0	17.0	6.5	240.0	2.6	23.0	356.9	
	Subsequent > SSTL	125.0	15.2	30.0	56.0	0.0	9.5	190.0	7.4	77.0	510.1	

SSTL = Site Specific Target Level
RBSL= Risk Based Screening Levels
MBE= Methyl Tert-Butyl Ether
n/a = not applicable
0.0 - Excluded from Calculations

CRAWFORD ENVIRONMENTAL SERVICES

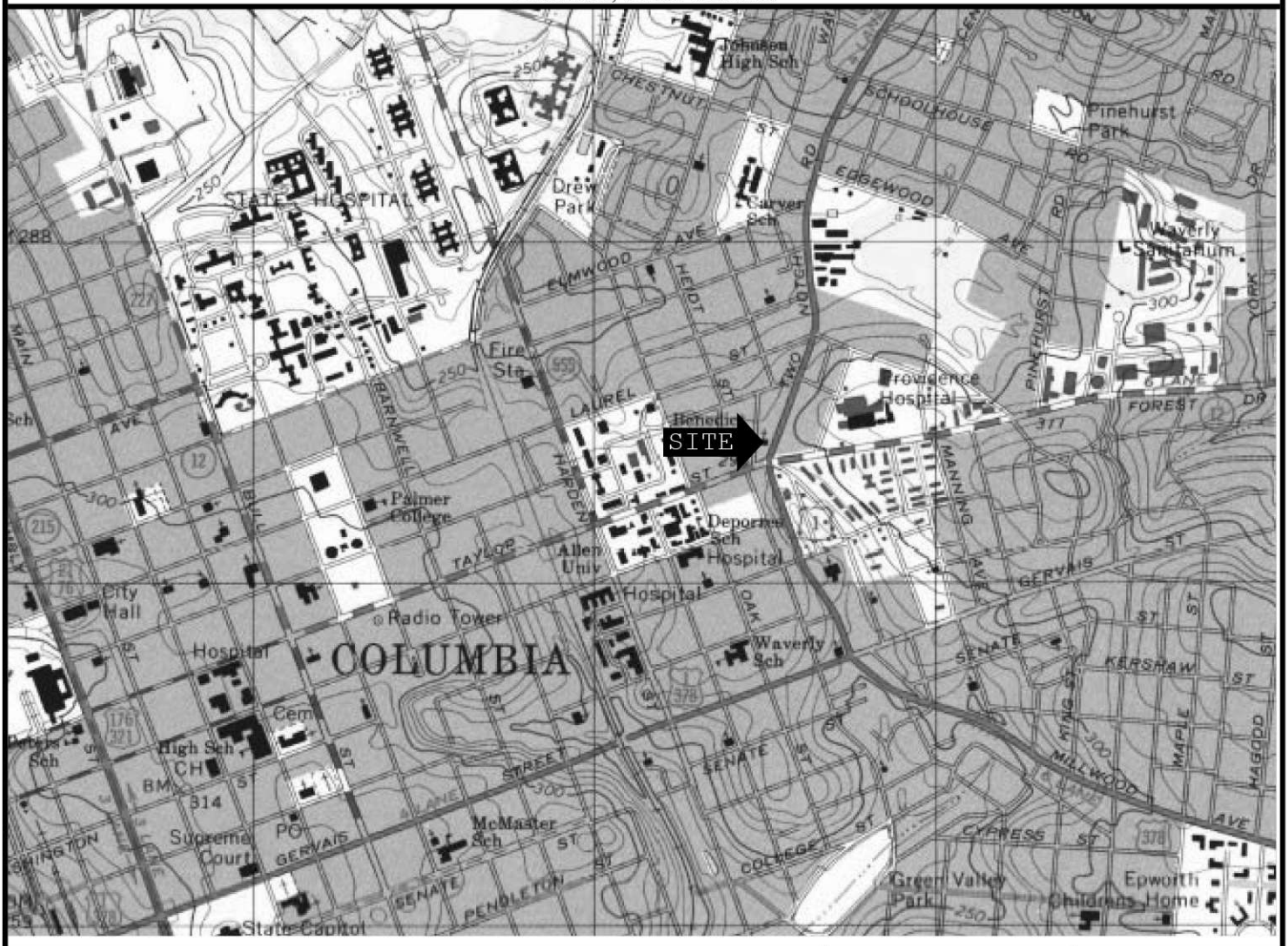
Initial>SSTL	421858.00
Subsequent>SSTL	181984.40
COC Reduction	56.85%

Figures

Figure 1: Topographic Map
Figure 2: Site Facility Base Map
Figure 3: Chemicals of Concern Map
Figure 4: Groundwater Elevation Map

FIGURE 1

Site Location Map
Handy Pantry #65 / University Mart / Clouds Chevron
Intersection of Taylor Street and Two Notch Road
Columbia, South Carolina



CRAWFORD ENVIRONMENTAL SERVICES

1701 Shenandoah Avenue, NW
Roanoke Virginia, 24017

540-343-6256 (office) 540-343-6259 (fax)

NORTH COLUMBIA, SOUTH CAROLINA

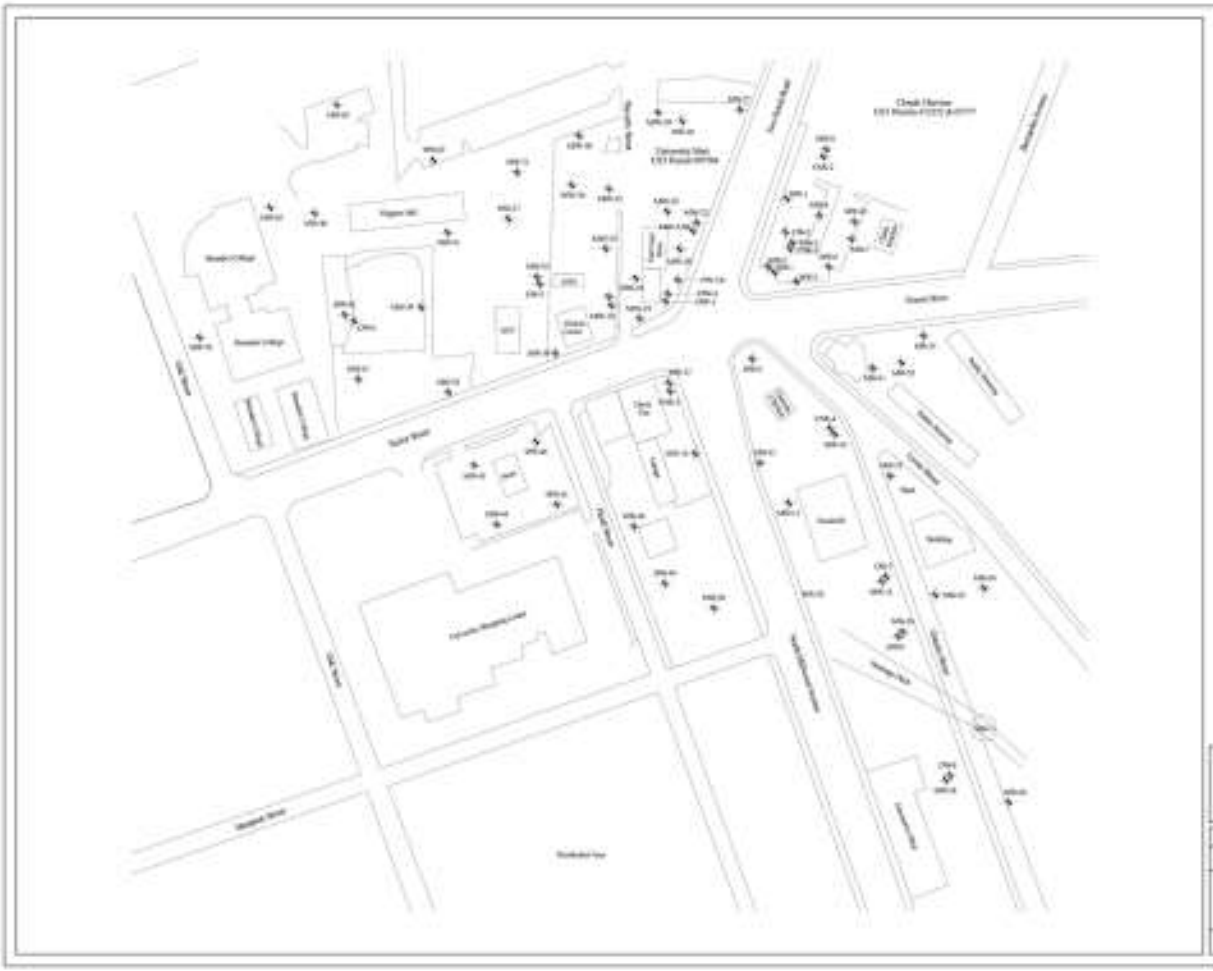
Source: U.S.G.S. Topographic Map of the Columbia North Quadrangle, Virginia, 7.5 Minute Series (1977, revised 1988)
Scale: 1:24,000 Contour Interval: 20 Feet
Vertical Datum: National Geodetic Vertical Datum 1929
Horizontal Datum: North American Datum1927

Project: CASE Report

Client: SCDHEC

CES Job #: 7.0547

Latitude:
034°00'42.72"N
Longitude:
081°01'00.13"W



Legend

Monitoring Well (MW) Location

N

0 75' 150' 300'

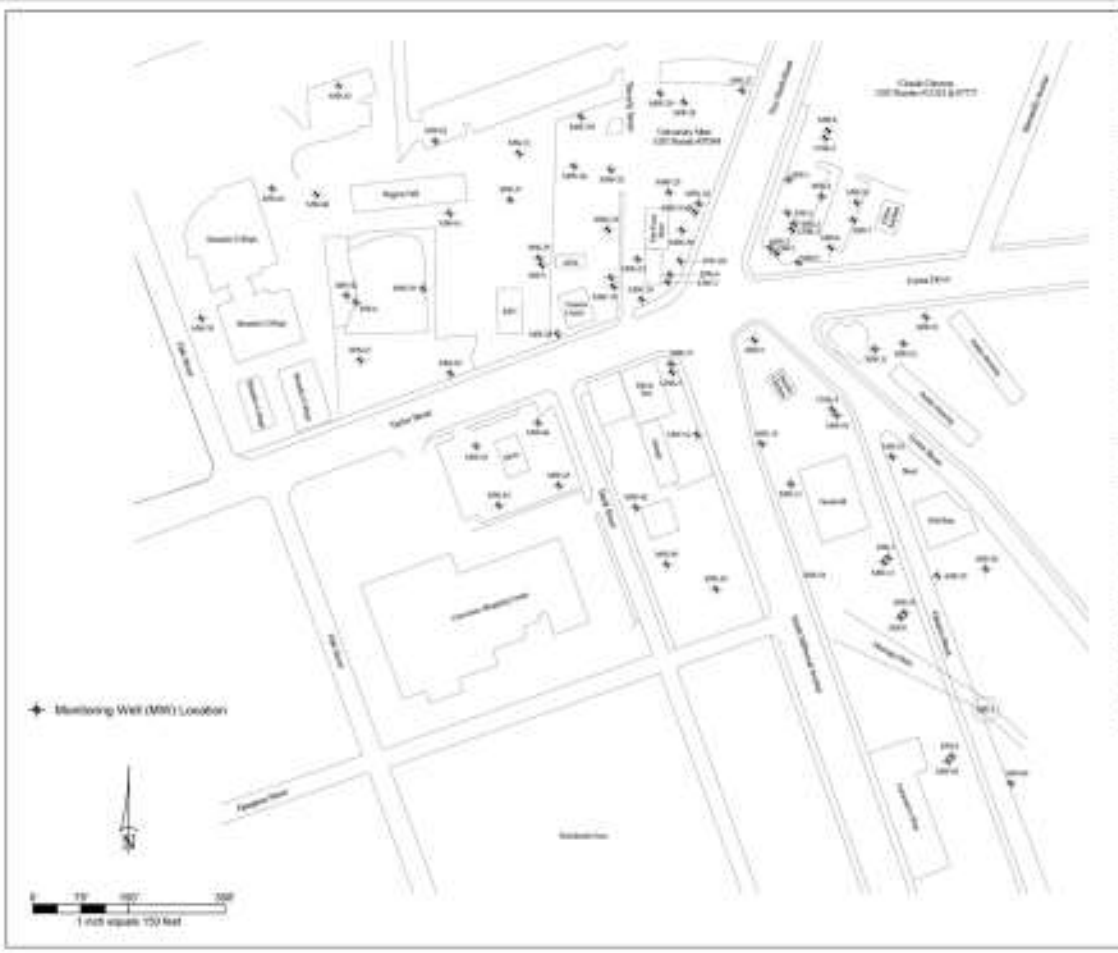
1 inch equals 150 feet

CRAWFORD ENVIRONMENTAL SERVICES

Figure 2

Cloud's Chevron
Site Facility Base Map

June 2017 Case Report



Groundwater Laboratory Analytical Result Summary

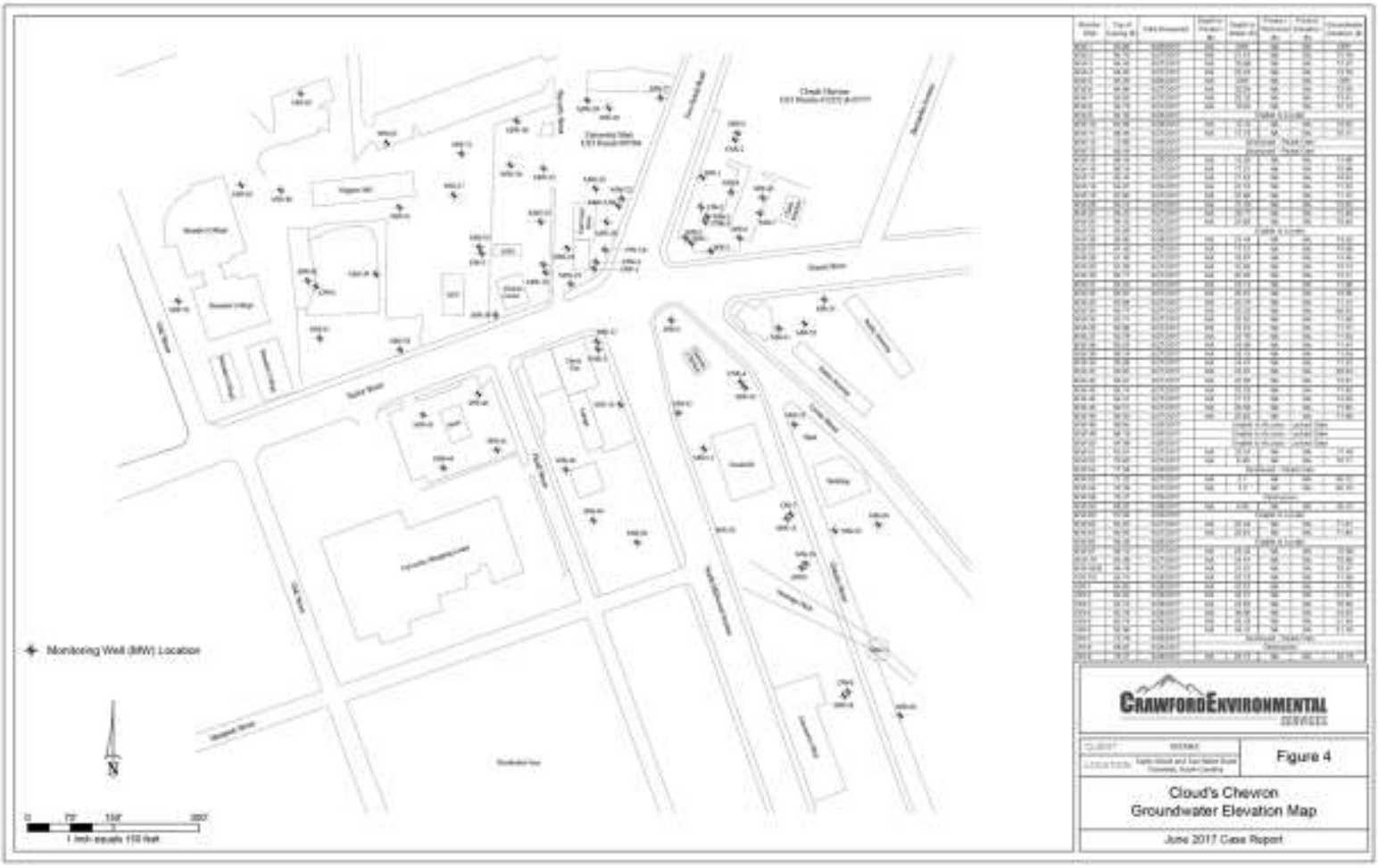
CRAWFORD ENVIRONMENTAL SERVICES

CLIENT:	[illegible]
LOCATION:	[illegible]

Figure 3

Cloud's Chevron
Groundwater Chemicals of Concern Map

June 2017 Case Report



CRAWFORD ENVIRONMENTAL SERVICES

Figure 4

Cloud's Chevron
Groundwater Elevation Map

June 2017 Case Report

Appendix A

Groundwater Laboratory Analytical Report

&

Chain-of-Custody Documentation

ACCESS ANALYTICAL, INC.

ANALYTICAL REPORT

CLIENT

Crawford Environmental Services
15 Church Ave, SW
Roanoke VA 24011

ATTENTION
Dan Fisher

PROJECT ID
Clouds Exxon

LABORATORY REPORT NUMBER
1706R80

DATE
July 07, 2017

Primary Data Review By

Chris Pafford
Project Manager, AES

Secondary Data Review By

Ashley Amick
Project Manager, Access Analytical
aamick@axs-inc.com

PLEASE NOTE:

- **Unless otherwise noted, all analysis on this report performed at Analytical Environmental Services Inc. (AES Inc), 3080 Presidential Drive, Atlanta, GA 30340.**
- **AES is SCDHEC certified laboratory # 98016, NCDENR certified lab # 562, GA certified lab # FL-E87582, NELAP certified laboratory # E87582**
- Local support services for this project are provided by Access Analytical, Inc. Access Analytical is a representative of AES serving client in the SC/NC/GA areas. All questions regarding this report should be directed to your local Access Analytical representative at 803.781.4243 or toll fee at 883.315.4243

Access Analytical - Chain of Custody Record

LAB USE ONLY

Sales Order # _____ PO # _____ Access Quote # _____

Project Work Order # 1706R80

Laboratory ID: _____

Company Name: CRAWFORD ENVIRONMENTAL

Report To: DAN Fisher

Address: 1701 Shenandoah Ave

City: Roanoke State: VA Zip: 24011

Phone: 540-343-6256 Fax: 540-3436259

Email: DFisher@crawfordenvironmental.com

Project ID: Clouds Exxon

Sampled By: Billy Ewing

Preservative (*see codes): 2

Container Type (*see codes): G

REQUESTED LAB ANALYSIS: BTEX/N/M/MT BE/oxyB

ACCESS ANALYTICAL, INC.

7478 Carlisle Street
Irmo, SC 29063

Phone: (803) 781-4243
Fax: 781-4303

www.axs-inc.com

*Preservative Codes (place corresponding # in block above analysis field): 0 = None, 1 = HCL, 2 = HNO3, 3 = H2SO4, 4 = NaOH, 5 = Na2S2O3, 6 = Method 8038 set w/ NaHSO4 & ONOH, 7 = NaOH/ZnOAC, 8 = H3PO4

*Matrix Codes (place corresponding code in matrix column): DW = ground water, WW = waste water, DW = drinking water, S = soil, SL = sludge, A = air, IW = industrial waste, WO = waste oil, OT = other (specify in comments section)

*Program Area Codes: CWA = Clean Water Act (for wastewaters), SDWA = Safe Drinking Water Act (for drinking waters), SHW = Solid and Hazardous Wastes (for soils, ground waters and waste samples)

*Container Type: G = Glass, P = Plastic

Sample ID/Description	Date Collected:	Time Collected:	Type: (grab or composite)	Matrix (see codes)	Program Area (see codes)	TOTAL # of containers	BTEX/N/M/MT BE/oxyB	NOTES / COMMENTS (If sample is a composite please use space below to note manifolds times & dates)
mw 15	6-28-17	750	G	GW	UST	3	3	
mw 59		800						
mw 10.		740						
mw 26		730						
DW 9.		825						
DW -1		855						
DW -2.		935						
DW -3		1005						
DW -4.		1050						
PW 1R		1115						

Turnaround Time:

X Standard
___ RUSH*
*Date Required: _____
(For rush work, results emailed/faxed by end of business day on date required)

Project Location:
X SC
___ NC
___ Other
(specify) _____

Relinquished By:	Received By:	Date (mm-dd-yy)	Time (hh:mm)	Samples Rec'd on Ice	Sample Temp. Upon Receipt (°C)	
[signature]	JHS	6-28-17	1420	✓Y ___N	1.0 (°C)	___(N/A)
JHS	FedEx	6-28-17	1700	✓Y ___N	___(°C)	___(N/A)
	[signature] (FedEx)	6/29/17	10:25AM	✓Y ___N	4.8 (°C)	___(N/A)
				___Y ___N	3.4 (°C)	___(N/A)

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LAB USE ONLY

Sales Order #: _____ PO #: _____ Access Quote #: _____ Project Work Order #: 170085

Laboratory ID: _____

Company Name: Crawford Engineering — Preservative (*see codes): 2 — Container Type (*see codes): G

Report To: D Fisher

Address:

City: State: Zip:

Phone: Fax:

Email:

Project ID: Clouds Ferry

Sampled By: BF

1. REQUESTED LAB ANALYSIS: BTEX/MTBE/naphthalene

| Sample ID/Description | Date Collected | Time Collected | Type (grab = G, composite = C) | Matrix (see codes) | Program (RCRA, CWA, SDWA, other) | TOTAL # of containers | | |

LAB USE ONLY

Access Analytical - Chain of Custody Record

Project Work Order # 1706R80

Sales Order # _____ PO # _____ Access Quote # _____ Laboratory ID: _____

Company Name: CRAW FORD EXVIRO

Report To: D Fisher

Address:

City: State: Zip:

Phone: Fax:

Email:

Project ID: Clouds Exxon

Sampled By: B.E.

Preservative (*see codes): 2

Container Type (*see codes): 2

↓ REQUESTED LAB ANALYSIS: ↓ BTEX/N/M/MTBE/OXYS

ACCESS ANALYTICAL, INC.

7478 Carlisle Street
Irmo, SC 29063

Phone: (803) 781-4243
Fax: 781-4303

www.aas-inc.com

*Preservative Codes (place corresponding # in block above analysis field): 0 = None, 1 = HCL, 2 = HNO3, 3 = H2SO4, 4 = NaOH, 5 = Na2S2O3, 6 = Method 5035 set w/ NaHSO4 & CH3OH, 7 = NaOH/ZnOAC, 8 = H3PO4

*Matrix Codes (place corresponding code in matrix column): GW = ground water, WW = waste water, DW = drinking water, S = soil, SL = sludge, A = air, WI = industrial waste, WO = waste oil, OT = other (specify in comments section)

*Program Area Codes: CWA = Clean Water Act (for wastewater), SDWA = Safe Drinking Water Act (for drinking water), SHW = Solid and Hazardous Wastes (for soils, ground waters and waste samples)

*Container Type: G = Glass, P = Plastic

Sample ID/Description	Date Collected:	Time Collected:	Type: (grab or composite)	Matrix: (see codes)	Program Area (see codes)	TOTAL # of containers	BTEX/N/M/MTBE/OXYS	NOTES / COMMENTS (If sample is a composite please use space below to note start/finish times & dates)
mw 8	5-27-17	1350	G	GW	OT	3	3	
mw 4		1340						
mw 3		1330						
mw 6		1250						
mw 2		1320						
mw 7		1240						
mw 45		1230						
mw 44		1220						
mw 43		1210						
mw 46		1200						

Turnaround Time:

X Standard
___ RUSH*
*Date Required: _____
(For rush work, results emailed/faxed by end of business day on date required)

Project Location:

X SC
___ NC
___ Other
(specify) _____

Relinquished By:	Received By:	Date (mm-dd-yy)	Time (hours)	Samples Rec'd on Ice	Sample Temp. Upon Receipt (°C)	
[signature]	JHS	6-28-17	1420	✓ Y ___ N	1.0 (°C)	___ (N/A)
JHS	FedEx	6-28-17	1700	✓ Y ___ N	___ (°C)	___ (N/A)
	[signature]	6/29/17	10:25AM	✓ Y ___ N	4.8 (°C)	___ (N/A)
	(FedEX)			___ Y ___ N	3.4 (°C)	___ (N/A)

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Access Analytical - Chain of Custody Record

LAB USE ONLY

Sales Order # _____ PO # _____ Access Quote # _____

Project Work Order # 1010280

Laboratory ID: _____

Company Name: CRAWFORD ENVIRO

Report To: D Fishen

Address:

City: State: Zip:

Phone: Fax:

Email:

Project ID: Clouds Exxon

Sampled By: BE

Preservative (*see codes): 2

Container Type (*see codes): G

1 REQUESTED LAB ANALYSIS: 1

BTEX/N/M/MTBE/OXYS

ACCESS ANALYTICAL, INC.

7478 Carlisle Street
Inno, SC 29063

Phone: (803) 781-4243
Fax: 781-4303

www.axs-inc.com

*Preservative Codes (place corresponding # in block above analysis field): 0 = None, 1 = HCL, 2 = HNO3, 3 = H2SO4, 4 = NaOH, 5 = Na2S2O3, 6 = Method 5035 set w/ NaHSO4 & CH3OH, 7 = NaOH/ZnOAC, 8 = H3PO4

*Matrix Codes (place corresponding code in matrix column): GW = ground water, WW = waste water, DW = drinking water, S = soil, SL = sludge, A = air, IW = industrial waste, WO = waste oil, OT = other (specify in comments section)

*Program Area Codes: CWA = Clean Water Act (for wastewaters), SDWA = Safe Drinking Water Act (for drinking waters), SHW = Solid and Hazardous Wastes (for soils, ground waters and waste samples)

*Container Type: G = Glass, P = Plastic

Sample ID/Description	Date Collected:	Time Collected:	Type (grab or composite)	Matrix (see codes)	Program Area (see codes)	TOTAL # of containers	BTEX/N/M/MTBE/OXYS	NOTES / COMMENTS (If sample is a composite please use space below to note smallest time & date)
MW 16	6-27-17	1100	G	GW	CST	3	3	
MW 17		1050						
MW 22		1130						
MW 5AR		1120						
MW 20		1110						
MW 19		1040						
MW 23		1020						
~~Dup 3~~		~~[illegible]~~						
MW 62		1030						
MW 63		1010						

Turnaround Time:

X Standard
___ RUSH*
*Date Required: _____
(For rush work, results emailed/faxed by end of business day on date required)

Project Location:

X SC
___ NC
___ Other
(specify) _____

Relinquished By:	Received By:	Date (mm dd yy)	Time (24HR)	Samples Rec'd on Ice	Sample Temp. Upon Receipt (°C)	
[signature]	JHS	6-28-17	1420	✓ Y ___ N	1.0 (°C)	___ (N/A)
JHS	FedEx	6/28/17	1700	✓ Y ___ N	___ (°C)	___ (N/A)
	[signature]	6/29/17	10:25AM	✓ Y ___ N	4.8 (°C)	___ (N/A)
	(FedEx)			___ Y ___ N	3.4 (°C)	___ (N/A)

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LAB USE ONLY

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Project Work Order # 1706R80

Laboratory ID: _____

Company Name: Crawford Enviro.

Report To: Dfisher

Address:

City: State: Zip:

Phone: Fax:

Email:

Project ID: Clouds Exxon

Sampled By: BE

Preservative: (*use codes) 2

Container Type: (*use codes) G

REQUESTED LAB ANALYSIS: BTEX/N/M/MTBE/oxys

ACCESS ANALYTICAL, INC.

7478 Carlisle Street
Irmo, SC 29063

Phone: (803) 781-4243
Fax: 781-4303

www.axs-inc.com

*Preservative Codes (place corresponding # in block above analysis field): 0 = None, 1 = HCL, 2 = HNO3, 3 = H2SO4, 4 = NaOH, 5 = Na2S2O3, 6 = Method 5035 set w/ NaHSO4 & CH3OH, 7 = NaOH/ZnOAC, 8 = H3PO4

*Matrix Codes (place corresponding code in matrix column): GW = ground water, WW = waste water, DW = drinking water, S = soil, SL = sludge, A = air, IW = industrial waste, WO = waste oil, OT = other (specify in comments section)

*Program Area Codes: CWA = Clean Water Act (for wastewaters), SDWA = Safe Drinking Water Act (for drinking waters), SHW = Solid and Hazardous Wastes (for soils, ground waters and waste samples)

*Container Type: G = Glass, P = Plastic

Sample ID/Description	Date Collected:	Time Collected:	Type (grab or composite)	Matrix (use codes)	Program Area (use codes)	TOTAL # of containers	BTEX/N/M/MTBE/oxys	NOTES / COMMENTS (Example in a composite phase use space below to note start/finish times & dates)
mw 70	5224	1000	G	GW	OT	3	3	
mw 40		950						
mw 41		940						
mw 39		930						
mw 42		700						
mw 67		710						
mw 38		720						
mw 31		730						
mw 37		740						
mw 35		750						

Turnaround Time:

X Standard
___ RUSH*
*Date Required: _____
(For rush work, results emailed/faxed by end of business day on date required)

Project Location:

X SC
___ NC
___ Other
(specify) _____

Relinquished By:	Received By:	Date (mm dd yy)	Time (HHH)	Samples Rec'd on Ice	Sample Temp. Upon Receipt (°C)	
[signature]	JHS	6-28-17	1420	✓ Y ___ N	1.0 (°C)	___ (N/A)
JHS	FedEx	6-28-17	1700	✓ Y ___ N	___ (°C)	___ (N/A)
	[signature]	6/29/17	10:25 AM	✓ Y ___ N	4.8 (°C)	___ (N/A)
	(FedEx)			___ Y ___ N	3.4 (°C)	___ (N/A)

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LAB USE ONLY

Sales Order # _____ PO # _____ Access Quote # _____

Project Work Order # 170672

Laboratory ID: _____

Company Name: Crawford Consulting

Report To: D. Fisher

Address:

City: State: Zip:

Phone: Fax:

Email:

Project ID: Clouds Exxon

Sampled By: BF

Preservative (*see codes): 2

Container Type (*see codes): 6

1 REQUESTED LAB ANALYSIS: 1

BTEX/MTBE/5m TBA by 8260

| Sample ID/Description | Date Collected | Time Collected | Type: (grab or composite) | Matrix (see codes) | Program Area (see codes) | TOTAL # of containers | | |

Access Analytical - Chain of Custody Record

LAB USE ONLY

Project Work Order # 170628

Sales Order # _____ PO # _____ Access Quote # _____ Laboratory ID: _____

Company Name: CRAWFORD EXCAVATING

Report To: D Asher

Address:

City: State: Zip:

Phone: Fax:

Email:

Project ID: Clouds Exca

Sampled By: BE

Preservative (*see codes): 2

Container Type (*see codes):

1 REQUESTED LAB ANALYSIS: BTEX/V/m/mTBE/Naphth

| Sample ID/Description | Date Collected: | Time Collected: | Type: (grab = g, composite = c) | Matrix (see codes) | Program Area (see codes) | Total # of containers | | |

Client: Crawford Environmental Services
Project: Clouds Exxon
Lab ID: 1706R80

Case Narrative

Sample Receiving Nonconformance:

Samples 1706R81-011A through -014A listed as collected 05-28-17 on the Chain of Custody (COC) were labeled 06-28-17. Samples were logged in using the collection date on the bottle labels. Samples 1706R81-015A through -030A, and -041 through -061A listed as 05-27-17 on the COC were labeled 06-27-17. Samples were logged in using the collection date listed on the bottle label.

Sample "DUP-3" was received and listed on Chain of Custody however it was crossed out by the client. The laboratory proceeded with analysis at the request of Angela Martin via email 06-30-17

1 of 3 vials for "MW 55" listed the sample ID as "MW 56". Sample was identified using the collection date and time and was logged in using the information present on the COC.

All samples were analyzed to include 1, 2 - Dichloroethane at the request of Angela Martin via email 06-30-17.

Volatiles Organic Compounds Analysis by Method 8260B:

Due to sample matrix, samples 1706R80-008, -010, -011, -013, -023, -033, -035, & -036 required dilution during preparation and/or analysis resulting in elevated reporting limits.

Percent recovery for the internal standard compounds Pentafluorobenzene, 1,4-Difluorobenzene, Chlorobenzene-d5 and 1,4-Dichlorobenzene-d4 on samples 1706R80-016A, -034A, & -052A was outside control limits biased low due to suspected matrix interference.

Analytical Environmental Services, Inc **Date:** 7-Jul-17

Client:	Crawford Environmental Services	**Client Sample ID:**	MW15
Project Name:	Clouds Exxon	**Collection Date:**	6/28/2017 7:50:00 AM
Lab ID:	1706R80-001	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B					**(SW5030B)**				
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	244942	1	07/03/2017 16:20	NP
Benzene	BRL		0.37	1.0	ug/L	244942	1	07/03/2017 16:20	NP
Ethylbenzene	320		2.6	10	ug/L	244942	10	07/03/2017 16:44	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	244942	1	07/03/2017 16:20	NP
Naphthalene	880		9.3	50	ug/L	244942	10	07/03/2017 16:44	NP
Toluene	300		3.9	10	ug/L	244942	10	07/03/2017 16:44	NP
Xylenes, Total	7500		15	20	ug/L	244942	20	07/05/2017 15:34	NP
Surr: 4-Bromofluorobenzene	102		0	70-130	%REC	244942	20	07/05/2017 15:34	NP
Surr: 4-Bromofluorobenzene	97		0	70-130	%REC	244942	10	07/03/2017 16:44	NP
Surr: 4-Bromofluorobenzene	102		0	70-130	%REC	244942	1	07/03/2017 16:20	NP
Surr: Dibromofluoromethane	87.5		0	70-130	%REC	244942	1	07/03/2017 16:20	NP
Surr: Dibromofluoromethane	92.9		0	70-130	%REC	244942	10	07/03/2017 16:44	NP
Surr: Dibromofluoromethane	93.1		0	70-130	%REC	244942	20	07/05/2017 15:34	NP
Surr: Toluene-d8	98.9		0	70-130	%REC	244942	1	07/03/2017 16:20	NP
Surr: Toluene-d8	100		0	70-130	%REC	244942	10	07/03/2017 16:44	NP
Surr: Toluene-d8	98.7		0	70-130	%REC	244942	20	07/05/2017 15:34	NP
Oxygenates SW8260B					**(SW5030B)**				
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	244942	1	07/03/2017 16:20	NP
Ethanol	BRL		43	100	ug/L	244942	1	07/03/2017 16:20	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	244942	1	07/03/2017 16:20	NP
Isopropyl ether	BRL		3.8	10	ug/L	244942	1	07/03/2017 16:20	NP
tert-Amyl alcohol	BRL		28	100	ug/L	244942	1	07/03/2017 16:20	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	244942	1	07/03/2017 16:20	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	244942	1	07/03/2017 16:20	NP
tert-Butyl formate	BRL		13	100	ug/L	244942	1	07/03/2017 16:20	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jul-17

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 59
Project Name:	Clouds Exxon	**Collection Date:**	6/28/2017 8:00:00 AM
Lab ID:	1706R80-002	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B					**(SW5030B)**				
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	244942	1	07/05/2017 12:22	NP
Benzene	2400		7.5	20	ug/L	244942	20	06/30/2017 20:45	NP
Ethylbenzene	2000		5.1	20	ug/L	244942	20	06/30/2017 20:45	NP
Methyl tert-butyl ether	43		0.45	1.0	ug/L	244942	1	07/05/2017 12:22	NP
Naphthalene	490		19	100	ug/L	244942	20	06/30/2017 20:45	NP
Toluene	77		0.39	1.0	ug/L	244942	1	07/05/2017 12:22	NP
Xylenes, Total	3400		15	20	ug/L	244942	20	06/30/2017 20:45	NP
Surr: 4-Bromofluorobenzene	101		0	70-130	%REC	244942	1	07/05/2017 12:22	NP
Surr: 4-Bromofluorobenzene	91.5		0	70-130	%REC	244942	20	06/30/2017 20:45	NP
Surr: Dibromofluoromethane	89.8		0	70-130	%REC	244942	1	07/05/2017 12:22	NP
Surr: Dibromofluoromethane	93.9		0	70-130	%REC	244942	20	06/30/2017 20:45	NP
Surr: Toluene-d8	99		0	70-130	%REC	244942	1	07/05/2017 12:22	NP
Surr: Toluene-d8	95.6		0	70-130	%REC	244942	20	06/30/2017 20:45	NP
Oxygenates SW8260B					**(SW5030B)**				
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	244942	1	07/05/2017 12:22	NP
Ethanol	BRL		43	100	ug/L	244942	1	07/05/2017 12:22	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	244942	1	07/05/2017 12:22	NP
Isopropyl ether	130		3.8	10	ug/L	244942	1	07/05/2017 12:22	NP
tert-Amyl alcohol	3600		560	2000	ug/L	244942	20	06/30/2017 20:45	NP
tert-Amyl methyl ether	32		3.4	10	ug/L	244942	1	07/05/2017 12:22	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	244942	1	07/05/2017 12:22	NP
tert-Butyl formate	BRL		13	100	ug/L	244942	1	07/05/2017 12:22	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jul-17

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 10
Project Name:	Clouds Exxon	**Collection Date:**	6/28/2017 7:40:00 AM
Lab ID:	1706R80-003	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	244942	1	07/01/2017 01:32	NP
Benzene	27		0.37	1.0	ug/L	244942	1	07/01/2017 01:32	NP
Ethylbenzene	17		0.26	1.0	ug/L	244942	1	07/01/2017 01:32	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	244942	1	07/01/2017 01:32	NP
Naphthalene	120		0.93	5.0	ug/L	244942	1	07/01/2017 01:32	NP
Toluene	3.3		0.39	1.0	ug/L	244942	1	07/01/2017 01:32	NP
Xylenes, Total	59		0.77	1.0	ug/L	244942	1	07/01/2017 01:32	NP
Surr: 4-Bromofluorobenzene	88.9		0	70-130	%REC	244942	1	07/01/2017 01:32	NP
Surr: Dibromofluoromethane	97.4		0	70-130	%REC	244942	1	07/01/2017 01:32	NP
Surr: Toluene-d8	101		0	70-130	%REC	244942	1	07/01/2017 01:32	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	244942	1	07/01/2017 01:32	NP
Ethanol	BRL		43	100	ug/L	244942	1	07/01/2017 01:32	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	244942	1	07/01/2017 01:32	NP
Isopropyl ether	BRL		3.8	10	ug/L	244942	1	07/01/2017 01:32	NP
tert-Amyl alcohol	BRL		28	100	ug/L	244942	1	07/01/2017 01:32	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	244942	1	07/01/2017 01:32	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	244942	1	07/01/2017 01:32	NP
tert-Butyl formate	BRL		13	100	ug/L	244942	1	07/01/2017 01:32	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jul-17

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 26
Project Name:	Clouds Exxon	**Collection Date:**	6/28/2017 7:30:00 AM
Lab ID:	1706R80-004	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	244942	1	07/01/2017 01:56	NP
Benzene	BRL		0.37	1.0	ug/L	244942	1	07/01/2017 01:56	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	244942	1	07/01/2017 01:56	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	244942	1	07/01/2017 01:56	NP
Naphthalene	1.1	J	0.93	5.0	ug/L	244942	1	07/01/2017 01:56	NP
Toluene	BRL		0.39	1.0	ug/L	244942	1	07/01/2017 01:56	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	244942	1	07/01/2017 01:56	NP
Surr: 4-Bromofluorobenzene	87.7		0	70-130	%REC	244942	1	07/01/2017 01:56	NP
Surr: Dibromofluoromethane	101		0	70-130	%REC	244942	1	07/01/2017 01:56	NP
Surr: Toluene-d8	96		0	70-130	%REC	244942	1	07/01/2017 01:56	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	244942	1	07/01/2017 01:56	NP
Ethanol	BRL		43	100	ug/L	244942	1	07/01/2017 01:56	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	244942	1	07/01/2017 01:56	NP
Isopropyl ether	BRL		3.8	10	ug/L	244942	1	07/01/2017 01:56	NP
tert-Amyl alcohol	BRL		28	100	ug/L	244942	1	07/01/2017 01:56	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	244942	1	07/01/2017 01:56	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	244942	1	07/01/2017 01:56	NP
tert-Butyl formate	BRL		13	100	ug/L	244942	1	07/01/2017 01:56	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jul-17

Client:	Crawford Environmental Services	**Client Sample ID:**	DW 9
Project Name:	Clouds Exxon	**Collection Date:**	6/28/2017 8:25:00 AM
Lab ID:	1706R80-005	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	244942	1	07/01/2017 02:19	NP
Benzene	BRL		0.37	1.0	ug/L	244942	1	07/01/2017 02:19	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	244942	1	07/01/2017 02:19	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	244942	1	07/01/2017 02:19	NP
Naphthalene	BRL		0.93	5.0	ug/L	244942	1	07/01/2017 02:19	NP
Toluene	BRL		0.39	1.0	ug/L	244942	1	07/01/2017 02:19	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	244942	1	07/01/2017 02:19	NP
Surr: 4-Bromofluorobenzene	83.2		0	70-130	%REC	244942	1	07/01/2017 02:19	NP
Surr: Dibromofluoromethane	103		0	70-130	%REC	244942	1	07/01/2017 02:19	NP
Surr: Toluene-d8	99.2		0	70-130	%REC	244942	1	07/01/2017 02:19	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	244942	1	07/01/2017 02:19	NP
Ethanol	BRL		43	100	ug/L	244942	1	07/01/2017 02:19	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	244942	1	07/01/2017 02:19	NP
Isopropyl ether	BRL		3.8	10	ug/L	244942	1	07/01/2017 02:19	NP
tert-Amyl alcohol	BRL		28	100	ug/L	244942	1	07/01/2017 02:19	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	244942	1	07/01/2017 02:19	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	244942	1	07/01/2017 02:19	NP
tert-Butyl formate	BRL		13	100	ug/L	244942	1	07/01/2017 02:19	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jul-17

Client:	Crawford Environmental Services	**Client Sample ID:**	DW-1
Project Name:	Clouds Exxon	**Collection Date:**	6/28/2017 8:55:00 AM
Lab ID:	1706R80-006	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	244942	1	07/01/2017 02:43	NP
Benzene	BRL		0.37	1.0	ug/L	244942	1	07/01/2017 02:43	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	244942	1	07/01/2017 02:43	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	244942	1	07/01/2017 02:43	NP
Naphthalene	BRL		0.93	5.0	ug/L	244942	1	07/01/2017 02:43	NP
Toluene	BRL		0.39	1.0	ug/L	244942	1	07/01/2017 02:43	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	244942	1	07/01/2017 02:43	NP
Surr: 4-Bromofluorobenzene	79.9		0	70-130	%REC	244942	1	07/01/2017 02:43	NP
Surr: Dibromofluoromethane	105		0	70-130	%REC	244942	1	07/01/2017 02:43	NP
Surr: Toluene-d8	98.5		0	70-130	%REC	244942	1	07/01/2017 02:43	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	244942	1	07/01/2017 02:43	NP
Ethanol	BRL		43	100	ug/L	244942	1	07/01/2017 02:43	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	244942	1	07/01/2017 02:43	NP
Isopropyl ether	BRL		3.8	10	ug/L	244942	1	07/01/2017 02:43	NP
tert-Amyl alcohol	BRL		28	100	ug/L	244942	1	07/01/2017 02:43	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	244942	1	07/01/2017 02:43	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	244942	1	07/01/2017 02:43	NP
tert-Butyl formate	BRL		13	100	ug/L	244942	1	07/01/2017 02:43	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jul-17

Client:	Crawford Environmental Services	**Client Sample ID:**	DW-2
Project Name:	Clouds Exxon	**Collection Date:**	6/28/2017 9:35:00 AM
Lab ID:	1706R80-007	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	244942	1	07/01/2017 03:07	NP
Benzene	BRL		0.37	1.0	ug/L	244942	1	07/01/2017 03:07	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	244942	1	07/01/2017 03:07	NP
Methyl tert-butyl ether	2.4		0.45	1.0	ug/L	244942	1	07/01/2017 03:07	NP
Naphthalene	BRL		0.93	5.0	ug/L	244942	1	07/01/2017 03:07	NP
Toluene	BRL		0.39	1.0	ug/L	244942	1	07/01/2017 03:07	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	244942	1	07/01/2017 03:07	NP
Surr: 4-Bromofluorobenzene	82.1		0	70-130	%REC	244942	1	07/01/2017 03:07	NP
Surr: Dibromofluoromethane	105		0	70-130	%REC	244942	1	07/01/2017 03:07	NP
Surr: Toluene-d8	98.9		0	70-130	%REC	244942	1	07/01/2017 03:07	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	244942	1	07/01/2017 03:07	NP
Ethanol	BRL		43	100	ug/L	244942	1	07/01/2017 03:07	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	244942	1	07/01/2017 03:07	NP
Isopropyl ether	BRL		3.8	10	ug/L	244942	1	07/01/2017 03:07	NP
tert-Amyl alcohol	BRL		28	100	ug/L	244942	1	07/01/2017 03:07	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	244942	1	07/01/2017 03:07	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	244942	1	07/01/2017 03:07	NP
tert-Butyl formate	BRL		13	100	ug/L	244942	1	07/01/2017 03:07	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jul-17

Client:	Crawford Environmental Services	**Client Sample ID:**	DW-3
Project Name:	Clouds Exxon	**Collection Date:**	6/28/2017 10:05:00 AM
Lab ID:	1706R80-008	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B					**(SW5030B)**				
1,2-Dichloroethane	BRL		19	50	ug/L	244942	50	06/30/2017 17:59	NP
Benzene	3400		19	50	ug/L	244942	50	06/30/2017 17:59	NP
Ethylbenzene	1600		13	50	ug/L	244942	50	06/30/2017 17:59	NP
Methyl tert-butyl ether	120		22	50	ug/L	244942	50	06/30/2017 17:59	NP
Naphthalene	310		46	250	ug/L	244942	50	06/30/2017 17:59	NP
Toluene	8600		20	50	ug/L	244942	50	06/30/2017 17:59	NP
Xylenes, Total	5200		38	50	ug/L	244942	50	06/30/2017 17:59	NP
Surr: 4-Bromofluorobenzene	89.6		0	70-130	%REC	244942	50	06/30/2017 17:59	NP
Surr: Dibromofluoromethane	100		0	70-130	%REC	244942	50	06/30/2017 17:59	NP
Surr: Toluene-d8	98.9		0	70-130	%REC	244942	50	06/30/2017 17:59	NP
Oxygenates SW8260B					**(SW5030B)**				
3,3-Dimethyl-1-butanol	BRL		1200	5000	ug/L	244942	50	06/30/2017 17:59	NP
Ethanol	BRL		2200	5000	ug/L	244942	50	06/30/2017 17:59	NP
Ethyl tert-butyl ether	BRL		180	5000	ug/L	244942	50	06/30/2017 17:59	NP
Isopropyl ether	480	J	190	500	ug/L	244942	50	06/30/2017 17:59	NP
tert-Amyl alcohol	3400	J	1400	5000	ug/L	244942	50	06/30/2017 17:59	NP
tert-Amyl methyl ether	370	J	170	500	ug/L	244942	50	06/30/2017 17:59	NP
tert-Butyl Alcohol	BRL		670	5000	ug/L	244942	50	06/30/2017 17:59	NP
tert-Butyl formate	BRL		650	5000	ug/L	244942	50	06/30/2017 17:59	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jul-17

Client:	Crawford Environmental Services	**Client Sample ID:**	DW-4
Project Name:	Clouds Exxon	**Collection Date:**	6/28/2017 10:50:00 AM
Lab ID:	1706R80-009	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	244942	1	07/01/2017 03:31	NP
Benzene	BRL		0.37	1.0	ug/L	244942	1	07/01/2017 03:31	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	244942	1	07/01/2017 03:31	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	244942	1	07/01/2017 03:31	NP
Naphthalene	BRL		0.93	5.0	ug/L	244942	1	07/01/2017 03:31	NP
Toluene	BRL		0.39	1.0	ug/L	244942	1	07/01/2017 03:31	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	244942	1	07/01/2017 03:31	NP
Surr: 4-Bromofluorobenzene	83.3		0	70-130	%REC	244942	1	07/01/2017 03:31	NP
Surr: Dibromofluoromethane	103		0	70-130	%REC	244942	1	07/01/2017 03:31	NP
Surr: Toluene-d8	99.7		0	70-130	%REC	244942	1	07/01/2017 03:31	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	244942	1	07/01/2017 03:31	NP
Ethanol	BRL		43	100	ug/L	244942	1	07/01/2017 03:31	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	244942	1	07/01/2017 03:31	NP
Isopropyl ether	BRL		3.8	10	ug/L	244942	1	07/01/2017 03:31	NP
tert-Amyl alcohol	BRL		28	100	ug/L	244942	1	07/01/2017 03:31	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	244942	1	07/01/2017 03:31	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	244942	1	07/01/2017 03:31	NP
tert-Butyl formate	BRL		13	100	ug/L	244942	1	07/01/2017 03:31	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jul-17

Client:	Crawford Environmental Services	**Client Sample ID:**	PW 1R
Project Name:	Clouds Exxon	**Collection Date:**	6/28/2017 11:15:00 AM
Lab ID:	1706R80-010	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B					**(SW5030B)**				
1,2-Dichloroethane	BRL		19	50	ug/L	244942	50	06/30/2017 18:23	NP
Benzene	380		19	50	ug/L	244942	50	06/30/2017 18:23	NP
Ethylbenzene	510		13	50	ug/L	244942	50	06/30/2017 18:23	NP
Methyl tert-butyl ether	BRL		22	50	ug/L	244942	50	06/30/2017 18:23	NP
Naphthalene	320		46	250	ug/L	244942	50	06/30/2017 18:23	NP
Toluene	7900		20	50	ug/L	244942	50	06/30/2017 18:23	NP
Xylenes, Total	9100		38	50	ug/L	244942	50	06/30/2017 18:23	NP
Surr: 4-Bromofluorobenzene	88.6		0	70-130	%REC	244942	50	06/30/2017 18:23	NP
Surr: Dibromofluoromethane	100		0	70-130	%REC	244942	50	06/30/2017 18:23	NP
Surr: Toluene-d8	97.6		0	70-130	%REC	244942	50	06/30/2017 18:23	NP
Oxygenates SW8260B					**(SW5030B)**				
3,3-Dimethyl-1-butanol	BRL		1200	5000	ug/L	244942	50	06/30/2017 18:23	NP
Ethanol	BRL		2200	5000	ug/L	244942	50	06/30/2017 18:23	NP
Ethyl tert-butyl ether	BRL		180	5000	ug/L	244942	50	06/30/2017 18:23	NP
Isopropyl ether	BRL		190	500	ug/L	244942	50	06/30/2017 18:23	NP
tert-Amyl alcohol	BRL		1400	5000	ug/L	244942	50	06/30/2017 18:23	NP
tert-Amyl methyl ether	BRL		170	500	ug/L	244942	50	06/30/2017 18:23	NP
tert-Butyl Alcohol	BRL		670	5000	ug/L	244942	50	06/30/2017 18:23	NP
tert-Butyl formate	BRL		650	5000	ug/L	244942	50	06/30/2017 18:23	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jul-17

Client:	Crawford Environmental Services	**Client Sample ID:**	DUP 5
Project Name:	Clouds Exxon	**Collection Date:**	6/28/2017 11:20:00 AM
Lab ID:	1706R80-011	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B					**(SW5030B)**				
1,2-Dichloroethane	BRL		19	50	ug/L	244942	50	06/30/2017 18:47	NP
Benzene	400		19	50	ug/L	244942	50	06/30/2017 18:47	NP
Ethylbenzene	650		13	50	ug/L	244942	50	06/30/2017 18:47	NP
Methyl tert-butyl ether	BRL		22	50	ug/L	244942	50	06/30/2017 18:47	NP
Naphthalene	370		46	250	ug/L	244942	50	06/30/2017 18:47	NP
Toluene	9800		20	50	ug/L	244942	50	06/30/2017 18:47	NP
Xylenes, Total	11000		38	50	ug/L	244942	50	06/30/2017 18:47	NP
Surr: 4-Bromofluorobenzene	92.6		0	70-130	%REC	244942	50	06/30/2017 18:47	NP
Surr: Dibromofluoromethane	99.4		0	70-130	%REC	244942	50	06/30/2017 18:47	NP
Surr: Toluene-d8	97.4		0	70-130	%REC	244942	50	06/30/2017 18:47	NP
Oxygenates SW8260B					**(SW5030B)**				
3,3-Dimethyl-1-butanol	BRL		1200	5000	ug/L	244942	50	06/30/2017 18:47	NP
Ethanol	BRL		2200	5000	ug/L	244942	50	06/30/2017 18:47	NP
Ethyl tert-butyl ether	BRL		180	5000	ug/L	244942	50	06/30/2017 18:47	NP
Isopropyl ether	BRL		190	500	ug/L	244942	50	06/30/2017 18:47	NP
tert-Amyl alcohol	BRL		1400	5000	ug/L	244942	50	06/30/2017 18:47	NP
tert-Amyl methyl ether	BRL		170	500	ug/L	244942	50	06/30/2017 18:47	NP
tert-Butyl Alcohol	BRL		670	5000	ug/L	244942	50	06/30/2017 18:47	NP
tert-Butyl formate	BRL		650	5000	ug/L	244942	50	06/30/2017 18:47	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jul-17

Client:	Crawford Environmental Services	**Client Sample ID:**	DW 6
Project Name:	Clouds Exxon	**Collection Date:**	6/28/2017 11:35:00 AM
Lab ID:	1706R80-012	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	244942	1	07/01/2017 03:55	NP
Benzene	BRL		0.37	1.0	ug/L	244942	1	07/01/2017 03:55	NP
Ethylbenzene	0.37	J	0.26	1.0	ug/L	244942	1	07/01/2017 03:55	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	244942	1	07/01/2017 03:55	NP
Naphthalene	BRL		0.93	5.0	ug/L	244942	1	07/01/2017 03:55	NP
Toluene	3.0		0.39	1.0	ug/L	244942	1	07/01/2017 03:55	NP
Xylenes, Total	4.1		0.77	1.0	ug/L	244942	1	07/01/2017 03:55	NP
Surr: 4-Bromofluorobenzene	85.4		0	70-130	%REC	244942	1	07/01/2017 03:55	NP
Surr: Dibromofluoromethane	105		0	70-130	%REC	244942	1	07/01/2017 03:55	NP
Surr: Toluene-d8	100		0	70-130	%REC	244942	1	07/01/2017 03:55	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	244942	1	07/01/2017 03:55	NP
Ethanol	BRL		43	100	ug/L	244942	1	07/01/2017 03:55	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	244942	1	07/01/2017 03:55	NP
Isopropyl ether	BRL		3.8	10	ug/L	244942	1	07/01/2017 03:55	NP
tert-Amyl alcohol	BRL		28	100	ug/L	244942	1	07/01/2017 03:55	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	244942	1	07/01/2017 03:55	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	244942	1	07/01/2017 03:55	NP
tert-Butyl formate	BRL		13	100	ug/L	244942	1	07/01/2017 03:55	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jul-17

Client:	Crawford Environmental Services	**Client Sample ID:**	DW 5
Project Name:	Clouds Exxon	**Collection Date:**	6/28/2017 11:55:00 AM
Lab ID:	1706R80-013	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		19	50	ug/L	244942	50	06/30/2017 19:10	NP
Benzene	5200		19	50	ug/L	244942	50	06/30/2017 19:10	NP
Ethylbenzene	380		13	50	ug/L	244942	50	06/30/2017 19:10	NP
Methyl tert-butyl ether	890		22	50	ug/L	244942	50	06/30/2017 19:10	NP
Naphthalene	130	J	46	250	ug/L	244942	50	06/30/2017 19:10	NP
Toluene	1400		20	50	ug/L	244942	50	06/30/2017 19:10	NP
Xylenes, Total	2400		38	50	ug/L	244942	50	06/30/2017 19:10	NP
Surr: 4-Bromofluorobenzene	87.9		0	70-130	%REC	244942	50	06/30/2017 19:10	NP
Surr: Dibromofluoromethane	96.8		0	70-130	%REC	244942	50	06/30/2017 19:10	NP
Surr: Toluene-d8	96.7		0	70-130	%REC	244942	50	06/30/2017 19:10	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		1200	5000	ug/L	244942	50	06/30/2017 19:10	NP
Ethanol	BRL		2200	5000	ug/L	244942	50	06/30/2017 19:10	NP
Ethyl tert-butyl ether	BRL		180	5000	ug/L	244942	50	06/30/2017 19:10	NP
Isopropyl ether	750		190	500	ug/L	244942	50	06/30/2017 19:10	NP
tert-Amyl alcohol	7200		1400	5000	ug/L	244942	50	06/30/2017 19:10	NP
tert-Amyl methyl ether	390	J	170	500	ug/L	244942	50	06/30/2017 19:10	NP
tert-Butyl Alcohol	BRL		670	5000	ug/L	244942	50	06/30/2017 19:10	NP
tert-Butyl formate	BRL		650	5000	ug/L	244942	50	06/30/2017 19:10	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jul-17

Client:	Crawford Environmental Services	**Client Sample ID:**	FB-2
Project Name:	Clouds Exxon	**Collection Date:**	6/28/2017 12:10:00 PM
Lab ID:	1706R80-014	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	244942	1	06/30/2017 13:29	NP
Benzene	BRL		0.37	1.0	ug/L	244942	1	06/30/2017 13:29	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	244942	1	06/30/2017 13:29	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	244942	1	06/30/2017 13:29	NP
Naphthalene	BRL		0.93	5.0	ug/L	244942	1	06/30/2017 13:29	NP
Toluene	BRL		0.39	1.0	ug/L	244942	1	06/30/2017 13:29	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	244942	1	06/30/2017 13:29	NP
Surr: 4-Bromofluorobenzene	83.5		0	70-130	%REC	244942	1	06/30/2017 13:29	NP
Surr: Dibromofluoromethane	101		0	70-130	%REC	244942	1	06/30/2017 13:29	NP
Surr: Toluene-d8	94.3		0	70-130	%REC	244942	1	06/30/2017 13:29	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	244942	1	06/30/2017 13:29	NP
Ethanol	BRL		43	100	ug/L	244942	1	06/30/2017 13:29	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	244942	1	06/30/2017 13:29	NP
Isopropyl ether	BRL		3.8	10	ug/L	244942	1	06/30/2017 13:29	NP
tert-Amyl alcohol	BRL		28	100	ug/L	244942	1	06/30/2017 13:29	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	244942	1	06/30/2017 13:29	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	244942	1	06/30/2017 13:29	NP
tert-Butyl formate	BRL		13	100	ug/L	244942	1	06/30/2017 13:29	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jul-17

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 56
Project Name:	Clouds Exxon	**Collection Date:**	6/27/2017 2:30:00 PM
Lab ID:	1706R80-015	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	244942	1	07/01/2017 04:19	NP
Benzene	BRL		0.37	1.0	ug/L	244942	1	07/01/2017 04:19	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	244942	1	07/01/2017 04:19	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	244942	1	07/01/2017 04:19	NP
Naphthalene	BRL		0.93	5.0	ug/L	244942	1	07/01/2017 04:19	NP
Toluene	BRL		0.39	1.0	ug/L	244942	1	07/01/2017 04:19	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	244942	1	07/01/2017 04:19	NP
Surr: 4-Bromofluorobenzene	78.4		0	70-130	%REC	244942	1	07/01/2017 04:19	NP
Surr: Dibromofluoromethane	104		0	70-130	%REC	244942	1	07/01/2017 04:19	NP
Surr: Toluene-d8	98.1		0	70-130	%REC	244942	1	07/01/2017 04:19	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	244942	1	07/01/2017 04:19	NP
Ethanol	BRL		43	100	ug/L	244942	1	07/01/2017 04:19	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	244942	1	07/01/2017 04:19	NP
Isopropyl ether	BRL		3.8	10	ug/L	244942	1	07/01/2017 04:19	NP
tert-Amyl alcohol	BRL		28	100	ug/L	244942	1	07/01/2017 04:19	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	244942	1	07/01/2017 04:19	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	244942	1	07/01/2017 04:19	NP
tert-Butyl formate	BRL		13	100	ug/L	244942	1	07/01/2017 04:19	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jul-17

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 55
Project Name:	Clouds Exxon	**Collection Date:**	6/27/2017 2:00:00 PM
Lab ID:	1706R80-016	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	244942	1	07/05/2017 20:44	NP
Benzene	200		3.7	10	ug/L	244942	10	06/30/2017 21:33	NP
Ethylbenzene	53		0.26	1.0	ug/L	244942	1	07/05/2017 20:44	NP
Methyl tert-butyl ether	100		0.45	1.0	ug/L	244942	1	07/05/2017 20:44	NP
Naphthalene	50		0.93	5.0	ug/L	244942	1	07/05/2017 20:44	NP
Toluene	2.9		0.39	1.0	ug/L	244942	1	07/05/2017 20:44	NP
Xylenes, Total	20		0.77	1.0	ug/L	244942	1	07/05/2017 20:44	NP
Surr: 4-Bromofluorobenzene	85.9		0	70-130	%REC	244942	10	06/30/2017 21:33	NP
Surr: 4-Bromofluorobenzene	99		0	70-130	%REC	244942	1	07/05/2017 20:44	NP
Surr: Dibromofluoromethane	92.8		0	70-130	%REC	244942	1	07/05/2017 20:44	NP
Surr: Dibromofluoromethane	97		0	70-130	%REC	244942	10	06/30/2017 21:33	NP
Surr: Toluene-d8	97		0	70-130	%REC	244942	10	06/30/2017 21:33	NP
Surr: Toluene-d8	102		0	70-130	%REC	244942	1	07/05/2017 20:44	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	244942	1	07/05/2017 20:44	NP
Ethanol	BRL		43	100	ug/L	244942	1	07/05/2017 20:44	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	244942	1	07/05/2017 20:44	NP
Isopropyl ether	39		3.8	10	ug/L	244942	1	07/05/2017 20:44	NP
tert-Amyl alcohol	2000		28	100	ug/L	244942	1	07/05/2017 20:44	NP
tert-Amyl methyl ether	15		3.4	10	ug/L	244942	1	07/05/2017 20:44	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	244942	1	07/05/2017 20:44	NP
tert-Butyl formate	BRL		13	100	ug/L	244942	1	07/05/2017 20:44	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jul-17

Client:	Crawford Environmental Services	**Client Sample ID:**	DUP 4
Project Name:	Clouds Exxon	**Collection Date:**	6/27/2017 2:05:00 PM
Lab ID:	1706R80-017	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	244942	1	07/03/2017 17:31	NP
Benzene	310		3.7	10	ug/L	244942	10	06/30/2017 21:57	NP
Ethylbenzene	87		0.26	1.0	ug/L	244942	1	07/03/2017 17:31	NP
Methyl tert-butyl ether	110		0.45	1.0	ug/L	244942	1	07/03/2017 17:31	NP
Naphthalene	69		0.93	5.0	ug/L	244942	1	07/03/2017 17:31	NP
Toluene	4.7		0.39	1.0	ug/L	244942	1	07/03/2017 17:31	NP
Xylenes, Total	28		0.77	1.0	ug/L	244942	1	07/03/2017 17:31	NP
Surr: 4-Bromofluorobenzene	84.4		0	70-130	%REC	244942	10	06/30/2017 21:57	NP
Surr: 4-Bromofluorobenzene	97.8		0	70-130	%REC	244942	1	07/03/2017 17:31	NP
Surr: Dibromofluoromethane	92.9		0	70-130	%REC	244942	1	07/03/2017 17:31	NP
Surr: Dibromofluoromethane	96.7		0	70-130	%REC	244942	10	06/30/2017 21:57	NP
Surr: Toluene-d8	95.5		0	70-130	%REC	244942	10	06/30/2017 21:57	NP
Surr: Toluene-d8	99.6		0	70-130	%REC	244942	1	07/03/2017 17:31	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	244942	1	07/03/2017 17:31	NP
Ethanol	BRL		43	100	ug/L	244942	1	07/03/2017 17:31	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	244942	1	07/03/2017 17:31	NP
Isopropyl ether	41		3.8	10	ug/L	244942	1	07/03/2017 17:31	NP
tert-Amyl alcohol	2000		28	100	ug/L	244942	1	07/03/2017 17:31	NP
tert-Amyl methyl ether	15		3.4	10	ug/L	244942	1	07/03/2017 17:31	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	244942	1	07/03/2017 17:31	NP
tert-Butyl formate	BRL		13	100	ug/L	244942	1	07/03/2017 17:31	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jul-17

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 53
Project Name:	Clouds Exxon	**Collection Date:**	6/27/2017 1:10:00 PM
Lab ID:	1706R80-018	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	244942	1	07/01/2017 04:43	NP
Benzene	BRL		0.37	1.0	ug/L	244942	1	07/01/2017 04:43	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	244942	1	07/01/2017 04:43	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	244942	1	07/01/2017 04:43	NP
Naphthalene	BRL		0.93	5.0	ug/L	244942	1	07/01/2017 04:43	NP
Toluene	BRL		0.39	1.0	ug/L	244942	1	07/01/2017 04:43	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	244942	1	07/01/2017 04:43	NP
Surr: 4-Bromofluorobenzene	82.5		0	70-130	%REC	244942	1	07/01/2017 04:43	NP
Surr: Dibromofluoromethane	108		0	70-130	%REC	244942	1	07/01/2017 04:43	NP
Surr: Toluene-d8	102		0	70-130	%REC	244942	1	07/01/2017 04:43	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	244942	1	07/01/2017 04:43	NP
Ethanol	BRL		43	100	ug/L	244942	1	07/01/2017 04:43	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	244942	1	07/01/2017 04:43	NP
Isopropyl ether	BRL		3.8	10	ug/L	244942	1	07/01/2017 04:43	NP
tert-Amyl alcohol	BRL		28	100	ug/L	244942	1	07/01/2017 04:43	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	244942	1	07/01/2017 04:43	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	244942	1	07/01/2017 04:43	NP
tert-Butyl formate	BRL		13	100	ug/L	244942	1	07/01/2017 04:43	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jul-17

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 11
Project Name:	Clouds Exxon	**Collection Date:**	6/27/2017 2:10:00 PM
Lab ID:	1706R80-019	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	244942	1	07/01/2017 05:06	NP
Benzene	BRL		0.37	1.0	ug/L	244942	1	07/01/2017 05:06	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	244942	1	07/01/2017 05:06	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	244942	1	07/01/2017 05:06	NP
Naphthalene	BRL		0.93	5.0	ug/L	244942	1	07/01/2017 05:06	NP
Toluene	BRL		0.39	1.0	ug/L	244942	1	07/01/2017 05:06	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	244942	1	07/01/2017 05:06	NP
Surr: 4-Bromofluorobenzene	77.6		0	70-130	%REC	244942	1	07/01/2017 05:06	NP
Surr: Dibromofluoromethane	103		0	70-130	%REC	244942	1	07/01/2017 05:06	NP
Surr: Toluene-d8	99.6		0	70-130	%REC	244942	1	07/01/2017 05:06	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	244942	1	07/01/2017 05:06	NP
Ethanol	BRL		43	100	ug/L	244942	1	07/01/2017 05:06	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	244942	1	07/01/2017 05:06	NP
Isopropyl ether	BRL		3.8	10	ug/L	244942	1	07/01/2017 05:06	NP
tert-Amyl alcohol	BRL		28	100	ug/L	244942	1	07/01/2017 05:06	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	244942	1	07/01/2017 05:06	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	244942	1	07/01/2017 05:06	NP
tert-Butyl formate	BRL		13	100	ug/L	244942	1	07/01/2017 05:06	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jul-17

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 51
Project Name:	Clouds Exxon	**Collection Date:**	6/27/2017 1:00:00 PM
Lab ID:	1706R80-020	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	244942	1	07/01/2017 05:30	NP
Benzene	BRL		0.37	1.0	ug/L	244942	1	07/01/2017 05:30	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	244942	1	07/01/2017 05:30	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	244942	1	07/01/2017 05:30	NP
Naphthalene	BRL		0.93	5.0	ug/L	244942	1	07/01/2017 05:30	NP
Toluene	BRL		0.39	1.0	ug/L	244942	1	07/01/2017 05:30	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	244942	1	07/01/2017 05:30	NP
Surr: 4-Bromofluorobenzene	83.7		0	70-130	%REC	244942	1	07/01/2017 05:30	NP
Surr: Dibromofluoromethane	105		0	70-130	%REC	244942	1	07/01/2017 05:30	NP
Surr: Toluene-d8	101		0	70-130	%REC	244942	1	07/01/2017 05:30	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	244942	1	07/01/2017 05:30	NP
Ethanol	BRL		43	100	ug/L	244942	1	07/01/2017 05:30	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	244942	1	07/01/2017 05:30	NP
Isopropyl ether	BRL		3.8	10	ug/L	244942	1	07/01/2017 05:30	NP
tert-Amyl alcohol	BRL		28	100	ug/L	244942	1	07/01/2017 05:30	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	244942	1	07/01/2017 05:30	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	244942	1	07/01/2017 05:30	NP
tert-Butyl formate	BRL		13	100	ug/L	244942	1	07/01/2017 05:30	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jul-17

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 8
Project Name:	Clouds Exxon	**Collection Date:**	6/27/2017 1:50:00 PM
Lab ID:	1706R80-021	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	244943	1	07/01/2017 05:54	NP
Benzene	BRL		0.37	1.0	ug/L	244943	1	07/01/2017 05:54	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	244943	1	07/01/2017 05:54	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	244943	1	07/01/2017 05:54	NP
Naphthalene	BRL		0.93	5.0	ug/L	244943	1	07/01/2017 05:54	NP
Toluene	BRL		0.39	1.0	ug/L	244943	1	07/01/2017 05:54	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	244943	1	07/01/2017 05:54	NP
Surr: 4-Bromofluorobenzene	80.1		0	70-130	%REC	244943	1	07/01/2017 05:54	NP
Surr: Dibromofluoromethane	104		0	70-130	%REC	244943	1	07/01/2017 05:54	NP
Surr: Toluene-d8	100		0	70-130	%REC	244943	1	07/01/2017 05:54	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	244943	1	07/01/2017 05:54	NP
Ethanol	BRL		43	100	ug/L	244943	1	07/01/2017 05:54	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	244943	1	07/01/2017 05:54	NP
Isopropyl ether	BRL		3.8	10	ug/L	244943	1	07/01/2017 05:54	NP
tert-Amyl alcohol	BRL		28	100	ug/L	244943	1	07/01/2017 05:54	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	244943	1	07/01/2017 05:54	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	244943	1	07/01/2017 05:54	NP
tert-Butyl formate	BRL		13	100	ug/L	244943	1	07/01/2017 05:54	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jul-17

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 4
Project Name:	Clouds Exxon	**Collection Date:**	6/27/2017 1:40:00 PM
Lab ID:	1706R80-022	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	244943	1	07/01/2017 06:18	NP
Benzene	BRL		0.37	1.0	ug/L	244943	1	07/01/2017 06:18	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	244943	1	07/01/2017 06:18	NP
Methyl tert-butyl ether	0.73	J	0.45	1.0	ug/L	244943	1	07/01/2017 06:18	NP
Naphthalene	BRL		0.93	5.0	ug/L	244943	1	07/01/2017 06:18	NP
Toluene	BRL		0.39	1.0	ug/L	244943	1	07/01/2017 06:18	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	244943	1	07/01/2017 06:18	NP
Surr: 4-Bromofluorobenzene	78.3		0	70-130	%REC	244943	1	07/01/2017 06:18	NP
Surr: Dibromofluoromethane	105		0	70-130	%REC	244943	1	07/01/2017 06:18	NP
Surr: Toluene-d8	98.9		0	70-130	%REC	244943	1	07/01/2017 06:18	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	244943	1	07/01/2017 06:18	NP
Ethanol	BRL		43	100	ug/L	244943	1	07/01/2017 06:18	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	244943	1	07/01/2017 06:18	NP
Isopropyl ether	BRL		3.8	10	ug/L	244943	1	07/01/2017 06:18	NP
tert-Amyl alcohol	BRL		28	100	ug/L	244943	1	07/01/2017 06:18	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	244943	1	07/01/2017 06:18	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	244943	1	07/01/2017 06:18	NP
tert-Butyl formate	BRL		13	100	ug/L	244943	1	07/01/2017 06:18	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jul-17

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 3
Project Name:	Clouds Exxon	**Collection Date:**	6/27/2017 1:30:00 PM
Lab ID:	1706R80-023	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B					**(SW5030B)**				
1,2-Dichloroethane	12		3.7	10	ug/L	244943	10	06/30/2017 22:21	NP
Benzene	3900		37	100	ug/L	244943	100	07/05/2017 14:23	NP
Ethylbenzene	1100		2.6	10	ug/L	244943	10	06/30/2017 22:21	NP
Methyl tert-butyl ether	370		4.5	10	ug/L	244943	10	06/30/2017 22:21	NP
Naphthalene	560		9.3	50	ug/L	244943	10	06/30/2017 22:21	NP
Toluene	13000		39	100	ug/L	244943	100	07/05/2017 14:23	NP
Xylenes, Total	10000		77	100	ug/L	244943	100	07/05/2017 14:23	NP
Surr: 4-Bromofluorobenzene	98		0	70-130	%REC	244943	10	06/30/2017 22:21	NP
Surr: 4-Bromofluorobenzene	101		0	70-130	%REC	244943	100	07/05/2017 14:23	NP
Surr: Dibromofluoromethane	92.9		0	70-130	%REC	244943	10	06/30/2017 22:21	NP
Surr: Dibromofluoromethane	94.7		0	70-130	%REC	244943	100	07/05/2017 14:23	NP
Surr: Toluene-d8	95.3		0	70-130	%REC	244943	10	06/30/2017 22:21	NP
Surr: Toluene-d8	99.3		0	70-130	%REC	244943	100	07/05/2017 14:23	NP
Oxygenates SW8260B					**(SW5030B)**				
3,3-Dimethyl-1-butanol	BRL		240	1000	ug/L	244943	10	06/30/2017 22:21	NP
Ethanol	BRL		430	1000	ug/L	244943	10	06/30/2017 22:21	NP
Ethyl tert-butyl ether	BRL		36	1000	ug/L	244943	10	06/30/2017 22:21	NP
Isopropyl ether	110		38	100	ug/L	244943	10	06/30/2017 22:21	NP
tert-Amyl alcohol	BRL		280	1000	ug/L	244943	10	06/30/2017 22:21	NP
tert-Amyl methyl ether	210		34	100	ug/L	244943	10	06/30/2017 22:21	NP
tert-Butyl Alcohol	BRL		130	1000	ug/L	244943	10	06/30/2017 22:21	NP
tert-Butyl formate	BRL		130	1000	ug/L	244943	10	06/30/2017 22:21	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jul-17

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 6
Project Name:	Clouds Exxon	**Collection Date:**	6/27/2017 12:50:00 PM
Lab ID:	1706R80-024	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	244943	1	07/01/2017 06:42	NP
Benzene	BRL		0.37	1.0	ug/L	244943	1	07/01/2017 06:42	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	244943	1	07/01/2017 06:42	NP
Methyl tert-butyl ether	1.9		0.45	1.0	ug/L	244943	1	07/01/2017 06:42	NP
Naphthalene	BRL		0.93	5.0	ug/L	244943	1	07/01/2017 06:42	NP
Toluene	BRL		0.39	1.0	ug/L	244943	1	07/01/2017 06:42	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	244943	1	07/01/2017 06:42	NP
Surr: 4-Bromofluorobenzene	80.7		0	70-130	%REC	244943	1	07/01/2017 06:42	NP
Surr: Dibromofluoromethane	108		0	70-130	%REC	244943	1	07/01/2017 06:42	NP
Surr: Toluene-d8	101		0	70-130	%REC	244943	1	07/01/2017 06:42	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	244943	1	07/01/2017 06:42	NP
Ethanol	BRL		43	100	ug/L	244943	1	07/01/2017 06:42	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	244943	1	07/01/2017 06:42	NP
Isopropyl ether	BRL		3.8	10	ug/L	244943	1	07/01/2017 06:42	NP
tert-Amyl alcohol	BRL		28	100	ug/L	244943	1	07/01/2017 06:42	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	244943	1	07/01/2017 06:42	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	244943	1	07/01/2017 06:42	NP
tert-Butyl formate	BRL		13	100	ug/L	244943	1	07/01/2017 06:42	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jul-17

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 2
Project Name:	Clouds Exxon	**Collection Date:**	6/27/2017 1:20:00 PM
Lab ID:	1706R80-025	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	5.5		0.37	1.0	ug/L	244943	1	07/01/2017 07:06	NP
Benzene	190		0.37	1.0	ug/L	244943	1	07/01/2017 07:06	NP
Ethylbenzene	140		0.26	1.0	ug/L	244943	1	07/01/2017 07:06	NP
Methyl tert-butyl ether	370		4.5	10	ug/L	244943	10	07/03/2017 13:56	NP
Naphthalene	140		0.93	5.0	ug/L	244943	1	07/01/2017 07:06	NP
Toluene	5.6		0.39	1.0	ug/L	244943	1	07/01/2017 07:06	NP
Xylenes, Total	640		7.7	10	ug/L	244943	10	07/03/2017 13:56	NP
Surr: 4-Bromofluorobenzene	88.1		0	70-130	%REC	244943	10	07/03/2017 13:56	NP
Surr: 4-Bromofluorobenzene	94.9		0	70-130	%REC	244943	1	07/01/2017 07:06	NP
Surr: Dibromofluoromethane	98.6		0	70-130	%REC	244943	1	07/01/2017 07:06	NP
Surr: Dibromofluoromethane	100		0	70-130	%REC	244943	10	07/03/2017 13:56	NP
Surr: Toluene-d8	98.6		0	70-130	%REC	244943	10	07/03/2017 13:56	NP
Surr: Toluene-d8	103		0	70-130	%REC	244943	1	07/01/2017 07:06	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	244943	1	07/01/2017 07:06	NP
Ethanol	BRL		43	100	ug/L	244943	1	07/01/2017 07:06	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	244943	1	07/01/2017 07:06	NP
Isopropyl ether	24		3.8	10	ug/L	244943	1	07/01/2017 07:06	NP
tert-Amyl alcohol	190		28	100	ug/L	244943	1	07/01/2017 07:06	NP
tert-Amyl methyl ether	14		3.4	10	ug/L	244943	1	07/01/2017 07:06	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	244943	1	07/01/2017 07:06	NP
tert-Butyl formate	BRL		13	100	ug/L	244943	1	07/01/2017 07:06	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jul-17

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 7
Project Name:	Clouds Exxon	**Collection Date:**	6/27/2017 12:40:00 PM
Lab ID:	1706R80-026	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	244943	1	07/01/2017 07:30	NP
Benzene	BRL		0.37	1.0	ug/L	244943	1	07/01/2017 07:30	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	244943	1	07/01/2017 07:30	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	244943	1	07/01/2017 07:30	NP
Naphthalene	1.3	J	0.93	5.0	ug/L	244943	1	07/01/2017 07:30	NP
Toluene	BRL		0.39	1.0	ug/L	244943	1	07/01/2017 07:30	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	244943	1	07/01/2017 07:30	NP
Surr: 4-Bromofluorobenzene	86.4		0	70-130	%REC	244943	1	07/01/2017 07:30	NP
Surr: Dibromofluoromethane	103		0	70-130	%REC	244943	1	07/01/2017 07:30	NP
Surr: Toluene-d8	97		0	70-130	%REC	244943	1	07/01/2017 07:30	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	244943	1	07/01/2017 07:30	NP
Ethanol	BRL		43	100	ug/L	244943	1	07/01/2017 07:30	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	244943	1	07/01/2017 07:30	NP
Isopropyl ether	BRL		3.8	10	ug/L	244943	1	07/01/2017 07:30	NP
tert-Amyl alcohol	BRL		28	100	ug/L	244943	1	07/01/2017 07:30	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	244943	1	07/01/2017 07:30	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	244943	1	07/01/2017 07:30	NP
tert-Butyl formate	BRL		13	100	ug/L	244943	1	07/01/2017 07:30	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jul-17

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 45
Project Name:	Clouds Exxon	**Collection Date:**	6/27/2017 12:30:00 PM
Lab ID:	1706R80-027	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	244943	1	07/01/2017 07:54	NP
Benzene	BRL		0.37	1.0	ug/L	244943	1	07/01/2017 07:54	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	244943	1	07/01/2017 07:54	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	244943	1	07/01/2017 07:54	NP
Naphthalene	BRL		0.93	5.0	ug/L	244943	1	07/01/2017 07:54	NP
Toluene	BRL		0.39	1.0	ug/L	244943	1	07/01/2017 07:54	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	244943	1	07/01/2017 07:54	NP
Surr: 4-Bromofluorobenzene	83.1		0	70-130	%REC	244943	1	07/01/2017 07:54	NP
Surr: Dibromofluoromethane	104		0	70-130	%REC	244943	1	07/01/2017 07:54	NP
Surr: Toluene-d8	101		0	70-130	%REC	244943	1	07/01/2017 07:54	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	244943	1	07/01/2017 07:54	NP
Ethanol	BRL		43	100	ug/L	244943	1	07/01/2017 07:54	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	244943	1	07/01/2017 07:54	NP
Isopropyl ether	BRL		3.8	10	ug/L	244943	1	07/01/2017 07:54	NP
tert-Amyl alcohol	BRL		28	100	ug/L	244943	1	07/01/2017 07:54	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	244943	1	07/01/2017 07:54	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	244943	1	07/01/2017 07:54	NP
tert-Butyl formate	BRL		13	100	ug/L	244943	1	07/01/2017 07:54	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jul-17

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 44
Project Name:	Clouds Exxon	**Collection Date:**	6/27/2017 12:20:00 PM
Lab ID:	1706R80-028	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	244943	1	07/01/2017 08:18	NP
Benzene	BRL		0.37	1.0	ug/L	244943	1	07/01/2017 08:18	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	244943	1	07/01/2017 08:18	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	244943	1	07/01/2017 08:18	NP
Naphthalene	BRL		0.93	5.0	ug/L	244943	1	07/01/2017 08:18	NP
Toluene	BRL		0.39	1.0	ug/L	244943	1	07/01/2017 08:18	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	244943	1	07/01/2017 08:18	NP
Surr: 4-Bromofluorobenzene	84.3		0	70-130	%REC	244943	1	07/01/2017 08:18	NP
Surr: Dibromofluoromethane	103		0	70-130	%REC	244943	1	07/01/2017 08:18	NP
Surr: Toluene-d8	99		0	70-130	%REC	244943	1	07/01/2017 08:18	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	244943	1	07/01/2017 08:18	NP
Ethanol	BRL		43	100	ug/L	244943	1	07/01/2017 08:18	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	244943	1	07/01/2017 08:18	NP
Isopropyl ether	BRL		3.8	10	ug/L	244943	1	07/01/2017 08:18	NP
tert-Amyl alcohol	BRL		28	100	ug/L	244943	1	07/01/2017 08:18	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	244943	1	07/01/2017 08:18	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	244943	1	07/01/2017 08:18	NP
tert-Butyl formate	BRL		13	100	ug/L	244943	1	07/01/2017 08:18	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jul-17

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 43
Project Name:	Clouds Exxon	**Collection Date:**	6/27/2017 12:10:00 PM
Lab ID:	1706R80-029	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	244943	1	07/01/2017 08:41	NP
Benzene	BRL		0.37	1.0	ug/L	244943	1	07/01/2017 08:41	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	244943	1	07/01/2017 08:41	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	244943	1	07/01/2017 08:41	NP
Naphthalene	BRL		0.93	5.0	ug/L	244943	1	07/01/2017 08:41	NP
Toluene	BRL		0.39	1.0	ug/L	244943	1	07/01/2017 08:41	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	244943	1	07/01/2017 08:41	NP
Surr: 4-Bromofluorobenzene	80.4		0	70-130	%REC	244943	1	07/01/2017 08:41	NP
Surr: Dibromofluoromethane	107		0	70-130	%REC	244943	1	07/01/2017 08:41	NP
Surr: Toluene-d8	99.1		0	70-130	%REC	244943	1	07/01/2017 08:41	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	244943	1	07/01/2017 08:41	NP
Ethanol	BRL		43	100	ug/L	244943	1	07/01/2017 08:41	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	244943	1	07/01/2017 08:41	NP
Isopropyl ether	BRL		3.8	10	ug/L	244943	1	07/01/2017 08:41	NP
tert-Amyl alcohol	BRL		28	100	ug/L	244943	1	07/01/2017 08:41	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	244943	1	07/01/2017 08:41	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	244943	1	07/01/2017 08:41	NP
tert-Butyl formate	BRL		13	100	ug/L	244943	1	07/01/2017 08:41	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jul-17

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 46
Project Name:	Clouds Exxon	**Collection Date:**	6/27/2017 12:00:00 PM
Lab ID:	1706R80-030	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	244943	1	07/01/2017 09:05	NP
Benzene	BRL		0.37	1.0	ug/L	244943	1	07/01/2017 09:05	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	244943	1	07/01/2017 09:05	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	244943	1	07/01/2017 09:05	NP
Naphthalene	BRL		0.93	5.0	ug/L	244943	1	07/01/2017 09:05	NP
Toluene	BRL		0.39	1.0	ug/L	244943	1	07/01/2017 09:05	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	244943	1	07/01/2017 09:05	NP
Surr: 4-Bromofluorobenzene	81.2		0	70-130	%REC	244943	1	07/01/2017 09:05	NP
Surr: Dibromofluoromethane	105		0	70-130	%REC	244943	1	07/01/2017 09:05	NP
Surr: Toluene-d8	99.5		0	70-130	%REC	244943	1	07/01/2017 09:05	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	244943	1	07/01/2017 09:05	NP
Ethanol	BRL		43	100	ug/L	244943	1	07/01/2017 09:05	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	244943	1	07/01/2017 09:05	NP
Isopropyl ether	BRL		3.8	10	ug/L	244943	1	07/01/2017 09:05	NP
tert-Amyl alcohol	BRL		28	100	ug/L	244943	1	07/01/2017 09:05	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	244943	1	07/01/2017 09:05	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	244943	1	07/01/2017 09:05	NP
tert-Butyl formate	BRL		13	100	ug/L	244943	1	07/01/2017 09:05	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jul-17

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 16
Project Name:	Clouds Exxon	**Collection Date:**	6/27/2017 11:00:00 AM
Lab ID:	1706R80-031	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	244943	1	07/01/2017 09:29	NP
Benzene	BRL		0.37	1.0	ug/L	244943	1	07/01/2017 09:29	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	244943	1	07/01/2017 09:29	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	244943	1	07/01/2017 09:29	NP
Naphthalene	BRL		0.93	5.0	ug/L	244943	1	07/01/2017 09:29	NP
Toluene	BRL		0.39	1.0	ug/L	244943	1	07/01/2017 09:29	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	244943	1	07/01/2017 09:29	NP
Surr: 4-Bromofluorobenzene	81.8		0	70-130	%REC	244943	1	07/01/2017 09:29	NP
Surr: Dibromofluoromethane	104		0	70-130	%REC	244943	1	07/01/2017 09:29	NP
Surr: Toluene-d8	100		0	70-130	%REC	244943	1	07/01/2017 09:29	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	244943	1	07/01/2017 09:29	NP
Ethanol	BRL		43	100	ug/L	244943	1	07/01/2017 09:29	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	244943	1	07/01/2017 09:29	NP
Isopropyl ether	BRL		3.8	10	ug/L	244943	1	07/01/2017 09:29	NP
tert-Amyl alcohol	BRL		28	100	ug/L	244943	1	07/01/2017 09:29	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	244943	1	07/01/2017 09:29	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	244943	1	07/01/2017 09:29	NP
tert-Butyl formate	BRL		13	100	ug/L	244943	1	07/01/2017 09:29	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jul-17

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 17
Project Name:	Clouds Exxon	**Collection Date:**	6/27/2017 10:50:00 AM
Lab ID:	1706R80-032	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B					**(SW5030B)**				
Benzene	10		0.37	1.0	ug/L	244943	1	07/03/2017 15:56	NP
Ethylbenzene	190		2.6	10	ug/L	244943	10	07/05/2017 16:22	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	244943	1	07/03/2017 15:56	NP
Naphthalene	190		9.3	50	ug/L	244943	10	07/05/2017 16:22	NP
Toluene	5.8		0.39	1.0	ug/L	244943	1	07/03/2017 15:56	NP
Xylenes, Total	26		0.77	1.0	ug/L	244943	1	07/03/2017 15:56	NP
Surr: 4-Bromofluorobenzene	98.1		0	70-130	%REC	244943	10	07/05/2017 16:22	NP
Surr: 4-Bromofluorobenzene	96.3		0	70-130	%REC	244943	1	07/03/2017 15:56	NP
Surr: Dibromofluoromethane	95.8		0	70-130	%REC	244943	1	07/03/2017 15:56	NP
Surr: Dibromofluoromethane	94.9		0	70-130	%REC	244943	10	07/05/2017 16:22	NP
Surr: Toluene-d8	97.7		0	70-130	%REC	244943	10	07/05/2017 16:22	NP
Surr: Toluene-d8	101		0	70-130	%REC	244943	1	07/03/2017 15:56	NP
Oxygenates SW8260B					**(SW5030B)**				
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	244943	1	07/03/2017 15:56	NP
Ethanol	BRL		43	100	ug/L	244943	1	07/03/2017 15:56	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	244943	1	07/03/2017 15:56	NP
Isopropyl ether	BRL		3.8	10	ug/L	244943	1	07/03/2017 15:56	NP
tert-Amyl alcohol	BRL		28	100	ug/L	244943	1	07/03/2017 15:56	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	244943	1	07/03/2017 15:56	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	244943	1	07/03/2017 15:56	NP
tert-Butyl formate	BRL		13	100	ug/L	244943	1	07/03/2017 15:56	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jul-17

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 22
Project Name:	Clouds Exxon	**Collection Date:**	6/27/2017 11:30:00 AM
Lab ID:	1706R80-033	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B					**(SW5030B)**				
1,2-Dichloroethane	BRL		190	500	ug/L	244943	500	06/30/2017 15:36	NP
Benzene	2100		190	500	ug/L	244943	500	06/30/2017 15:36	NP
Ethylbenzene	1100		130	500	ug/L	244943	500	06/30/2017 15:36	NP
Methyl tert-butyl ether	BRL		220	500	ug/L	244943	500	06/30/2017 15:36	NP
Naphthalene	BRL		460	2500	ug/L	244943	500	06/30/2017 15:36	NP
Toluene	13000		200	500	ug/L	244943	500	06/30/2017 15:36	NP
Xylenes, Total	15000		380	500	ug/L	244943	500	06/30/2017 15:36	NP
Surr: 4-Bromofluorobenzene	86.6		0	70-130	%REC	244943	500	06/30/2017 15:36	NP
Surr: Dibromofluoromethane	104		0	70-130	%REC	244943	500	06/30/2017 15:36	NP
Surr: Toluene-d8	98		0	70-130	%REC	244943	500	06/30/2017 15:36	NP
Oxygenates SW8260B					**(SW5030B)**				
3,3-Dimethyl-1-butanol	BRL		12000	50000	ug/L	244943	500	06/30/2017 15:36	NP
Ethanol	24000	J	22000	50000	ug/L	244943	500	06/30/2017 15:36	NP
Ethyl tert-butyl ether	BRL		1800	50000	ug/L	244943	500	06/30/2017 15:36	NP
Isopropyl ether	BRL		1900	5000	ug/L	244943	500	06/30/2017 15:36	NP
tert-Amyl alcohol	BRL		14000	50000	ug/L	244943	500	06/30/2017 15:36	NP
tert-Amyl methyl ether	BRL		1700	5000	ug/L	244943	500	06/30/2017 15:36	NP
tert-Butyl Alcohol	BRL		6700	50000	ug/L	244943	500	06/30/2017 15:36	NP
tert-Butyl formate	BRL		6500	50000	ug/L	244943	500	06/30/2017 15:36	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jul-17

Client:	Crawford Environmental Services	**Client Sample ID:**	MW SAR
Project Name:	Clouds Exxon	**Collection Date:**	6/27/2017 11:20:00 AM
Lab ID:	1706R80-034	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	244943	1	07/05/2017 14:47	NP
Benzene	1900		19	50	ug/L	244943	50	06/30/2017 19:58	NP
Ethylbenzene	330		13	50	ug/L	244943	50	06/30/2017 19:58	NP
Methyl tert-butyl ether	2.3		0.45	1.0	ug/L	244943	1	07/05/2017 14:47	NP
Naphthalene	390		9.3	50	ug/L	244943	10	07/05/2017 15:10	NP
Toluene	92		0.39	1.0	ug/L	244943	1	07/05/2017 14:47	NP
Xylenes, Total	1400		38	50	ug/L	244943	50	06/30/2017 19:58	NP
Surr: 4-Bromofluorobenzene	102		0	70-130	%REC	244943	1	07/05/2017 14:47	NP
Surr: 4-Bromofluorobenzene	87.3		0	70-130	%REC	244943	50	06/30/2017 19:58	NP
Surr: 4-Bromofluorobenzene	96.5		0	70-130	%REC	244943	10	07/05/2017 15:10	NP
Surr: Dibromofluoromethane	99.1		0	70-130	%REC	244943	50	06/30/2017 19:58	NP
Surr: Dibromofluoromethane	93.1		0	70-130	%REC	244943	1	07/05/2017 14:47	NP
Surr: Dibromofluoromethane	92.5		0	70-130	%REC	244943	10	07/05/2017 15:10	NP
Surr: Toluene-d8	97.6		0	70-130	%REC	244943	50	06/30/2017 19:58	NP
Surr: Toluene-d8	96.2		0	70-130	%REC	244943	10	07/05/2017 15:10	NP
Surr: Toluene-d8	100		0	70-130	%REC	244943	1	07/05/2017 14:47	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	244943	1	07/05/2017 14:47	NP
Ethanol	BRL		43	100	ug/L	244943	1	07/05/2017 14:47	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	244943	1	07/05/2017 14:47	NP
Isopropyl ether	30		3.8	10	ug/L	244943	1	07/05/2017 14:47	NP
tert-Amyl alcohol	220		28	100	ug/L	244943	1	07/05/2017 14:47	NP
tert-Amyl methyl ether	13		3.4	10	ug/L	244943	1	07/05/2017 14:47	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	244943	1	07/05/2017 14:47	NP
tert-Butyl formate	BRL		13	100	ug/L	244943	1	07/05/2017 14:47	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jul-17

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 20
Project Name:	Clouds Exxon	**Collection Date:**	6/27/2017 11:10:00 AM
Lab ID:	1706R80-035	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B					**(SW5030B)**				
1,2-Dichloroethane	BRL		19	50	ug/L	244943	50	06/30/2017 20:21	NP
Benzene	390		19	50	ug/L	244943	50	06/30/2017 20:21	NP
Ethylbenzene	2000		13	50	ug/L	244943	50	06/30/2017 20:21	NP
Methyl tert-butyl ether	BRL		22	50	ug/L	244943	50	06/30/2017 20:21	NP
Naphthalene	1500		46	250	ug/L	244943	50	06/30/2017 20:21	NP
Toluene	10000		39	100	ug/L	244943	100	07/03/2017 13:33	NP
Xylenes, Total	26000		77	100	ug/L	244943	100	07/03/2017 13:33	NP
Surr: 4-Bromofluorobenzene	94.4		0	70-130	%REC	244943	50	06/30/2017 20:21	NP
Surr: 4-Bromofluorobenzene	95.4		0	70-130	%REC	244943	100	07/03/2017 13:33	NP
Surr: Dibromofluoromethane	102		0	70-130	%REC	244943	50	06/30/2017 20:21	NP
Surr: Dibromofluoromethane	102		0	70-130	%REC	244943	100	07/03/2017 13:33	NP
Surr: Toluene-d8	99.9		0	70-130	%REC	244943	50	06/30/2017 20:21	NP
Surr: Toluene-d8	100		0	70-130	%REC	244943	100	07/03/2017 13:33	NP
Oxygenates SW8260B					**(SW5030B)**				
3,3-Dimethyl-1-butanol	BRL		1200	5000	ug/L	244943	50	06/30/2017 20:21	NP
Ethanol	BRL		2200	5000	ug/L	244943	50	06/30/2017 20:21	NP
Ethyl tert-butyl ether	BRL		180	5000	ug/L	244943	50	06/30/2017 20:21	NP
Isopropyl ether	310	J	190	500	ug/L	244943	50	06/30/2017 20:21	NP
tert-Amyl alcohol	2500	J	1400	5000	ug/L	244943	50	06/30/2017 20:21	NP
tert-Amyl methyl ether	BRL		170	500	ug/L	244943	50	06/30/2017 20:21	NP
tert-Butyl Alcohol	BRL		670	5000	ug/L	244943	50	06/30/2017 20:21	NP
tert-Butyl formate	BRL		650	5000	ug/L	244943	50	06/30/2017 20:21	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jul-17

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 19
Project Name:	Clouds Exxon	**Collection Date:**	6/27/2017 10:40:00 AM
Lab ID:	1706R80-036	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B					**(SW5030B)**				
1,2-Dichloroethane	BRL		37	100	ug/L	244943	100	06/30/2017 17:35	NP
Benzene	3200		37	100	ug/L	244943	100	06/30/2017 17:35	NP
Ethylbenzene	1100		26	100	ug/L	244943	100	06/30/2017 17:35	NP
Methyl tert-butyl ether	130		45	100	ug/L	244943	100	06/30/2017 17:35	NP
Naphthalene	950		93	500	ug/L	244943	100	06/30/2017 17:35	NP
Toluene	21000		200	500	ug/L	244943	500	07/03/2017 13:09	NP
Xylenes, Total	20000		77	100	ug/L	244943	100	06/30/2017 17:35	NP
Surr: 4-Bromofluorobenzene	87.6		0	70-130	%REC	244943	500	07/03/2017 13:09	NP
Surr: 4-Bromofluorobenzene	92		0	70-130	%REC	244943	100	06/30/2017 17:35	NP
Surr: Dibromofluoromethane	103		0	70-130	%REC	244943	500	07/03/2017 13:09	NP
Surr: Dibromofluoromethane	99.4		0	70-130	%REC	244943	100	06/30/2017 17:35	NP
Surr: Toluene-d8	98.5		0	70-130	%REC	244943	500	07/03/2017 13:09	NP
Surr: Toluene-d8	99.6		0	70-130	%REC	244943	100	06/30/2017 17:35	NP
Oxygenates SW8260B					**(SW5030B)**				
3,3-Dimethyl-1-butanol	BRL		2400	10000	ug/L	244943	100	06/30/2017 17:35	NP
Ethanol	BRL		4300	10000	ug/L	244943	100	06/30/2017 17:35	NP
Ethyl tert-butyl ether	BRL		360	10000	ug/L	244943	100	06/30/2017 17:35	NP
Isopropyl ether	640	J	380	1000	ug/L	244943	100	06/30/2017 17:35	NP
tert-Amyl alcohol	6700	J	2800	10000	ug/L	244943	100	06/30/2017 17:35	NP
tert-Amyl methyl ether	BRL		340	1000	ug/L	244943	100	06/30/2017 17:35	NP
tert-Butyl Alcohol	BRL		1300	10000	ug/L	244943	100	06/30/2017 17:35	NP
tert-Butyl formate	BRL		1300	10000	ug/L	244943	100	06/30/2017 17:35	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jul-17

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 23
Project Name:	Clouds Exxon	**Collection Date:**	6/27/2017 10:20:00 AM
Lab ID:	1706R80-037	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	244943	1	07/05/2017 17:10	NP
Benzene	400		7.5	20	ug/L	244943	20	06/30/2017 21:09	NP
Ethylbenzene	120		0.26	1.0	ug/L	244943	1	07/05/2017 17:10	NP
Methyl tert-butyl ether	6.3		0.45	1.0	ug/L	244943	1	07/05/2017 17:10	NP
Naphthalene	370		19	100	ug/L	244943	20	06/30/2017 21:09	NP
Toluene	1500		7.9	20	ug/L	244943	20	06/30/2017 21:09	NP
Xylenes, Total	3800		15	20	ug/L	244943	20	06/30/2017 21:09	NP
Surr: 4-Bromofluorobenzene	100		0	70-130	%REC	244943	1	07/05/2017 17:10	NP
Surr: 4-Bromofluorobenzene	89.1		0	70-130	%REC	244943	20	06/30/2017 21:09	NP
Surr: Dibromofluoromethane	95.8		0	70-130	%REC	244943	20	06/30/2017 21:09	NP
Surr: Dibromofluoromethane	89.4		0	70-130	%REC	244943	1	07/05/2017 17:10	NP
Surr: Toluene-d8	98.3		0	70-130	%REC	244943	1	07/05/2017 17:10	NP
Surr: Toluene-d8	97.4		0	70-130	%REC	244943	20	06/30/2017 21:09	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	244943	1	07/05/2017 17:10	NP
Ethanol	BRL		43	100	ug/L	244943	1	07/05/2017 17:10	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	244943	1	07/05/2017 17:10	NP
Isopropyl ether	21		3.8	10	ug/L	244943	1	07/05/2017 17:10	NP
tert-Amyl alcohol	1000		28	100	ug/L	244943	1	07/05/2017 17:10	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	244943	1	07/05/2017 17:10	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	244943	1	07/05/2017 17:10	NP
tert-Butyl formate	BRL		13	100	ug/L	244943	1	07/05/2017 17:10	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated value above quantitation range
BRL	Not detected at MDL	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit
N	Analyte not NELAC certified	>	Greater than Result value
B	Analyte detected in the associated method blank	<	Less than Result value
NC	Not confirmed	Narr	See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jul-17

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 62
Project Name:	Clouds Exxon	**Collection Date:**	6/27/2017 10:30:00 AM
Lab ID:	1706R80-038	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	244943	1	07/01/2017 09:53	NP
Benzene	1.6		0.37	1.0	ug/L	244943	1	07/01/2017 09:53	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	244943	1	07/01/2017 09:53	NP
Methyl tert-butyl ether	0.69	J	0.45	1.0	ug/L	244943	1	07/01/2017 09:53	NP
Naphthalene	2.4	J	0.93	5.0	ug/L	244943	1	07/01/2017 09:53	NP
Toluene	BRL		0.39	1.0	ug/L	244943	1	07/01/2017 09:53	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	244943	1	07/01/2017 09:53	NP
Surr: 4-Bromofluorobenzene	80.7		0	70-130	%REC	244943	1	07/01/2017 09:53	NP
Surr: Dibromofluoromethane	104		0	70-130	%REC	244943	1	07/01/2017 09:53	NP
Surr: Toluene-d8	100		0	70-130	%REC	244943	1	07/01/2017 09:53	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	244943	1	07/01/2017 09:53	NP
Ethanol	BRL		43	100	ug/L	244943	1	07/01/2017 09:53	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	244943	1	07/01/2017 09:53	NP
Isopropyl ether	BRL		3.8	10	ug/L	244943	1	07/01/2017 09:53	NP
tert-Amyl alcohol	93	J	28	100	ug/L	244943	1	07/01/2017 09:53	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	244943	1	07/01/2017 09:53	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	244943	1	07/01/2017 09:53	NP
tert-Butyl formate	BRL		13	100	ug/L	244943	1	07/01/2017 09:53	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jul-17

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 63
Project Name:	Clouds Exxon	**Collection Date:**	6/27/2017 10:10:00 AM
Lab ID:	1706R80-039	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	244943	1	07/01/2017 10:17	NP
Benzene	BRL		0.37	1.0	ug/L	244943	1	07/01/2017 10:17	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	244943	1	07/01/2017 10:17	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	244943	1	07/01/2017 10:17	NP
Naphthalene	BRL		0.93	5.0	ug/L	244943	1	07/01/2017 10:17	NP
Toluene	BRL		0.39	1.0	ug/L	244943	1	07/01/2017 10:17	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	244943	1	07/01/2017 10:17	NP
Surr: 4-Bromofluorobenzene	81.4		0	70-130	%REC	244943	1	07/01/2017 10:17	NP
Surr: Dibromofluoromethane	108		0	70-130	%REC	244943	1	07/01/2017 10:17	NP
Surr: Toluene-d8	99.6		0	70-130	%REC	244943	1	07/01/2017 10:17	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	244943	1	07/01/2017 10:17	NP
Ethanol	BRL		43	100	ug/L	244943	1	07/01/2017 10:17	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	244943	1	07/01/2017 10:17	NP
Isopropyl ether	BRL		3.8	10	ug/L	244943	1	07/01/2017 10:17	NP
tert-Amyl alcohol	BRL		28	100	ug/L	244943	1	07/01/2017 10:17	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	244943	1	07/01/2017 10:17	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	244943	1	07/01/2017 10:17	NP
tert-Butyl formate	BRL		13	100	ug/L	244943	1	07/01/2017 10:17	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jul-17

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 70
Project Name:	Clouds Exxon	**Collection Date:**	6/27/2017 10:00:00 AM
Lab ID:	1706R80-040	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	244943	1	07/01/2017 21:42	NP
Benzene	BRL		0.37	1.0	ug/L	244943	1	07/01/2017 21:42	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	244943	1	07/01/2017 21:42	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	244943	1	07/01/2017 21:42	NP
Naphthalene	BRL		0.93	5.0	ug/L	244943	1	07/01/2017 21:42	NP
Toluene	BRL		0.39	1.0	ug/L	244943	1	07/01/2017 21:42	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	244943	1	07/01/2017 21:42	NP
Surr: 4-Bromofluorobenzene	86.2		0	70-130	%REC	244943	1	07/01/2017 21:42	NP
Surr: Dibromofluoromethane	99.5		0	70-130	%REC	244943	1	07/01/2017 21:42	NP
Surr: Toluene-d8	96.8		0	70-130	%REC	244943	1	07/01/2017 21:42	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	244943	1	07/01/2017 21:42	NP
Ethanol	BRL		43	100	ug/L	244943	1	07/01/2017 21:42	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	244943	1	07/01/2017 21:42	NP
Isopropyl ether	BRL		3.8	10	ug/L	244943	1	07/01/2017 21:42	NP
tert-Amyl alcohol	BRL		28	100	ug/L	244943	1	07/01/2017 21:42	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	244943	1	07/01/2017 21:42	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	244943	1	07/01/2017 21:42	NP
tert-Butyl formate	BRL		13	100	ug/L	244943	1	07/01/2017 21:42	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jul-17

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 40
Project Name:	Clouds Exxon	**Collection Date:**	6/27/2017 9:50:00 AM
Lab ID:	1706R80-041	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	244945	1	07/01/2017 22:06	NP
Benzene	22		0.37	1.0	ug/L	244945	1	07/01/2017 22:06	NP
Ethylbenzene	600		2.6	10	ug/L	244945	10	07/03/2017 14:20	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	244945	1	07/01/2017 22:06	NP
Naphthalene	480		9.3	50	ug/L	244945	10	07/03/2017 14:20	NP
Toluene	5.1		0.39	1.0	ug/L	244945	1	07/01/2017 22:06	NP
Xylenes, Total	98		0.77	1.0	ug/L	244945	1	07/01/2017 22:06	NP
Surr: 4-Bromofluorobenzene	89.4		0	70-130	%REC	244945	10	07/03/2017 14:20	NP
Surr: 4-Bromofluorobenzene	97.3		0	70-130	%REC	244945	1	07/01/2017 22:06	NP
Surr: Dibromofluoromethane	93		0	70-130	%REC	244945	1	07/01/2017 22:06	NP
Surr: Dibromofluoromethane	99.3		0	70-130	%REC	244945	10	07/03/2017 14:20	NP
Surr: Toluene-d8	98.7		0	70-130	%REC	244945	1	07/01/2017 22:06	NP
Surr: Toluene-d8	99		0	70-130	%REC	244945	10	07/03/2017 14:20	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	244945	1	07/01/2017 22:06	NP
Ethanol	BRL		43	100	ug/L	244945	1	07/01/2017 22:06	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	244945	1	07/01/2017 22:06	NP
Isopropyl ether	6.4	J	3.8	10	ug/L	244945	1	07/01/2017 22:06	NP
tert-Amyl alcohol	BRL		28	100	ug/L	244945	1	07/01/2017 22:06	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	244945	1	07/01/2017 22:06	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	244945	1	07/01/2017 22:06	NP
tert-Butyl formate	BRL		13	100	ug/L	244945	1	07/01/2017 22:06	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jul-17

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 41
Project Name:	Clouds Exxon	**Collection Date:**	6/27/2017 9:40:00 AM
Lab ID:	1706R80-042	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	244945	1	07/03/2017 15:32	NP
Benzene	BRL		0.37	1.0	ug/L	244945	1	07/03/2017 15:32	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	244945	1	07/03/2017 15:32	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	244945	1	07/03/2017 15:32	NP
Naphthalene	BRL		0.93	5.0	ug/L	244945	1	07/03/2017 15:32	NP
Toluene	BRL		0.39	1.0	ug/L	244945	1	07/03/2017 15:32	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	244945	1	07/03/2017 15:32	NP
Surr: 4-Bromofluorobenzene	88.3		0	70-130	%REC	244945	1	07/03/2017 15:32	NP
Surr: Dibromofluoromethane	99.7		0	70-130	%REC	244945	1	07/03/2017 15:32	NP
Surr: Toluene-d8	97.1		0	70-130	%REC	244945	1	07/03/2017 15:32	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	244945	1	07/01/2017 22:29	NP
Ethanol	BRL		43	100	ug/L	244945	1	07/01/2017 22:29	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	244945	1	07/01/2017 22:29	NP
Isopropyl ether	BRL		3.8	10	ug/L	244945	1	07/01/2017 22:29	NP
tert-Amyl alcohol	BRL		28	100	ug/L	244945	1	07/01/2017 22:29	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	244945	1	07/01/2017 22:29	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	244945	1	07/01/2017 22:29	NP
tert-Butyl formate	BRL		13	100	ug/L	244945	1	07/01/2017 22:29	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jul-17

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 39
Project Name:	Clouds Exxon	**Collection Date:**	6/27/2017 9:30:00 AM
Lab ID:	1706R80-043	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	244945	1	07/01/2017 22:53	NP
Benzene	BRL		0.37	1.0	ug/L	244945	1	07/01/2017 22:53	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	244945	1	07/01/2017 22:53	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	244945	1	07/01/2017 22:53	NP
Naphthalene	BRL		0.93	5.0	ug/L	244945	1	07/01/2017 22:53	NP
Toluene	BRL		0.39	1.0	ug/L	244945	1	07/01/2017 22:53	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	244945	1	07/01/2017 22:53	NP
Surr: 4-Bromofluorobenzene	86.2		0	70-130	%REC	244945	1	07/01/2017 22:53	NP
Surr: Dibromofluoromethane	99.2		0	70-130	%REC	244945	1	07/01/2017 22:53	NP
Surr: Toluene-d8	98.7		0	70-130	%REC	244945	1	07/01/2017 22:53	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	244945	1	07/01/2017 22:53	NP
Ethanol	BRL		43	100	ug/L	244945	1	07/01/2017 22:53	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	244945	1	07/01/2017 22:53	NP
Isopropyl ether	BRL		3.8	10	ug/L	244945	1	07/01/2017 22:53	NP
tert-Amyl alcohol	BRL		28	100	ug/L	244945	1	07/01/2017 22:53	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	244945	1	07/01/2017 22:53	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	244945	1	07/01/2017 22:53	NP
tert-Butyl formate	BRL		13	100	ug/L	244945	1	07/01/2017 22:53	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jul-17

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 42
Project Name:	Clouds Exxon	**Collection Date:**	6/27/2017 7:00:00 AM
Lab ID:	1706R80-044	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	244945	1	07/01/2017 23:17	NP
Benzene	BRL		0.37	1.0	ug/L	244945	1	07/01/2017 23:17	NP
Ethylbenzene	3.8		0.26	1.0	ug/L	244945	1	07/01/2017 23:17	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	244945	1	07/01/2017 23:17	NP
Naphthalene	4.9	J	0.93	5.0	ug/L	244945	1	07/01/2017 23:17	NP
Toluene	BRL		0.39	1.0	ug/L	244945	1	07/01/2017 23:17	NP
Xylenes, Total	5.4		0.77	1.0	ug/L	244945	1	07/01/2017 23:17	NP
Surr: 4-Bromofluorobenzene	87.8		0	70-130	%REC	244945	1	07/01/2017 23:17	NP
Surr: Dibromofluoromethane	98.2		0	70-130	%REC	244945	1	07/01/2017 23:17	NP
Surr: Toluene-d8	97.2		0	70-130	%REC	244945	1	07/01/2017 23:17	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	244945	1	07/01/2017 23:17	NP
Ethanol	BRL		43	100	ug/L	244945	1	07/01/2017 23:17	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	244945	1	07/01/2017 23:17	NP
Isopropyl ether	BRL		3.8	10	ug/L	244945	1	07/01/2017 23:17	NP
tert-Amyl alcohol	BRL		28	100	ug/L	244945	1	07/01/2017 23:17	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	244945	1	07/01/2017 23:17	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	244945	1	07/01/2017 23:17	NP
tert-Butyl formate	BRL		13	100	ug/L	244945	1	07/01/2017 23:17	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jul-17

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 67
Project Name:	Clouds Exxon	**Collection Date:**	6/27/2017 7:10:00 AM
Lab ID:	1706R80-045	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	244945	1	07/01/2017 23:41	NP
Benzene	BRL		0.37	1.0	ug/L	244945	1	07/01/2017 23:41	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	244945	1	07/01/2017 23:41	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	244945	1	07/01/2017 23:41	NP
Naphthalene	BRL		0.93	5.0	ug/L	244945	1	07/01/2017 23:41	NP
Toluene	BRL		0.39	1.0	ug/L	244945	1	07/01/2017 23:41	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	244945	1	07/01/2017 23:41	NP
Surr: 4-Bromofluorobenzene	82.3		0	70-130	%REC	244945	1	07/01/2017 23:41	NP
Surr: Dibromofluoromethane	101		0	70-130	%REC	244945	1	07/01/2017 23:41	NP
Surr: Toluene-d8	99.5		0	70-130	%REC	244945	1	07/01/2017 23:41	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	244945	1	07/01/2017 23:41	NP
Ethanol	BRL		43	100	ug/L	244945	1	07/01/2017 23:41	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	244945	1	07/01/2017 23:41	NP
Isopropyl ether	BRL		3.8	10	ug/L	244945	1	07/01/2017 23:41	NP
tert-Amyl alcohol	BRL		28	100	ug/L	244945	1	07/01/2017 23:41	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	244945	1	07/01/2017 23:41	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	244945	1	07/01/2017 23:41	NP
tert-Butyl formate	BRL		13	100	ug/L	244945	1	07/01/2017 23:41	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jul-17

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 38
Project Name:	Clouds Exxon	**Collection Date:**	6/27/2017 7:20:00 AM
Lab ID:	1706R80-046	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	244945	1	07/02/2017 00:05	NP
Benzene	BRL		0.37	1.0	ug/L	244945	1	07/02/2017 00:05	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	244945	1	07/02/2017 00:05	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	244945	1	07/02/2017 00:05	NP
Naphthalene	BRL		0.93	5.0	ug/L	244945	1	07/02/2017 00:05	NP
Toluene	BRL		0.39	1.0	ug/L	244945	1	07/02/2017 00:05	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	244945	1	07/02/2017 00:05	NP
Surr: 4-Bromofluorobenzene	83		0	70-130	%REC	244945	1	07/02/2017 00:05	NP
Surr: Dibromofluoromethane	103		0	70-130	%REC	244945	1	07/02/2017 00:05	NP
Surr: Toluene-d8	98.2		0	70-130	%REC	244945	1	07/02/2017 00:05	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	244945	1	07/02/2017 00:05	NP
Ethanol	BRL		43	100	ug/L	244945	1	07/02/2017 00:05	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	244945	1	07/02/2017 00:05	NP
Isopropyl ether	BRL		3.8	10	ug/L	244945	1	07/02/2017 00:05	NP
tert-Amyl alcohol	BRL		28	100	ug/L	244945	1	07/02/2017 00:05	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	244945	1	07/02/2017 00:05	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	244945	1	07/02/2017 00:05	NP
tert-Butyl formate	BRL		13	100	ug/L	244945	1	07/02/2017 00:05	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jul-17

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 31
Project Name:	Clouds Exxon	**Collection Date:**	6/27/2017 7:30:00 AM
Lab ID:	1706R80-047	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	244945	1	07/02/2017 00:29	NP
Benzene	BRL		0.37	1.0	ug/L	244945	1	07/02/2017 00:29	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	244945	1	07/02/2017 00:29	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	244945	1	07/02/2017 00:29	NP
Naphthalene	BRL		0.93	5.0	ug/L	244945	1	07/02/2017 00:29	NP
Toluene	BRL		0.39	1.0	ug/L	244945	1	07/02/2017 00:29	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	244945	1	07/02/2017 00:29	NP
Surr: 4-Bromofluorobenzene	83		0	70-130	%REC	244945	1	07/02/2017 00:29	NP
Surr: Dibromofluoromethane	104		0	70-130	%REC	244945	1	07/02/2017 00:29	NP
Surr: Toluene-d8	98.7		0	70-130	%REC	244945	1	07/02/2017 00:29	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	244945	1	07/02/2017 00:29	NP
Ethanol	BRL		43	100	ug/L	244945	1	07/02/2017 00:29	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	244945	1	07/02/2017 00:29	NP
Isopropyl ether	BRL		3.8	10	ug/L	244945	1	07/02/2017 00:29	NP
tert-Amyl alcohol	BRL		28	100	ug/L	244945	1	07/02/2017 00:29	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	244945	1	07/02/2017 00:29	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	244945	1	07/02/2017 00:29	NP
tert-Butyl formate	BRL		13	100	ug/L	244945	1	07/02/2017 00:29	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jul-17

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 37
Project Name:	Clouds Exxon	**Collection Date:**	6/27/2017 7:40:00 AM
Lab ID:	1706R80-048	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	244945	1	07/02/2017 00:53	NP
Benzene	BRL		0.37	1.0	ug/L	244945	1	07/02/2017 00:53	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	244945	1	07/02/2017 00:53	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	244945	1	07/02/2017 00:53	NP
Naphthalene	BRL		0.93	5.0	ug/L	244945	1	07/02/2017 00:53	NP
Toluene	BRL		0.39	1.0	ug/L	244945	1	07/02/2017 00:53	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	244945	1	07/02/2017 00:53	NP
Surr: 4-Bromofluorobenzene	81.9		0	70-130	%REC	244945	1	07/02/2017 00:53	NP
Surr: Dibromofluoromethane	103		0	70-130	%REC	244945	1	07/02/2017 00:53	NP
Surr: Toluene-d8	99.2		0	70-130	%REC	244945	1	07/02/2017 00:53	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	244945	1	07/02/2017 00:53	NP
Ethanol	BRL		43	100	ug/L	244945	1	07/02/2017 00:53	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	244945	1	07/02/2017 00:53	NP
Isopropyl ether	BRL		3.8	10	ug/L	244945	1	07/02/2017 00:53	NP
tert-Amyl alcohol	BRL		28	100	ug/L	244945	1	07/02/2017 00:53	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	244945	1	07/02/2017 00:53	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	244945	1	07/02/2017 00:53	NP
tert-Butyl formate	BRL		13	100	ug/L	244945	1	07/02/2017 00:53	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jul-17

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 35
Project Name:	Clouds Exxon	**Collection Date:**	6/27/2017 7:50:00 AM
Lab ID:	1706R80-049	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	244945	1	07/05/2017 12:46	NP
Benzene	3100		7.5	20	ug/L	244945	20	07/01/2017 18:07	NP
Ethylbenzene	2400		5.1	20	ug/L	244945	20	07/01/2017 18:07	NP
Methyl tert-butyl ether	56		0.45	1.0	ug/L	244945	1	07/05/2017 12:46	NP
Naphthalene	780		19	100	ug/L	244945	20	07/01/2017 18:07	NP
Toluene	3800		7.9	20	ug/L	244945	20	07/01/2017 18:07	NP
Xylenes, Total	4700		15	20	ug/L	244945	20	07/01/2017 18:07	NP
Surr: 4-Bromofluorobenzene	100		0	70-130	%REC	244945	1	07/05/2017 12:46	NP
Surr: 4-Bromofluorobenzene	93.3		0	70-130	%REC	244945	20	07/01/2017 18:07	NP
Surr: Dibromofluoromethane	88.5		0	70-130	%REC	244945	1	07/05/2017 12:46	NP
Surr: Dibromofluoromethane	96.7		0	70-130	%REC	244945	20	07/01/2017 18:07	NP
Surr: Toluene-d8	97.8		0	70-130	%REC	244945	1	07/05/2017 12:46	NP
Surr: Toluene-d8	99.4		0	70-130	%REC	244945	20	07/01/2017 18:07	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	244945	1	07/05/2017 12:46	NP
Ethanol	BRL		43	100	ug/L	244945	1	07/05/2017 12:46	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	244945	1	07/05/2017 12:46	NP
Isopropyl ether	120		3.8	10	ug/L	244945	1	07/05/2017 12:46	NP
tert-Amyl alcohol	3000		560	2000	ug/L	244945	20	07/01/2017 18:07	NP
tert-Amyl methyl ether	29		3.4	10	ug/L	244945	1	07/05/2017 12:46	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	244945	1	07/05/2017 12:46	NP
tert-Butyl formate	BRL		13	100	ug/L	244945	1	07/05/2017 12:46	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jul-17

Client:	Crawford Environmental Services	**Client Sample ID:**	DUP 1
Project Name:	Clouds Exxon	**Collection Date:**	6/27/2017 7:55:00 AM
Lab ID:	1706R80-050	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	244945	1	07/05/2017 13:10	NP
Benzene	3000		7.5	20	ug/L	244945	20	07/01/2017 19:43	NP
Ethylbenzene	2400		5.1	20	ug/L	244945	20	07/01/2017 19:43	NP
Methyl tert-butyl ether	59		0.45	1.0	ug/L	244945	1	07/05/2017 13:10	NP
Naphthalene	800		19	100	ug/L	244945	20	07/01/2017 19:43	NP
Toluene	3600		7.9	20	ug/L	244945	20	07/01/2017 19:43	NP
Xylenes, Total	4600		15	20	ug/L	244945	20	07/01/2017 19:43	NP
Surr: 4-Bromofluorobenzene	104		0	70-130	%REC	244945	1	07/05/2017 13:10	NP
Surr: 4-Bromofluorobenzene	95.6		0	70-130	%REC	244945	20	07/01/2017 19:43	NP
Surr: Dibromofluoromethane	90.4		0	70-130	%REC	244945	1	07/05/2017 13:10	NP
Surr: Dibromofluoromethane	95		0	70-130	%REC	244945	20	07/01/2017 19:43	NP
Surr: Toluene-d8	99		0	70-130	%REC	244945	1	07/05/2017 13:10	NP
Surr: Toluene-d8	97.5		0	70-130	%REC	244945	20	07/01/2017 19:43	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	244945	1	07/05/2017 13:10	NP
Ethanol	BRL		43	100	ug/L	244945	1	07/05/2017 13:10	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	244945	1	07/05/2017 13:10	NP
Isopropyl ether	120		3.8	10	ug/L	244945	1	07/05/2017 13:10	NP
tert-Amyl alcohol	3000		560	2000	ug/L	244945	20	07/01/2017 19:43	NP
tert-Amyl methyl ether	35		3.4	10	ug/L	244945	1	07/05/2017 13:10	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	244945	1	07/05/2017 13:10	NP
tert-Butyl formate	BRL		13	100	ug/L	244945	1	07/05/2017 13:10	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jul-17

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 34
Project Name:	Clouds Exxon	**Collection Date:**	6/27/2017 8:00:00 AM
Lab ID:	1706R80-051	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	244945	1	07/02/2017 01:16	NP
Benzene	BRL		0.37	1.0	ug/L	244945	1	07/02/2017 01:16	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	244945	1	07/02/2017 01:16	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	244945	1	07/02/2017 01:16	NP
Naphthalene	BRL		0.93	5.0	ug/L	244945	1	07/02/2017 01:16	NP
Toluene	BRL		0.39	1.0	ug/L	244945	1	07/02/2017 01:16	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	244945	1	07/02/2017 01:16	NP
Surr: 4-Bromofluorobenzene	84.4		0	70-130	%REC	244945	1	07/02/2017 01:16	NP
Surr: Dibromofluoromethane	103		0	70-130	%REC	244945	1	07/02/2017 01:16	NP
Surr: Toluene-d8	98		0	70-130	%REC	244945	1	07/02/2017 01:16	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	244945	1	07/02/2017 01:16	NP
Ethanol	BRL		43	100	ug/L	244945	1	07/02/2017 01:16	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	244945	1	07/02/2017 01:16	NP
Isopropyl ether	BRL		3.8	10	ug/L	244945	1	07/02/2017 01:16	NP
tert-Amyl alcohol	BRL		28	100	ug/L	244945	1	07/02/2017 01:16	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	244945	1	07/02/2017 01:16	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	244945	1	07/02/2017 01:16	NP
tert-Butyl formate	BRL		13	100	ug/L	244945	1	07/02/2017 01:16	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jul-17

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 18
Project Name:	Clouds Exxon	**Collection Date:**	6/27/2017 8:10:00 AM
Lab ID:	1706R80-052	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	244945	1	07/05/2017 15:58	NP
Benzene	310		7.5	20	ug/L	244945	20	07/01/2017 20:07	NP
Ethylbenzene	300		5.1	20	ug/L	244945	20	07/01/2017 20:07	NP
Methyl tert-butyl ether	6.3		0.45	1.0	ug/L	244945	1	07/05/2017 15:58	NP
Naphthalene	140		0.93	5.0	ug/L	244945	1	07/05/2017 15:58	NP
Toluene	1800		7.9	20	ug/L	244945	20	07/01/2017 20:07	NP
Xylenes, Total	4100		15	20	ug/L	244945	20	07/01/2017 20:07	NP
Surr: 4-Bromofluorobenzene	100		0	70-130	%REC	244945	1	07/05/2017 15:58	NP
Surr: 4-Bromofluorobenzene	88.8		0	70-130	%REC	244945	20	07/01/2017 20:07	NP
Surr: Dibromofluoromethane	90.7		0	70-130	%REC	244945	1	07/05/2017 15:58	NP
Surr: Dibromofluoromethane	97.7		0	70-130	%REC	244945	20	07/01/2017 20:07	NP
Surr: Toluene-d8	97		0	70-130	%REC	244945	1	07/05/2017 15:58	NP
Surr: Toluene-d8	97.9		0	70-130	%REC	244945	20	07/01/2017 20:07	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	244945	1	07/05/2017 15:58	NP
Ethanol	BRL		43	100	ug/L	244945	1	07/05/2017 15:58	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	244945	1	07/05/2017 15:58	NP
Isopropyl ether	11		3.8	10	ug/L	244945	1	07/05/2017 15:58	NP
tert-Amyl alcohol	190		28	100	ug/L	244945	1	07/05/2017 15:58	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	244945	1	07/05/2017 15:58	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	244945	1	07/05/2017 15:58	NP
tert-Butyl formate	BRL		13	100	ug/L	244945	1	07/05/2017 15:58	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jul-17

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 33
Project Name:	Clouds Exxon	**Collection Date:**	6/27/2017 8:20:00 AM
Lab ID:	1706R80-053	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	244945	1	07/01/2017 20:54	NP
Benzene	80		0.37	1.0	ug/L	244945	1	07/01/2017 20:54	NP
Ethylbenzene	100		0.26	1.0	ug/L	244945	1	07/01/2017 20:54	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	244945	1	07/01/2017 20:54	NP
Naphthalene	210		9.3	50	ug/L	244945	10	07/01/2017 21:18	NP
Toluene	250		3.9	10	ug/L	244945	10	07/01/2017 21:18	NP
Xylenes, Total	1400		7.7	10	ug/L	244945	10	07/01/2017 21:18	NP
Surr: 4-Bromofluorobenzene	92.1		0	70-130	%REC	244945	10	07/01/2017 21:18	NP
Surr: 4-Bromofluorobenzene	99.1		0	70-130	%REC	244945	1	07/01/2017 20:54	NP
Surr: Dibromofluoromethane	92.7		0	70-130	%REC	244945	1	07/01/2017 20:54	NP
Surr: Dibromofluoromethane	94.3		0	70-130	%REC	244945	10	07/01/2017 21:18	NP
Surr: Toluene-d8	98.9		0	70-130	%REC	244945	1	07/01/2017 20:54	NP
Surr: Toluene-d8	99.3		0	70-130	%REC	244945	10	07/01/2017 21:18	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	244945	1	07/01/2017 20:54	NP
Ethanol	BRL		43	100	ug/L	244945	1	07/01/2017 20:54	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	244945	1	07/01/2017 20:54	NP
Isopropyl ether	9.3	J	3.8	10	ug/L	244945	1	07/01/2017 20:54	NP
tert-Amyl alcohol	860		28	100	ug/L	244945	1	07/01/2017 20:54	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	244945	1	07/01/2017 20:54	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	244945	1	07/01/2017 20:54	NP
tert-Butyl formate	BRL		13	100	ug/L	244945	1	07/01/2017 20:54	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jul-17

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 36
Project Name:	Clouds Exxon	**Collection Date:**	6/27/2017 9:20:00 AM
Lab ID:	1706R80-054	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	244945	1	07/02/2017 01:40	NP
Benzene	1.0		0.37	1.0	ug/L	244945	1	07/02/2017 01:40	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	244945	1	07/02/2017 01:40	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	244945	1	07/02/2017 01:40	NP
Naphthalene	47		0.93	5.0	ug/L	244945	1	07/02/2017 01:40	NP
Toluene	BRL		0.39	1.0	ug/L	244945	1	07/02/2017 01:40	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	244945	1	07/02/2017 01:40	NP
Surr: 4-Bromofluorobenzene	84.2		0	70-130	%REC	244945	1	07/02/2017 01:40	NP
Surr: Dibromofluoromethane	101		0	70-130	%REC	244945	1	07/02/2017 01:40	NP
Surr: Toluene-d8	103		0	70-130	%REC	244945	1	07/02/2017 01:40	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	244945	1	07/02/2017 01:40	NP
Ethanol	BRL		43	100	ug/L	244945	1	07/02/2017 01:40	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	244945	1	07/02/2017 01:40	NP
Isopropyl ether	BRL		3.8	10	ug/L	244945	1	07/02/2017 01:40	NP
tert-Amyl alcohol	BRL		28	100	ug/L	244945	1	07/02/2017 01:40	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	244945	1	07/02/2017 01:40	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	244945	1	07/02/2017 01:40	NP
tert-Butyl formate	BRL		13	100	ug/L	244945	1	07/02/2017 01:40	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jul-17

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 30
Project Name:	Clouds Exxon	**Collection Date:**	6/27/2017 9:10:00 AM
Lab ID:	1706R80-055	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	244945	1	07/02/2017 02:04	NP
Benzene	BRL		0.37	1.0	ug/L	244945	1	07/02/2017 02:04	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	244945	1	07/02/2017 02:04	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	244945	1	07/02/2017 02:04	NP
Naphthalene	BRL		0.93	5.0	ug/L	244945	1	07/02/2017 02:04	NP
Toluene	BRL		0.39	1.0	ug/L	244945	1	07/02/2017 02:04	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	244945	1	07/02/2017 02:04	NP
Surr: 4-Bromofluorobenzene	80		0	70-130	%REC	244945	1	07/02/2017 02:04	NP
Surr: Dibromofluoromethane	103		0	70-130	%REC	244945	1	07/02/2017 02:04	NP
Surr: Toluene-d8	97.9		0	70-130	%REC	244945	1	07/02/2017 02:04	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	244945	1	07/02/2017 02:04	NP
Ethanol	BRL		43	100	ug/L	244945	1	07/02/2017 02:04	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	244945	1	07/02/2017 02:04	NP
Isopropyl ether	BRL		3.8	10	ug/L	244945	1	07/02/2017 02:04	NP
tert-Amyl alcohol	BRL		28	100	ug/L	244945	1	07/02/2017 02:04	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	244945	1	07/02/2017 02:04	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	244945	1	07/02/2017 02:04	NP
tert-Butyl formate	BRL		13	100	ug/L	244945	1	07/02/2017 02:04	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jul-17

Client:	Crawford Environmental Services	**Client Sample ID:**	DUP 2
Project Name:	Clouds Exxon	**Collection Date:**	6/27/2017 10:25:00 AM
Lab ID:	1706R80-056	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	244945	1	07/05/2017 16:46	NP
Benzene	400		3.7	10	ug/L	244945	10	07/06/2017 09:48	NP
Ethylbenzene	76		0.26	1.0	ug/L	244945	1	07/05/2017 16:46	NP
Methyl tert-butyl ether	6.2		0.45	1.0	ug/L	244945	1	07/05/2017 16:46	NP
Naphthalene	370		9.3	50	ug/L	244945	10	07/06/2017 09:48	NP
Toluene	1700		3.9	10	ug/L	244945	10	07/06/2017 09:48	NP
Xylenes, Total	4100		7.7	10	ug/L	244945	10	07/06/2017 09:48	NP
Surr: 4-Bromofluorobenzene	96.7		0	70-130	%REC	244945	10	07/06/2017 09:48	NP
Surr: 4-Bromofluorobenzene	100		0	70-130	%REC	244945	1	07/05/2017 16:46	NP
Surr: Dibromofluoromethane	91.3		0	70-130	%REC	244945	1	07/05/2017 16:46	NP
Surr: Dibromofluoromethane	94.6		0	70-130	%REC	244945	10	07/06/2017 09:48	NP
Surr: Toluene-d8	99.1		0	70-130	%REC	244945	1	07/05/2017 16:46	NP
Surr: Toluene-d8	100		0	70-130	%REC	244945	10	07/06/2017 09:48	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	244945	1	07/05/2017 16:46	NP
Ethanol	BRL		43	100	ug/L	244945	1	07/05/2017 16:46	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	244945	1	07/05/2017 16:46	NP
Isopropyl ether	21		3.8	10	ug/L	244945	1	07/05/2017 16:46	NP
tert-Amyl alcohol	980		28	100	ug/L	244945	1	07/05/2017 16:46	NP
tert-Amyl methyl ether	9.9	J	3.4	10	ug/L	244945	1	07/05/2017 16:46	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	244945	1	07/05/2017 16:46	NP
tert-Butyl formate	BRL		13	100	ug/L	244945	1	07/05/2017 16:46	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jul-17

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 32
Project Name:	Clouds Exxon	**Collection Date:**	6/27/2017 9:00:00 AM
Lab ID:	1706R80-057	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	244945	1	07/02/2017 02:28	NP
Benzene	BRL		0.37	1.0	ug/L	244945	1	07/02/2017 02:28	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	244945	1	07/02/2017 02:28	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	244945	1	07/02/2017 02:28	NP
Naphthalene	1.4	J	0.93	5.0	ug/L	244945	1	07/02/2017 02:28	NP
Toluene	BRL		0.39	1.0	ug/L	244945	1	07/02/2017 02:28	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	244945	1	07/02/2017 02:28	NP
Surr: 4-Bromofluorobenzene	80.5		0	70-130	%REC	244945	1	07/02/2017 02:28	NP
Surr: Dibromofluoromethane	103		0	70-130	%REC	244945	1	07/02/2017 02:28	NP
Surr: Toluene-d8	99.6		0	70-130	%REC	244945	1	07/02/2017 02:28	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	244945	1	07/02/2017 02:28	NP
Ethanol	BRL		43	100	ug/L	244945	1	07/02/2017 02:28	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	244945	1	07/02/2017 02:28	NP
Isopropyl ether	BRL		3.8	10	ug/L	244945	1	07/02/2017 02:28	NP
tert-Amyl alcohol	BRL		28	100	ug/L	244945	1	07/02/2017 02:28	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	244945	1	07/02/2017 02:28	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	244945	1	07/02/2017 02:28	NP
tert-Butyl formate	BRL		13	100	ug/L	244945	1	07/02/2017 02:28	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jul-17

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 27
Project Name:	Clouds Exxon	**Collection Date:**	6/27/2017 8:50:00 AM
Lab ID:	1706R80-058	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	244945	1	07/02/2017 02:52	NP
Benzene	BRL		0.37	1.0	ug/L	244945	1	07/02/2017 02:52	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	244945	1	07/02/2017 02:52	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	244945	1	07/02/2017 02:52	NP
Naphthalene	BRL		0.93	5.0	ug/L	244945	1	07/02/2017 02:52	NP
Toluene	BRL		0.39	1.0	ug/L	244945	1	07/02/2017 02:52	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	244945	1	07/02/2017 02:52	NP
Surr: 4-Bromofluorobenzene	84.3		0	70-130	%REC	244945	1	07/02/2017 02:52	NP
Surr: Dibromofluoromethane	105		0	70-130	%REC	244945	1	07/02/2017 02:52	NP
Surr: Toluene-d8	98.8		0	70-130	%REC	244945	1	07/02/2017 02:52	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	244945	1	07/02/2017 02:52	NP
Ethanol	BRL		43	100	ug/L	244945	1	07/02/2017 02:52	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	244945	1	07/02/2017 02:52	NP
Isopropyl ether	BRL		3.8	10	ug/L	244945	1	07/02/2017 02:52	NP
tert-Amyl alcohol	BRL		28	100	ug/L	244945	1	07/02/2017 02:52	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	244945	1	07/02/2017 02:52	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	244945	1	07/02/2017 02:52	NP
tert-Butyl formate	BRL		13	100	ug/L	244945	1	07/02/2017 02:52	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jul-17

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 28
Project Name:	Clouds Exxon	**Collection Date:**	6/27/2017 8:40:00 AM
Lab ID:	1706R80-059	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	244945	1	07/02/2017 03:15	NP
Benzene	BRL		0.37	1.0	ug/L	244945	1	07/02/2017 03:15	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	244945	1	07/02/2017 03:15	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	244945	1	07/02/2017 03:15	NP
Naphthalene	BRL		0.93	5.0	ug/L	244945	1	07/02/2017 03:15	NP
Toluene	BRL		0.39	1.0	ug/L	244945	1	07/02/2017 03:15	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	244945	1	07/02/2017 03:15	NP
Surr: 4-Bromofluorobenzene	81.6		0	70-130	%REC	244945	1	07/02/2017 03:15	NP
Surr: Dibromofluoromethane	110		0	70-130	%REC	244945	1	07/02/2017 03:15	NP
Surr: Toluene-d8	102		0	70-130	%REC	244945	1	07/02/2017 03:15	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	244945	1	07/02/2017 03:15	NP
Ethanol	BRL		43	100	ug/L	244945	1	07/02/2017 03:15	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	244945	1	07/02/2017 03:15	NP
Isopropyl ether	BRL		3.8	10	ug/L	244945	1	07/02/2017 03:15	NP
tert-Amyl alcohol	BRL		28	100	ug/L	244945	1	07/02/2017 03:15	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	244945	1	07/02/2017 03:15	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	244945	1	07/02/2017 03:15	NP
tert-Butyl formate	BRL		13	100	ug/L	244945	1	07/02/2017 03:15	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jul-17

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 29
Project Name:	Clouds Exxon	**Collection Date:**	6/27/2017 8:30:00 AM
Lab ID:	1706R80-060	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	244945	1	07/02/2017 03:39	NP
Benzene	BRL		0.37	1.0	ug/L	244945	1	07/02/2017 03:39	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	244945	1	07/02/2017 03:39	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	244945	1	07/02/2017 03:39	NP
Naphthalene	BRL		0.93	5.0	ug/L	244945	1	07/02/2017 03:39	NP
Toluene	BRL		0.39	1.0	ug/L	244945	1	07/02/2017 03:39	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	244945	1	07/02/2017 03:39	NP
Surr: 4-Bromofluorobenzene	79.2		0	70-130	%REC	244945	1	07/02/2017 03:39	NP
Surr: Dibromofluoromethane	105		0	70-130	%REC	244945	1	07/02/2017 03:39	NP
Surr: Toluene-d8	101		0	70-130	%REC	244945	1	07/02/2017 03:39	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	244945	1	07/02/2017 03:39	NP
Ethanol	BRL		43	100	ug/L	244945	1	07/02/2017 03:39	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	244945	1	07/02/2017 03:39	NP
Isopropyl ether	BRL		3.8	10	ug/L	244945	1	07/02/2017 03:39	NP
tert-Amyl alcohol	BRL		28	100	ug/L	244945	1	07/02/2017 03:39	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	244945	1	07/02/2017 03:39	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	244945	1	07/02/2017 03:39	NP
tert-Butyl formate	BRL		13	100	ug/L	244945	1	07/02/2017 03:39	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jul-17

Client:	Crawford Environmental Services	**Client Sample ID:**	FB-1
Project Name:	Clouds Exxon	**Collection Date:**	6/27/2017 3:00:00 PM
Lab ID:	1706R80-061	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	244948	1	07/03/2017 10:47	NP
Benzene	BRL		0.37	1.0	ug/L	244948	1	07/03/2017 10:47	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	244948	1	07/03/2017 10:47	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	244948	1	07/03/2017 10:47	NP
Naphthalene	BRL		0.93	5.0	ug/L	244948	1	07/03/2017 10:47	NP
Toluene	BRL		0.39	1.0	ug/L	244948	1	07/03/2017 10:47	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	244948	1	07/03/2017 10:47	NP
Surr: 4-Bromofluorobenzene	82.7		0	70-130	%REC	244948	1	07/03/2017 10:47	NP
Surr: Dibromofluoromethane	106		0	70-130	%REC	244948	1	07/03/2017 10:47	NP
Surr: Toluene-d8	95.2		0	70-130	%REC	244948	1	07/03/2017 10:47	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	244948	1	07/03/2017 10:47	NP
Ethanol	BRL		43	100	ug/L	244948	1	07/03/2017 10:47	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	244948	1	07/03/2017 10:47	NP
Isopropyl ether	BRL		3.8	10	ug/L	244948	1	07/03/2017 10:47	NP
tert-Amyl alcohol	BRL		28	100	ug/L	244948	1	07/03/2017 10:47	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	244948	1	07/03/2017 10:47	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	244948	1	07/03/2017 10:47	NP
tert-Butyl formate	BRL		13	100	ug/L	244948	1	07/03/2017 10:47	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jul-17

Client:	Crawford Environmental Services	**Client Sample ID:**	TRIP BLANK
Project Name:	Clouds Exxon	**Collection Date:**	6/29/2017 10:25:00 AM
Lab ID:	1706R80-062	**Matrix:**	Aqueous

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	244948	1	07/03/2017 11:10	NP
Benzene	BRL		0.37	1.0	ug/L	244948	1	07/03/2017 11:10	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	244948	1	07/03/2017 11:10	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	244948	1	07/03/2017 11:10	NP
Naphthalene	BRL		0.93	5.0	ug/L	244948	1	07/03/2017 11:10	NP
Toluene	BRL		0.39	1.0	ug/L	244948	1	07/03/2017 11:10	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	244948	1	07/03/2017 11:10	NP
Surr: 4-Bromofluorobenzene	86.7		0	70-130	%REC	244948	1	07/03/2017 11:10	NP
Surr: Dibromofluoromethane	104		0	70-130	%REC	244948	1	07/03/2017 11:10	NP
Surr: Toluene-d8	99.7		0	70-130	%REC	244948	1	07/03/2017 11:10	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	244948	1	07/03/2017 11:10	NP
Ethanol	BRL		43	100	ug/L	244948	1	07/03/2017 11:10	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	244948	1	07/03/2017 11:10	NP
Isopropyl ether	BRL		3.8	10	ug/L	244948	1	07/03/2017 11:10	NP
tert-Amyl alcohol	BRL		28	100	ug/L	244948	1	07/03/2017 11:10	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	244948	1	07/03/2017 11:10	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	244948	1	07/03/2017 11:10	NP
tert-Butyl formate	BRL		13	100	ug/L	244948	1	07/03/2017 11:10	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jul-17

Client:	Crawford Environmental Services	**Client Sample ID:**	DUP-3
Project Name:	Clouds Exxon	**Collection Date:**	6/28/2017 12:35:00 PM
Lab ID:	1706R80-063	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	244948	1	07/03/2017 11:34	NP
Benzene	BRL		0.37	1.0	ug/L	244948	1	07/03/2017 11:34	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	244948	1	07/03/2017 11:34	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	244948	1	07/03/2017 11:34	NP
Naphthalene	BRL		0.93	5.0	ug/L	244948	1	07/03/2017 11:34	NP
Toluene	BRL		0.39	1.0	ug/L	244948	1	07/03/2017 11:34	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	244948	1	07/03/2017 11:34	NP
Surr: 4-Bromofluorobenzene	84.1		0	70-130	%REC	244948	1	07/03/2017 11:34	NP
Surr: Dibromofluoromethane	104		0	70-130	%REC	244948	1	07/03/2017 11:34	NP
Surr: Toluene-d8	100		0	70-130	%REC	244948	1	07/03/2017 11:34	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	244948	1	07/03/2017 11:34	NP
Ethanol	BRL		43	100	ug/L	244948	1	07/03/2017 11:34	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	244948	1	07/03/2017 11:34	NP
Isopropyl ether	BRL		3.8	10	ug/L	244948	1	07/03/2017 11:34	NP
tert-Amyl alcohol	BRL		28	100	ug/L	244948	1	07/03/2017 11:34	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	244948	1	07/03/2017 11:34	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	244948	1	07/03/2017 11:34	NP
tert-Butyl formate	BRL		13	100	ug/L	244948	1	07/03/2017 11:34	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Clear Save as

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: **Access Analytical, Inc.** AES Work Order Number: **1706R80**

2. Carrier: FedEx ■ UPS ☐ USPS ☐ Client ☐ Courier ☐ Other ____

		Yes	No	N/A	Details	Comments
3.	Shipping container/cooler received in good condition?	●	○	○	damaged ☐ leaking ☐ other ☐	
4.	Custody seals present on shipping container?	○	●	○		
5.	Custody seals intact on shipping container?	○	○	●		
6.	Temperature blanks present?	○	●	○		
7.	Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	●	○	○	Cooling initiated for recently collected samples / ice present ☐	
8.	Chain of Custody (COC) present?	●	○	○		
9.	Chain of Custody signed, dated, and timed when relinquished and received?	●	○	○		
10.	Sampler name and/or signature on COC?	●	○	○		
11.	Were all samples received within holding time?	●	○	○		
12.	TAT marked on the COC?	●	○	○	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. ☐	

13. Cooler 1 Temperature 4.8 °C Cooler 2 Temperature 3.4 °C Cooler 3 Temperature ____ °C Cooler 4 Temperature ____ °C

14. Cooler 5 Temperature ____ °C Cooler 6 Temperature ____ °C Cooler 7 Temperature ____ °C Cooler 8 Temperature ____ °C

15. Comments: ____

I certify that I have completed sections 1-15 (dated initials). MJ 6/29/17

		Yes	No	N/A	Details	Comments
16.	Were sample containers intact upon receipt?	●	○	○		
17.	Custody seals present on sample containers?	○	●	○		
18.	Custody seals intact on sample containers?	○	○	●		
19.	Do sample container labels match the COC?	○	●	○	incomplete info ☐ illegible ☐ no label ☐ other ■	
20.	Are analyses requested indicated on the COC?	●	○	○		
21.	Were all of the samples listed on the COC received?	○	●	○	samples received but not listed on COC ■ samples listed on COC not received ☐	
22.	Was the sample collection date/time noted?	●	○	○		
23.	Did we receive sufficient sample volume for indicated analyses?	●	○	○		
24.	Were samples received in appropriate containers?	●	○	○		
25.	Were VOA samples received without headspace (< 1/4" bubble)?	●	○	○		
26.	Were trip blanks submitted?	●	○	○	listed on COC ☐ not listed on COC ■	

27. Comments: ____

I certify that I have completed sections 16-27 (dated initials). AJ 6/29/17

		Yes	No	N/A	Details	Comments
28.	Have containers needing chemical preservation been checked?	○	○	●		
29.	Containers meet preservation guidelines?	○	○	●		
30.	Was pH adjusted?	○	○	●		

I certify that I have completed sections 28-30 (dated initials). AJ 6/29/17

Checklist 1/19/17 Rev 0.

Locked

Client: Crawford Environmental Services
Project Name: Clouds Exxon
Workorder: 1706R80

ANALYTICAL QC SUMMARY REPORT

BatchID: 244942

Sample ID: MB-244942	Client ID:		Units: ug/L	Prep Date: 06/30/2017	Run No: 346744
SampleType: MBLK	TestCode: Volatile Organic Compounds by GC/MS SW8260B		BatchID: 244942	Analysis Date: 06/30/2017	Seq No: 7614696

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	BRL	1.0									
Benzene	BRL	1.0									
Ethylbenzene	BRL	1.0									
Methyl tert-butyl ether	BRL	1.0									
Naphthalene	BRL	5.0									
Toluene	BRL	1.0									
Xylenes, Total	BRL	1.0									
Surr: 4-Bromofluorobenzene	41.53	0	50.00		83.1	70	130				
Surr: Dibromofluoromethane	49.35	0	50.00		98.7	70	130				
Surr: Toluene-d8	49.36	0	50.00		98.7	70	130				

Sample ID: MB-244942	Client ID:		Units: ug/L	Prep Date: 06/30/2017	Run No: 346744
SampleType: MBLK	TestCode: Oxygenates SW8260B		BatchID: 244942	Analysis Date: 06/30/2017	Seq No: 7614911

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
3,3-Dimethyl-1-butanol	BRL	100									
Ethanol	BRL	100									
Ethyl tert-butyl ether	BRL	100									
Isopropyl ether	BRL	10									
tert-Amyl alcohol	BRL	100									
tert-Amyl methyl ether	BRL	10									
tert-Butyl Alcohol	BRL	100									
tert-Butyl formate	BRL	100									

Sample ID: LCS-244942	Client ID:		Units: ug/L	Prep Date: 06/30/2017	Run No: 346744
SampleType: LCS	TestCode: Volatile Organic Compounds by GC/MS SW8260B		BatchID: 244942	Analysis Date: 06/30/2017	Seq No: 7614692

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Qualifiers:
- `>` Greater than Result value
- `<` Less than Result value
- B Analyte detected in the associated method Blank
- BRL Below reporting limit
- E Estimated (value above quantitation range)
- H Holding times for preparation or analysis exceeded
- J Estimated value detected below Reporting Limit
- N Analyte not NELAC certified
- R RPD outside limits due to matrix
- Rpt Lim Reporting Limit
- S Spike Recovery outside limits due to matrix

Client: Crawford Environmental Services
Project Name: Clouds Exxon
Workorder: 1706R80

ANALYTICAL QC SUMMARY REPORT

BatchID: 244942

Sample ID: LCS-244942	Client ID:	Units: ug/L	Prep Date: 06/30/2017	Run No: 346744
SampleType: LCS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 244942	Analysis Date: 06/30/2017	Seq No: 7614692

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	21.00	1.0	20.00		105	70	130				
Benzene	20.31	1.0	20.00		102	70	130				
Ethylbenzene	19.38	1.0	20.00		96.9	70	130				
Naphthalene	19.23	5.0	20.00		96.2	70	130				
Toluene	19.35	1.0	20.00		96.8	70	130				
Xylenes, Total	58.80	1.0	60.00		98.0	70	130				
Surr: 4-Bromofluorobenzene	44.78	0	50.00		89.6	70	130				
Surr: Dibromofluoromethane	52.12	0	50.00		104	70	130				
Surr: Toluene-d8	46.64	0	50.00		93.3	70	130				

Sample ID: LCS-244942	Client ID:	Units: ug/L	Prep Date: 06/30/2017	Run No: 346744
SampleType: LCS	TestCode: Oxygenates SW8260B	BatchID: 244942	Analysis Date: 06/30/2017	Seq No: 7614909

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
3,3-Dimethyl-1-butanol	974.2	100	1000		97.4	70	130				
Ethanol	1108	100	1000		111	70	130				
Ethyl tert-butyl ether	213.4	100	200.0		107	70	130				
Isopropyl ether	210.7	10	200.0		105	70	130				
tert-Amyl alcohol	1088	100	1000		109	70	130				
tert-Amyl methyl ether	209.7	10	200.0		105	70	130				
tert-Butyl Alcohol	1110	100	1000		111	70	130				
tert-Butyl formate	1079	100	1000		108	70	130				

Sample ID: 1706R80-001AMS	Client ID: MW15	Units: ug/L	Prep Date: 06/30/2017	Run No: 346744
SampleType: MS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 244942	Analysis Date: 06/30/2017	Seq No: 7614700

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	9160	500	10000		91.6	71.9	139				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method Blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Crawford Environmental Services
Project Name: Clouds Exxon
Workorder: 1706R80

ANALYTICAL QC SUMMARY REPORT

BatchID: 244942

Sample ID: 1706R80-001AMS	Client ID: MW15	Units: ug/L	Prep Date: 06/30/2017	Run No: 346744
SampleType: MS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 244942	Analysis Date: 06/30/2017	Seq No: 7614700

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	8850	500	10000		88.5	71.6	132				
Ethylbenzene	8770	500	10000	230.0	85.4	81.2	130				
Naphthalene	9045	2500	10000		90.4	51.8	132				
Toluene	8915	500	10000		89.2	72.5	135				
Xylenes, Total	32210	500	30000	4880	91.1	76.1	139				
Surr: 4-Bromofluorobenzene	23060	0	25000		92.2	70	130				
Surr: Dibromofluoromethane	25630	0	25000		103	70	130				
Surr: Toluene-d8	24300	0	25000		97.2	70	130				

Sample ID: 1706R80-001AMS	Client ID: MW15	Units: ug/L	Prep Date: 06/30/2017	Run No: 346744
SampleType: MS	TestCode: Oxygenates SW8260B	BatchID: 244942	Analysis Date: 06/30/2017	Seq No: 7614918

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
3,3-Dimethyl-1-butanol	177100	50000	250000		70.8	60.3	131				
Ethanol	218200	50000	250000		87.3	60.6	136				
Ethyl tert-butyl ether	46400	10000	50000		92.8	70.3	129				
Isopropyl ether	47210	5000	50000		94.4	70.1	130				
tert-Amyl alcohol	191600	50000	250000		76.7	67.6	135				
tert-Amyl methyl ether	45760	5000	50000		91.5	70	128				
tert-Butyl Alcohol	177300	50000	250000		70.9	64	140				
tert-Butyl formate	250300	50000	250000		100	55.3	128				

Sample ID: 1706R80-001AMSD	Client ID: MW15	Units: ug/L	Prep Date: 06/30/2017	Run No: 346744
SampleType: MSD	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 244942	Analysis Date: 06/30/2017	Seq No: 7614701

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	9570	500	10000		95.7	71.9	139	9160	4.38	20	
Benzene	8765	500	10000		87.6	71.6	132	8850	0.965	20.7	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Crawford Environmental Services
Project Name: Clouds Exxon
Workorder: 1706R80

ANALYTICAL QC SUMMARY REPORT

BatchID: 244942

Sample ID: 1706R80-001AMSD	Client ID: MW15	Units: ug/L	Prep Date: 06/30/2017	Run No: 346744
SampleType: MSD	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 244942	Analysis Date: 06/30/2017	Seq No: 7614701

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethylbenzene	8630	500	10000	230.0	84.0	81.2	130	8770	1.61	20	
Naphthalene	9030	2500	10000		90.3	51.8	132	9045	0.166	37.8	
Toluene	9035	500	10000		90.4	72.5	135	8915	1.34	23.2	
Xylenes, Total	31190	500	30000	4880	87.7	76.1	139	32210	3.22	20	
Surr: 4-Bromofluorobenzene	22750	0	25000		91.0	70	130	23060	0	0	
Surr: Dibromofluoromethane	25230	0	25000		101	70	130	25630	0	0	
Surr: Toluene-d8	24340	0	25000		97.4	70	130	24300	0	0	

Sample ID: 1706R80-001AMSD	Client ID: MW15	Units: ug/L	Prep Date: 06/30/2017	Run No: 346744
SampleType: MSD	TestCode: Oxygenates SW8260B	BatchID: 244942	Analysis Date: 06/30/2017	Seq No: 7614921

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
3,3-Dimethyl-1-butanol	198500	50000	250000		79.4	60.3	131	177100	11.4	19.3	
Ethanol	295600	50000	250000		118	60.6	136	218200	30.1	33.3	
Ethyl tert-butyl ether	45920	10000	50000		91.8	70.3	129	46400	1.04	20	
Isopropyl ether	46590	5000	50000		93.2	70.1	130	47210	1.32	20	
tert-Amyl alcohol	226000	50000	250000		90.4	67.6	135	191600	16.4	19.8	
tert-Amyl methyl ether	45390	5000	50000		90.8	70	128	45760	0.823	20	
tert-Butyl Alcohol	215000	50000	250000		86.0	64	140	177300	19.2	25	
tert-Butyl formate	245700	50000	250000		98.3	55.3	128	250300	1.88	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value
B	Analyte detected in the associated method Blank	BRL	Below reporting limit
E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified
R	RPD outside limits due to matrix	Rpt Lim	Reporting Limit
S	Spike Recovery outside limits due to matrix		

Client: Crawford Environmental Services
Project Name: Clouds Exxon
Workorder: 1706R80

ANALYTICAL QC SUMMARY REPORT

BatchID: 244943

Sample ID: **MB-244943**	Client ID:			Units: **ug/L**	Prep Date: **06/30/2017**	Run No: **346744**
SampleType: **MBLK**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**			BatchID: **244943**	Analysis Date: **06/30/2017**	Seq No: **7614697**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	BRL	1.0									
Benzene	BRL	1.0									
Ethylbenzene	BRL	1.0									
Methyl tert-butyl ether	BRL	1.0									
Naphthalene	BRL	5.0									
Toluene	BRL	1.0									
Xylenes, Total	BRL	1.0									
Surr: 4-Bromofluorobenzene	43.00	0	50.00		86.0	70	130				
Surr: Dibromofluoromethane	51.89	0	50.00		104	70	130				
Surr: Toluene-d8	50.23	0	50.00		100	70	130				

Sample ID: **MB-244943**	Client ID:			Units: **ug/L**	Prep Date: **06/30/2017**	Run No: **346744**
SampleType: **MBLK**	TestCode: **Oxygenates SW8260B**			BatchID: **244943**	Analysis Date: **06/30/2017**	Seq No: **7614912**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
3,3-Dimethyl-1-butanol	BRL	100									
Ethanol	BRL	100									
Ethyl tert-butyl ether	BRL	100									
Isopropyl ether	BRL	10									
tert-Amyl alcohol	BRL	100									
tert-Amyl methyl ether	BRL	10									
tert-Butyl Alcohol	BRL	100									
tert-Butyl formate	BRL	100									

Sample ID: **LCS-244943**	Client ID:			Units: **ug/L**	Prep Date: **06/30/2017**	Run No: **346744**
SampleType: **LCS**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**			BatchID: **244943**	Analysis Date: **06/30/2017**	Seq No: **7614695**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method Blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Crawford Environmental Services
Project Name: Clouds Exxon
Workorder: 1706R80

ANALYTICAL QC SUMMARY REPORT

BatchID: 244943

Sample ID: **LCS-244943**	Client ID:	Units: **ug/L**	Prep Date: **06/30/2017**	Run No: **346744**
SampleType: **LCS**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**	BatchID: **244943**	Analysis Date: **06/30/2017**	Seq No: **7614695**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	17.90	1.0	20.00		89.5	70	130				
Benzene	17.91	1.0	20.00		89.6	70	130				
Ethylbenzene	17.74	1.0	20.00		88.7	70	130				
Naphthalene	17.18	5.0	20.00		85.9	70	130				
Toluene	17.48	1.0	20.00		87.4	70	130				
Xylenes, Total	53.10	1.0	60.00		88.5	70	130				
Surr: 4-Bromofluorobenzene	45.71	0	50.00		91.4	70	130				
Surr: Dibromofluoromethane	50.79	0	50.00		102	70	130				
Surr: Toluene-d8	47.44	0	50.00		94.9	70	130				

Sample ID: **LCS-244943**	Client ID:	Units: **ug/L**	Prep Date: **06/30/2017**	Run No: **346744**
SampleType: **LCS**	TestCode: **Oxygenates SW8260B**	BatchID: **244943**	Analysis Date: **06/30/2017**	Seq No: **7614910**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
3,3-Dimethyl-1-butanol	785.0	100	1000		78.5	70	130				
Ethanol	857.6	100	1000		85.8	70	130				
Ethyl tert-butyl ether	181.8	100	200.0		90.9	70	130				
Isopropyl ether	179.8	10	200.0		89.9	70	130				
tert-Amyl alcohol	872.4	100	1000		87.2	70	130				
tert-Amyl methyl ether	178.2	10	200.0		89.1	70	130				
tert-Butyl Alcohol	858.4	100	1000		85.8	70	130				
tert-Butyl formate	905.7	100	1000		90.6	70	130				

Sample ID: **1706R80-033AMS**	Client ID: **MW 22**	Units: **ug/L**	Prep Date: **06/30/2017**	Run No: **346744**
SampleType: **MS**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**	BatchID: **244943**	Analysis Date: **06/30/2017**	Seq No: **7614704**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	9810	500	10000		98.1	71.9	139				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method Blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Crawford Environmental Services
Project Name: Clouds Exxon
Workorder: 1706R80

ANALYTICAL QC SUMMARY REPORT

BatchID: 244943

Sample ID: 1706R80-033AMS	Client ID: MW 22	Units: ug/L	Prep Date: 06/30/2017	Run No: 346744
SampleType: MS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 244943	Analysis Date: 06/30/2017	Seq No: 7614704

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	12460	500	10000	2105	104	71.6	132				
Ethylbenzene	11050	500	10000	1090	99.6	81.2	130				
Naphthalene	9365	2500	10000		93.6	51.8	132				
Toluene	24840	500	10000	12940	119	72.5	135				
Xylenes, Total	49890	500	30000	15480	115	76.1	139				
Surr: 4-Bromofluorobenzene	23020	0	25000		92.1	70	130				
Surr: Dibromofluoromethane	26230	0	25000		105	70	130				
Surr: Toluene-d8	24610	0	25000		98.4	70	130				

Sample ID: 1706R80-033AMS	Client ID: MW 22	Units: ug/L	Prep Date: 06/30/2017	Run No: 346744
SampleType: MS	TestCode: Oxygenates SW8260B	BatchID: 244943	Analysis Date: 06/30/2017	Seq No: 7614926

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
3,3-Dimethyl-1-butanol	179000	50000	250000		71.6	60.3	131				
Ethanol	212700	50000	250000	24280	75.4	60.6	136				
Ethyl tert-butyl ether	48970	10000	50000		97.9	70.3	129				
Isopropyl ether	50070	5000	50000		100	70.1	130				
tert-Amyl alcohol	190800	50000	250000		76.3	67.6	135				
tert-Amyl methyl ether	50610	5000	50000		101	70	128				
tert-Butyl Alcohol	159100	50000	250000		63.7	64	140				S
tert-Butyl formate	267400	50000	250000		107	55.3	128				

Sample ID: 1706R80-033AMSD	Client ID: MW 22	Units: ug/L	Prep Date: 06/30/2017	Run No: 346744
SampleType: MSD	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 244943	Analysis Date: 06/30/2017	Seq No: 7614705

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	9560	500	10000		95.6	71.9	139	9810	2.58	20	
Benzene	11770	500	10000	2105	96.6	71.6	132	12460	5.70	20.7	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Crawford Environmental Services
Project Name: Clouds Exxon
Workorder: 1706R80

ANALYTICAL QC SUMMARY REPORT

BatchID: 244943

Sample ID: **1706R80-033AMSD**	Client ID: **MW 22**			Units: **ug/L**	Prep Date: **06/30/2017**	Run No: **346744**
SampleType: **MSD**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**			BatchID: **244943**	Analysis Date: **06/30/2017**	Seq No: **7614705**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethylbenzene	11080	500	10000	1090	99.9	81.2	130	11050	0.316	20	
Naphthalene	9590	2500	10000		95.9	51.8	132	9365	2.37	37.8	
Toluene	23590	500	10000	12940	106	72.5	135	24840	5.16	23.2	
Xylenes, Total	50300	500	30000	15480	116	76.1	139	49890	0.809	20	
Surr: 4-Bromofluorobenzene	23960	0	25000		95.8	70	130	23020	0	0	
Surr: Dibromofluoromethane	25740	0	25000		103	70	130	26230	0	0	
Surr: Toluene-d8	24070	0	25000		96.3	70	130	24610	0	0	

Sample ID: **1706R80-033AMSD**	Client ID: **MW 22**			Units: **ug/L**	Prep Date: **06/30/2017**	Run No: **346744**
SampleType: **MSD**	TestCode: **Oxygenates SW8260B**			BatchID: **244943**	Analysis Date: **06/30/2017**	Seq No: **7614927**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
3,3-Dimethyl-1-butanol	198200	50000	250000		79.3	60.3	131	179000	10.2	19.3	
Ethanol	265500	50000	250000	24280	96.5	60.6	136	212700	22.1	33.3	
Ethyl tert-butyl ether	47440	10000	50000		94.9	70.3	129	48970	3.18	20	
Isopropyl ether	48810	5000	50000		97.6	70.1	130	50070	2.55	20	
tert-Amyl alcohol	221900	50000	250000		88.8	67.6	135	190800	15.1	19.8	
tert-Amyl methyl ether	47050	5000	50000		94.1	70	128	50610	7.30	20	
tert-Butyl Alcohol	199900	50000	250000		80.0	64	140	159100	22.7	25	
tert-Butyl formate	249100	50000	250000		99.6	55.3	128	267400	7.11	20	

Qualifiers:
> Greater than Result value
< Less than Result value
B Analyte detected in the associated method Blank
BRL Below reporting limit
E Estimated (value above quantitation range)
H Holding times for preparation or analysis exceeded
J Estimated value detected below Reporting Limit
N Analyte not NELAC certified
R RPD outside limits due to matrix
Rpt Lim Reporting Limit
S Spike Recovery outside limits due to matrix

Client: Crawford Environmental Services
Project Name: Clouds Exxon
Workorder: 1706R80

ANALYTICAL QC SUMMARY REPORT

BatchID: 244945

Sample ID: **MB-244945**	Client ID:			Units: **ug/L**	Prep Date: **07/01/2017**	Run No: **346758**
SampleType: **MBLK**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**			BatchID: **244945**	Analysis Date: **07/01/2017**	Seq No: **7615213**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	BRL	1.0									
Benzene	BRL	1.0									
Ethylbenzene	BRL	1.0									
Methyl tert-butyl ether	BRL	1.0									
Naphthalene	BRL	5.0									
Toluene	BRL	1.0									
Xylenes, Total	BRL	1.0									
Surr: 4-Bromofluorobenzene	40.88	0	50.00		81.8	70	130				
Surr: Dibromofluoromethane	52.82	0	50.00		106	70	130				
Surr: Toluene-d8	50.65	0	50.00		101	70	130				

Sample ID: **MB-244945**	Client ID:			Units: **ug/L**	Prep Date: **07/01/2017**	Run No: **346758**
SampleType: **MBLK**	TestCode: **Oxygenates SW8260B**			BatchID: **244945**	Analysis Date: **07/01/2017**	Seq No: **7615326**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
3,3-Dimethyl-1-butanol	BRL	100									
Ethanol	BRL	100									
Ethyl tert-butyl ether	BRL	100									
Isopropyl ether	BRL	10									
tert-Amyl alcohol	BRL	100									
tert-Amyl methyl ether	BRL	10									
tert-Butyl Alcohol	BRL	100									
tert-Butyl formate	BRL	100									

Sample ID: **LCS-244945**	Client ID:			Units: **ug/L**	Prep Date: **07/01/2017**	Run No: **346758**
SampleType: **LCS**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**			BatchID: **244945**	Analysis Date: **07/01/2017**	Seq No: **7615212**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method Blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Analytical Environmental Services, Inc

Date: 7-Jul-17

Client: Crawford Environmental Services
Project Name: Clouds Exxon
Workorder: 1706R80

ANALYTICAL QC SUMMARY REPORT

BatchID: 244945

Sample ID: **LCS-244945**	Client ID:	Units: **ug/L**	Prep Date: **07/01/2017**	Run No: **346758**
SampleType: **LCS**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**	BatchID: **244945**	Analysis Date: **07/01/2017**	Seq No: **7615212**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	18.70	1.0	20.00		93.5	70	130				
Benzene	19.21	1.0	20.00		96.0	70	130				
Ethylbenzene	18.17	1.0	20.00		90.8	70	130				
Naphthalene	17.16	5.0	20.00		85.8	70	130				
Toluene	18.18	1.0	20.00		90.9	70	130				
Xylenes, Total	55.16	1.0	60.00		91.9	70	130				
Surr: 4-Bromofluorobenzene	46.19	0	50.00		92.4	70	130				
Surr: Dibromofluoromethane	50.77	0	50.00		102	70	130				
Surr: Toluene-d8	47.57	0	50.00		95.1	70	130				

Sample ID: **LCS-244945**	Client ID:	Units: **ug/L**	Prep Date: **07/01/2017**	Run No: **346758**
SampleType: **LCS**	TestCode: **Oxygenates SW8260B**	BatchID: **244945**	Analysis Date: **07/01/2017**	Seq No: **7615325**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
3,3-Dimethyl-1-butanol	441.7	100	500.0		88.3	70	130				
Ethanol	512.8	100	500.0		103	70	130				
Ethyl tert-butyl ether	94.99	20	100.0		95.0	70	130				
Isopropyl ether	97.23	10	100.0		97.2	70	130				
tert-Amyl alcohol	472.0	100	500.0		94.4	70	130				
tert-Amyl methyl ether	95.36	10	100.0		95.4	70	130				
tert-Butyl Alcohol	464.0	100	500.0		92.8	70	130				
tert-Butyl formate	488.7	100	500.0		97.7	70	130				

Sample ID: **1706R80-041AMS**	Client ID: **MW 40**	Units: **ug/L**	Prep Date: **07/01/2017**	Run No: **346824**
SampleType: **MS**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**	BatchID: **244945**	Analysis Date: **07/03/2017**	Seq No: **7616847**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	178.7	10	200.0		89.4	71.9	139				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method Blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Crawford Environmental Services
Project Name: Clouds Exxon
Workorder: 1706R80

ANALYTICAL QC SUMMARY REPORT

BatchID: 244945

Sample ID: **1706R80-041AMS**	Client ID: **MW 40**			Units: **ug/L**	Prep Date: **07/01/2017**	Run No: **346824**
SampleType: **MS**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**			BatchID: **244945**	Analysis Date: **07/03/2017**	Seq No: **7616847**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	210.7	10	200.0	23.00	93.8	71.6	132				
Ethylbenzene	810.4	10	200.0	600.0	105	81.2	130				
Naphthalene	583.2	50	200.0	481.0	51.1	51.8	132				S
Toluene	194.0	10	200.0	5.300	94.4	72.5	135				
Xylenes, Total	653.8	10	600.0	83.90	95.0	76.1	139				
Surr: 4-Bromofluorobenzene	471.6	0	500.0		94.3	70	130				
Surr: Dibromofluoromethane	491.8	0	500.0		98.4	70	130				
Surr: Toluene-d8	489.7	0	500.0		97.9	70	130				

Sample ID: **1706R80-049AMS**	Client ID: **MW 35**			Units: **ug/L**	Prep Date: **07/01/2017**	Run No: **346758**
SampleType: **MS**	TestCode: **Oxygenates SW8260B**			BatchID: **244945**	Analysis Date: **07/01/2017**	Seq No: **7615328**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
3,3-Dimethyl-1-butanol	8095	2000	10000		80.9	60.3	131				
Ethanol	8671	2000	10000		86.7	60.6	136				
Ethyl tert-butyl ether	1633	400	2000		81.6	70.3	129				
Isopropyl ether	1803	200	2000	245.4	77.9	70.1	130				
tert-Amyl alcohol	12760	2000	10000	2958	98.0	67.6	135				
tert-Amyl methyl ether	1681	200	2000	158.2	76.1	70	128				
tert-Butyl Alcohol	8676	2000	10000		86.8	64	140				
tert-Butyl formate	7189	2000	10000		71.9	55.3	128				

Sample ID: **1706R80-041AMSD**	Client ID: **MW 40**			Units: **ug/L**	Prep Date: **07/01/2017**	Run No: **346824**
SampleType: **MSD**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**			BatchID: **244945**	Analysis Date: **07/03/2017**	Seq No: **7616848**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	173.7	10	200.0		86.8	71.9	139	178.7	2.84	20	
Benzene	203.6	10	200.0	23.00	90.3	71.6	132	210.7	3.43	20.7	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method Blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Crawford Environmental Services
Project Name: Clouds Exxon
Workorder: 1706R80

ANALYTICAL QC SUMMARY REPORT

BatchID: 244945

Sample ID: **1706R80-041AMSD**	Client ID: **MW 40**				Units: **ug/L**		Prep Date: **07/01/2017**		Run No: **346824**	
SampleType: **MSD**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**				BatchID: **244945**		Analysis Date: **07/03/2017**		Seq No: **7616848**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethylbenzene	795.9	10	200.0	600.0	98.0	81.2	130	810.4	1.81	20	
Naphthalene	674.9	50	200.0	481.0	97.0	51.8	132	583.2	14.6	37.8	
Toluene	183.5	10	200.0	5.300	89.1	72.5	135	194.0	5.56	23.2	
Xylenes, Total	656.8	10	600.0	83.90	95.5	76.1	139	653.8	0.458	20	
Surr: 4-Bromofluorobenzene	490.0	0	500.0		98.0	70	130	471.6	0	0	
Surr: Dibromofluoromethane	492.2	0	500.0		98.4	70	130	491.8	0	0	
Surr: Toluene-d8	488.8	0	500.0		97.8	70	130	489.7	0	0	

Sample ID: **1706R80-049AMSD**	Client ID: **MW 35**				Units: **ug/L**		Prep Date: **07/01/2017**		Run No: **346758**	
SampleType: **MSD**	TestCode: **Oxygenates SW8260B**				BatchID: **244945**		Analysis Date: **07/01/2017**		Seq No: **7615329**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
3,3-Dimethyl-1-butanol	7627	2000	10000		76.3	60.3	131	8095	5.96	19.3	
Ethanol	10890	2000	10000		109	60.6	136	8671	22.7	33.3	
Ethyl tert-butyl ether	1606	400	2000		80.3	70.3	129	1633	1.64	20	
Isopropyl ether	1779	200	2000	245.4	76.7	70.1	130	1803	1.35	20	
tert-Amyl alcohol	11400	2000	10000	2958	84.4	67.6	135	12760	11.3	19.8	
tert-Amyl methyl ether	1611	200	2000	158.2	72.6	70	128	1681	4.28	20	
tert-Butyl Alcohol	8198	2000	10000		82.0	64	140	8676	5.67	25	
tert-Butyl formate	6649	2000	10000		66.5	55.3	128	7189	7.81	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value
BRL	Below reporting limit	E	Estimated (value above quantitation range)
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix
B	Analyte detected in the associated method blank		
H	Holding times for preparation or analysis exceeded		
R	RPD outside limits due to matrix		

Client: Crawford Environmental Services
Project Name: Clouds Exxon
Workorder: 1706R80

ANALYTICAL QC SUMMARY REPORT

BatchID: 244948

Sample ID: **MB-244948**	Client ID:			Units: **ug/L**	Prep Date: **07/03/2017**	Run No: **346824**
SampleType: **MBLK**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**			BatchID: **244948**	Analysis Date: **07/03/2017**	Seq No: **7616835**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	BRL	1.0									
Benzene	BRL	1.0									
Ethylbenzene	BRL	1.0									
Methyl tert-butyl ether	BRL	1.0									
Naphthalene	BRL	5.0									
Toluene	BRL	1.0									
Xylenes, Total	BRL	1.0									
Surr: 4-Bromofluorobenzene	40.72	0	50.00		81.4	70	130				
Surr: Dibromofluoromethane	50.62	0	50.00		101	70	130				
Surr: Toluene-d8	49.04	0	50.00		98.1	70	130				

Sample ID: **MB-244948**	Client ID:			Units: **ug/L**	Prep Date: **07/03/2017**	Run No: **346824**
SampleType: **MBLK**	TestCode: **Oxygenates SW8260B**			BatchID: **244948**	Analysis Date: **07/03/2017**	Seq No: **7617139**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
3,3-Dimethyl-1-butanol	BRL	100									
Ethanol	BRL	100									
Ethyl tert-butyl ether	BRL	100									
Isopropyl ether	BRL	10									
tert-Amyl alcohol	BRL	100									
tert-Amyl methyl ether	BRL	10									
tert-Butyl Alcohol	BRL	100									
tert-Butyl formate	BRL	100									

Sample ID: **LCS-244948**	Client ID:			Units: **ug/L**	Prep Date: **07/03/2017**	Run No: **346824**
SampleType: **LCS**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**			BatchID: **244948**	Analysis Date: **07/03/2017**	Seq No: **7616834**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method Blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Crawford Environmental Services
Project Name: Clouds Exxon
Workorder: 1706R80

ANALYTICAL QC SUMMARY REPORT

BatchID: 244948

Sample ID: **LCS-244948**	Client ID:		Units: **ug/L**	Prep Date: **07/03/2017**	Run No: **346824**
SampleType: **LCS**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**		BatchID: **244948**	Analysis Date: **07/03/2017**	Seq No: **7616834**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	17.38	1.0	20.00		86.9	70	130				
Benzene	17.89	1.0	20.00		89.4	70	130				
Ethylbenzene	16.66	1.0	20.00		83.3	70	130				
Naphthalene	14.16	5.0	20.00		70.8	70	130				
Toluene	17.73	1.0	20.00		88.6	70	130				
Xylenes, Total	51.18	1.0	60.00		85.3	70	130				
Surr: 4-Bromofluorobenzene	46.96	0	50.00		93.9	70	130				
Surr: Dibromofluoromethane	51.56	0	50.00		103	70	130				
Surr: Toluene-d8	50.71	0	50.00		101	70	130				

Sample ID: **LCS-244948**	Client ID:		Units: **ug/L**	Prep Date: **07/03/2017**	Run No: **346824**
SampleType: **LCS**	TestCode: **Oxygenates SW8260B**		BatchID: **244948**	Analysis Date: **07/03/2017**	Seq No: **7617138**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
3,3-Dimethyl-1-butanol	471.7	100	500.0		94.3	70	130				
Ethanol	504.9	100	500.0		101	70	130				
Ethyl tert-butyl ether	95.07	20	100.0		95.1	70	130				
Isopropyl ether	93.30	10	100.0		93.3	70	130				
tert-Amyl alcohol	553.9	100	500.0		111	70	130				
tert-Amyl methyl ether	98.13	10	100.0		98.1	70	130				
tert-Butyl Alcohol	580.8	100	500.0		116	70	130				
tert-Butyl formate	505.2	100	500.0		101	70	130				

Sample ID: **1706R80-063AMS**	Client ID: **DUP-3**		Units: **ug/L**	Prep Date: **07/03/2017**	Run No: **346824**
SampleType: **MS**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**		BatchID: **244948**	Analysis Date: **07/03/2017**	Seq No: **7616840**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	19.40	1.0	20.00		97.0	71.9	139				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Crawford Environmental Services
Project Name: Clouds Exxon
Workorder: 1706R80

ANALYTICAL QC SUMMARY REPORT

BatchID: 244948

Sample ID: **1706R80-063AMS**	Client ID: **DUP-3**				Units: **ug/L**		Prep Date: **07/03/2017**		Run No: **346824**	
SampleType: **MS**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**				BatchID: **244948**		Analysis Date: **07/03/2017**		Seq No: **7616840**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	18.54	1.0	20.00		92.7	71.6	132				
Ethylbenzene	18.45	1.0	20.00		92.2	81.2	130				
Naphthalene	16.32	5.0	20.00		81.6	51.8	132				
Toluene	18.57	1.0	20.00		92.8	72.5	135				
Xylenes, Total	55.16	1.0	60.00		91.9	76.1	139				
Surr: 4-Bromofluorobenzene	47.26	0	50.00		94.5	70	130				
Surr: Dibromofluoromethane	53.13	0	50.00		106	70	130				
Surr: Toluene-d8	49.15	0	50.00		98.3	70	130				

Sample ID: **1706R80-063AMS**	Client ID: **DUP-3**				Units: **ug/L**		Prep Date: **07/03/2017**		Run No: **346824**	
SampleType: **MS**	TestCode: **Oxygenates SW8260B**				BatchID: **244948**		Analysis Date: **07/03/2017**		Seq No: **7617143**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
3,3-Dimethyl-1-butanol	386.0	100	500.0		77.2	60.3	131				
Ethanol	467.6	100	500.0		93.5	60.6	136				
Ethyl tert-butyl ether	88.61	20	100.0		88.6	70.3	129				
Isopropyl ether	89.87	10	100.0		89.9	70.1	130				
tert-Amyl alcohol	455.9	100	500.0		91.2	67.6	135				
tert-Amyl methyl ether	90.76	10	100.0		90.8	70	128				
tert-Butyl Alcohol	456.3	100	500.0		91.3	64	140				
tert-Butyl formate	431.3	100	500.0		86.3	55.3	128				

Sample ID: **1706R80-063AMSD**	Client ID: **DUP-3**				Units: **ug/L**		Prep Date: **07/03/2017**		Run No: **346824**	
SampleType: **MSD**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**				BatchID: **244948**		Analysis Date: **07/03/2017**		Seq No: **7616841**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	18.64	1.0	20.00		93.2	71.9	139	19.40	4.00	20	
Benzene	17.69	1.0	20.00		88.4	71.6	132	18.54	4.69	20.7	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Crawford Environmental Services
Project Name: Clouds Exxon
Workorder: 1706R80

ANALYTICAL QC SUMMARY REPORT

BatchID: 244948

Sample ID: **1706R80-063AMSD**	Client ID: **DUP-3**				Units: **ug/L**		Prep Date: **07/03/2017**		Run No: **346824**	
SampleType: **MSD**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**				BatchID: **244948**		Analysis Date: **07/03/2017**		Seq No: **7616841**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethylbenzene	17.28	1.0	20.00		86.4	81.2	130	18.45	6.55	20	
Naphthalene	17.64	5.0	20.00		88.2	51.8	132	16.32	7.77	37.8	
Toluene	17.42	1.0	20.00		87.1	72.5	135	18.57	6.39	23.2	
Xylenes, Total	51.29	1.0	60.00		85.5	76.1	139	55.16	7.27	20	
Surr: 4-Bromofluorobenzene	46.34	0	50.00		92.7	70	130	47.26	0	0	
Surr: Dibromofluoromethane	51.25	0	50.00		102	70	130	53.13	0	0	
Surr: Toluene-d8	47.82	0	50.00		95.6	70	130	49.15	0	0	

Sample ID: **1706R80-063AMSD**	Client ID: **DUP-3**				Units: **ug/L**		Prep Date: **07/03/2017**		Run No: **346824**	
SampleType: **MSD**	TestCode: **Oxygenates SW8260B**				BatchID: **244948**		Analysis Date: **07/03/2017**		Seq No: **7617144**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
3,3-Dimethyl-1-butanol	437.3	100	500.0		87.5	60.3	131	386.0	12.5	19.3	
Ethanol	477.0	100	500.0		95.4	60.6	136	467.6	1.98	33.3	
Ethyl tert-butyl ether	89.39	20	100.0		89.4	70.3	129	88.61	0.876	20	
Isopropyl ether	89.28	10	100.0		89.3	70.1	130	89.87	0.659	20	
tert-Amyl alcohol	500.6	100	500.0		100	67.6	135	455.9	9.35	19.8	
tert-Amyl methyl ether	90.60	10	100.0		90.6	70	128	90.76	0.176	20	
tert-Butyl Alcohol	571.4	100	500.0		114	64	140	456.3	22.4	25	
tert-Butyl formate	369.4	100	500.0		73.9	55.3	128	431.3	15.5	20	

Qualifiers:
> Greater than Result value
< Less than Result value
B Analyte detected in the associated method Blank
BRL Below reporting limit
E Estimated (value above quantitation range)
H Holding times for preparation or analysis exceeded
J Estimated value detected below Reporting Limit
N Analyte not NELAC certified
R RPD outside limits due to matrix
Rpt Lim Reporting Limit
S Spike Recovery outside limits due to matrix

Appendix B

Groundwater Sampling Data Sheets

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/ /26	Site ID #: 07584/07777/[illegible]	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions: Sunny	Ambient Air Temp (°F):

Quality Assurance

Meter Name: HANNA	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 1	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 17 to 27		Total Well Depth (TWD) (ft.): 27
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): DRY		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0	7	[illegible]	[illegible]				
Time (military)								
PH (s.u.)								
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								

Sampling Data

Sampled By: Billy Emery	Sampling Time:	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

Signature: [signature]

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/27/18	Site ID #: 01584/07777/12354	Site Name: Cloud's Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fish	General Weather Conditions: Sunny	Ambient Air Temp (°F):

Quality Assurance

Meter Name: HANNA	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: mw 2	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 20 to 30		Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.):		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 8.49	1 casing volume (CV = LWC x C) (gals.): 1.3		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0	[illegible]	[illegible]	[illegible]				
Time (military)	1320							
PH (s.u.)	5.40							
Specific Conductivity (uS/cm)	208							
Water Temperature (°C)	23.93							
Turbidity (NTU)	20.7							
Dissolved Oxygen (mg/L)	0.65							

Sampling Data

Sampled By: Billy Emery	Sampling Time: 1320	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

Signature: [signature]

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/27/19	Site ID #: 07594/07777/12356	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions: Sunny	Ambient Air Temp (°F):

Quality Assurance

Meter Name: HANNA	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: mw3	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 19 to 29	Total Well Depth (TWD) (ft.): 29
Depth to Free Product (DFP) (ft.):		Depth to Groundwater (DGW) (ft.): 20.98	Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 8.02		1 casing volume (CV = LWC x C) (gals.): 1.2	3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0	[illegible]	[illegible]	[illegible]				
Time (military)	1330							
PH (s.u.)	5.89							
Specific Conductivity (µS/cm)	172							
Water Temperature (°C)	25.12							
Turbidity (NTU)	12.4							
Dissolved Oxygen (mg/L)	.50							

Sampling Data

Sampled By: Billy Emery	Sampling Time: 1330	Duplicate: Y or N	If yes, Duplicate Time:

Notes:

Signature: [signature]

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SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/27/17	Site ID #: 01584/01777/RIC	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions: Sunny	Ambient Air Temp (°F):

Quality Assurance

Meter Name: HANNA	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-4	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 18 to 28	Total Well Depth (TWD) (ft.): [redacted] 25
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 20.55		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 7.45	1 casing volume (CV = LWC x C) (gals.): 1.1		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0	[redacted]	[redacted]	[redacted]				
Time (military)	1340							
PH (s.u.)	4.99							
Specific Conductivity (µS/cm)	145							
Water Temperature (°C)	24.67							
Turbidity (NTU)	75.6							
Dissolved Oxygen (mg/L)	2.42							

Sampling Data

Sampled By: Billy Emery	Sampling Time: 1340	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

Signature: [signature]

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/ /26	Site ID #: 07594/07777/12354	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions: Sunny	Ambient Air Temp (°F):

Quality Assurance

Meter Name: HANNA	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: mw 5	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 16 to 26	Total Well Depth (TWD) (ft.): 26
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): Dry		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0	[illegible]	[illegible]	[illegible]				
Time (military)	D							
PH (s.u.)	R							
Specific Conductivity (µS/cm)	R							
Water Temperature (°C)	Y							
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								

Sampling Data

Sampled By: Billy Emery	Sampling Time:	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

Signature: [signature]

DHEC 0423 (10/2012)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/27/16	Site ID #: 02584/02777/02778	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions: Sunny	Ambient Air Temp (°F):

Quality Assurance

Meter Name: HANNA	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW5AR	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 18 to 28	Total Well Depth (TWD) (ft.):
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 21.61		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 6.39	1 casing volume (CV = LWC x C) (gals.): 1.0		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	0820							
PH (s.u.)	6.62							
Specific Conductivity (µS/cm)	380							
Water Temperature (°C)	24.55							
Turbidity (NTU)	16.0							
Dissolved Oxygen (mg/L)	0.46							

Sampling Data

Sampled By: Billy Emery	Sampling Time: 1120	Duplicate: Y or N	If yes, Duplicate Time:

Notes: ___

Signature: ___

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/27/19	Site ID #: 01584/0777/RISC	Site Name: Cloud's Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fish	General Weather Conditions: Sunny	Ambient Air Temp (°F):

Quality Assurance

Meter Name: HANNA	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 6	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 20 to 30	Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 22.91		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 7.09	1 casing volume (CV = LWC x C) (gals.): 1.1344		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0	8	8	8				
Time (military)	1250							
PH (s.u.)	4.58							
Specific Conductivity (µS/cm)	116							
Water Temperature (°C)	24.69							
Turbidity (NTU)	2.0							
Dissolved Oxygen (mg/L)	1.97							

Sampling Data

Sampled By: Billy Emery	Sampling Time: 1250	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

Signature: _____

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/27/17	Site ID #: 07584/07777/12364	Site Name: Cloud's Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions: Sunny	Ambient Air Temp (°F):

Quality Assurance

Meter Name: HORIBA	Serial #:	Calibration			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 7	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 20 to 30		Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 22.32		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 7.68	1 casing volume (CV = LWC x C) (gals.): 1.2288		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0	1	2	3				
Time (military)	1240							
PH (s.u.)	4.31							
Specific Conductivity (µS/cm)	125							
Water Temperature (°C)	24.48							
Turbidity (NTU)	16.9							
Dissolved Oxygen (mg/L)	4.45							

Sampling Data

Sampled By: Billy Emery	Sampling Time: 1248	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

Signature: _____

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/27/17	Site ID #: 01584/02777/12164	Site Name: Cloud's Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fish	General Weather Conditions: Sunny	Ambient Air Temp (°F):

Quality Assurance

Meter Name: HANNA	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: mw 8	Well Diameter (ft.): 2 ll	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 18.5 to 28	Total Well Depth (TWD) (ft.): 28
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 19.65		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 8.35	1 casing volume (CV = LWC x C) (gals.): 1.3		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0	1	2	3				
Time (military)	1350							
PH (s.u.)	5.63							
Specific Conductivity (µS/cm)	43							
Water Temperature (°C)	24.89							
Turbidity (NTU)	62.9							
Dissolved Oxygen (mg/L)	1.83							

Sampling Data

Sampled By: Billy Ewing	Sampling Time: 1350	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

Signature: _____

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/28/26	Site ID #: 07584/07777/12354	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions: Sunny	Ambient Air Temp (°F):

Quality Assurance

Meter Name: HANNA	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: mw 10	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 18 to 28	Total Well Depth (TWD) (ft.): 28
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 15.33		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 12.67	1 casing volume (CV = LWC x C) (gals.): 2.0272		3 casing volumes (3 x CV) (gals.)

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0	5	5	8				
Time (military)	740							
PH (s.u.)	6.62							
Specific Conductivity (µS/cm)	452							
Water Temperature (°C)	24.14							
Turbidity (NTU)	17.1							
Dissolved Oxygen (mg/L)	0.29							

Sampling Data

Sampled By: Billy Emery	Sampling Time: 740	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

Signature: [signature]

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SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/27/17	Site ID #: 07594/07777/R3C4	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: OAN Fisher	General Weather Conditions: Sunny	Ambient Air Temp (°F):

Quality Assurance

Meter Name: HANNA	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: mw 11	Well Diameter (ft.): 2 ft	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ Private WSW ___ Public WSW		Screened Interval (ft.): 20 to 30	Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 17.75		Free Product Thickness (ft.):
Length of water column (LWC = TWD - DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	1410							
PH (s.u.)	4.71							
Specific Conductivity (µS/cm)	86							
Water Temperature (°C)	22.00							
Turbidity (NTU)	176							
Dissolved Oxygen (mg/l)	0.64							

Sampling Data

Sampled By: Billy Emery	Sampling Time: 1410	Duplicate: Y or N	If yes, Duplicate Time:

Notes:

Signature: [signature]

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SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/28/18	Site ID #: 07594/07777/12364	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions: Sunny	Ambient Air Temp (°F):

Quality Assurance

Meter Name: HANNA	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: mw 15	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 15 to 25	Total Well Depth (TWD) (ft.): 25
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 13.36		Free Product Thickness (ft.):
Length of water column (LWC = TWD - DGW) (ft.): 9.64	1 casing volume (CV = LWC x C) (gals.): 1.5		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0	1	2	3				
Time (military)	750							
PH (s.u.)	6.84							
Specific Conductivity (µS/cm)	604							
Water Temperature (°C)	73.45							
Turbidity (NTU)	79.0							
Dissolved Oxygen (mg/L)	0.13							

Sampling Data

Sampled By: Billy Emery	Sampling Time: 750	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

Signature: [signature]

DHEC 0423 (10/2012)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/27/26	Site ID #: 07584/07777/12124	Site Name: Cloud's Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fish	General Weather Conditions: Sunny	Ambient Air Temp (°F):

Quality Assurance

Meter Name: HANNA	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-16	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 15 to 25	Total Well Depth (TWD) (ft.): 25
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 17.21		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 7.79	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0	0	0	0				
Time (military)	1100							
PH (s.u.)	6.25							
Specific Conductivity (µS/cm)	80							
Water Temperature (°C)	24.38							
Turbidity (NTU)	212							
Dissolved Oxygen (mg/L)	0.96							

Sampling Data

Sampled By: Billy Emery	Sampling Time: 1100	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

Signature: _____

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/27/14	Site ID #: 07584/07777/12364	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: Dan Fisher	General Weather Conditions: Sunny	Ambient Air Temp (°F):

Quality Assurance

Meter Name: HANNA	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW17	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 20 to 30	Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 21.62		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 8.38	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0	1	2	3				
Time (military)	1050							
PH (s.u.)	6.14							
Specific Conductivity (µS/cm)	534							
Water Temperature (°C)	23.71							
Turbidity (NTU)	4.2							
Dissolved Oxygen (mg/L)	0.47							

Sampling Data

Sampled By: Billy Emery	Sampling Time: 1050	Duplicate: Y or N	If yes, Duplicate Time:

Notes:

Signature: [signature]

DHEC 0423 (10/2012)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/27/17	Site ID #: 01584/0777/RIC	Site Name: Cloud's Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fish	General Weather Conditions: Sunny	Ambient Air Temp (°F):

Quality Assurance

Meter Name: HANNA	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 19	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 20 to 30	Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 22.80		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 7.2	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0	0	0	0				
Time (military)	1040							
PH (s.u.)	6.09							
Specific Conductivity (µS/cm)	145							
Water Temperature (°C)	24.22							
Turbidity (NTU)	3.8							
Dissolved Oxygen (mg/L)	0.40							

Sampling Data

Sampled By: Billy Emery	Sampling Time: 1040	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

Signature: _____

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/27/17	Site ID #: 01584/0777/RC	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fish	General Weather Conditions: Sunny	Ambient Air Temp (°F):

Quality Assurance

Meter Name: HANNA	Serial #:	Calibration			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 20	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 15 to 25	Total Well Depth (TWD) (ft.): 25
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 21.56		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 3.56	1 casing volume (CV = LWC x C) (gals.): 0.56		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0	2	3	5				
Time (military)	1110							
PH (s.u.)	5.44							
Specific Conductivity (µS/cm)	226							
Water Temperature (°C)	24.94							
Turbidity (NTU)	24							
Dissolved Oxygen (mg/L)	0.76							

Sampling Data

Sampled By: Billy Emory	Sampling Time: 1110	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

Signature: _____

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/27/17	Site ID #: 07584/07777/R354	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions: Sunny	Ambient Air Temp (°F):

Quality Assurance

Meter Name: HANNA	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: mw 22	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ Private WSW ___ Public WSW		Screened Interval (ft.): 20 to 30	Total Well Depth (TWD) (ft.): 50
Depth to Free Product (DFP) (ft.):		Depth to Groundwater (DGW) (ft.): 20.77	Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 7.23		1 casing volume (CV = LWC x C) (gals.): 1.15	3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0	1	2	3				
Time (military)	1130							
PH (s.u.)	6.06							
Specific Conductivity (µS/cm)	282							
Water Temperature (°C)	24.06							
Turbidity (NTU)	2.7							
Dissolved Oxygen (mg/L)	0.43							

Sampling Data

Sampled By: Billy Emery	Sampling Time:	Duplicate: Y or N	If yes, Duplicate Time:

Notes:

Signature: [signature]

DHEC 0423 (10/2012)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/27/26	Site ID #: 07584/07777/12354	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions: Sunny	Ambient Air Temp (°F):

Quality Assurance

Meter Name: HANNA	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: mw23	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 20 to 30		Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 23.60		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 6.4	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0	0	0	0				
Time (military)	1020							
PH (s.u.)	6.14							
Specific Conductivity (µS/cm)	192							
Water Temperature (°C)	24.73							
Turbidity (NTU)	8.2							
Dissolved Oxygen (mg/L)	38							

Sampling Data

Sampled By: Billy Emery	Sampling Time: 1020	Duplicate: Y or N	If yes, Duplicate Time: 1025

Notes: DUP 02

Signature: [signature]

DHEC 0423 (10/2012)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/28/17	Site ID #: 07587/07777/[illegible]	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fish	General Weather Conditions: Sunny	Ambient Air Temp (°F):

Quality Assurance

Meter Name: HANNA	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: mw 26	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.662	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 20 to 30	Total Well Depth (TWD) (ft.):
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 21.44		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 8.56	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0	X	X	X				
Time (military)	0730							
PH (s.u.)	4.71							
Specific Conductivity (µS/cm)	80							
Water Temperature (°C)	23.34							
Turbidity (NTU)	131							
Dissolved Oxygen (mg/L)	3.22							

Sampling Data

Sampled By: Billy Emery	Sampling Time: 730	Duplicate: Y or N	If yes, Duplicate Time:

Notes:

Signature: [signature]

DHEC 0423 (10/2012)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/27/17	Site ID #: 07584/07777/12164	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions: Sunny	Ambient Air Temp (°F):

Quality Assurance

Meter Name: Hanna	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 27	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 15 to 30	Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 17.31		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 12.69	1 casing volume (CV = LWC x C) (gals.): 2.0304		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0	2	2	2				
Time (military)	850							
PH (s.u.)	6.11							
Specific Conductivity (µS/cm)	275							
Water Temperature (°C)	22.37							
Turbidity (NTU)	2.5							
Dissolved Oxygen (mg/L)	3.67							

Sampling Data

Sampled By: Billy Emery	Sampling Time: 850	Duplicate: Y or N	If yes, Duplicate Time:

Notes: Broken cap

Signature:

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/27/17	Site ID #: 07584/07777/12354	Site Name: Cloud's Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions: Sunny	Ambient Air Temp (°F):

Quality Assurance

Meter Name: HANNA	Serial #	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-28	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 15 to 30		Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 16.97		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 13.03	1 casing volume (CV = LWC x C) (gals.) [redacted] 2.0845		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0	3	3	3				
Time (military)	[redacted] 1840							
PH (s.u.)	5.82							
Specific Conductivity (µS/cm)	171							
Water Temperature (°C)	20.96							
Turbidity (NTU)	17.4							
Dissolved Oxygen (mg/L)	5.71							

Sampling Data

Sampled By: Billy Emery	Sampling Time: 840	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

Signature: _____

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/27/17	Site ID #: 07584/07777/12356	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions: Sunny	Ambient Air Temp (°F):

Quality Assurance

Meter Name: HANNA	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: mw 29	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 15 to 30	Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 16.95		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 13.05	1 casing volume (CV = LWC x C) (gals.): 2.088		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	0th Vol.	1st Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0	1	2	3				
Time (military)	830							
PH (s.u.)	5.08							
Specific Conductivity (µS/cm)	221							
Water Temperature (°C)	20.78							
Turbidity (NTU)	10.4							
Dissolved Oxygen (mg/L)	0.41							

Sampling Data

Sampled By: Billy Emery	Sampling Time: 830	Duplicate: Y or N	If yes, Duplicate Time:

Notes:

Signature: [signature]

DHEC 0423 (10/2012)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/27/17	Site ID #: 07584/07777/12354	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions: Sunny	Ambient Air Temp (°F):

Quality Assurance

Meter Name: HANNA	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: mw 30	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 15 to 30	Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 20.46		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 9.54	1 casing volume (CV = LWC x C) (gals.): 1.5264		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0	~~1~~	~~2~~	~~3~~				
Time (military)	910							
PH (s.u.)	6.58							
Specific Conductivity (µS/cm)	264							
Water Temperature (°C)	22.31							
Turbidity (NTU)	2.7							
Dissolved Oxygen (mg/L)	1.87							

Sampling Data

Sampled By: Billy Emery	Sampling Time: 910	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

Signature: [signature]

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/27/17	Site ID #: 07587/07777/12754	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions: Sunny	Ambient Air Temp (°F):

Quality Assurance

Meter Name: HANNA	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: mw 31	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 20 to 35	Total Well Depth (TWD) (ft.): 35
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 24.12		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 10.88	1 casing volume (CV = LWC x C) (gals.): 1.7408		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	6th Vol.	Post	Sampling
Volume Purged (gallons)	0	1	2	3				
Time (military)	730							
PH (s.u.)	4.88							
Specific Conductivity (µS/cm)	91							
Water Temperature (°C)	21.07							
Turbidity (NTU)	19.0							
Dissolved Oxygen (mg/L)	2.44							

Sampling Data

Sampled By: Billy Emery	Sampling Time: 730	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

Signature: [signature]

DHEC 0423 (10/2012)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/27/17	Site ID #: 01584/07771/RISK	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions: Sunny	Ambient Air Temp (°F):

Quality Assurance

Meter Name: HORIBA	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-32	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 15 to 30		Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 20.91		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 9.09	1 casing volume (CV = LWC x C) (gals.): 1.4544		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0	1	2	3				
Time (military)	900							
PH (s.u.)	5.19							
Specific Conductivity (uS/cm)	136							
Water Temperature (°C)	23.12							
Turbidity (NTU)	2.2							
Dissolved Oxygen (mg/L)	0.64							

Sampling Data

Sampled By: Billy Ewing	Sampling Time: 900	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

Signature: _____

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/27/17	Site ID #: 01587/0777/RISK	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fish	General Weather Conditions: Sunny	Ambient Air Temp (°F):

Quality Assurance

Meter Name: Hanna	Serial #:	Calibration			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-33	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 20 to 35		Total Well Depth (TWD) (ft.): 35
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 22.70		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 12.3	1 casing volume (CV = LWC x C) (gals.): 1.968		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0	~~5~~	~~5~~	~~5~~				
Time (military)	820							
PH (s.u.)	5.61							
Specific Conductivity (µS/cm)	148							
Water Temperature (°C)	23.47							
Turbidity (NTU)	14.7							
Dissolved Oxygen (mg/L)	0.71							

Sampling Data

Sampled By: Billy Emery	Sampling Time: 820	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

Signature: _____

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/27/17	Site ID #: 07584/07777/12354	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions: Sunny	Ambient Air Temp (°F):

Quality Assurance

Meter Name: HANNA	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: mw 34	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 20 to 35	Total Well Depth (TWD) (ft.): 35
Depth to Free Product (DFP) (ft.):		Depth to Groundwater (DGW) (ft.): 23.52	Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 11.48		1 casing volume (CV = LWC x C) (gals.): 1.8368	3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0	[illegible]	[illegible]	[illegible]				
Time (military)	800							
PH (s.u.)	4.48							
Specific Conductivity (uS/cm)	103							
Water Temperature (°C)	23.13							
Turbidity (NTU)	4.4							
Dissolved Oxygen (mg/L)	1.32							

Sampling Data

Sampled By: Billy Emery	Sampling Time: 800	Duplicate: Y or N	If yes, Duplicate Time:

Notes:

Signature: [signature]

DHEC 0423 (10/2012)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/27/17	Site ID #: 07584/07777/12354	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions: Sunny	Ambient Air Temp (°F):

Quality Assurance

Meter Name: HANNA	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: mw 35	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 20 to 35	Total Well Depth (TWD) (ft.): 35
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 22.65		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 12.35	1 casing volume (CV = LWC x C) (gals.): 1.976		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0	1	2	3				
Time (military)	750							
PH (s.u.)	5.56							
Specific Conductivity (µS/cm)	130							
Water Temperature (°C)	23.66							
Turbidity (NTU)	5.0							
Dissolved Oxygen (mg/L)	0.42							

Sampling Data

Sampled By: Billy Emery	Sampling Time: 750	Duplicate: Y or N	If yes, Duplicate Time: 755

Notes: DUP 1

Signature: [signature]

DHEC 0423 (10/2012)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/27/17	Site ID #: 07587/07777/123C	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fish	General Weather Conditions: Sunny	Ambient Air Temp (°F):

Quality Assurance

Meter Name: HANNA	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: mw 36	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 20 to 35	Total Well Depth (TWD) (ft.): 35
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 22.52		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 12.48	1 casing volume (CV = LWC x C) (gals.): 1.9968		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0	~~1~~	~~2~~	~~3~~				
Time (military)	920							
PH (s.u.)	5.65							
Specific Conductivity (µS/cm)	147							
Water Temperature (°C)	23.46							
Turbidity (NTU)	18.2							
Dissolved Oxygen (mg/L)	0.43							

Sampling Data

Sampled By: Billy Emery	Sampling Time: 920	Duplicate: Y or N	If yes, Duplicate Time:

Notes:

Signature: [signature]

DHEC 0423 (10/2012)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet -- Sampling

Site Information

Date: 6/27/17	Site ID #: 07587/07777/12354	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions: Sunny	Ambient Air Temp (°F):

Quality Assurance

Meter Name: HANNA	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: mw 37	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 20 to 35	Total Well Depth (TWD) (ft.): 35
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 22.76		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 12.24	1 casing volume (CV = LWC x C) (gals.): 1.9584		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0	1	2	3				
Time (military)	740							
PH (s.u.)	4.70							
Specific Conductivity (uS/cm)	93							
Water Temperature (°C)	23.44							
Turbidity (NTU)	1.7							
Dissolved Oxygen (mg/L)	2.49							

Sampling Data

Sampled By: Billy Emery	Sampling Time: 740	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

Signature: [signature]

DHEC 0423 (10/2012)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/27/17	Site ID #: 07584/0777/RG	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions: Sunny	Ambient Air Temp (°F):

Quality Assurance

Meter Name: HANNA	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-38	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 20 to 35		Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 24.06		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.) 5.94	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.)

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0	[illegible]	[illegible]	[illegible]				
Time (military)	7:20							
PH (S.U.)	4.69							
Specific Conductivity (µS/cm)	84							
Water Temperature (°C)	23.94							
Turbidity (NTU)	3.0							
Dissolved Oxygen (mg/L)	4.37							

Sampling Data

Sampled By: Billy Emery	Sampling Time: 720	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

Signature: _____

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/27/19	Site ID #: 07584/07777/RSA	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fish	General Weather Conditions: Sunny	Ambient Air Temp (°F):

Quality Assurance

Meter Name: HANNA	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 39	Well Diameter (ft.):	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 20 to 35	Total Well Depth (TWD) (ft.): 35
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 25.18		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 9.82	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0	1	2	3				
Time (military)	930							
PH (s.u.)	5.07							
Specific Conductivity (uS/cm)	32							
Water Temperature (°C)	22.29							
Turbidity (NTU)	1.4							
Dissolved Oxygen (mg/L)	1.74							

Sampling Data

Sampled By: Billy Emery	Sampling Time: 930	Duplicate: Y or N	If yes, Duplicate Time:

Notes: NO CAP

Signature:

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/27/17	Site ID #: 07584/07777/12354	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions: Sunny	Ambient Air Temp (°F):

Quality Assurance

Meter Name: Horiba	Serial #	Calibration:			
YSI 63 (pH, Specific Conductivity, temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 56 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-40	Well Diameter (ft.):	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ Private WSW ___ Public WSW		Screened Interval (ft.): 20 to 35	Total Well Depth (TWD) (ft.): 35
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 24.47		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 10.53	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0	0	0	0				
Time (military)	950							
PH (s.u.)	6.29							
Specific Conductivity (µS/cm)	294							
Water Temperature (°C)	21.25							
Turbidity (NTU)	7.0							
Dissolved Oxygen (mg/L)	0.48							

Sampling Data

Sampled By: Billy Emery	Sampling Time: 950	Duplicate: Y or N	If yes, Duplicate Time:

Notes: No CAP

Signature:

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/27/17	Site ID #: 07584/07777/R3C4	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions: Sunny	Ambient Air Temp (°F):

Quality Assurance

Meter Name: HANNA	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: mw 41	Well Diameter (ft.):	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 20 to 35	Total Well Depth (TWD) (ft.): 35
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 24.91		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 10.09	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0	[illegible]	[illegible]	[illegible]				
Time (military)	940							
PH (s.u.)	5.49							
Specific Conductivity (µS/cm)	70							
Water Temperature (°C)	21.41							
Turbidity (NTU)	2.2							
Dissolved Oxygen (mg/L)	2.43							

Sampling Data

Sampled By: Billy Emery	Sampling Time: 940	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

Signature: [signature]

DHEC 0423 (10/2012)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/27/17	Site ID #: 07584/07777/12364	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions: Sunny	Ambient Air Temp (°F):

Quality Assurance

Meter Name: HANNA	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 42	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 20 to 35	Total Well Depth (TWD) (ft.): 35.00
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 25.00		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 10.00	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0	0	0	0				
Time (military)	700							
PH (s.u.)	5.06							
Specific Conductivity (µS/cm)	52							
Water Temperature (°C)	22.05							
Turbidity (NTU)	3.1							
Dissolved Oxygen (mg/L)	2.99							

Sampling Data

Sampled By: Billy Emery	Sampling Time: 700	Duplicate: Y or N	If yes, Duplicate Time:

Notes:

Signature: [signature]

DHEC 0423 (10/2012)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/21/17	Site ID #: 07584/07777/[illegible]	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions: Sunny	Ambient Air Temp (°F):

Quality Assurance

Meter Name: HANNA	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: mw43	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 20 to 40	Total Well Depth (TWD) (ft.): 40
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 23.32		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 16.68	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0	0	0	0				
Time (military)	1210							
PH (s.u.)	4.72							
Specific Conductivity (uS/cm)	92							
Water Temperature (°C)	24.85							
Turbidity (NTU)	16.1							
Dissolved Oxygen (mg/L)	4.88							

Sampling Data

Sampled By: Billy Emery	Sampling Time: 1210	Duplicate: Y or N	If yes, Duplicate Time:

Notes:

Signature: [signature]

DHEC 0423 (10/2012)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/27/17	Site ID #: 07587/07777/12364	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions: Sunny	Ambient Air Temp (°F):

Quality Assurance

Meter Name: HANNA	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: mw 44	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 16' to 31	Total Well Depth (TWD) (ft.): 31
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 21.57		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 9.43	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0	0	0	0				
Time (military)	1220							
PH (s.u.)	4.19							
Specific Conductivity (µS/cm)	87							
Water Temperature (°C)	23.67							
Turbidity (NTU)	19.4							
Dissolved Oxygen (mg/L)	4.56							

Sampling Data

Sampled By: Billy Emery	Sampling Time:	Duplicate: Y or N	If yes, Duplicate Time:

Notes:

Signature: [signature]

DHEC 0423 (10/2012)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/27/17	Site ID #: 07587/07777/12354	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions: Sunny	Ambient Air Temp (°F):

Quality Assurance

Meter Name: HANNA	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: mw45	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 15 to 30	Total Well Depth (TWD) (ft.): 30.
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 20.56		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 9.44	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0	0	0	0				
Time (military)	1230							
PH (s.u.)	4.08							
Specific Conductivity (µS/cm)	88							
Water Temperature (°C)	24.64							
Turbidity (NTU)	5.3							
Dissolved Oxygen (mg/L)	3.91							

Sampling Data

Sampled By: Billy Emery	Sampling Time:	Duplicate: Y or N	If yes, Duplicate Time: 1235

Notes: PUP 3

Signature: [signature]

DHEC 0423 (10/2012)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/27/17	Site ID #: 07584/07777/12124	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fish	General Weather Conditions: Sunny	Ambient Air Temp (°F):

Quality Assurance

Meter Name: Hanna	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: mw 46	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 20 to 35	Total Well Depth (TWD) (ft.): 35
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 22.82		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 12.18	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0	0	0	0				
Time (military)	1200							
PH (s.u.)	5.43							
Specific Conductivity (µS/cm)	80							
Water Temperature (°C)	25.08							
Turbidity (NTU)	115							
Dissolved Oxygen (mg/L)	4.97							

Sampling Data

Sampled By: Billy Emery	Sampling Time: 1200	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

Signature: _____

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/27/17	Site ID #: 02514/0077/R04	Site Name: Cloud's Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fish	General Weather Conditions: Sunny	Ambient Air Temp (°F):

Quality Assurance

Meter Name: HANNA	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-51	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.662	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ PW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 20 to 35	Total Well Depth (TWD) (ft.): 35
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 22.51		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 12.49	1 casing volume (CV = LWC x C) (gals.): 1.9		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0	X	3	3				
Time (military)	1302							
PH (s.u.)	4.51							
Specific Conductivity (µS/cm)	94							
Water Temperature (°C)	22.34							
Turbidity (NTU)	45.9							
Dissolved Oxygen (mg/L)	4.73							

Sampling Data

Sampled By: Billy Emery	Sampling Time: 1310	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

Signature: _____

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/ /26	Site ID #: 07584/07777/12364	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions: Sunny	Ambient Air Temp (°F):

Quality Assurance

Meter Name: HANNA	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: mw 52	Well Diameter (ft.):	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): to	Total Well Depth (TWD) (ft.):
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): DTY		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0	1	2	3				
Time (military)								
PH (s.u.)								
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								

Sampling Data

Sampled By: Billy Emery	Sampling Time:	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

Signature: [signature]

DHEC 0423 (10/2012)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/27/17	Site ID #: 07514/0777/1104	Site Name: Cloud's Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fish	General Weather Conditions: Sunny	Ambient Air Temp (°F):

Quality Assurance

Meter Name: HANNA	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-53	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ Private WSW ___ Public WSW		Screened Interval (ft.): 5 to 20	Total Well Depth (TWD) (ft.): 20
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 9.49		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 10.51	1 casing volume (CV = LWC x C) (gals.): 1.6		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0	4	2	3				
Time (military)	1310							
PH (s.u.)	4.52							
Specific Conductivity (uS/cm)	53							
Water Temperature (°C)	24.59							
Turbidity (NTU)	20.8							
Dissolved Oxygen (mg/L)	2.69							

Sampling Data

Sampled By: Billy Emery	Sampling Time: 1318	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

Signature: _____

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/27/17	Site ID #: 01584/0777/RSA	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fish	General Weather Conditions: Sunny	Ambient Air Temp (°F):

Quality Assurance

Meter Name: HANNA	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 55	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 4 to 14	Total Well Depth (TWD) (ft.): 14
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 2.1		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 11.9	1 casing volume (CV = LWC x C) (gals.): 1.9		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0	1	2	3				
Time (military)	1400							
PH (s.u.)	6.03							
Specific Conductivity (µS/cm)	162							
Water Temperature (°C)	28.53							
Turbidity (NTU)	14.5							
Dissolved Oxygen (mg/L)	1.21							

Sampling Data

Sampled By: Billy Emery	Sampling Time: 1400	Duplicate: (Y) or N	If yes, Duplicate Time: 1405

Notes: Dup 4

Signature:

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/27/19	Site ID #: 01514/0777/RSC	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fish	General Weather Conditions: Sunny	Ambient Air Temp (°F):

Quality Assurance

Meter Name: Hanna	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 56	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ Private WSW ___ Public WSW		Screened Interval (ft.): 5 to 20	Total Well Depth (TWD) (ft.): 20
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 7.20		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 12.8	1 casing volume (CV = LWC x C) (gals.): 2.048		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0	2	3	3				
Time (military)	1430							
PH (s.u.)	5.49							
Specific Conductivity (uS/cm)	194							
Water Temperature (°C)	25.24							
Turbidity (NTU)	44.7							
Dissolved Oxygen (mg/L)	1.48							

Sampling Data

Sampled By: Billy Emmy	Sampling Time: 1430	Duplicate: Y or N	If yes, Duplicate Time:

Notes: No Lid, No Cap

Signature:

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/28/19	Site ID #: 01554/0777/2154	Site Name: Cloud's Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fish	General Weather Conditions: Sunny	Ambient Air Temp (°F):

Quality Assurance

Meter Name: HANNA	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: mw 5Q	Well Diameter (ft.): 2 in	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 7 to 17	Total Well Depth (TWD) (ft.): 17
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 5.65		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 11.35	1 casing volume (CV = LWC x C) (gals.): 1.8		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)		2	2	3				
Time (military)	800							
PH (s.u.)	6.56							
Specific Conductivity (µS/cm)	205							
Water Temperature (°C)	23.02							
Turbidity (NTU)	15.1							
Dissolved Oxygen (mg/L)	7.23							

Sampling Data

Sampled By: Billy Emery	Sampling Time:	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

Signature: _____

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/27/17	Site ID #: 07581/07777/12356	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions: Sunny	Ambient Air Temp (°F):

Quality Assurance

Meter Name: HANNA	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: mw 62	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 20 to 35	Total Well Depth (TWD) (ft.): 35
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 22.44		Free Product Thickness (ft.):
Length of water column (LWC = TWD - DGW) (ft.): 12.65	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0	0	0	0				
Time (military)	1030							
PH (s.u.)	5.13							
Specific Conductivity (uS/cm)	267							
Water Temperature (°C)	21.23							
Turbidity (NTU)	31.9							
Dissolved Oxygen (mg/L)	0.49							

Sampling Data

Sampled By: Billy Emery	Sampling Time: 1030	Duplicate: Y or N	If yes, Duplicate Time:

Notes:

Signature: [signature]

DHEC 0423 (10/2012)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/27/19	Site ID #: 01584/07777/12354	Site Name: Cloud's Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fish	General Weather Conditions: Sunny	Ambient Air Temp (°F):

Quality Assurance

Meter Name: HANNA	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 6863	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 20 to 35	Total Well Depth (TWD) (ft.): 35
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 22.81		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 12.19	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.)

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0	0	0	0				
Time (military)	1010							
PH (s.u.)	4.83							
Specific Conductivity (µS/cm)	95							
Water Temperature (°C)	22.35							
Turbidity (NTU)	20.2							
Dissolved Oxygen (mg/L)	1.62							

Sampling Data

Sampled By: Billy Emery	Sampling Time: 1010	Duplicate: Y or N	If yes, Duplicate Time:

Notes: ___

Signature: [signature]

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/27/16	Site ID #: 01584/07774/12356	Site Name: Cloud's Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fish	General Weather Conditions: Sunny	Ambient Air Temp (°F):

Quality Assurance

Meter Name: HANNA	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C. Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: mw67	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 20 to 35		Total Well Depth (TWD) (ft.): 35
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 25.42		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 10.48	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0	0	0	0				
Time (military)	710							
PH (s.u.)	5.30							
Specific Conductivity (µS/cm)	100							
Water Temperature (°C)	22.45							
Turbidity (NTU)	6.5							
Dissolved Oxygen (mg/L)	4.01							

Sampling Data

Sampled By: Billy Emery	Sampling Time: 710	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

Signature: _____

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/27/17	Site ID #: 07584/07777/R2C4	Site Name: Claude's Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions: Sunny	Ambient Air Temp (°F):

Quality Assurance

Meter Name: HANNA	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: mw 70	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 20 to 35	Total Well Depth (TWD) (ft.):
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 29.51		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 10.49	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0	[illegible]	[illegible]	[illegible]				
Time (military)	1000							
PH (s.u.)	5.44							
Specific Conductivity (µS/cm)	95							
Water Temperature (°C)	22.18							
Turbidity (NTU)	4.5							
Dissolved Oxygen (mg/L)	1.09							

Sampling Data

Sampled By: Billy Emery	Sampling Time: 1000	Duplicate: Y or N	If yes, Duplicate Time:

Notes:

Signature: [signature]

DHEC 0423 (10/2012)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/23/17	Site ID #: 01514/0777/1264	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fish	General Weather Conditions: Sunny	Ambient Air Temp (°F):

Quality Assurance

Meter Name: HANNA	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: PW1R	Well Diameter (ft.): 4"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 45 to 50	Total Well Depth (TWD) (ft.): 50
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 22.16		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 27.84	1 casing volume (CV = LWC x C) (gals.): 18.1		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0	3	NA	3				
Time (military)	1100	1115	[illegible]	[illegible]				
PH (s.u.)	6.35	6.40	D	D				
Specific Conductivity (µS/cm)	137	93.5	D	D				
Water Temperature (°C)	26.42	27.01	R	R				
Turbidity (NTU)	131	94.3	Y	Y				
Dissolved Oxygen (mg/L)	0.72	0.41	Y	Y				

Sampling Data

Sampled By: Billy Emery	Sampling Time: 1145	Duplicate: Y or N	If yes, Duplicate Time: 1130

Notes: DUP 5

Signature:

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/28/26	Site ID #: 01584/0777/024	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fish	General Weather Conditions: Sunny	Ambient Air Temp (°F):

Quality Assurance

Meter Name: Hanna	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-Dw1	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 65 to 70	Total Well Depth (TWD) (ft.): 70
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 42.91		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 27.09	1 casing volume (CV = LWC x C) (gals.): 4.3		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0	4.3	8.6	12.9				
Time (military)	840	845	850	855				
PH (s.u.)	7.93	8.80	8.90	8.88				
Specific Conductivity (µS/cm)	103	73	75	74				
Water Temperature (°C)	23.44	23.49	23.45	23.47				
Turbidity (NTU)	210	141	120	105				
Dissolved Oxygen (mg/L)	1.72	1.57	1.47	1.45				

Sampling Data

Sampled By: Billy Emery	Sampling Time: 855	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

Signature: _____

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/14/26	Site ID #: 07584/07777/RG	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions: Sunny	Ambient Air Temp (°F):

Quality Assurance

Meter Name: HANNA	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: Mark DW2	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 70 to 75		Total Well Depth (TWD) (ft.): 75
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 42.21		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 32.79	1 casing volume (CV = LWC x C) (gals.): 5.2		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0	5.2	10.4	15.8				
Time (military)	920	925	930	935				
PH (s.u.)	8.48	7.22	6.55	6.50				
Specific Conductivity (µS/cm)	71	55	51	51				
Water Temperature (°C)	25.52	23.28	23.77	23.75				
Turbidity (NTU)	52.3	66.7	16.6	10.7				
Dissolved Oxygen (mg/L)	3.98	7.63	2.46	2.37				

Sampling Data

Sampled By: Billy Emery	Sampling Time: 935	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

Signature _____

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/28/26	Site ID #: 01584/0777/RR	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions: Sunny	Ambient Air Temp (°F):

Quality Assurance

Meter Name: HANNA	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: DW3	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 47 to 52		Total Well Depth (TWD) (ft.): 52
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 22.85		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 29.15	1 casing volume (CV = LWC x C) (gals.): 4.6		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0	4.6	9.2	13.8				
Time (military)	950	955	1000	1005				
PH (s.u.)	6.73	6.45	6.41	6.40				
Specific Conductivity (µS/cm)	67	209	241	255				
Water Temperature (°C)	24.58	24.35	24.04	24.02				
Turbidity (NTU)	111	43.6	19.1	13.5				
Dissolved Oxygen (mg/L)	0.62	0.19	0.19	0.18				

Sampling Data

Sampled By: Billy Emery	Sampling Time: 1005	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

Signature: _____

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/28/17	Site ID #: 01584/07777/RRC	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions: Sunny	Ambient Air Temp (°F):

Quality Assurance

Meter Name: HANNA	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: DW4	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 105 to 110	Total Well Depth (TWD) (ft.): 110
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 38.96		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 71.04	1 casing volume (CV = LWC x C) (gals.): 11.3		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0	11.3	22.6	33.9				
Time (military)	1020	1030	1040	1050				
PH (s.u.)	6.69	5.68	5.71	5.79				
Specific Conductivity (µS/cm)	164	171	166	160				
Water Temperature (°C)	22.49	22.63	22.68	22.68				
Turbidity (NTU)	98.3	91.3	67.2	60.3				
Dissolved Oxygen (mg/L)	7.43	2.77	2.51	2.81				

Sampling Data

Sampled By: Billy Emery	Sampling Time:	Duplicate: (Y) or N	If yes, Duplicate Time:

Notes:

Signature:

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/28/17	Site ID #: 01584/07777/12364	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fish	General Weather Conditions: Sunny	Ambient Air Temp (°F):

Quality Assurance

Meter Name: HORIBA	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: DW 5	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 65 to 70		Total Well Depth (TWD) (ft.): 70
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 42.36		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 27.64	1 casing volume (CV = LWC x C) (gals.): 4.42		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0	4.84	8.8	12.12				
Time (military)	1150	1155	D	D				
PH (s.u.)	6.33	5.84	R	R				
Specific Conductivity (µS/cm)	120	117	Y	Y				
Water Temperature (°C)	23.19	23.56						
Turbidity (NTU)	216	52.9						
Dissolved Oxygen (mg/L)	1.39	0.55						

Sampling Data

Sampled By: Billy Emery	Sampling Time: 1155	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: Broken Cap

Signature:

Purge

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/24/17	Site ID #: 07584/07777/12354	Site Name: Cloud's Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fish	General Weather Conditions: Sunny	Ambient Air Temp (°F):

Quality Assurance

Meter Name: HANNA	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 6	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 60 to 80 65-70		Total Well Depth (TWD) (ft.):
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 44.31		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 25.69	1 casing volume (CV = LWC x C) (gals.): 4.1		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0	4.1	8.2 1140	12.3 1145				
Time (military)	11:30	1135	1140	1145				
PH (s.u.)	7.32	2.39	D	D				
Specific Conductivity (µS/cm)	271	[redacted] 72						
Water Temperature (°C)	24.81	24.69	"	"				
Turbidity (NTU)	269	<1000	"	"				
Dissolved Oxygen (mg/L)	2.44	2.37						

Sampling Data

Sampled By: Billy Emery	Sampling Time: 1135	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: _____

Signature: _____

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/28/24	Site ID #: 07594/07777/12354	Site Name: Claude Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions: Sunny	Ambient Air Temp (°F):

Quality Assurance

Meter Name: HANNA	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: DW9	Well Diameter (ft.): 7	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.052	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 66 to 65	Total Well Depth (TWD) (ft.): 65
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 22.73		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 42.27	1 casing volume (CV = LWC x C) (gals.): 6.7		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0	6.7	13.4	20.1				
Time (military)	810	815	820	825				
PH (s.u.)	6.05	5.92	6.01	5.92				
Specific Conductivity (µS/cm)	45	41	42	44				
Water Temperature (°C)	21.49	21.37	21.39	21.37				
Turbidity (NTU)	16.8	36.2	32.3	33.[illegible]				
Dissolved Oxygen (mg/L)	0.10	0.38	0.34	0.33				

Sampling Data

Sampled By: Billy Emery	Sampling Time: 825	Duplicate: Y or N	If yes, Duplicate Time:

Notes: No Cap

Signature: [signature]

DHEC 0423 (10/2012)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

Appendix C

Disposal Manifest

CRAWFORD ENVIRONMENTAL SERVICES

August 29, 2017

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

Re: Purge Water Report- Development & Groundwater Sampling
Handy Pantry/University Mart and Cloud's Chevron
Intersection of Taylor Street and Two Notch Road
Columbia, South Carolina
SCDHEC Site ID# 07584/07777/12352

Dear Project Manager;

The letter presents the certification that Crawford Environmental Services (CES) treated purge waters referenced below with a granular activated carbon unit prior to discharge. This was completed in accordance with the conditions laid out in the "Proposed Conditions for use of Portable Activated Carbon Units for the Treatment of Small Volumes of Petroleum Hydrocarbon Contaminated Groundwater" produced by the SCDHEC Bureau of Water.

A total of approximately 109 gallons were treated on June 27 and 28, 2017 for the above referenced facility.

A record of treatment is available upon request. If you have any questions or comments please feel free to contact us at 540-343-6256.

Sincerely,

Daniel J. Fisher
Division Manager
Crawford Environmental Services

Appendix D

QAPP Addendum Contractor Checklist

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

UST Programmatic QAPP Contractor Checklist				
26	Does the report include a brief discussion of the aquifer evaluation and the results?	Yes		
27	Does the report include a brief discussion of the fate & transport models used?			n/a
28	Are the site-conceptual tables included (Tier 1 risk evaluation)			n/a
29	Have the exposure pathways been analyzed (Tier 2 risk evauluation)			n/a
30	Have the SSTLs for each compound and pathway been calculated? (Tier 2 risk evaluation)	Yes		
31	Have recommendations for further action been provided and explained?			n/a
32	Has the soil analytical data for the site been provided in tabular format? (Table 5)			n/a
33	Has the potentiometric data for the site been provided in tabular format?	Yes		
34	Has the current and historical laboratory data been provided in tabular format	Yes		
35	Have the aquifer characteristics been provided and summarized on the appropriate form?			n/a
36	Have the Site conceptual model tables been included (Tier 1 risk evaluation)			n/a
37	Has the topographic map been provided with all the required elements?	Yes		
38	Has the site base map been provided with all the required elements?	Yes		
39	Have the CoC maps been provided?	Yes		
40	Have the potentiometric maps been provided?	Yes		
41	Have the geologic cross-sections been provided			n/a
42	Have maps showing the predicted migration of the CoCs through time been provided?			n/a
43	Has the site survey been provided and include all necessary elements? (Appendix A)			n/a
44	Have the sampling logs, chain of custody forms and analytical data package been included with all elements? (Appendix B)	Yes		
45	Is the laboratory performing the analyses properly certified? (Appendix B)	Yes		
46	Has the tax map been included with all necessary elements? (Appendix C)			n/a
47	Have the soil/boring field screening logs been provided? (Appendix D)			n/a
48	Have the well completion logs been provided? (Appendix E)			n/a
49	Have the aquifer evaluation forms,data, graphs, equations,etc. been provided? (Appendix F)			n/a
50	Have the disposal manifests been provided? (Appendix G)	Yes		
51	Has a copy of the local zoning regulations been provided? (Appendix H)			n/a

UST Programmatic QAPP Contractor Checklist				
52	Has all fate and transport modeling been provided? (Appendix I)			n/a
53	Have copies of all access agreements obtained by the contractor been provided? (Appendix J)			n/a
54	Has a copy of this form been attached to the final report and are explainations for any missing or incomplete data been provided?	Yes		
Comments:				

dhec
Healthy People. Healthy Communities.

OCT 25 2017

UST DOCKETING

MR CHARLES F CRAWFORD III
CRAWFORD ENVIRONMENTAL SERVICES
15 CHURCH AVENUE SW
ROANOKE VA 24011

Re: **Corrective Action System Evaluation (CASE) Report Review**
UST Permit# 07584, University Mart, 2367 Taylor St., Columbia, SC – 2627
Release #1 reported January 30, 1991; CA# 47811
Release #2 reported April 17, 1998; CA# 47812
UST Permit # 07777, Clouds Chevron, 1600 Two Notch Rd., Columbia, SC – 1977
Release reported December 31, 1991; CA# 47813
UST Permit # 12352, Clouds Chevron, 1600 Two Notch Rd., Columbia, SC – 1327
Release reported December 30, 1991; CA# 47814
Contract #IFB-5400007095-1/30/2014-EMW; PO# 4600322226
CASE report received September 12, 2017
Richland County

Dear Mr. Crawford:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed the CASE report documenting the corrective action activities and the June 2017 groundwater sampling event. The CASE report has documented 56.86% Chemical of Concern (CoC) reduction. DHEC has granted the request for the semi-annual sampling events can be reduced to sampling only the site-specific target level monitoring wells.

The semi-annual CASE 7 report is due on or before **December 15, 2017.**

On all correspondence regarding this site, please reference UST Permit #07584, #07777, & #12352. If you have any questions regarding this correspondence, please contact me by telephone at (803) 898-0634, by fax at (803) 898-0673, or by e-mail at kuhnkm@dhec.sc.gov.

Sincerely,

Kimberly M. Kuhn, Hydrogeologist
Corrective Action & Quality Assurance Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

cc: Sylvan Food Systems, Inc., 1245 Boston Ave, West Columbia, SC 29170
Gilbert Walker, Public Housing Authority, Gonzales Gardens, P.O. Box 4307, Columbia, SC 29240
1500 Millwood Ave, LLC, 1330 Devonshire Drive, Columbia, SC 29204
John M. Suddeth, 1410 N Millwood Ave, Columbia, SC 29204
Fung Lau, 2300 Taylor St, Suite D, Columbia, SC 29204
Technical File

CRAWFORD ENVIRONMENTAL SERVICES



February 13, 2018

Ms. Kimberly Kuhn
Corrective Action Section
UST Management Division
Bureau of Land and Waste Management
South Carolina Department of Health and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201



RE: Corrective Action System Evaluation – January 2018 (Sampling Date)
Handy Pantry #65/University Mart & Cloud's Chevron
Intersection of Taylor Street and Two Notch Road
Columbia, South Carolina
UST Permit # 07584 / 07777 / 12352

Dear Ms. Kuhn:

Enclosed please find one copy of the January 2018 Corrective Action System Evaluation (CASE) report prepared by Crawford Environmental Services, Inc. (CES) for the referenced site. Should you have any questions regarding the enclosed material, or if additional information is required, please feel free to contact Charlie Crawford or myself at 540.343.6256.

Best Regards,

Daniel Fisher
Operations Manager

cc:

CRAWFORD ENVIRONMENTAL SERVICES

February 13, 2018

Ms. Kimberly Kuhn
Corrective Action Section
UST Management Division
Bureau of Land and Waste Management
South Carolina Department of Health and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

RE: Corrective Action System Evaluation – January 2018 (Sampling Date)
Handy Pantry #65/University Mart & Cloud's Chevron
Intersection of Taylor Street and Two Notch Road
Columbia, South Carolina
UST Permit # 07584 / 07777 / 12352

Dear Ms. Kuhn:

Enclosed please find one copy of the January 2018 Corrective Action System Evaluation (CASE) report prepared by Crawford Environmental Services, Inc. (CES) for the referenced site. Should you have any questions regarding the enclosed material, or if additional information is required, please feel free to contact Charlie Crawford or myself at 540.343.6256.

Best Regards,

Daniel Fisher
Operations Manager

cc:

CRAWFORD ENVIRONMENTAL SERVICES

Corrective Action System Evaluation Report
January 2018

Handy Pantry #65/University Mart & Cloud's Chevron
Intersection of Taylor Street and Two Notch Road
Columbia, South Carolina
UST Permit # 07584 / 07777 / 12352

February 13, 2018
Revision 0

CORRECTIVE ACTION SYSTEM EVALUATION REPORT

Handy Pantry #65/University Mart & Cloud's Chevron
Intersection of Taylor Street and Two Notch Road
Columbia, South Carolina
York County
UST Permit #: 07584/07777/12352
CES Job #: 7.0547

PREPARED BY:
Crawford Environmental Services, Inc.
1701 Shenandoah Avenue, NW
Roanoke, Virginia 24017
Phone: 540-343-6256; Fax: 540-343-6259
dfisher@crawfordenvironmental.com

PREPARED FOR:
South Carolina Department of Health & Environmental Control
Ms. Kimberly Kuhn
South Carolina Department of Health and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

SUBMITTED TO:
South Carolina Department of Health & Environmental Control
Ms. Kimberly Kuhn
South Carolina Department of Health and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

CRAWFORD ENVIRONMENTAL SERVICES

Title: *Corrective Action System Evaluation Report, Handy Pantry/University Mart and Cloud's Chevron, Site (Site No. 07584/07777/12352), Columbia, South Carolina, January 2018.*

Written By:

Daniel J. Fisher
Senior Project Manager/Technical Reviewer

13 February 2018
Date Reviewed

Reviewed By:

B. Thomas Houghton, P.G.
Senior Project Geologist/Technical Reviewer
Registered South Carolina P.G. No. 2343

14 February 2018
Date Reviewed



Approved By:

Charles F. Crawford
President/Chief Executive Officer, Technical Reviewer

14 February 2018
Date Reviewed

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1.0 Project Information

1.1 Introduction

Crawford Environmental Services Inc., (CES) has completed a Corrective Action System Evaluation (CASE) report for the Handy Pantry #65/University Mart and former Cloud's Chevron site. The report describes assessment activities conducted at the site in general accordance with the scope of work as defined in the QAPP Addendum Approval, dated March 20, 2014. The subject property is in a primarily commercial area of Columbia, South Carolina (*Figure 1*). The subject sites, operating as Handy Pantry #65/University Mart and former Cloud's Chevron, is bordered by light commercial properties in all directions. A site plan depicting pertinent features of the subject property is provided as *Figure 2*.

1.2 Facility Information

1.2.1 Site Address

Handy Pantry #65 / University Mart / Clouds Chevron
2367 Taylor Street
Columbia, South Carolina

1.2.2 Property Owner Information

Mr. Mahesh Patel
2367 Taylor Street
Columbia, South Carolina

Mr. Andrew Diggins
1600 Block Two Notch Road
Columbia, South Carolina

1.2.3 Contractor Information

Crawford Environmental Services
1701 Shenandoah Avenue, NW
Roanoke, Virginia 24017
1 (540) 343-6256
Contractor Number: UCC-0388

1.2.4 Laboratory Information

Access Analytical, Inc. (AA)
7478 Carlisle Street
Irmo, SC 29063
1 (803) 781-4243
SC Certification: 32575001

Analytical Environmental Services Inc. (AES)
3785 Presidential Pkwy.
Atlanta, GA 30340
1 (770) 457-8177
SC Certification: 98016003

2.0 Corrective Action Activities

Corrective Action activities at the facility for this phase of work included the following:

-Semi-Annual Sampling Event

2.1 Groundwater Sampling Event

A comprehensive groundwater sampling event, including; recording equilibrated static water levels, product thicknesses, and the collection of chemical samples was completed by CES personnel between January 22 - 24, 2018. CES personnel utilized an electronic water level indicator for water level measurements and an oil/water interface probe for free phase product measurements. Samples for the shallow wells were collected utilizing disposable polyethylene bailers. Shallow wells that exhibited groundwater above the screened bracket were purged of at least three well volumes or purged till dry before sample collection. Deep and intermediate wells exhibiting groundwater above the screened bracket were purged utilizing submersible pumps with dedicated tubing. For sample collection, disposable polyethylene bailers were lowered slowly to the top of the water column (after purging in some cases) allowed to fill one volume, then removed. Disposal records for the 109-gallons of purge water generated are included as Appendix A. Groundwater was then transferred to the appropriate sampling containers and was then placed in coolers, maintaining 4˚C, and delivered to an independent laboratory. Groundwater chemical samples were submitted to Access Analytical, Inc., {SC Certification: 32575001} for analysis.

2.1.1 Groundwater Sampling

Equilibrated static water levels and free-product thicknesses were recorded for monitoring wells MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, MW-8, MW-9, MW-10, MW-11, MW-15, MW-16, MW-17, MW-18, MW-19, MW-20, MW-22, MW-23, MW-25, MW-26, MW-27, MW-28, MW-29, MW-30, MW-31, MW-32, MW-33, MW-34, MW-35, MW-36, MW-37, MW-38, MW-39, MW-40, MW-41, MW-42, MW-43, MW-44, MW-45, MW-46, MW-49, MW-51, MW-53, MW-55, MW-56, MW-59, MW-62, MW-63, MW-67, MW-70, MW-5AR, PW-1R, DW-1,

DW-2, DW-3, DW-4, DW-5, DW-6, and DW-9. Groundwater sampling data sheets are included as Appendix B.

During the referenced sampling event, CES was unable to access monitoring wells MW-48 and MW-50 due to a locked gate and monitoring wells MW-60, MW-65, DW-7 were unable to be located. CES also utilized a metal detector to locate the wells, however, the overgrown site conditions did not permit the location of the aforementioned monitoring wells. Due to obstructions (vehicle) covering the wells, monitoring wells MW-58 and DW-8 were not able to be sampled. Monitoring wells MW-12, MW-13, MW-54, MW-65 and DW-7 have been paved over following recent construction and presumed destroyed.

CES sampled the monitoring wells, as part of the January 2018 sampling event, for the following chemical analyses:
Benzene/Toluene/Ethylbenzene/Xylenes (BTEX), naphthalene, Methyl Tert-Butyl Ether (MTBE), Tert-Amyl Methyl Ether (TAME), Tert-Butyl Alcohol (TBA), and Tert-Amyl Alcohol (TAA).

During the sampling event CES collected duplicate samples of monitoring wells MW-15, MW-23, MW-33, MW-41, DW-3. Review of the duplicate samples collected from aforementioned monitoring well samples did not yield significant data gaps.

In addition to duplicate samples, CES also collected daily field blank samples at the conclusion of the sample events. The samples were collected at the conclusion of the day to be representative of all samples that were collected during that day. Sealed trip blank samples were also stored with samples during each day of the sampling event.

Table 2 presents the laboratory data for the submitted groundwater samples collected as part of this assessment. The groundwater concentration maps are included as *Figure 3.* The groundwater elevation map is included as *Figure 4*.

3.0 Summary

During the corrective action activities performed at the subject property, CES conducted a comprehensive groundwater monitoring event, to determine the effectiveness of the current corrective action plan. The qualitative and quantitative data collected from recent assessment activities indicates the following regarding current site conditions;

1. During this sampling event, groundwater from monitoring wells MW-2, MW-3, MW-9, MW-10, MW-15, MW-17, MW-18, MW-19, MW-20, MW-22, MW-23, MW-25, MW-32, MW-33, MW-35, MW-39, MW-41, MW-42, MW-55, MW-59,

MW-5AR, PW-1R, DW-3, and DW-5 exhibited hydrocarbon constituent concentrations above the SSTLs for the chemicals of concern.

2. CES calculated a COC reduction of 36.15 percent during this phase of work.

3. Free-phase petroleum was not observed during the January 2018 sampling event.

4.0 Conclusion

Based on the results of the comprehensive sampling event, CES estimates that the historical remedial injects have been successful in targeting source area and contaminants. CES estimates that decreases in the COC reduction percentage observed during this period are based upon a significant number of wells being unable to be sampled and the reduction of free-phase petroleum during sampling event. This reduction should continue to increase as CES pursues continued remedial biological injections. CES recommends continuing a course of biological injections until the goal of 100 % COC reduction is met. The next biological injection event is scheduled for April 2018. CES will focus injections in four recently-installed injection wells, installed July 2016. The next Comprehensive Case Report will be submitted prior to June 5, 2018.

5.0 Limitations

This report is based upon a specific scope of work requested by SCDHEC. This report is intended only for the use of CES's client and anyone else specifically listed on this report. Some data contained within this report was previously collected by other consultants and is assumed to be correct. CES will not and cannot be liable for the unauthorized release by any third party. Other than as contained in this paragraph, CES makes no expressed or implied warranty as to the contents of this report.

Tables

Table 1: Well Construction and Historical Groundwater Elevation Summary
Table 2: Groundwater Laboratory Analytical Result Summary
Table 3: Site Specific Target Levels

Table 1

Facility Name: Handy Pantry #65 / University Mart & Clouds Chevron — UST Permit ID: 07584 / 07777 / 12352

Address: 2367 Taylor Street Columbia, South Carolina — CES Project Number: 7.0547

Well Construction and Historical Groundwater Elevation Summary

Monitor Well	Well Depth (ft)	Screened Interval		Top of Casing (ft)	Date Measured	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Product Elevation (ft)	Groundwater Elevation (ft)
MW-1	27	17	27	93.89	1/24/2018	NA	DRY	NA	NA	DRY
					6/26/2017	NA	DRY	NA	NA	DRY
					10/19/2016	NA	DRY	NA	NA	DRY
					5/15/2016	NA	DRY	NA	NA	DRY
					11/3/2015	NA	DRY	NA	NA	DRY
					5/29/2015	NA	DRY	NA	NA	DRY
					11/11/2014	NA	DRY	NA	NA	DRY
					4/2/2014	NA	DRY	NA	NA	DRY
MW-2	30	20	30	94.70	1/22/2018	NA	24.04	NA	NA	70.66
					6/27/2017	NA	21.51	NA	NA	73.19
					10/19/2016	NA	21.17	NA	NA	73.53
					5/16/2016	NA	20.08	NA	NA	74.62
					11/3/2015	NA	20.32	NA	NA	74.38
					5/29/2015	22.56	22.57	0.01	72.14	72.13
					11/4/2014	NA	23.03	NA	NA	71.67
					4/2/2014	NA	21.12	NA	NA	73.58
MW-3	29	19	29	94.45	1/22/2018	NA	23.42	NA	NA	71.03
					6/27/2017	NA	20.98	NA	NA	73.47
					10/19/2016	NA	20.18	NA	NA	74.27
					5/16/2016	NA	19.84	NA	NA	74.61
					11/3/2015	NA	23.29	NA	NA	71.16
					5/29/2015	23.2	23.29	0.09	71.25	71.16
					4/2/2014	NA	21.40	NA	NA	73.05
					11/12/2014	NA	23.16	NA	NA	71.29
MW-4	28	18	28	94.85	1/22/2018	NA	22.19	NA	NA	72.66
					6/27/2017	NA	20.55	NA	NA	74.30
					10/19/2016	NA	20.42	NA	NA	74.43
					5/16/2016	NA	19.20	NA	NA	75.65
					11/3/2015	NA	20.35	NA	NA	74.50
					5/29/2015	NA	21.52	NA	NA	73.33
					11/11/2014	NA	21.76	NA	NA	73.09
					4/2/2014	NA	21.31	NA	NA	73.54
MW-5	26	16	26	95.26	1/22/2018	NA	DRY	NA	NA	DRY
					6/26/2017	NA	DRY	NA	NA	DRY
					10/19/2016	NA	DRY	NA	NA	DRY
					5/16/2016	NA	19.75	NA	NA	75.51
					11/3/2015	NA	DRY	NA	NA	DRY
					5/29/2015	NA	DRY	NA	NA	DRY
					11/11/2014	NA	DRY	NA	NA	DRY
					4/2/2014	NA	DRY	NA	NA	DRY
MW-6	30	20	30	94.96	1/22/2018	NA	24.54	NA	NA	70.42
					6/27/2017	NA	22.91	NA	NA	72.05
					10/19/2016	NA	22.04	NA	NA	72.92
					5/17/2016	NA	20.59	NA	NA	74.37
					11/3/2015	NA	21.21	NA	NA	73.75
					5/29/2015	NA	22.38	NA	NA	72.58
					11/11/2014	NA	23.98	NA	NA	70.98
					4/3/2014	NA	22.61	NA	NA	72.35
MW-7	30	20	30	95.93	1/22/2018	NA	24.58	NA	NA	71.35
					6/27/2017	NA	22.32	NA	NA	73.61
					10/19/2016	NA	22.20	NA	NA	73.73
					5/16/2016	NA	20.98	NA	NA	74.95
					11/3/2015	NA	21.79	NA	NA	74.14
					5/29/2015	NA	23.48	NA	NA	72.45
					11/11/2014	NA	24.12	NA	NA	71.81
					4/3/2014	NA	23.02	NA	NA	72.91
MW-8	28	18.5	28	94.79	1/22/2018	NA	21.86	NA	NA	72.93
					6/27/2017	NA	19.65	NA	NA	75.14
					10/19/2016	NA	19.70	NA	NA	75.09
					5/17/2016	NA	18.75	NA	NA	76.04
					11/3/2015	NA	19.19	NA	NA	75.60
					5/29/2015	NA	20.08	NA	NA	74.71
					11/11/2014	NA	21.43	NA	NA	73.36
					4/3/2014	NA	19.95	NA	NA	74.84
MW-9	30	20	30	92.30	1/22/2018	NA	22.22	NA	NA	70.08
					6/26/2017	Unable to Locate				
					10/19/2016	NA	20.30	NA	NA	72.00
					5/16/2016	NA	18.78	NA	NA	73.52
					11/3/2015	NA	20.04	NA	NA	72.26
					5/28/2015	NA	21.19	NA	NA	71.11
					11/11/2014	NA	21.69	NA	NA	70.61
					4/2/2014	NA	20.60	NA	NA	71.70

Table 1

Facility Name: Handy Pantry #65 / University Mart & Clouds Chevron — UST Permit ID: 07584 / 07777 / 12352

Address: 2367 Taylor Street Columbia, South Carolina — CES Project Number: 7.0547

Well Construction and Historical Groundwater Elevation Summary

Monitor Well	Well Depth (ft)	Screened Interval		Top of Casing (ft)	Date Measured	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Product Elevation (ft)	Groundwater Elevation (ft)
MW-10	28	18	28	85.98	1/22/2018	NA	17.28	NA	NA	68.70
					6/28/2017	NA	15.33	NA	NA	70.65
					10/19/2016	NA	15.75	NA	NA	70.23
					5/18/2016	NA	14.52	NA	NA	71.46
					11/3/2015	NA	14.58	NA	NA	71.40
					5/28/2015	NA	16.64	NA	NA	69.34
					11/11/2014	Interface Probe Failure - 1.25-Feet of Product Observed in Bailer				
					4/1/2014	NA	17.69	NA	NA	68.29
MW-11	30	Unknown		88.46	1/24/2018	NA	20.91	NA	NA	67.55
					6/27/2017	NA	17.75	NA	NA	70.71
					10/19/2016	NA	18.19	NA	NA	70.27
					5/18/2016	NA	16.66	NA	NA	71.80
					11/3/2015	NA	17.16	NA	NA	71.30
					5/29/2015	NA	18.93	NA	NA	69.53
					11/11/2014	NA	19.38	NA	NA	69.08
					4/2/2014	NA	18.61	NA	NA	69.85
MW-12	24.65	Unknown		72.80	1/23/2018	Destroyed - Paved Over				
					6/26/2017					
					10/19/2016	NA	3.32	NA	NA	69.48
					5/18/2016	NA	2.73	NA	NA	70.07
					11/3/2015	NA	3.15	NA	NA	69.65
					5/28/2015	NA	4.38	NA	NA	68.42
					11/11/2014	NA	4.63	NA	NA	68.17
					4/2/2014	NA	4.20	NA	NA	68.60
MW-13	30.1	Unknown		80.44	1/23/2018	Destroyed - Paved Over				
					6/26/2017					
					10/19/2016	NA	10.83	NA	NA	69.61
					5/16/2016	NA	9.71	NA	NA	70.73
					11/3/2015	NA	9.82	NA	NA	70.62
					5/28/2015	NA	11.71	NA	NA	68.73
					11/11/2014	NA	12.15	NA	NA	68.29
					4/1/2014	NA	11.13	NA	NA	69.31
MW-15	25	15	25	86.44	1/22/2018	NA	17.29	NA	NA	69.15
					6/28/2017	NA	15.36	NA	NA	71.08
					10/19/2016	15.70	15.82	0.12	70.74	70.62
					5/18/2016	14.58	15.02	0.13	71.86	71.42
					11/3/2015	14.51	14.64	0.13	71.93	71.80
					5/29/2015	16.45	16.61	0.16	69.99	69.83
					11/11/2014	Interface Probe Failure - 0.25-Feet of Product Observed in Bailer				
					4/1/2014	16.60	16.00	0.60	69.84	70.88*
MW-16	25	15	25	88.19	1/22/2018	NA	19.36	NA	NA	68.83
					6/27/2017	NA	17.21	NA	NA	70.98
					10/19/2016	NA	17.55	NA	NA	68.89
					5/18/2016	NA	16.29	NA	NA	71.90
					11/3/2015	NA	16.29	NA	NA	70.15
					5/29/2015	Unable to Locate				
					11/12/2014	NA	18.98	NA	NA	69.21
					4/2/2014	NA	17.54	NA	NA	70.65
MW-17	22	20	30	92.45	1/22/2018	NA	23.87	NA	NA	68.58
					6/27/2017	NA	21.62	NA	NA	70.83
					10/19/2016	NA	21.58	NA	NA	70.87
					5/18/2016	Not Sampled due to Obstruction				
					11/3/2015	NA	20.47	NA	NA	71.98
					5/28/2015	NA	22.70	NA	NA	69.75
					11/12/2014	NA	23.45	NA	NA	69.00
					4/2/2014	NA	22.00	NA	NA	70.45
MW-18	30	20	30	94.81	1/24/2018	NA	25.54	NA	NA	69.27
					6/26/2017	NA	23.16	NA	NA	71.35
					10/19/2016	NA	23.46	NA	NA	71.35
					5/15/2016	NA	22.04	NA	NA	72.77
					11/3/2015	NA	22.28	NA	NA	72.53
					5/28/2015	NA	24.41	NA	NA	70.40
					11/12/2014	NA	25.08	NA	NA	69.73
					4/2/2014	NA	23.68	NA	NA	71.13
MW-19	30	20	30	93.96	1/24/2018	NA	25.11	NA	NA	68.85
					6/27/2017	NA	22.80	NA	NA	71.16
					10/19/2016	NA	23.70	NA	NA	70.26
					5/18/2016	NA	21.76	NA	NA	72.20
					11/3/2015	NA	21.81	NA	NA	72.15
					5/28/2015	NA	24.00	NA	NA	69.96
					11/13/2014	NA	24.56	NA	NA	69.40
					4/3/2014	NA	23.33	NA	NA	70.63

Table 1

Facility Name: Handy Pantry #65 / University Mart & Clouds Chevron | UST Permit ID: 07584 / 07777 / 12352

Address: 2367 Taylor Street Columbia, South Carolina | CES Project Number: 7.0547

Well Construction and Historical Groundwater Elevation Summary

Monitor Well	Well Depth (ft)	Screened Interval		Top of Casing (ft)	Date Measured	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Product Elevation (ft)	Groundwater Elevation (ft)
MW-20	25	15	25	94.12	1/24/2018	NA	23.83	NA	NA	70.29
					6/27/2017	NA	21.50	NA	NA	72.62
					10/19/2016	NA	21.89	NA	NA	72.23
					5/15/2016	NA	20.41	NA	NA	73.71
					11/3/2015	NA	20.18	NA	NA	73.94
					5/28/2015	22.67	22.61	0.06	71.45	71.51
					11/13/2014	NA	23.28	NA	NA	70.84
					4/3/2014	NA	21.95	NA	NA	72.17
MW-22	30	20	30	94.25	1/24/2018	NA	23.19	NA	NA	71.06
					6/27/2017	NA	20.77	NA	NA	73.48
					10/19/2016	NA	21.16	NA	NA	73.09
					5/15/2016	NA	19.61	NA	NA	74.64
					11/3/2015	NA	19.01	NA	NA	75.24
					5/28/2015	NA	21.85	NA	NA	72.40
					11/11/2014	NA	22.68	NA	NA	71.57
					4/3/2014	NA	21.11	NA	NA	73.14
MW-23	30	20	30	94.43	1/24/2018	NA	25.35	NA	NA	69.08
					6/27/2017	NA	23.60	NA	NA	70.83
					10/19/2016	NA	23.06	NA	NA	71.37
					5/18/2016	NA	21.95	NA	NA	72.48
					11/3/2015	NA	21.95	NA	NA	72.48
					5/28/2015	NA	24.25	NA	NA	70.18
					11/13/2014	NA	24.98	NA	NA	69.45
					4/3/2014	NA	23.65	NA	NA	70.78
MW-25	25.6	Unknown		93.09	1/24/2018	NA	22.06	NA	NA	71.03
					6/26/2017	Unable to Locate				
					10/19/2016	NA	19.96	NA	NA	73.13
					5/15/2016	Unable to Locate				
					11/3/2015	NA	17.73	NA	NA	75.36
					5/28/2015	NA	20.65	NA	NA	72.44
					11/10/2014	NA	21.60	NA	NA	71.49
					4/1/2014	NA	19.71	NA	NA	73.38
MW-26	30	Unknown		95.96	1/22/2018	NA	23.22	NA	NA	72.74
					6/28/2017	NA	21.44	NA	NA	74.52
					10/19/2016	Not Sampled due to Obstruction				
					5/17/2016	NA	20.24	NA	NA	75.72
					11/3/2015	NA	21.06	NA	NA	74.90
					6/5/2015	NA	22.49	NA	NA	73.47
					11/11/2014	NA	22.95	NA	NA	73.01
					4/3/2014	NA	20.01	NA	NA	75.95
MW-27	30	15	30	91.40	1/24/2018	NA	19.71	NA	NA	71.69
					6/27/2017	NA	17.31	NA	NA	74.09
					10/19/2016	NA	17.46	NA	NA	73.94
					5/17/2016	NA	15.62	NA	NA	75.78
					11/3/2015	NA	11.21	NA	NA	80.19
					5/28/2015	NA	17.75	NA	NA	73.65
					11/13/2014	NA	18.85	NA	NA	72.55
					4/1/2014	NA	14.65	NA	NA	76.75
MW-28	30	15	30	91.46	1/24/2018	NA	20.30	NA	NA	71.16
					6/27/2017	NA	16.97	NA	NA	74.49
					10/19/2016	NA	17.53	NA	NA	73.93
					5/17/2016	NA	15.90	NA	NA	75.56
					11/3/2015	NA	13.08	NA	NA	78.38
					5/28/2015	NA	17.97	NA	NA	73.49
					11/13/2014	NA	19.75	NA	NA	71.71
					4/1/2014	NA	15.63	NA	NA	75.83
MW-29	30	15	30	91.09	1/24/2018	NA	20.45	NA	NA	70.64
					6/27/2017	NA	16.95	NA	NA	74.14
					10/19/2016	NA	17.76	NA	NA	73.33
					5/17/2016	NA	15.88	NA	NA	75.21
					11/3/2015	NA	13.19	NA	NA	77.90
					5/28/2015	17.91	17.92	0.01	73.18	73.17
					11/13/2014	NA	19.92	NA	NA	71.17
					4/1/2014	NA	15.51	NA	NA	75.58
MW-30	30	15	30	92.77	1/24/2018	NA	23.22	NA	NA	69.55
					6/27/2017	NA	20.46	NA	NA	72.31
					10/19/2016	NA	29.20	NA	NA	63.57
					5/15/2016	NA	19.27	NA	NA	73.50
					11/3/2015	NA	17.43	NA	NA	75.34
					5/28/2015	NA	26.70	NA	NA	66.07
					11/10/2014	NA	22.90	NA	NA	69.87
					4/1/2014	NA	20.50	NA	NA	72.27

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Facility Name: Handy Pantry #65 / University Mart & Clouds Chevron — UST Permit ID: 07584 / 07777 / 12352

Address: 2367 Taylor Street Columbia, South Carolina — CES Project Number: 7.0547

Well Construction and Historical Groundwater Elevation Summary

Monitor Well	Well Depth (ft)	Screened Interval		Top of Casing (ft)	Date Measured	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Product Elevation (ft)	Groundwater Elevation (ft)
MW-31	35	20	35	95.20	1/23/2018	NA	26.61	NA	NA	68.59
					6/27/2017	NA	24.12	NA	NA	71.08
					10/19/2016	NA	24.41	NA	NA	70.79
					5/17/2016	NA	22.98	NA	NA	72.22
					11/3/2015	NA	22.53	NA	NA	72.67
					5/28/2015	25.61	25.62	0.01	69.59	69.58
					11/12/2014	NA	26.36	NA	NA	68.84
					4/2/2014	NA	24.41	NA	NA	70.79
MW-32	30	15	30	92.87	1/24/2018	NA	23.54	NA	NA	69.33
					6/27/2017	NA	20.01	NA	NA	72.86
					10/19/2016	Not Sampled due to Obstruction				
					5/17/2016	NA	19.75	NA	NA	73.12
					11/3/2015	NA	19.12	NA	NA	73.75
					5/28/2015	NA	22.00	NA	NA	70.87
					11/12/2014	NA	23.16	NA	NA	69.71
					4/2/2014	NA	21.28	NA	NA	71.59
MW-33	35	20	35	93.84	1/23/2018	NA	25.02	NA	NA	68.82
					6/27/2017	NA	22.70	NA	NA	71.14
					10/19/2016	NA	23.00	NA	NA	70.84
					5/15/2016	NA	21.57	NA	NA	72.27
					11/3/2015	NA	21.48	NA	NA	72.36
					5/28/2015	NA	23.83	NA	NA	70.01
					11/12/2014	NA	24.65	NA	NA	69.19
					4/1/2014	NA	23.18	NA	NA	70.66
MW-34	35	20	35	94.77	1/24/2018	NA	25.84	NA	NA	68.93
					6/27/2017	NA	25.52	NA	NA	69.25
					10/19/2016	NA	23.81	NA	NA	70.96
					5/15/2016	NA	22.38	NA	NA	72.39
					11/3/2015	NA	21.52	NA	NA	73.25
					5/28/2015	NA	24.72	NA	NA	70.05
					11/12/2014	NA	25.49	NA	NA	69.28
					4/1/2014	NA	24.06	NA	NA	70.71
MW-35	35	20	35	93.71	1/24/2018	NA	24.88	NA	NA	68.83
					6/27/2017	NA	22.65	NA	NA	71.06
					10/19/2016	NA	22.89	NA	NA	70.82
					5/16/2016	NA	21.48	NA	NA	72.23
					11/3/2015	NA	21.37	NA	NA	72.34
					5/28/2015	NA	23.80	NA	NA	69.91
					11/12/2014	NA	24.66	NA	NA	69.05
					4/1/2014	NA	21.35	NA	NA	72.36
MW-36	35	20	35	93.89	1/23/2018	NA	25.02	NA	NA	68.87
					6/27/2017	NA	22.52	NA	NA	71.37
					10/19/2016	NA	22.91	NA	NA	70.98
					5/15/2016	NA	21.36	NA	NA	72.53
					11/3/2015	NA	21.36	NA	NA	72.53
					5/28/2015	NA	23.63	NA	NA	70.26
					11/12/2014	NA	24.72	NA	NA	69.17
					4/1/2014	NA	22.84	NA	NA	71.05
MW-37	35	20	35	93.78	1/23/2018	NA	25.17	NA	NA	68.61
					6/27/2017	NA	22.76	NA	NA	71.02
					10/19/2016	NA	23.04	NA	NA	70.74
					5/16/2016	NA	21.61	NA	NA	72.17
					11/3/2015	NA	21.36	NA	NA	72.42
					5/28/2015	NA	23.98	NA	NA	69.80
					11/12/2014	NA	24.87	NA	NA	68.91
					4/1/2014	NA	22.24	NA	NA	71.54
MW-38	35	20	35	95.53	1/23/2018	NA	26.42	NA	NA	69.11
					6/27/2017	NA	24.06	NA	NA	71.47
					10/19/2016	NA	24.32	NA	NA	71.21
					5/18/2016	NA	24.83	NA	NA	70.70
					11/3/2015	NA	22.89	NA	NA	72.64
					6/2/2015	NA	25.26	NA	NA	70.27
					11/12/2014	NA	26.17	NA	NA	69.36
					4/1/2014	NA	24.61	NA	NA	70.92
MW-39	35	20	35	96.19	1/23/2018	NA	27.68	NA	NA	68.51
					6/27/2017	NA	25.15	NA	NA	71.04
					10/19/2016	NA	25.37	NA	NA	70.82
					5/18/2016	NA	24.02	NA	NA	72.17
					11/3/2015	NA	23.79	NA	NA	72.40
					6/2/2015	NA	26.45	NA	NA	69.74
					11/12/2014	NA	27.36	NA	NA	68.83
					4/2/2014	NA	25.59	NA	NA	70.60

Table 1

Facility Name: Handy Pantry #65 / University Mart & Clouds Chevron — UST Permit ID: 07584 / 07777 / 12352

Address: 2367 Taylor Street Columbia, South Carolina — CES Project Number: 7.0547

Well Construction and Historical Groundwater Elevation Summary

Monitor Well	Well Depth (ft)	Screened Interval		Top of Casing (ft)	Date Measured	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Product Elevation (ft)	Groundwater Elevation (ft)
MW-40	35	20	35	95.69	1/23/2018	NA	26.88	NA	NA	68.81
					6/27/2017	NA	24.47	NA	NA	71.22
					10/19/2016	NA	25.04	NA	NA	70.65
					5/18/2016	NA	25.25	NA	NA	70.44
					11/3/2015	NA	23.43	NA	NA	72.26
					6/2/2015	NA	26.12	NA	NA	69.57
					11/12/2014	NA	27.01	NA	NA	68.68
					4/2/2014	NA	25.29	NA	NA	70.40
MW-41	35	20	35	94.85	1/23/2018	NA	27.31	NA	NA	67.54
					6/27/2017	NA	24.91	NA	NA	69.94
					10/19/2016	NA	24.45	NA	NA	70.40
					5/18/2016	NA	23.71	NA	NA	71.14
					11/3/2015	NA	22.77	NA	NA	72.08
					6/2/2015	NA	25.69	NA	NA	69.16
					11/11/2014	NA	26.99	NA	NA	67.86
					4/1/2014	NA	24.70	NA	NA	70.15
MW-42	35	20	35	95.81	1/23/2018	NA	27.42	NA	NA	68.39
					6/27/2017	NA	25.00	NA	NA	70.81
					10/19/2016	NA	25.08	NA	NA	70.73
					5/18/2016	NA	23.73	NA	NA	72.08
					11/3/2015	NA	23.46	NA	NA	72.35
					6/2/2015	NA	26.25	NA	NA	69.56
					11/12/2014	NA	27.22	NA	NA	68.59
					4/1/2014	NA	25.35	NA	NA	70.46
MW-43	40	20	40	95.15	1/23/2018	NA	25.84	NA	NA	69.31
					6/27/2017	NA	23.32	NA	NA	71.83
					10/19/2016	NA	23.70	NA	NA	71.45
					5/18/2016	NA	22.04	NA	NA	73.11
					11/3/2015	NA	22.21	NA	NA	72.94
					5/28/2015	NA	24.66	NA	NA	70.49
					11/11/2014	NA	25.61	NA	NA	69.54
					4/2/2014	NA	24.00	NA	NA	71.15
MW-44	31	16	31	94.57	1/23/2018	NA	24.42	NA	NA	70.15
					6/27/2017	NA	21.57	NA	NA	73.00
					10/19/2016	NA	22.16	NA	NA	72.41
					5/18/2016	NA	20.11	NA	NA	74.46
					11/3/2015	NA	20.33	NA	NA	74.24
					5/28/2015	NA	22.70	NA	NA	71.87
					11/11/2014	NA	24.23	NA	NA	70.34
					4/1/2014	NA	24.42	NA	NA	70.15
MW-45	30	15	30	92.51	1/23/2018	NA	22.94	NA	NA	69.57
					6/27/2017	NA	20.56	NA	NA	71.95
					10/19/2016	NA	20.99	NA	NA	71.52
					5/18/2016	NA	19.43	NA	NA	73.08
					11/3/2015	NA	19.45	NA	NA	73.06
					5/28/2015	NA	21.75	NA	NA	70.76
					11/11/2014	NA	22.63	NA	NA	69.88
					4/1/2014	NA	21.22	NA	NA	71.29
MW-46	35	20	35	94.50	1/23/2018	NA	25.26	NA	NA	69.24
					6/27/2017	NA	22.82	NA	NA	71.68
					10/19/2016	NA	23.25	NA	NA	71.25
					5/16/2016	NA	21.70	NA	NA	72.80
					11/3/2015	NA	21.84	NA	NA	72.66
					5/28/2015	NA	24.19	NA	NA	70.31
					11/11/2014	NA	24.95	NA	NA	69.55
					4/1/2014	NA	23.55	NA	NA	70.95
MW-48	30	15	30	89.95	1/22/2018	Unable to Access - Locked Gate				
					6/26/2017	Unable to Access - Locked Gate				
					10/19/2016	Unable to Access - Locked Gate				
					5/18/2016	NA	18.21	NA	NA	71.74
					11/3/2015	Unable to Access - Locked Gate				
					5/29/2015	NA	19.63	NA	NA	70.32
					11/11/2014	Unable to Access - Locked Gate				
					4/2/2014	NA	19.70	NA	NA	70.25
MW-49	30	15	30	88.18	1/24/2018	NA	17.83	NA	NA	70.35
					6/26/2017	Unable to Access - Locked Gate				
					10/19/2016					
					5/15/2016					
					11/3/2015					
					5/29/2015					
					11/11/2014					
					4/2/2014					

Table 1

Facility Name: Handy Pantry #65 / University Mart & Clouds Chevron — UST Permit ID: 07584 / 07777 / 12352

Address: 2367 Taylor Street Columbia, South Carolina — CES Project Number: 7.0547

Well Construction and Historical Groundwater Elevation Summary

Monitor Well	Well Depth (ft)	Screened Interval		Top of Casing (ft)	Date Measured	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Product Elevation (ft)	Groundwater Elevation (ft)
MW-50	30	15	30	84.09	1/24/2018	Unable to Access - Locked Gate				
					6/26/2017					
					10/19/2016					
					5/15/2016					
					11/3/2015					
					5/29/2015					
					11/11/2014					
					4/2/2014					
MW-51	35	20	35	93.91	1/22/2018	NA	24.82	NA	NA	69.09
					6/27/2017	NA	22.51	NA	NA	71.40
					10/19/2016	NA	22.78	NA	NA	71.13
					5/18/2016	NA	20.76	NA	NA	73.15
					11/3/2015	NA	21.87	NA	NA	72.04
					5/29/2015	NA	23.72	NA	NA	70.19
					11/11/2014	NA	24.29	NA	NA	69.62
					4/2/2014	NA	21.23	NA	NA	72.68
MW-53	20	5	20	79.60	1/22/2018	NA	11.32	NA	NA	68.28
					6/27/2017	NA	9.49	NA	NA	70.11
					10/19/2016	Unable to Locate- Overgrown Field				
					5/15/2016	Unable to Locate- Overgrown Field				
					11/3/2015	NA	8.49	NA	NA	71.11
					5/28/2015	NA	10.50	NA	NA	69.10
					11/11/2014	NA	11.02	NA	NA	68.58
					4/3/2014	NA	9.60	NA	NA	70.00
MW-54	20	5	20	77.58	1/23/2018	Destroyed - Paved Over				
					6/26/2017					
					10/19/2016	NA	10.66	NA	NA	66.92
					5/18/2016	NA	10.15	NA	NA	67.43
					11/3/2015	NA	9.83	NA	NA	67.75
					5/28/2015	NA	11.27	NA	NA	66.31
					11/11/2014	Unable to Locate - Overgrown Field				
					4/1/2014	NA	11.31	NA	NA	66.27
MW-55	14	4	14	71.22	1/22/2018	NA	3.51	NA	NA	67.71
					6/27/2017	NA	2.10	NA	NA	69.12
					10/19/2016	NA	4.26	NA	NA	66.96
					5/18/2016	NA	1.55	NA	NA	69.67
					11/3/2015	NA	1.19	NA	NA	70.03
					5/28/2015	NA	3.83	NA	NA	67.39
					11/11/2014	Unable to Locate - Overgrown Field				
					4/3/2014	NA	2.51	NA	NA	68.71
MW-56	20	5	20	76.39	1/22/2018	NA	8.69	NA	NA	67.70
					6/27/2017	NA	7.20	NA	NA	69.19
					10/19/2016	NA	7.45	NA	NA	68.94
					5/18/2016	NA	6.76	NA	NA	69.63
					11/3/2015	NA	6.40	NA	NA	69.99
					5/28/2015	NA	8.22	NA	NA	68.17
					11/11/2014	Unable to Locate - Overgrown Field				
					4/3/2014	NA	5.12	NA	NA	71.27
MW-58	19	4	19	76.37	1/24/2018	Not Sampled due to Obstruction				
					6/26/2017					
					10/19/2016					
					5/18/2016					
					11/3/2015	NA	4.52	NA	NA	71.85
					5/29/2015	NA	6.85	NA	NA	69.52
					11/11/2014	Abandoned				
					4/2/2014					
MW-59	17	2	17	68.02	1/22/2018	NA	6.55	NA	NA	61.47
					6/28/2017	NA	5.65	NA	NA	62.37
					10/19/2016	NA	5.84	NA	NA	62.18
					5/18/2016	NA	5.46	NA	NA	62.56
					11/3/2015	NA	5.04	NA	NA	62.98
					5/28/2015	NA	6.46	NA	NA	61.56
					11/11/2014	NA	6.69	NA	NA	61.33
					4/2/2014	NA	6.05	NA	NA	61.97
MW-60	14	4	14	67.94	1/22/2018	Unable to Locate				
					6/26/2017					
					10/19/2016					
					5/18/2016					
					11/3/2015					
					5/28/2015					
					11/11/2014					
					4/2/2014					

Table 1

Facility Name: Handy Pantry #65 / University Mart & Clouds Chevron — UST Permit ID: 07584 / 07777 / 12352

Address: 2367 Taylor Street Columbia, South Carolina — CES Project Number: 7.0547

Well Construction and Historical Groundwater Elevation Summary

Monitor Well	Well Depth (ft)	Screened Interval		Top of Casing (ft)	Date Measured	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Product Elevation (ft)	Groundwater Elevation (ft)
MW-62	35	20	35	94.05	1/23/2018	NA	24.18	NA	NA	69.87
					6/27/2017	NA	22.44	NA	NA	71.61
					10/19/2016	NA	22.64	NA	NA	71.41
					5/18/2016	Not Sampled due to Obstruction				
					11/3/2015	22.15	22.67	0.52	71.90	71.38
					5/28/2015	22.21	23.71	1.5	71.84	70.34
					11/12/2014	NA	24.75	NA	NA	69.30
					4/1/2014	NA	22.32	NA	NA	71.73
MW-63	35	20	35	94.65	1/23/2018	NA	25.45	NA	NA	69.20
					6/27/2017	NA	22.81	NA	NA	71.84
					10/19/2016	NA	22.84	NA	NA	71.81
					5/18/2016	NA	21.66	NA	NA	72.99
					11/3/2015	NA	24.05	NA	NA	70.60
					5/28/2015	24.04	24.05	0.01	70.61	70.60
					11/12/2015	Unable to Locate				
					4/2/2014	NA	23.07	NA	NA	71.58
MW-65	35	20	35	94.04	1/22/2018	Unable to Locate - Paved over				
					6/26/2017					
					10/19/2016					
					5/15/2016					
					11/3/2015					
					5/28/2015					
					11/11/2014					
					4/2/2014					
MW-67	35	20	35	96.10	1/23/2018	NA	27.44	NA	NA	68.66
					6/27/2017	NA	25.42	NA	NA	70.68
					10/19/2016	NA	25.18	NA	NA	70.92
					5/18/2016	NA	23.73	NA	NA	72.37
					11/3/2015	NA	23.52	NA	NA	72.58
					6/2/2015	NA	26.29	NA	NA	69.81
					11/12/2014	NA	27.28	NA	NA	68.82
					4/1/2014	NA	24.44	NA	NA	71.66
MW-70	35	20	35	95.49	1/23/2018	NA	26.36	NA	NA	69.13
					6/27/2017	NA	24.51	NA	NA	70.98
					10/19/2016	NA	24.43	NA	NA	71.06
					5/18/2016	NA	23.11	NA	NA	72.38
					11/3/2015	NA	22.89	NA	NA	72.60
					5/28/2015	NA	25.60	NA	NA	69.89
					11/11/2014	NA	26.22	NA	NA	69.27
					4/2/2014	NA	24.70	NA	NA	70.79
MW-5AR	28	18	28	94.18	1/24/2018	NA	23.16	NA	NA	71.02
					6/27/2017	NA	21.61	NA	NA	72.57
					10/19/2016	NA	21.04	NA	NA	73.14
					5/15/2016	NA	19.59	NA	NA	74.59
					11/3/2015	NA	16.39	NA	NA	77.79
					5/28/2015	NA	20.91	NA	NA	73.27
					11/13/2014	NA	22.64	NA	NA	71.54
					4/1/2014	NA	21.24	NA	NA	72.94
PW-1R	50	45	50	93.75	1/24/2018	NA	24.43	NA	NA	69.32
					6/28/2017	NA	22.16	NA	NA	71.59
					10/19/2016	NA	22.36	NA	NA	71.39
					5/18/2016	NA	21.03	NA	NA	72.72
					11/3/2015	NA	21.43	NA	NA	72.32
					5/29/2015	23.19	23.20	0.01	70.56	70.55
					11/13/2014	NA	23.92	NA	NA	69.83
					4/3/2014	NA	23.11	NA	NA	70.64
DW-1	70	65	70	94.66	1/22/2018	NA	43.95	NA	NA	50.71
					6/28/2017	NA	42.91	NA	NA	51.75
					10/19/2016	NA	42.32	NA	NA	52.34
					5/16/2016	NA	42.71	NA	NA	51.95
					11/3/2015	NA	46.28	NA	NA	48.38
					5/29/2015	NA	46.28	NA	NA	48.38
					11/10/2014	NA	45.42	NA	NA	49.24
					4/2/2014	NA	45.00	NA	NA	49.66
DW-2	75	70	75	94.02	1/22/2018	NA	43.23	NA	NA	50.79
					6/28/2017	NA	42.21	NA	NA	51.81
					10/19/2016	NA	43.05	NA	NA	50.97
					5/16/2016	NA	41.99	NA	NA	52.03
					11/3/2015	NA	43.07	NA	NA	50.95
					11/11/2014	NA	44.88	NA	NA	49.14
					4/2/2014	NA	44.34	NA	NA	49.68

Table 1

Facility Name: Handy Pantry #65 / University Mart & Clouds Chevron — UST Permit ID: 07584 / 07777 / 12352

Address: 2367 Taylor Street Columbia, South Carolina — CES Project Number: 7.0547

Well Construction and Historical Groundwater Elevation Summary

Monitor Well	Well Depth (ft)	Screened Interval		Top of Casing (ft)	Date Measured	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Product Elevation (ft)	Groundwater Elevation (ft)
DW-3	52	47	52	93.75	1/24/2018	NA	25.11	NA	NA	68.64
					6/28/2017	NA	22.85	NA	NA	70.90
					10/19/2016	NA	23.07	NA	NA	70.68
					5/18/2016	NA	21.70	NA	NA	72.05
					11/3/2015	NA	21.29	NA	NA	72.46
					5/28/2015	NA	23.93	NA	NA	69.82
					11/13/2014	NA	24.42	NA	NA	69.33
					4/3/2014	NA	24.40	NA	NA	69.35
DW-4	110	105	110	93.79	1/24/2018	NA	43.33	NA	NA	50.46
					6/28/2017	NA	38.96	NA	NA	54.83
					10/19/2016	NA	42.79	NA	NA	51.00
					5/18/2016	NA	42.31	NA	NA	51.48
					11/3/2015	NA	43.34	NA	NA	50.45
					5/28/2015	NA	44.51	NA	NA	49.28
					11/13/2014	NA	3.45	NA	NA	90.34
					4/3/2014	NA	44.60	NA	NA	49.19
DW-5	70	65	70	93.74	1/24/2018	NA	43.46	NA	NA	50.28
					6/28/2017	NA	42.34	NA	NA	51.40
					10/19/2016	NA	42.51	NA	NA	51.23
					5/16/2016	NA	42.12	NA	NA	51.62
					11/3/2015	NA	42.89	NA	NA	50.85
					5/28/2015	NA	44.45	NA	NA	49.29
					11/12/2014	NA	44.75	NA	NA	48.99
					4/1/2014	NA	44.22	NA	NA	49.52
DW-6	70	65	70	95.90	1/23/2018	NA	45.51	NA	NA	50.39
					6/28/2017	NA	44.31	NA	NA	51.59
					10/19/2016	NA	44.54	NA	NA	51.36
					5/18/2016	NA	44.10	NA	NA	51.80
					11/3/2015	NA	44.59	NA	NA	51.31
					6/2/2015	NA	46.16	NA	NA	49.74
					11/12/2014	NA	46.64	NA	NA	49.26
					4/1/2014	NA	45.86	NA	NA	50.04
DW-7	55	50	55	72.79	1/24/2018	Destroyed - Paved Over				
					6/26/2017					
					10/19/2016	NA	22.24	NA	NA	50.55
					5/18/2016	NA	21.82	NA	NA	50.97
					11/3/2015	NA	22.97	NA	NA	49.82
					5/28/2015	NA	24.32	NA	NA	48.47
					11/11/2014	NA	24.75	NA	NA	48.04
					4/3/2014	NA	24.00	NA	NA	48.79
DW-8	55	50	55	68.63	1/24/2018	Not Sampled due to Obstruction				
					6/26/2017					
					10/19/2016					
					5/18/2016					
					11/3/2015	NA	19.43	NA	NA	49.20
					5/29/2015	NA	5.37	NA	NA	63.26
					11/11/2014	Abandoned				
					4/2/2014					
DW-9	65	60	65	76.47	1/22/2018	NA	23.73	NA	NA	52.74
					6/28/2017	NA	22.73	NA	NA	53.74
					10/19/2016	NA	22.87	NA	NA	53.60
					5/18/2016	NA	22.42	NA	NA	54.05
					11/3/2015	NA	23.62	NA	NA	52.85
					5/28/2015	NA	24.90	NA	NA	51.57
					11/11/2014	NA	24.44	NA	NA	52.03
					4/2/2014	NA	25.00	NA	NA	51.47

INA = Information not available

* = GW Elevation Corrected for The Presence of Free Product

n/a = not applicable

CRAWFORD ENVIRONMENTAL SERVICES

Table 2

Facility Name: Handy Pantry #65 / University Mart & Clouds Chevron | UST | 07584 / 07777 / 12352

Address: 2367 Taylor Street Columbia, South Carolina | Crawford Project No. | 7.0547

Groundwater Laboratory Analytical Result Summary

Well ID:	Date:	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphthalene	TAA	TAME	TBA
MW-1	4/2/2014	Dry								
	11/11/2014									
	5/29/2015									
	11/3/2015									
	5/15/2016									
	10/16/2016									
	6/26/2017									
	1/22/2018									
MW-2	4/2/2014	170	41	200	960	320	150	230	1	6.8
	11/4/2014	140	300	220	1300	410	160	210	<10	<100
	5/29/2015	0.01-Feet of Free Product								
	11/4/2015	0.61	0.48	1.4	5.5	<1	2.6	<100	<10	<100
	5/16/2016	11	0.83 J	0.98 J	49	18	12	<100	<10	<100
	10/21/2016	34	4.9	23	60	56	18	68 J	<10	47 J
	6/27/2017	190	5.6	140	640	370	140	190	14	<100
	1/22/2018	450	10	270	960	520	190	430	23	<100
MW-3	4/2/2014	6900	18000	1200	16000	1800	600	980	560.000	340
	11/12/2014	4600	11000	620	8700	1300	280	<5000	310.000	<5000
	5/29/2015	0.09-Feet of Free Product								
	11/4/2015	3000	8700	600	7200	720	360	<2000	140	<2000
	5/16/2016	7800	22000	1800	21000	2500	870	<5000	410 J	<5000
	10/21/2016	480	1000	76	2100	67	61	210	29	330
	6/27/2017	3900	13000	1100	10000	370	560	<1000	210	<1000
	1/22/2018	8400	29000	2400	29000	1500	740	<1000	370 J	<10000
MW-4	4/2/2014	<1	<1	<1	<1	3.5	<5	<100	10.000	<100
	11/11/2014	<1	<1	<1	<1	1.6	<5	<100	<10	<100
	5/29/2015	<1	<1	<1	<1	1.9	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	1.9	<5	<100	<10	<100
	5/16/2016	<1	<1	<1	<1	0.87 J	<5	<100	<10	<100
	10/21/2016	<1	<1	<1	<1	1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	0.73 J	<5	<100	<10	<100
	1/22/2018	<1	<1	<1	<1	2.2	<5	<100	<10	<100
MW-5	4/2/2014	Dry								
	11/11/2014									
	5/29/2015									
	11/3/2015									
	5/16/2016	0.29 J	<1	<1	<1	<1	<5	<100	<10	<100
	10/19/2016	Dry								
	6/26/2017	Dry								
	1/22/2018	Dry								
MW-6	4/3/2014	2.6	<1	2.4	10	2.5	4.2	<100	<10	<100
	11/11/2014	<1	<1	<1	<1	0.8	<5	<100	<10	<100
	5/29/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/17/2016	<1	<1	<1	<1	1.7	<5	<100	<10	<100
	10/21/2016	<1	<1	<1	<1	<1	1.9 J	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	1.9	<5	<100	<10	<100
	1/22/2018	<1	<1	<1	<1	13	<5	<100	<10	<100
MW-7	4/3/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/11/2014	0.71	<1	<1	<1	<1	<5	<100	<10	<100
	5/29/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/16/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/21/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	1.3 J	<100	<10	<100
	1/22/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-8	4/3/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/11/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/29/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/17/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/21/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/22/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100

Table 2

Facility Name: Handy Pantry #65 / University Mart & Clouds Chevron — UST — 07584 / 07777 / 12352

Address: 2367 Taylor Street Columbia, South Carolina — Crawford Project No. — 7.0547

Groundwater Laboratory Analytical Result Summary

Well ID:	Date:	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphthalene	TAA	TAME	TBA
MW-9	4/2/2014	830	7500	1700	14000	50	590	1700	5000	5000
	11/11/2014	380	11000	1900	13000	5	650	1100	<10	<100
	5/28/2015	250	5700	1200	8200	<50	480	<5000	<500	<5000
	11/4/2015	520	6200	1100	8600	<50	470	3000	<500	<5000
	5/16/2016	78	1900	1000	4300	<1	440	200	<10	<100
	10/21/2016	60	1500	730	3800	<1	210	550	<10	<100
	6/26/2017	Unable to Locate								
	1/22/2018	150	5400	1700	13000	<50	680	<5000	<500	<5000
MW-10	4/1/2014	1800	5700	350	8500	50	690	5000	500	5000
	11/11/2014	1.25-Feet of Free Product								
	5/28/2015	66	76	67	860	<1	370	<100	<10	<100
	11/4/2015	10	18	4.5	120	<1	46	<100	<10	<100
	5/18/2016	88	11	22	97	<1	170	<100	<10	<100
	10/21/2016	27	7.1	11	93	<1	47	<100	<10	<100
	6/28/2017	27	3.3	17	59	<1	120	<100	<10	<100
	1/22/2018	40	15	94	690	<1	120	42 J	<10	<100
MW-11	4/2/2014	2.3	4.1	11	4.1	<1	4.4	120	<10	<100
	11/11/2014	0.53	<1	<1	<1	<1	<5	80	<10	58
	5/29/2015	0.51	<1	<1	3.8	<1	6.6	50	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/21/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/24/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-12	4/2/2014	2.9	0.67	1.6	0.91	18	4.7	630	9	<100
	11/11/2014	990	19	910	140	21	180	3600	14	<100
	5/28/2015	53	2.7	430	14	22	44	2300	<10	<100
	11/4/2015	110	2	53	25	<1	10	1800	8	<100
	5/18/2016	260	83	710	330	17	190	1300	<10	<100
	10/20/2016	180	18	420	300	13	110	4000	<10	<100
	6/26/2017	Destroyed - Paved Over								
	1/23/2018	Destroyed - Paved Over								
MW-13	4/1/2014	0.62	8.8	4.5	86	<1	31	10	<10	<100
	11/11/2014	<1	<1	<	<1	<1	<5	<100	<10	<100
	5/28/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<1	<100	<10	<100
	5/16/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/20/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/26/2017	Destroyed - Paved Over								
	1/23/2018	Destroyed - Paved Over								
MW-15	4/1/2014	0.60-Feet of Free Product								
	11/11/2014	0.25-Feet of Free Product								
	5/29/2015	0.16-Feet of Free Product								
	11/3/2015	0.14-Feet of Free Product								
	5/15/2016	0.44-Feet of Free Product								
	10/19/2016	0.60-Feet of Free Product								
	6/28/2017	<1	300	320	7,500	<1	880	<100	<10	<100
	1/22/2018	0.74 J	490	250	6500	<1	<100	<100	<10	<100
MW-16	4/2/2014	<1	<1	<1	<1	<1	3.4	<100	<10	<100
	11/12/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/29/2015	Unable to Locate								
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/20/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/22/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-17	4/2/2014	280	5100	450	13000	50	850	2200	500	5000
	11/12/2014	32	3000	450	8300	<10	690	270	<100	<1000
	5/28/2015	210	7500	480	12000	<50	830	2200	<500	<5000
	11/4/2015	280	10000	660	13000	<100	720	<10000	<1000	<10000
	5/15/2016	Not Sampled due to Obstruction								
	10/20/2016	<100	5500	510	11000	<100	560	<10000	<1000	<10000
	6/27/2017	10	5.8	190	26	<1	190	<100	<10	<100
	1/22/2018	35	13	430	150	<1	440	70 J	<10	<100

Table 2

Facility Name: Handy Pantry #65 / University Mart & Clouds Chevron — UST — 07584 / 07777 / 12352

Address: 2367 Taylor Street Columbia, South Carolina — Crawford Project No. — 7.0547

Groundwater Laboratory Analytical Result Summary

Well ID:	Date:	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphthalene	TAA	TAME	TBA
MW-18	4/2/2014	1900	7200	630	8300	340	370	4900	70	5000
	11/12/2014	3100	11000	560	8700	510	290	12000	<1000	<10000
	5/28/2015	970	2500	180	4100	230	180	3000	33	<100
	11/3/2015	990	5800	600	8900	93	260	<10000	<1000	<10000
	5/15/2016	260	1900	220	4900	20	220	690	<10	<100
	10/20/2016	510	2400	230	3700	68	120	5500	48	1100
	6/27/2017	310	1800	300	4100	6.3	140	190	<10	<100
	1/24/2018	1800	11000	1400	12000	49	560	3300	<200	<2000
MW-19	4/3/2014	300	1800	490	12000	50	900	610	500	5000
	11/13/2014	1400	2800	1600	24000	<50	1400	1300	<50	<5000
	5/28/2015	2100	17000	330	16000	<50	1200	6200	<500	<5000
	11/3/2015	2900	19000	720	17000	<100	1100	5400	<1000	<10000
	5/18/2016	2900	19000	1100	22000	200	1400	4300 J	<500	<5000
	10/21/2016	2500	18000	1200	19000	<500	1200 J	<50000	<5000	<50000
	6/27/2017	3200	21000	1100	20000	130	950	6700 J	<1000	<10000
	1/24/2018	3100	23000	1100	17000	<500	770 J	<50000	<5000	<50000
MW-20	4/3/2014	1800	11000	460	11000	50	960	3100	65	5000
	11/13/2014	1400	12000	500	14000	120	1100	<10000	<1000	<10000
	5/29/2015	0.06-Feet of Free Product								
	11/3/2015	930	11000	1000	17000	<50	1400	<5000	<500	<5000
	5/15/2016	690	10000	2100	23000	<50	1600	<5000	<500	<5000
	10/21/2016	490	7000	1600	20000	<50	1200	4200 J	<500	<5000
	6/27/2017	390	10000	2000	26000	<50	1500	2500 J	<500	<5000
MW-22	4/3/2014	5700	12000	880	23000	50	990	3600	500	5000
	11/11/2014	6300	23000	700	21000	<20	1200	9600	<20	<140
	6/5/2015	4800	16000	760	26000	<100	840	<10000	<1000	<10000
	11/3/2015	6400	20000	740	24000	<100	1000	3900	<1000	<10000
	5/15/2016	1900	11000	1500	28000	<50	1400	<5000	<500	<5000
	10/21/2016	3400	20000	1600	20000	<500	720 J	<50000	<5000	<50000
	6/27/2017	2100	13000	1100	15000	<500	<2500	<50000	<5000	<50000
	1/24/2018	2500	18000	1600	29000	<100	850	2900 J	<1000	<10000
MW-23	4/3/2014	4200	16000	880	19000	120	1100	5900	500.000	5000
	11/13/2014	890	3600	450	16000	<50	1200	1500	<50	<340
	5/28/2015	570	1500	89	8300	<50	660	<5000	<500	<5000
	11/3/2015	2.9	8.5	1.5	190	<1	52	<100	<10	<100
	5/18/2016	280	990	110	4200	7.3	470	520	<10	<100
	10/21/2016	600	1900	130	4600	18	390	4000	<10	<100
	6/27/2017	400	1500	120	3800	6.3	370	1000	<10	<100
	1/24/2018	1100	4700	300	8500	11	1200	2700	11	<100
MW-25	4/1/2014	5.5	200	320	4400	<1	1300	170	<10	<100
	11/10/2014	38	140	200	2600	1.9	490	2800	<10	<100
	5/28/2015	29	140	190	3000	<1	560	430	<10	<100
	11/3/2015	14	150	200	2600	<1	340	390	<10	<100
	5/15/2016	Unable to Locate								
	10/19/2016	8.8	120	230	3400	<1	450	<100	<10	<100
	6/26/2017	Unable to Locate								
	1/24/2018	10	200	270	4700	<1	520	680	<10	<100
MW-26	4/3/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/11/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/2/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/17/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/19/2016	Not Sampled due to Obstruction								
	6/28/2017	<1	<1	<1	<1	<1	1.1 J	<100	<10	<100
	1/22/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-27	4/1/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/13/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/28/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/3/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/17/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/19/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/24/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100

Table 2

Facility Name: Handy Pantry #65 / University Mart & Clouds Chevron — UST — 07584 / 07777 / 12352

Address: 2367 Taylor Street Columbia, South Carolina — Crawford Project No. — 7.0547

Groundwater Laboratory Analytical Result Summary

Well ID:	Date:	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphthalene	TAA	TAME	TBA
MW-28	4/1/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/13/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/28/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/3/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/17/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/19/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/24/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-29	4/1/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/13/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/29/2015	0.01-Feet of Free Product								
	11/3/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/17/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/19/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/24/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-30	4/1/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/10/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/28/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/3/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/15/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/19/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/24/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-31	4/2/2014	0.9	<1	<1	<1	2.7	<5	59	<10	<100
	11/12/2014	30	9.8	310	9.3	4.1	160	460	<10	<100
	5/29/2015	0.01-Feet of Free Product								
	11/3/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/17/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/20/2016	7.9	<1	6.1	<1	<1	130	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/23/2018	8.5	<1	6.9	<1	<1	130	130	<10	<100
MW-32	4/2/2014	0.94	<1	1.9	2.4	<1	6.6	170	<10	<100
	11/12/2014	4	13	72	10	<1	45	<100	<10	<100
	5/28/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/3/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/17/2016	<1	<1	<1	<1	<1	2.8 J	<100	<10	<100
	10/19/2016	Not Sampled due to Obstruction								
	6/27/2017	<1	<1	<1	<1	<1	1.4 J	<100	<10	<100
	1/24/2018	2.5	0.41 J	1.9	1.2	<1	28	<100	<10	<100
MW-33	4/1/2014	560	5200	2500	6900	50	670	4100	500.000	5000
	11/12/2014	130	410	210	550	1.2	71	1000	<10	<100
	5/28/2015	<1	<1	<1	<1	<1	<5	29	<10	<100
	11/3/2015	240	7500	1600	11000	<50	430	<5000	<500	<5000
	5/15/2016	260	3200	1400	4700	4.3	390	210	<10	<100
	10/19/2016	120	620	480	1700	<1	95	980	<10	<100
	6/27/2017	80	250	100	1400	<1	210	860	<10	<100
	1/23/2018	310	4100	2100	11000	<1	940	3600	<10	<100
MW-34	4/1/2014	<1	<1	<1	<1	<1	<5	39	<10	<100
	11/12/2014	<1	<1	<1	<1	<1	<5	39	<10	<100
	5/28/2015	<1	1.1	<1	<1	<1	<5	<100	<10	<100
	11/3/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/15/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/19/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/24/2018	<1	<1	0.26 J	<1	<1	<5	<100	<10	<100
MW-35	4/1/2014	3700	4300	2000	6200	160	550	5600	54	5000
	11/12/2014	6000	7200	2800	7400	330	700	4700	76	<100
	5/28/2015	3300	5100	1500	4700	<50	640	4400	<500	<5000
	11/3/2015	1900	2200	1100	3300	84	530	2300	28	<100
	5/16/2016	130	130	23	490	4.6	46	120	<10	<100
	10/20/2016	2200	3300	1300	4100	64	360	5800	63	<100
	6/27/2017	3100	3800	2400	4700	56	780	3000	29	<100
	1/24/2018	3600	6300	2900	6600	62	850	4100	<200	<2000

Table 2

Facility Name: Handy Pantry #65 / University Mart & Clouds Chevron — UST — 07584 / 07777 / 12352

Address: 2367 Taylor Street Columbia, South Carolina — Crawford Project No. — 7.0547

Groundwater Laboratory Analytical Result Summary

Well ID:	Date:	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphthalene	TAA	TAME	TBA
MW-36	4/1/2014	5.1	<1	38	<1	<1	55	96	<10	<100
	11/12/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/28/2015	<1	1.3	<1	2.3	<1	<5	<100	<10	<100
	11/3/2015	0.74	<1	1.6	<1	<1	16	<100	<10	<100
	5/15/2016	1	<1	14	0.47 J	<1	54	<100	<10	<100
	10/19/2016	1.8	<1	25	<1	<1	14	<100	<10	<100
	6/27/2017	1	<1	<1	<1	<1	47	<100	<10	<100
	1/23/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-37	4/1/2014	<1	<1	<1	<1	<1	3.7	<100	<10	<100
	11/12/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/28/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/3/2015	3.5	<1	<1	5.4	<1	5.5	77	<10	<100
	5/16/2016	<1	<1	<1	<1	<1	0.95 J	<100	<10	<100
	10/20/2016	<1	<1	<1	<1	<1	1.0 J	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/23/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-38	4/1/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/12/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/2/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/3/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/16/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/20/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/23/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-39	4/2/2014	<1	3.2	2.2	14	<1	3.3	<100	<10	<100
	11/12/2014	11	1500	1000	3700	<1	340	220	<10	<100
	6/2/2015	1.3	160	140	1100	<1	160	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/16/2016	<1	1.2	1.9	4.9	<1	<5	<100	<10	<100
	10/20/2016	1.5	390	780	2300	<1	320	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/23/2018	0.48 J	220	480	2000	<1	370	56 J	<10	<100
MW-40	4/2/2014	5.8	14	2	580	<1	24	<100	<10	<100
	11/12/2014	140	970	300	2900	12	150	600	<10	<100
	6/2/2015	5.2	47	3.9	590	<1	38	<100	<10	<100
	11/4/2015	0.51	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	<1	<1	1.4	<1	<1	<5	<100	<10	<100
	10/20/2016	<1	<1	1.4	<1	<1	<5	<100	<10	<100
	6/27/2017	22	5.1	600	98	<1	480	<100	<10	<100
	1/23/2018	1.5	<1	9.8	<1	<1	6.1	<100	<10	<100
MW-41	4/1/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/11/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/2/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/20/2016	26	3.2	510	15	<1	340	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/23/2018	10	330	210	680	<1	110	65 J	<10	<100
MW-42	4/1/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/12/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/2/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	<1	<1	0.31 J	<1	<1	<5	<100	<10	<100
	10/20/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	3.8	5.4	<1	4.9	<100	<10	<100
	1/23/2018	<1	0.41 J	57	48	<1	64	<100	<10	<100
MW-43	4/2/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/11/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/28/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/20/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/23/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100

Table 2

Facility Name: Handy Pantry #65 / University Mart & Clouds Chevron — UST — 07584 / 07777 / 12352
Address: 2367 Taylor Street Columbia, South Carolina — Crawford Project No. — 7.0547

Groundwater Laboratory Analytical Result Summary

Well ID:	Date:	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphthalene	TAA	TAME	TBA
MW-44	4/1/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/11/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/28/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/20/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/23/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-45	4/1/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/11/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/28/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/20/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/23/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-46	4/1/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/11/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/28/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/16/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/20/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/23/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-48	4/2/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/11/2014	Unable to Access - Locked Gate								
	5/29/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/3/2015	Unable to Access - Locked Gate								
	5/18/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/25/2016	Unable to Access - Locked Gate								
	6/26/2017	Unable to Access - Locked Gate								
	1/22/2018	Unable to Access - Locked Gate								
MW-49	4/2/2014	Unable to Access - Locked Gate								
	11/11/2014									
	5/29/2015									
	11/3/2015									
	5/15/2016									
	10/19/2016									
	6/26/2017									
	1/24/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-50	4/2/2014	Unable to Access - Locked Gate								
	11/11/2014									
	5/29/2015									
	11/3/2015									
	5/15/2016									
	10/19/2016									
	6/26/2017									
	1/24/2018									
MW-51	4/2/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/11/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/29/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/20/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/24/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-53	4/3/2014	<1	<1	<1	<1	<1	4.1	<100	<10	<100
	11/11/2014	<1	<1	<1	<1	<1	4.1	<100	<10	<100
	5/28/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/15/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/21/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/22/2018	<1	<1	0.36 J	<1	<1	<5	<100	<10	<100

Table 2

Facility Name: Handy Pantry #65 / University Mart & Clouds Chevron — UST — 07584 / 07777 / 12352

Address: 2367 Taylor Street Columbia, South Carolina — Crawford Project No. — 7.0547

Groundwater Laboratory Analytical Result Summary

Well ID:	Date:	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphthalene	TAA	TAME	TBA
MW-54	4/1/2014	<1	<1	<1	<1	9.6	<5	<100	6.700	<100
	11/11/2014	Unable to Locate								
	5/28/2015	<1	<1	<1	<1	6.4	<5	140	<10	<100
	11/4/2015	<1	<1	<1	<1	1.5	<5	<100	<10	<100
	5/18/2016	0.60 J	<1	<1	<1	5.0	<5	60 J	<10	<100
	10/20/2016	<1	<1	<1	<1	2.0	<5	130	<10	<100
	6/26/2017	Destroyed - Paved Over								
	1/23/2018	Destroyed - Paved Over								
MW-55	4/3/2014	10	1	3.5	<1	24	3.9	98	6.400	<100
	11/11/2014	Unable to Locate								
	5/28/2015	1000	40	410	260	190	180	1700	15	<100
	11/4/2015	640	64	200	230	160	120	1200	11	56
	5/18/2016	950	44	320	210	220	130	2600	15	<100
	10/21/2016	1500	310	860	1100	210	240	6000	43	370
	6/27/2017	200	2.9	53	20	100	50	2000	15	<100
	1/22/2018	720	100	710	880	130	300	2800	11	<100
MW-56	4/3/2014	<1	<1	<1	<1	<1	<5	50	<10	<100
	11/11/2014	Unable to Locate								
	5/28/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/21/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/22/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-58	4/2/2014	Abandoned								
	11/11/2014									
	5/29/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/15/2016	Not Sampled due to Obstruction								
	10/19/2016									
	6/27/2017									
	1/24/2018									
MW-59	4/2/2014	28	2.8	300	6.4	130	45	2600	42	160
	11/11/2014	81	3.6	730	14	91	96	4500	27	<100
	5/28/2015	1400	23	1100	620	89	290	3900	34	<100
	11/4/2015	1300	48	440	850	58	250	2800	19	<100
	5/18/2016	1900	51	950	760	96	260	4300	28	<100
	10/20/2016	2400	61	1400	2300	62	390	10000	63	300
	6/28/2017	2400	77	2000	3400	43	490	3600	32	<100
	1/22/2018	2500	130	1800	3100	35	530	4700	21	<100
MW-60	4/2/2014	Unable to Locate								
	11/11/2014									
	5/29/2015									
	11/3/2015									
	5/15/2016									
	10/19/2016									
	6/26/2017									
	1/22/2018									
MW-62	4/1/2014	0.86	<1	<1	<1	3	3.3	260	<10	<100
	11/12/2014	51	<1	<1	0.93	2.6	65	730	<10	<100
	5/29/2015	1.50-Feet of Free Product								
	12/17/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/15/2016	Not Sampled due to Obstruction								
	10/19/2016	Not Sampled due to Obstruction								
	6/27/2017	1.6	<1	<1	<1	0.69 J	2.4 J	93 J	<10	<100
	1/23/2018	33	<1	<1	<1	2.4	46	770	<10	<100
MW-63	4/2/2014	<1	<1	<1	<1	<1	5	120	<10	<100
	11/12/2014	Unable to Locate								
	5/29/2015	0.01-Feet of Free Product								
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/20/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/23/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100

Table 2

Facility Name: Handy Pantry #65 / University Mart & Clouds Chevron — UST — 07584 / 07777 / 12352

Address: 2367 Taylor Street Columbia, South Carolina — Crawford Project No. — 7.0547

Groundwater Laboratory Analytical Result Summary

Well ID:	Date:	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphthalene	TAA	TAME	TBA
MW-65	4/2/2014	Unable to Locate - Paved over								
	11/11/2014									
	5/29/2015									
	11/3/2015									
	5/15/2016									
	10/19/2016									
	6/26/2017									
	1/22/2018									
MW-67	4/1/2014	<1	<1	<1	<1	<1	5	<100	<10	<100
	11/12/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/2/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/20/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/23/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-70	4/2/2014	<1	<1	<1	<1	<1	5	<100	<10	<100
	11/11/2014	<1	<1	<1	<1	<1	1.5	<100	<10	<100
	5/28/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	<1	<1	<1	0.44 J	<1	<5	<100	<10	<100
	10/20/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/23/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-5AR	4/1/2014	12000	13000	2400	13000	70	1000	<5000	160.000	<5000
	11/13/2014	830	180	98	670	13	130	<100	13.000	<100
	5/28/2015	2500	1200	280	1300	43	460	650	52.000	<100
	11/3/2015	5200	10000	810	5300	<100	580	<10000	<1000	<10000
	5/15/2016	7000	6400	1200	8000	<100	890	<10000	<1000	<10000
	10/21/2016	6300	3000	1100	7200	<50	1100	<5000	<500	<5000
	6/27/2017	1900	92	330	1400	2.3	390	220	13	<100
	1/24/2018	7000	320	960	2700	19	1100	2700	49	<100
PW-1R	4/3/2014	460	3400	320	9200	<50	<250	710	<500	<5000
	11/13/2014	850	6900	580	18000	<50	1300	<5000	<500	<5000
	5/29/2015	0.01-Feet of Free Product								
	11/3/2015	830	20000	1200	14000	<500	600	<50000	<5000	<50000
	5/18/2016	210	1200	170	3200	6.8	200	380	<10	<100
	10/21/2016	410	5900	440	7200	<20	320	1900 J	<200	<2000
	6/28/2017	380	7900	510	9100	<50	320	<5000	<500	<5000
	1/24/2018	370	4300	480	13000	<100	340 J	<10000	<1000	<10000
DW-1	4/2/2014	0.45	1.2	1.7	7.2	<1.0	<5.0	<100	<10	<100
	11/10/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/29/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/16/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/21/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/28/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/22/2018	<1	<1	<1	<1	<1	1.4 J	<100	<10	<100
DW-2	4/2/2014	<1.0	<1.0	<1.0	<1.0	7.1	4.1	<100	<10	<100
	11/11/2014	<1	<1	<1	<1	10	<5	<100	<10	<100
	5/29/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	8.7	<5	<100	<10	<100
	5/16/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/21/2016	<1	<1	<1	<1	2.9	<5	<100	<10	<100
	6/28/2017	<1	<1	<1	<1	2.4	<5	<100	<10	<100
	1/22/2018	<1	<1	<1	<1	3.7	<5	<100	<10	<100
DW-3	4/3/2014	9800	22000	3700	17000	990	780	10000	190	<5000
	11/13/2014	2000	20000	2800	10000	23	650	2700	<20	<140
	5/28/2015	310	4000	79	3100	6.5	130	750	<10	<100
	11/3/2015	4300	16000	2300	11000	230	800	2600	50	<2000
	5/18/2016	2600	10000	1400	8200	160	410	<5000	<500	<5000
	10/21/2016	4200	8300	1800	5200	240	450 J	8200 J	<1000	<10000
	6/28/2017	3400	8600	1600	5200	120	310	3400 J	370 J	<5000
	1/24/2018	700	960	210	410	44	68	790	10	<100

Table 2

Facility Name: Handy Pantry #65 / University Mart & Clouds Chevron | UST | 07584 / 07777 / 12352

Address: 2367 Taylor Street Columbia, South Carolina | Crawford Project No. | 7.0547

Groundwater Laboratory Analytical Result Summary

Well ID:	Date:	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphthalene	TAA	TAME	TBA
DW-4	4/3/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/13/2014	<1	1	<1	<1	<1	<5	<100	<10	<100
	6/2/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/3/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/21/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/28/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/24/2018	5.6	1.4	<1	<1	<1	<5	<100	<10	<100
DW-5	4/1/2014	3300	68	37	1000	940	81	4300	83	<100
	11/12/2014	6700	380	240	3100	1400	190	5300	110	<100
	5/28/2015	6900	660	420	3800	1200	290	6300	<500	<5000
	11/4/2015	5900	490	200	1800	1100	170	4800	89	<100
	5/16/2016	9200	1600	750	5300	1400	470	4300	95 J	<100
	10/25/2016	5700	1200	460	2800	1000	200 J	17000	<1000	<10000
	6/28/2017	5200	1400	380	2400	890	130 J	7200	390 J	<5000
	1/24/2018	9400	3300	970	5300	1000	340	10000	<500	<5000
DW-6	4/1/2014	8.5	1.2	1.6	7.2	3	5	<100	<10	<100
	11/12/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/2/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/25/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/28/2017	<1	<1	0.37 J	<1	<1	<5	<100	<10	<100
	1/23/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100
DW-7	4/3/2014	0.52	0.46	<1.0	1.4	2.6	4.2	<100	<10	<100
	11/11/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/28/2015	<1	<1	<1	<1	1.2	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/21/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/26/2017	Destroyed - Paved Over								
	1/24/2017	Destroyed - Paved Over								
DW-8	4/2/2014	Abandoned								
	11/11/2014									
	5/29/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	Not Sampled due to Obstruction								
	10/21/2016	Not Sampled due to Obstruction								
	6/26/2017	Not Sampled due to Obstruction								
	1/24/2018	Not Sampled due to Obstruction								
DW-9	4/2/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/11/2014	<1	2.8	<1	<1	<1	<5	<100	<10	<100
	5/28/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	<1	42	<1	<1	<1	<5	<100	<10	<100
	10/21/2016	<1	<1	<1	<1	3.1	<5	<100	<10	<100
	6/28/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/22/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100
SW-1	4/2/2014	180	8.4	30	53	42	6.5	350	9.500	100
	11/12/2014	Unable to Access - Overgrown Brush								
	5/28/2015	230	18	89	160	30	24	590	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	44	<10	<100
	5/18/2016	130	18	53	92	12	16	430	<10	<100
	10/19/2016	Unable to Access - Overgrown Brush								
QUALITY CONTROL DATA										
MW-15 (Dup 1)	1/22/2018	0.76 J	480	220	6400	<1	720	120	<10	<100
MW-41 (Dup 3)	1/23/2018	10	330	200	650	<1	110	53 J	<10	<100
MW-33 (Dup 4)	1/23/2018	390	4500	2200	12000	<1	1000	3300	<10	<100
MW-23 (Dup 5)	1/24/2018	1100	4800	310	8600	12	1200	2500	10	<100
DW-3 (Dup 6)	1/24/2018	740	1000	220	420	41	67	730	10	<100
Trip Blank 1	1/24/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100
Trip Blank 2	1/24/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100
Trip Blank 3	1/24/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100

BDL= Below Detectable Limit

RBSL= Risk Based Screening Levels

NE= Not Established

1,2 DCA = 1,2 Dichloroethane

J = Estimated value detected below reporting limit

CRAWFORD ENVIRONMENTAL SERVICES

Table 3

Facility Name:	Handy Pantry #65 / University Mart & Clouds Chevron	UST	07584 / 07777 / 12352
Address:	2367 Taylor Street Columbia, South Carolina	Crawford Project No.	7.0547

Site Specific Target Level Summary

Well ID:	Item	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphth	TAA	TAME	TBA	Total	Notes
MW-2	Initial	140.0	280.0	56.0	460.0	380.0	54.0	200.0	9.2	140.0	1719.2	
	SSTL	77.0	280.0	56.0	460.0	380.0	54.0	200.0	9.2	140.0	1656.2	
	Initial > SSTL	63.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63.0	
	Subsequent	460.00	10.00	270.00	960.0	520.0	190.0	430.0	23.0	100.0	2963.0	
	SSTL	77.0	280.0	56.0	460.0	380.0	54.0	200.0	9.2	140.0	1656.2	
	Subsequent > SSTL	373.0	0.0	214.0	500.0	140.0	136.0	230.0	13.8	0.0	1606.8	
MW-3	Initial	3000.0	7400.0	260.0	4500.0	3300.0	260.0	2000.0	340.0	1300.0	22360.0	
	SSTL	111.0	7400.0	260.0	4500.0	1976.0	108.0	2000.0	340.0	1300.0	17995.0	
	Initial > SSTL	2889.0	0.0	0.0	0.0	1324.0	152.0	0.0	0.0	0.0	4365.0	
	Subsequent	8400.0	29000.0	3400.0	29000.0	1500.0	740.0	1000.0	370.0	10000.0	83410.0	
	SSTL	111.0	7400.0	260.0	4500.0	1976.0	108.0	2000.0	340.0	1300.0	17995.0	
	Subsequent > SSTL	8289.0	21600.0	3140.0	24500.0	0.0	632.0	0.0	30.0	8700.0	65891.0	
MW-5	Initial	50.0	50.0	50.0	30.5	946.0	50.0	1000.0	100.0	1000.0	3276.5	Dry 1/22/2018 - Results from 5/16/2016
	SSTL	50.0	50.0	50.0	30.5	946.0	50.0	1000.0	100.0	1000.0	3276.5	
	Initial > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Subsequent	0.29	1.0	1.0	1.0	1.0	5.0	100.0	10.0	100.0	219.3	
	SSTL	50.0	50.0	50.0	30.5	946.0	50.0	1000.0	100.0	1000.0	3276.5	
	Subsequent > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MW-9	Initial	4100.0	27000.0	2500.0	19000.0	150.0	960.0	1800.0	2000.0	20000.0	77310.0	
	SSTL	35.0	7134.0	2500.0	19000.0	150.0	68.0	809.0	270.0	15628.0	45594.0	
	Initial > SSTL	4065.0	19866.0	0.0	0.0	0.0	892.0	791.0	1730.0	4372.0	31716.0	
	Subsequent	150	5400	1700	13000	50	680	5000	500	5000	31480.0	
	SSTL	35.0	7134.0	2500.0	19000.0	150.0	68.0	809.0	270.0	15628.0	45594.0	
	Subsequent > SSTL	115.0	0.0	0.0	0.0	0.0	612.0	4191.0	230.0	0.0	5146.0	
MW-10	Initial	740.0	7800.0	2500.0	15000.0	2500.0	950.0	50000.0	5000.0	50000.0	134490.0	
	SSTL	24.0	7800.0	2500.0	15000.0	294.0	53.0	793.0	707.0	11042.0	38213.0	
	Initial > SSTL	716.0	0.0	0.0	0.0	2206.0	897.0	49207.0	4293.0	38958.0	96277.0	
	Subsequent	40	15	94	690	1	120	42	10	109	1112.0	
	SSTL	24.0	7800.0	2500.0	15000.0	294.0	53.0	793.0	707.0	11042.0	38213.0	
	Subsequent > SSTL	16.0	0.0	0.0	0.0	0.0	67.0	0.0	0.0	0.0	83.0	
MW-12	Initial	1.7	5.0	11.0	5.0	5.6	4.7	370.0	1.5	19.0	423.5	NS January 2018 - Results from 10/20/2016
	SSTL	1.7	5.0	11.0	5.0	5.6	4.7	370.0	1.5	19.0	423.5	
	Initial > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	
	Subsequent	180	18	420	300	13	110	4000	10	100	5151.0	
	SSTL	1.7	5.0	11.0	5.0	5.6	4.7	370.0	1.5	19.0	423.5	
	Subsequent > SSTL	178.3	13.0	409.0	295.0	7.4	105.3	3630.0	8.5	81.0	4727.5	
MW-16	Initial	Free Product										
	SSTL	16.9	3198.0	3700.0	21680.0	730.0	45.0	492.0	199.0	5836.0	36898.0	
	Initial > SSTL											
	Subsequent	0.74	490.0	250.0	6500.0	1.0	100.0	100.0	10.0	100.0	7551.7	
	SSTL	16.9	3198.0	3700.0	21680.0	730.0	45.0	492.0	199.0	5836.0	36898.0	
	Subsequent > SSTL	0.0	0.0	0.0	0.0	0.0	55.0	0.0	0.0	0.0	55.0	

Table 3

Facility Name:	Handy Pantry #65 / University Mart & Clouds Chevron	UST	07584 / 07777 / 12352
Address:	2367 Taylor Street Columbia, South Carolina	Crawford Project No.	7.0547

Site Specific Target Level Summary

Well ID:	Item	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphth	TAA	TAME	TBA	Total	
MW-17	Initial	1400.0	26000.0	2590.0	23000.0	1000.0	1000.0	9400.0	2000.0	20000.0	86390.0	
	SSTL	32.0	6631.0	2590.0	21680.0	1000.0	66.0	773.0	263.0	14286.0	47231.0	
	Initial > SSTL	1368.0	19369.0	0.0	1320.0	0.0	934.0	8627.0	1737.0	5714.0	39069.0	
	Subsequent	35	13	430	150	1	440	70	10.0	100	1249.0	
	SSTL	32.0	6631.0	2590.0	21680.0	1000.0	66.0	773.0	263.0	14286.0	47231.0	
	Subsequent > SSTL	3.0	0.0	0.0	0.0	0.0	374.0	0.0	0.0	0.0	377.0	
MW-18	Initial	1900.0	7200.0	830.0	8300.0	340.0	370.0	4900.0	70.0	5000.0	28710.0	
	SSTL	40.0	19326.0	3700.0	21680.0	4260.0	348.0	938.0	4989.0	54462.0	109743.0	
	Initial > SSTL	1860.0	0.0	0.0	0.0	0.0	22.0	3962.0	0.0	0.0	5844.0	
	Subsequent	1800	11000	1400	12000	49	660	3300	200.00	2000	33309.0	
	SSTL	40.0	19326.0	3700.0	21680.0	4260.0	348.0	938.0	4989.0	54462.0	109743.0	
	Subsequent > SSTL	1760.0	0.0	0.0	0.0	0.0	312.0	2362.0	0.0	0.0	4434.0	
MW-19	Initial	300.0	1800.0	480.0	12000.0	50.0	900.0	610.0	500.0	5000.0	21650.0	
	SSTL	64.9	11081.0	3700.0	21680.0	16080.0	86.0	1065.0	320.0	26814.0	80860.0	
	Initial > SSTL	246.0	0.0	0.0	0.0	0.0	814.0	0.0	180.0	0.0	1240.0	
	Subsequent	3100	25000	1100	17000	500	770	50000	5000.00	50000	150470.0	
	SSTL	64.9	11081.0	3700.0	21680.0	16080.0	86.0	1065.0	320.0	26814.0	80860.0	
	Subsequent > SSTL	3046.0	11919.0	0.0	0.0	0.0	684.0	48935.0	4680.0	23186.0	92450.0	
MW-20	Initial	412.0	2930.0	728.0	8820.0	88.7	817.0	2859.0	200.0	2000.0	19845.7	
	SSTL	83.0	2830.0	728.0	8820.0	88.7	108.0	1403.0	200.0	2000.0	16360.7	
	Initial > SSTL	329.0	0.0	0.0	0.0	0.0	709.0	1447.0	0.0	0.0	3485.0	NS January 2018 - Results from 6/27/2017
	Subsequent	590.0	10000.0	2000.0	26000.0	50.0	1500.0	2500.0	500.0	5000.0	47940.0	
	SSTL	83.0	2830.0	728.0	8820.0	88.7	108.0	1403.0	200.0	2000.0	16360.7	
	Subsequent > SSTL	507.0	7070.0	1272.0	17180.0	0.0	1392.0	1097.0	300.0	3000.0	31618.0	
MW-22	Initial	3300.0	17000.0	2900.0	20000.0	1000.0	640.0	6200.0	130.0	20000.0	71170.0	
	SSTL	90.0	17000.0	2900.0	20000.0	1000.0	112.0	1469.0	130.0	20000.0	62701.0	
	Initial > SSTL	3210.0	0.0	0.0	0.0	0.0	528.0	4731.0	0.0	0.0	8469.0	
	Subsequent	2500	18000	1500	29000	100	850	2900	1000.00	10000	65850.0	
	SSTL	90.0	17000.0	2900.0	20000.0	1000.0	112.0	1469.0	130.0	20000.0	62701.0	
	Subsequent > SSTL	2410.0	1000.0	0.0	9000.0	0.0	738.0	1431.0	870.0	0.0	15449.0	
MW-25	Initial	4200.0	16000.0	880.0	19000.0	120.0	1100.0	5900.0	900.0	5000.0	52700.0	
	SSTL	72.0	14880.0	3700.0	21680.0	33368.0	100.0	1279.0	359.0	38475.0	113913.0	
	Initial > SSTL	4128.0	1120.0	0.0	0.0	0.0	1000.0	4621.0	141.0	0.0	11010.0	
	Subsequent	1100	4700	300	8500	11	1200	2700	11	100	18622.0	
	SSTL	72.0	14880.0	3700.0	21680.0	33368.0	100.0	1279.0	359.0	38475.0	113913.0	
	Subsequent > SSTL	1028.0	0.0	0.0	0.0	0.0	1100.0	1421.0	0.0	0.0	3549.0	
MW-28	Initial	5000.0	3000.0	1900.0	23000.0	5000.0	5000.0	100000.0	10000.0	100000.0	252900.0	
	SSTL	104.0	3000.0	1900.0	23000.0	5000.0	121.0	1612.0	415.0	60494.0	95646.0	
	Initial > SSTL	4896.0	0.0	0.0	0.0	0.0	4879.0	98388.0	9585.0	39506.0	157254.0	NS June 2017 - Results from 10/19/2016
	Subsequent	10	200	270	4700	1	520	680	10	100	6491.0	
	SSTL	104.0	3000.0	1900.0	23000.0	5000.0	121.0	1612.0	415.0	60494.0	95646.0	
	Subsequent > SSTL	0.0	0.0	0.0	0.0	0.0	399.0	0.0	0.0	0.0	399.0	

Facility Name:	Handy Pantry #65 / University Mart & Clouds Chevron	UST	07584 / 07777 / 12352
Address:	2367 Taylor Street Columbia, South Carolina	Crawford Project No.	7.0547

Site Specific Target Level Summary

Well ID:	Item	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphth	TAA	TAME	TBA	Total
MW-31	Initial	57.0	90.0	620.0	250.0	12.0	210.0	610.0	50.0	500.0	2199.0
	SSTL	51.0	90.0	620.0	250.0	12.0	210.0	610.0	50.0	500.0	2193.0
	Initial > SSTL	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0
	Subsequent	8.5	1.0	8.9	1.0	1.0	130.0	130.0	10.0	100.0	388.4
	SSTL	51.0	90.0	620.0	250.0	12.0	210.0	610.0	50.0	500.0	2193.0
	Subsequent > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-33	Initial	520.0	7200.0	1590.0	7200.0	500.0	410.0	3200.0	1000.0	10000.0	31530.0
	SSTL	63.0	7200.0	1590.0	7200.0	500.0	410.0	1136.0	1000.0	10000.0	28999.0
	Initial > SSTL	457.0	0.0	0.0	0.0	0.0	0.0	2064.0	0.0	0.0	2531.0
	Subsequent	310	4100	2100	11000	1	840	3800	10.00	100	22161.0
	SSTL	53.0	7200.0	1590.0	7200.0	500.0	410.0	1136.0	1000.0	10000.0	28999.0
	Subsequent > SSTL	257.0	0.0	600.0	3800.0	0.0	530.0	2484.0	0.0	0.0	7851.0
MW-35	Initial	4400.0	2000.0	1700.0	3500.0	300.0	580.0	5300.0	51.0	5000.0	22831.0
	SSTL	66.9	2000.0	1700.0	3500.0	300.0	542.0	1181.0	51.0	5000.0	14330.0
	Initial > SSTL	4344.0	0.0	0.0	0.0	0.0	38.0	4119.0	0.0	0.0	8501.0
	Subsequent	3600	6300	2900	8800	62	850	4100	200	2000	28612.0
	SSTL	66.9	2000.0	1700.0	3500.0	300.0	542.0	1181.0	51.0	5000.0	14330.0
	Subsequent > SSTL	3544.0	4300.0	1200.0	3100.0	0.0	308.0	2919.0	149.0	0.0	15520.0
MW-37	Initial	240.0	34.0	270.0	240.0	11.0	220.0	850.0	50.0	44.0	1959.0
	SSTL	90.0	34.0	270.0	240.0	11.0	220.0	850.0	50.0	44.0	1809.0
	Initial > SSTL	150.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	150.0
	Subsequent	1	1	1	1	1	5	100	10	100	220.0
	SSTL	90.0	34.0	270.0	240.0	11.0	220.0	850.0	50.0	44.0	1809.0
	Subsequent > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	56.0	56.0
MW-39	Initial	13.0	1300.0	480.0	4200.0	250.0	330.0	5000.0	500.0	5000.0	17053.0
	SSTL	13.0	1300.0	480.0	4200.0	250.0	330.0	1807.0	500.0	5000.0	13690.0
	Initial > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	3393.0	0.0	0.0	3393.0
	Subsequent	0.48	220	480	2000	1	370	56	10	100	3237.5
	SSTL	13.0	1300.0	480.0	4200.0	250.0	330.0	1807.0	500.0	5000.0	13690.0
	Subsequent > SSTL	0.0	0.0	20.0	0.0	0.0	40.0	0.0	0.0	0.0	60.0
MW-40	Initial	290.0	2900.0	850.0	7100.0	590.0	530.0	10000.0	1000.0	10000.0	32970.0
	SSTL	113.0	2900.0	660.0	7100.0	590.0	530.0	1876.0	1000.0	10000.0	24669.0
	Initial > SSTL	177.0	0.0	0.0	0.0	0.0	0.0	8124.0	0.0	0.0	8301.0
	Subsequent	1.5	1	9.8	1	1	6.1	100	10	100	230.4
	SSTL	113.0	2900.0	850.0	7100.0	590.0	530.0	1876.0	1000.0	10000.0	24669.0
	Subsequent > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-41	Initial	260.0	1000.0	1100.0	1000.0	1000.0	420.0	20000.0	2000.0	20000.0	46780.0
	SSTL	257.0	1000.0	1100.0	1000.0	1000.0	420.0	3234.0	2000.0	20000.0	30011.0
	Initial > SSTL	3.0	0.0	0.0	0.0	0.0	0.0	16766.0	0.0	0.0	16769.0
	Subsequent	10	330	210	680	1	110	65	10	100	1516.0
	SSTL	257.0	1000.0	1100.0	1000.0	1000.0	420.0	3234.0	2000.0	20000.0	30011.0
	Subsequent > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 3

Facility Name:	Handy Pantry #65 / University Mart & Clouds Chevron	UST	07584 / 07777 / 12352
Address:	2367 Taylor Street Columbia, South Carolina	Crawford Project No.	7.0547

Site Specific Target Level Summary

Well ID:	Item	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphth	TAA	TAME	TBA	Total	
MW-54	Initial	5.0	5.0	5.0	5.0	5.0	5.0	100.0	10.0	100.0	240.0	NS January 2018 - Results from 10/20/2016
	SSTL	5.0	5.0	5.0	5.0	5.0	5.0	110.0	2.0	14.0	166.0	
	Initial > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	86.0	94.0	
	Subsequent	1	1	1	1	2	5	130	10	100	251.0	
	SSTL	5.0	5.0	5.0	5.0	5.0	5.0	110.0	2.0	14.0	166.0	
	Subsequent > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	20.0	8.0	86.0	114.0	
MW-58	Initial	4.8	25.0	29.0	25.0	93.0	11.0	1800.0	15.0	100.0	2083.8	NS January 2018 - Results from 11/4/2015
	SSTL	4.8	25.0	29.0	25.0	51.0	11.0	279.0	15.0	100.0	539.8	
	Initial > SSTL	0.0	0.0	0.0	0.0	42.0	0.0	1521.0	0.0	0.0	0.0	
	Subsequent	1	1	1	1	1	5	100	10	100	220.0	
	SSTL	1.0	1.0	1.0	1.0	1.0	5.0	100.0	10.0	100.0	220.0	
	Subsequent > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MW-85	Initial	420.0	398.0	234.0	262.0	16.4	168.0	648.0	50.0	500.0	2695.4	Unable to Locate - Paved Over
	SSTL	326.0	398.0	234.0	262.0	16.4	168.0	648.0	50.0	500.0	2602.4	
	Initial > SSTL	94.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Subsequent	Unable to Locate - Paved Over										
	SSTL	326.0	398.0	234.0	262.0	16.4	168.0	648.0	50.0	500.0	2602.4	
	Subsequent > SSTL	Unable to Locate - Paved Over										
MW-SAR	Initial	9200.0	1000.0	1400.0	4400.0	160.0	810.0	1300.0	1000.0	10000.0	29270.0	
	SSTL	83.0	1000.0	1400.0	4400.0	160.0	108.0	1300.0	381.0	10000.0	18832.0	
	Initial > SSTL	9117.0	0.0	0.0	0.0	0.0	702.0	0.0	619.0	0.0	10438.0	
	Subsequent	7000	320	960	2700	19	1100	2700	49.00	100	14948.0	
	SSTL	83.0	1000.0	1400.0	4400.0	160.0	108.0	1300.0	381.0	10000.0	18832.0	
	Subsequent > SSTL	6917.0	0.0	0.0	0.0	0.0	992.0	1400.0	0.0	0.0	9309.0	
PW-1R	Initial	460.0	3400.0	320.0	9200.0	50.0	250.0	710.0	500.0	5000.0	19890.0	
	SSTL	58.0	11928.0	3700.0	21680.0	290.0	19298.0	1114.0	330.0	29344.0	87742.0	
	Initial > SSTL	402.0	0.0	0.0	0.0	0.0	0.0	0.0	170.0	0.0	572.0	
	Subsequent	370.0	4300.0	490.0	13000.0	100.0	340.0	10000.0	1000.0	10000.0	39990.0	
	SSTL	58.0	11928.0	3700.0	21680.0	290.0	19298.0	1114.0	330.0	29344.0	87742.0	
	Subsequent > SSTL	312.0	0.0	0.0	0.0	0.0	0.0	8886.0	670.0	0.0	9868.0	
DW-3	Initial	2600.0	19000.0	2200.0	10000.0	1000.0	620.0	3600.0	2000.0	20000.0	61020.0	
	SSTL	45.0	8470.0	2200.0	10000.0	1000.0	620.0	3600.0	2000.0	20000.0	47935.0	
	Initial > SSTL	2555.0	10530.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13085.0	
	Subsequent	700	960	210	410	44	68	790	10.000	100	3292.0	
	SSTL	45.0	8470.0	2200.0	10000.0	1000.0	620.0	3600.0	2000.0	20000.0	47935.0	
	Subsequent > SSTL	655.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	655.0	
SW-1	Initial	130.0	2.8	23.0	36.0	17.0	6.5	340.0	2.8	23.0	580.9	NS January 2018 - Results from 5/18/2016
	SSTL	5.0	2.8	23.0	36.0	17.0	6.5	240.0	2.6	23.0	365.9	
	Initial > SSTL	125.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	225.0	
	Subsequent	130	18	53	82	12	16	430	10	100	861.0	
	SSTL	5.0	2.8	23.0	36.0	17.0	6.5	240.0	2.8	23.0	365.9	
	Subsequent > SSTL	125.0	15.2	30.0	56.0	0.0	9.5	190.0	7.4	77.0	510.1	

SSTL = Site Specific Target Level
RBSL= Risk Based Screening Levels
MtBE= Methyl Tert-Butyl Ether
n/a = not applicable
0.0 - Excluded from Calculations

CRAWFORD ENVIRONMENTAL SERVICES

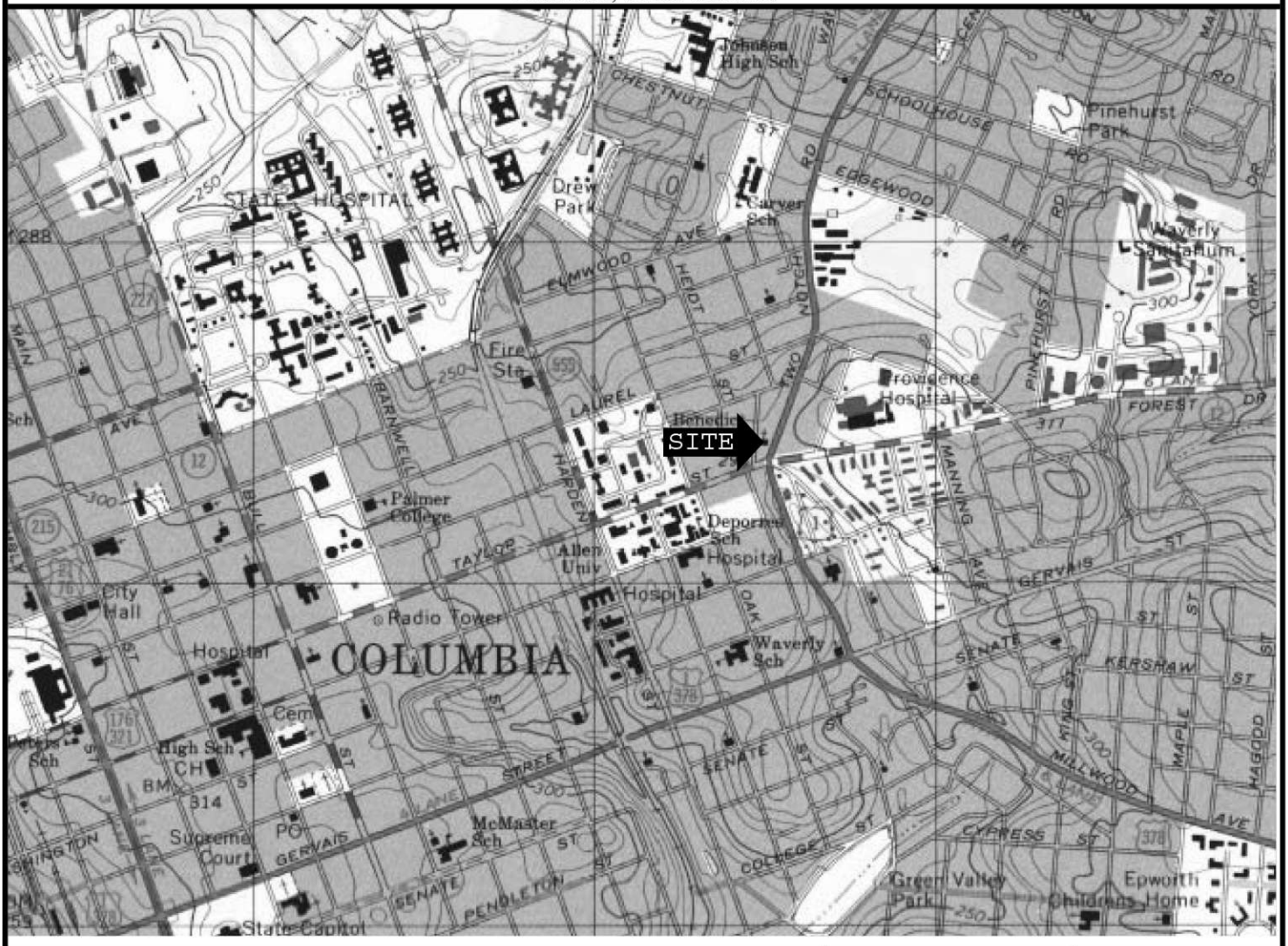
Initial>SSTL	d21858.00
Subsequent>SSTL	269375.40
COC Reduction	98.15%

Figures

Figure 1: Topographic Map
Figure 2: Site Facility Base Map
Figure 3: Chemicals of Concern Map
Figure 4: Groundwater Elevation Map

FIGURE 1

Site Location Map
Handy Pantry #65 / University Mart / Clouds Chevron
Intersection of Taylor Street and Two Notch Road
Columbia, South Carolina



CRAWFORD ENVIRONMENTAL SERVICES

1701 Shenandoah Avenue, NW
Roanoke Virginia, 24017

540-343-6256 (office) 540-343-6259 (fax)

NORTH COLUMBIA, SOUTH CAROLINA

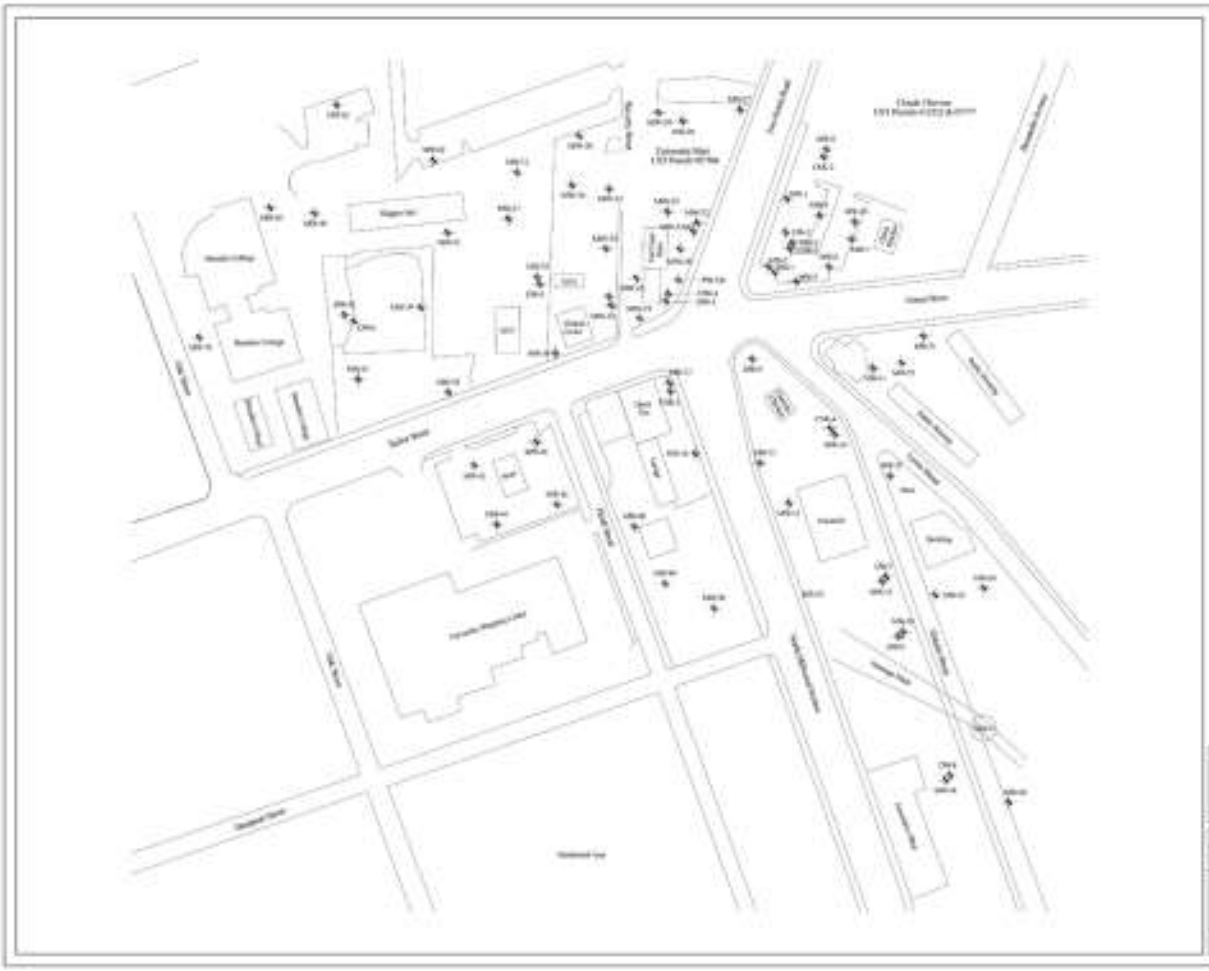
Source: U.S.G.S. Topographic Map of the Columbia North Quadrangle, Virginia, 7.5 Minute Series (1977, revised 1988)
Scale: 1:24,000 Contour Interval: 20 Feet
Vertical Datum: National Geodetic Vertical Datum 1929
Horizontal Datum: North American Datum1927

Project: January 2018 CASE Report

Client: SCDHEC

CES Job #: 7.0547

Latitude: 034°00'42.72"N
Longitude: 081°01'00.13"W



Legend

Monitoring Well (MW) Location

1 inch equals 150 feet

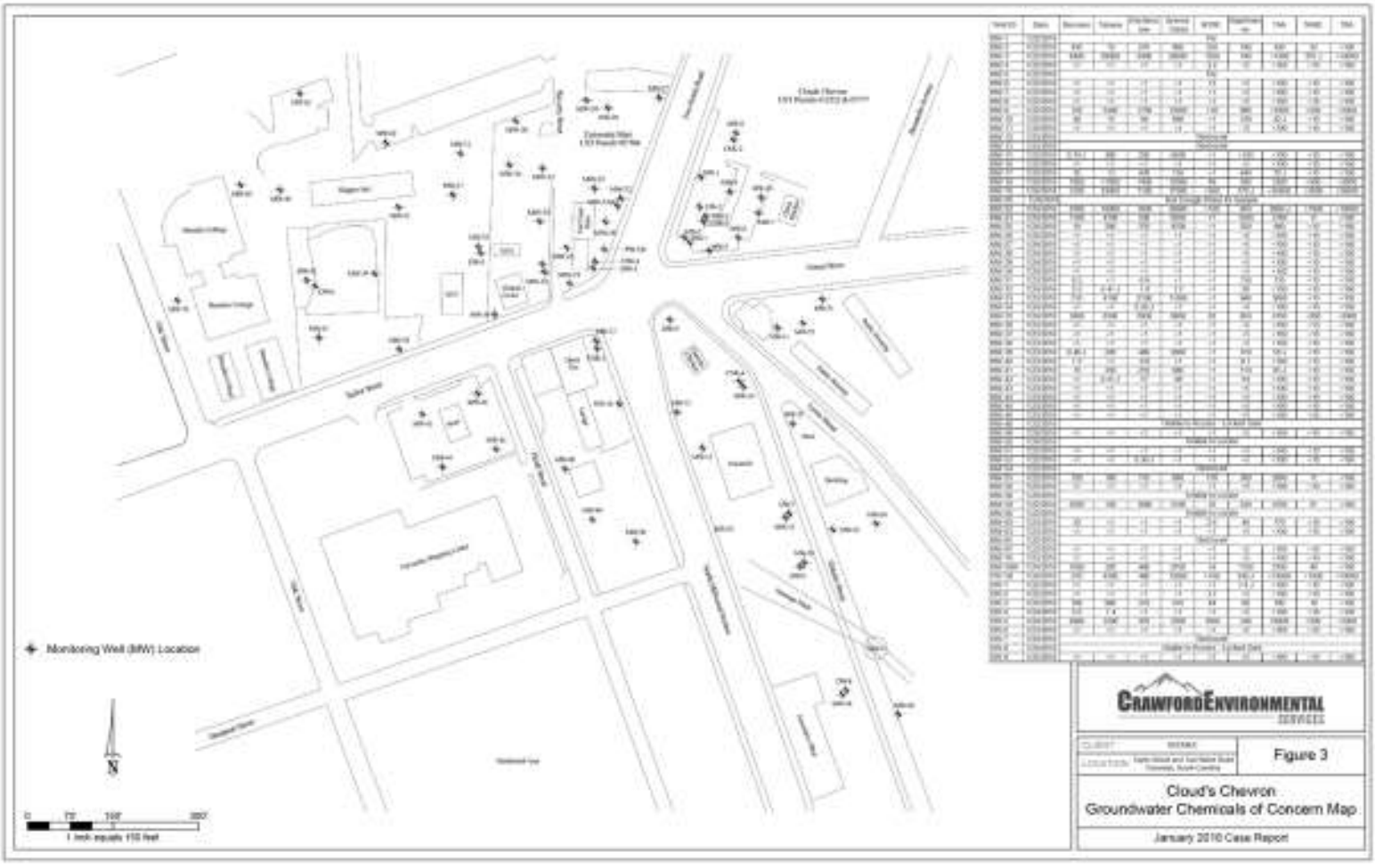
CRAWFORD ENVIRONMENTAL SERVICES

CLIENT:	[illegible]
LOCATION:	[illegible]

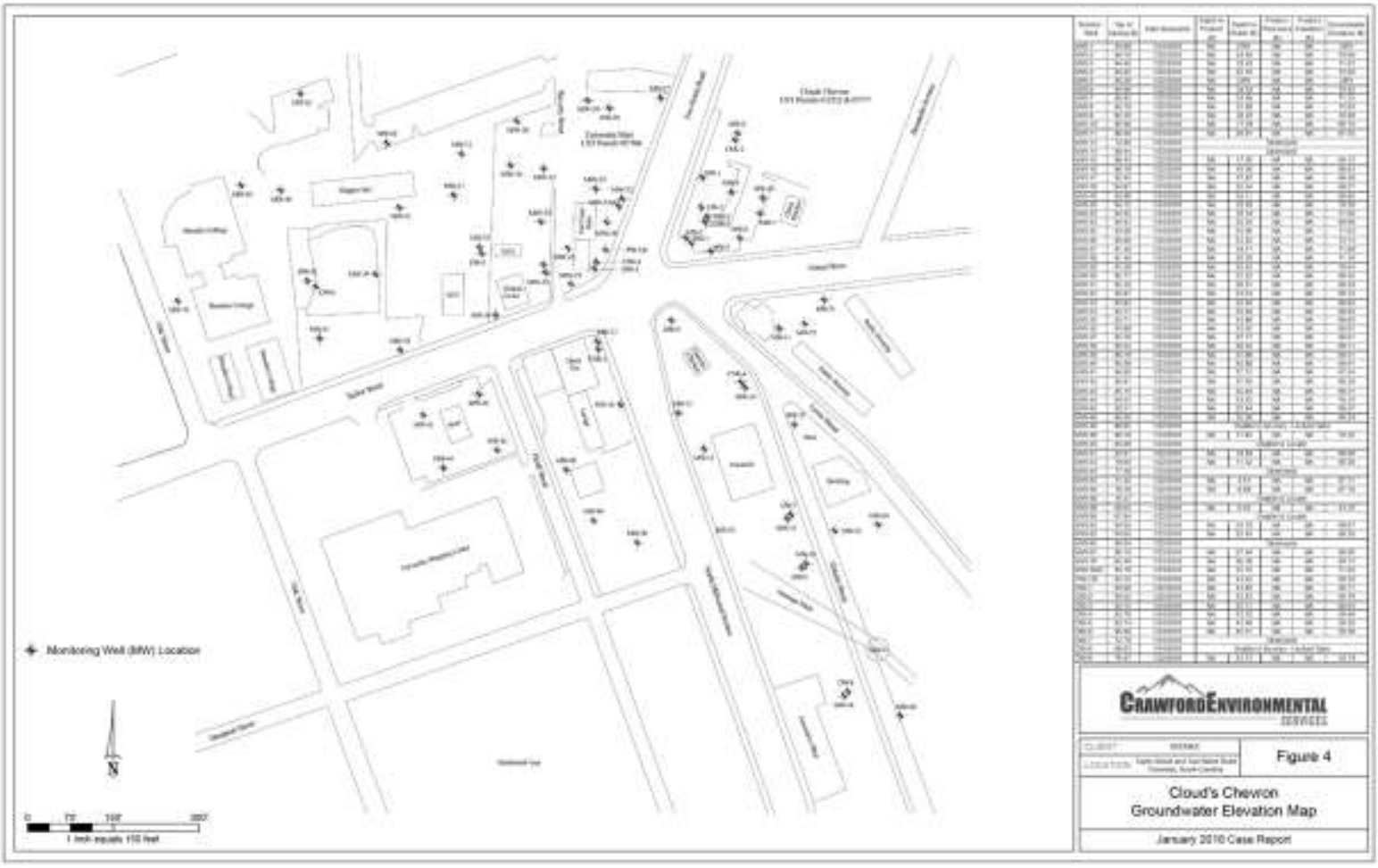
Figure 2

Cloud's Chevron
Site Facility Base Map

January 2010 Case Report



MW-1	6/30/2004									
MW-2	6/30/2004	640	70	220	860	1100	540	630	30	1100
MW-3	6/30/2004	5400	39000	5400	39000	1100	540	4300	910	14000
MW-4	6/30/2004	<1	<1	<1	<1	2.2	<1	<1	<1	<1
MW-5	6/30/2004					Dry				
MW-6	6/30/2004	<1	<1	<1	<1	<1	<1	<1	<1	<1
MW-7	6/30/2004	<1	<1	<1	<1	<1	<1	<1	<1	<1
MW-8	6/30/2004	<1	<1	<1	<1	<1	<1	<1	<1	<1
MW-9	6/30/2004	310	5400	2700	13400	110	980	1400	1200	3300
MW-10	6/30/2004	80	10	50	1000	<1	270	210	<1	110
MW-11	6/30/2004	<1	<1	<1	<1	<1	<1	<1	<1	<1
MW-12	6/30/2004					Destroyed				
MW-13	6/30/2004					Destroyed				
MW-14	6/30/2004	0.75J	600	120	1400	<1	1100	1100	<1	150
MW-15	6/30/2004	1100	1100	1100	1100	<1	1100	1100	<1	1100
MW-16	6/30/2004	80	20	40	1100	<1	440	1100	<1	1100
MW-17	6/30/2004	1100	1100	1100	1100	<1	440	1100	<1	1100
MW-18	6/30/2004	1100	1100	1100	1100	<1	440	1100	<1	1100
MW-19	6/30/2004	1100	1100	1100	1100	<1	440	1100	<1	1100
MW-20	6/30/2004					Not Enough Water to Sample				
MW-21	6/30/2004	1100	1100	1100	1100	<1	440	1100	<1	1100
MW-22	6/30/2004	1100	1100	1100	1100	<1	440	1100	<1	1100
MW-23	6/30/2004	<1	<1	<1	<1	<1	<1	<1	<1	<1
MW-24	6/30/2004	<1	<1	<1	<1	<1	<1	<1	<1	<1
MW-25	6/30/2004	<1	<1	<1	<1	<1	<1	<1	<1	<1
MW-26	6/30/2004	<1	<1	<1	<1	<1	<1	<1	<1	<1
MW-27	6/30/2004	<1	<1	<1	<1	<1	<1	<1	<1	<1
MW-28	6/30/2004	<1	<1	<1	<1	<1	<1	<1	<1	<1
MW-29	6/30/2004	<1	<1	<1	<1	<1	<1	<1	<1	<1
MW-30	6/30/2004	<1	<1	<1	<1	<1	<1	<1	<1	<1
MW-31	6/30/2004	<1	<1	<1	<1	<1	<1	<1	<1	<1
MW-32	6/30/2004	<1	<1	<1	<1	<1	<1	<1	<1	<1
MW-33	6/30/2004	<1	<1	<1	<1	<1	<1	<1	<1	<1
MW-34	6/30/2004	<1	<1	<1	<1	<1	<1	<1	<1	<1
MW-35	6/30/2004	<1	<1	<1	<1	<1	<1	<1	<1	<1
MW-36	6/30/2004	<1	<1	<1	<1	<1	<1	<1	<1	<1
MW-37	6/30/2004	<1	<1	<1	<1	<1	<1	<1	<1	<1
MW-38	6/30/2004	<1	<1	<1	<1	<1	<1	<1	<1	<1
MW-39	6/30/2004	<1	<1	<1	<1	<1	<1	<1	<1	<1
MW-40	6/30/2004	0.46J	1	0.5J	1.5	<1	1.1	1.6J	<1	0.5J
MW-41	6/30/2004	1.1	0.5J	1.1	1.6	<1	1.1	1.6J	<1	0.5J
MW-42	6/30/2004	1.1	0.5J	1.1	1.6	<1	1.1	1.6J	<1	0.5J
MW-43	6/30/2004	1.1	0.5J	1.1	1.6	<1	1.1	1.6J	<1	0.5J



CRAWFORD ENVIRONMENTAL SERVICES

Figure 4

Cloud's Chevron
Groundwater Elevation Map

January 2010 Case Report

Appendix A

Groundwater Laboratory Analytical Report

&

Chain-of-Custody Documentation

ACCESS ANALYTICAL, INC.

ANALYTICAL REPORT

CLIENT

Crawford Environmental Services
15 Church Ave, SW
Roanoke VA 24011

ATTENTION
Dan Fisher

PROJECT ID
Clouds Exxon

LABORATORY REPORT NUMBER
1801N71

DATE
February 05, 2018

Primary Data Review By

Chris Pafford
Project Manager, AES

Secondary Data Review By

Ashley Amick
Project Manager, Access Analytical
aamick@axs-inc.com

PLEASE NOTE:

- **Unless otherwise noted, all analysis on this report performed at Analytical Environmental Services Inc. (AES Inc), 3080 Presidential Drive, Atlanta, GA 30340.**
- **AES is SCDHEC certified laboratory # 98016, NCDENR certified lab # 562, GA certified lab # FL-E87582, NELAP certified laboratory # E87582**
- **AIHA-LAP,LLC Laboratory ID:100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination.**
- Local support services for this project are provided by Access Analytical, Inc. Access Analytical is a representative of AES serving client in the SC/NC/GA areas. All questions regarding this report should be directed to your local Access Analytical representative at 803.781.4243 or toll fee at 883.315.4243

Access Lab Report #: _____
Sub Lab (if applicable): _____ / Sub Report #: _____

PO#: _____

Access Analytical, Inc.
15 Thames Valley Rd.
Irmo, SC 29063
Phone: 803-781-4243
Web: www.aas-inc.com

Chain of Custody Record

Clerk: Crawford Enviro
Attn: Dan Fichen
Address: 1701 Shenandoah Ave
City: Roanoke State: VA Zip Code: 24017
Phone: 540 343-6256 Fax: 540-343-6255
Email: DFichen@crawfordenvironmental.com
Project ID: Clouds Exxon
Sampled By: Billy Ewing

Preservatives (see codes): 1
Bottle Types (see codes): 6

REQUESTED LAB ANALYSIS: BTEX/MTBE/GRO/DRO

Lab ID	Sample Name	Date Collected	Time Collected	G=Grab C=Comp	# Containers per Test (1)	# Containers per Test (2)	# Containers per Test (3)	Total # Containers	# Containers per Test	Notes / Comments
	mw 2	1-22-18	1320	G	6	6	UST	3	3	
	DW 1		1350							
	pw 2		1430							
	mw 3		1440							
	mw 26		1450							
	mw 8		1500							
	mw 7		1510							
	mw 4		1520							
	mw 16		1315							
	mw 17	↓	1305	↓	↓	↓	↓	↓	↓	

Preservation Codes / Bottle Types:

*Preservative Codes:
0 = None, 1 = HCl, 2 = HNO_3, 3 = H_2SO_4, 4 = NaOH, 5 = $Na_2S_2O_3$, 6 = Method 5035 set w/ $NaHSO_4$ & CH_3OH, 7 = NaOH/ZnOAc, 8 = H_3PO_4, 9 = cooled to ≤6°C, 10 = cooled to ≤10°C, 11 = Ammi Cl, 12 = Ascorbic Acid / HCl, 13 = EDA

*Matrix Codes:
GW = ground water, WW = waste water, DW = drinking water, SW = surface/storm water, S = soil, SL = sludge, A = air, IW = industrial waste, O = other (specify in comments section) NA = for non-regulatory samples

*Program Area Codes:
CWA = Clean Water Act (for wastewaters), SDWA = Safe Drinking Water Act (for drinking waters), SHW = Solid and Hazardous Wastes (for soils, ground waters and waste samples)

*Container Type: G = Glass, P = Plastic

Auto Sampler Data (composite samples only):

Date/Time On: _____ by whom: _____ Meter Reading Before: _____ Meter Reading After: _____ Difference: _____

Date/Time Off: _____ by whom: _____ X _____ (factor): _____

Turnaround Time Requested:			Project Location		Relinquished By:	Received By:	Date:	Time (24hr):	Samples Received on Ice
Standard	X	Rush*	SC	X	William Ewing		1/26/18	1100	X Y N N/A
*Date Required			NC				1/26/18	1700	X Y N N/A
Rush data emailed/faxed by the end of business day on date required. Standard TAT is 7-10 business days.			Other (Specify)			Linda Kolick (FEDEX)	1/30/18	10:20	Y N N/A
									Y N N/A

Chain of Custody Page 1 of 7

Received in lab by: _____

Sample Temp. Upon Receipt in Lab: 4.0° (C)

White Copy: Lab original / Canary Copy: File Copy / Pink Copy: Client Copy

NOTE: Relinquishing samples via this Chain of Custody document constitutes client acceptance of Access Analytical terms and conditions.

Access Lab Report #: _____

Sub Lab (if applicable): _____ / Sub Report #: _____

PO#: _____

ACCESS ANALYTICAL, INC.

15 Thames Valley Rd.
Irmo, SC 29063
Phone: 803-781-4243
Web: www.axs-inc.com

Chain of Custody Record

1801N71

Client:	Crawford Enviro	Preservatives (see codes):	1
Attn:	Dan Fisher	Bottle Types (see codes):	G
Address:	1701 Shenandoah Ave		
City:	Roanoke	State: VA	Zip Code: 24017
Phone:	540 343 6256	Fax:	540 343-6259
Email:	DFisher@crawfordenvironmental.com		
Project ID:	Clouds Ext on		
Sampled By:	Billy Ewing		

REQUESTED LAB ANALYSIS: BTEX/N/m/Dual Qty

Preservation Codes / Bottle Types

*Preservative Codes:
0 = None, 1 = HCL, 2 = HNO_3^{2}, 3 = H_2SO_4, 4 = NaOH, 5 = $Na_2S_2O_3$, 6 = Method 5035 set w/ $NaHSO_4$ & CH_3OH, 7 = NaOH/ZnOAC, 8 = H_3PO_4, 9 = cooled to 6°C, 10 = cooled to 10°C, 11 = Amm Cl, 12 = Ascorbic Acid / HCL, 13 = EDA

*Matrix Codes
GW = ground water, WW = waste water, DW = drinking water, SW = surface/storm water, S = soil, SL = sludge, A = air, IW = industrial waste, O = other (specify in comments section) NA = for non regulatory samples

*Program Area Codes:
CWA = Clean Water Act (for wastewaters), SDWA = Safe Drinking Water Act (for drinking water), SHW = Solid and Hazardous Wastes (for soils, ground waters and waste samples)

*Container Type: G = Glass, P = Plastic

Lab ID:	Sample Name:	Date Collected:	Time Collected:	Certain C-Comp	Matrix (see codes)	Program Area (see codes)	Total # Containers	REQUESTED LAB ANALYSIS	BTEX/N/m/Dual Qty	Notes / Comments
	mw10	1-22-18	1220	G	GW	UST	3	# Containers per Test	3	
	mw9		1255					# Containers per Test		
	mw56		1120					# Containers per Test		
	DW9		1100					# Containers per Test		
	mw59		1110					# Containers per Test		
	mw55		1200					# Containers per Test		
	mw53		1210					# Containers per Test		
	mw15		1240					# Containers per Test		
	DUP1		1245					# Containers per Test		
	mw6		1530					# Containers per Test		

Auto Sampler Data (composite samples only):

Date/Time On: _____ by whom: _____ Meter Reading Before: _____ Meter Reading After: _____ Difference: _____

Date/Time Off: _____ by whom: _____ X _____ (factor): _____

Turnaround Time Requested:		Project Location:		Relinquished By:	Received By:	Date:	Time (24hr):	Samples Received on Ice:
Standard	X	SC	X	William Ewing	[signature]	1/26/18	1100	X Y N N/A
*Date Required		NC		[signature]	FEDEX	1/26/18	1700	X Y N N/A
Rush data emailed/faxed by the end of business day on date required. Standard TAT is 7-10 business days.		Other (Specify):		FEDEX	[signature] (FEDEX)	1/30/18	10:20	✓ Y N N/A
								Y N N/A

Chain of Custody Page 2 of 7

Received in lab by: _____

Sample Temp. Upon Receipt in Lab: 1.4 / 3.4 °C

White Copy: Lab original / Canary Copy: File Copy / Pink Copy: Client Copy

NOTE: Relinquishing samples via this Chain of Custody document constitutes client acceptance of Access Analytical terms and conditions.

Access Lab Report #: _____

Sub Lab (if applicable): _____ / Sub Report #: _____

PO#: _____

ACCESS ANALYTICAL, INC.

15 Thames Valley Rd.
Irmo, SC 29063
Phone: 803-781-4243
Web: www.axs-inc.com

Chain of Custody Record

1801N71

Client:	Crawford Enviro	Preservatives (see codes):	1
Attn:	Dan Fisher	Bottle Types (see codes):	G
Address:	1701 Shenandoah AVE		
City:	Roanoke	State: VA	Zip Code: 24017
Phone:	540 343-6256	Fax:	540-343-6259
Email:	DFisher@crawfordenvironmental.com		
Project ID:	Clouds Exxon		
Sampled By:	Billy Ewing		

REQUESTED LAB ANALYSIS: BTEX/N/m/pcs/oxy

Preservation Codes / Bottle Types:

*Preservative Codes:
0 = None, 1 = HCL, 2 = HNO_3, 3 = H_2SO_4, 4 = NaOH, 5 = $Na_2S_2O_3$, 6 = Method 5035 set w/ $NaHSO_4$ & CH_3OH, 7 = NaOH/ZnOAC, 8 = H_3PO_4, 9 = cooled to 56°C, 10 = cooled to 500°C, 11 = Amm.Cl, 12 = Ascorbic Acid / HCL, 13 = EDA

*Matrix Codes:
GW = ground water, WW = waste water, DW = drinking water, SW = surface/storm water, S = soil, SL = sludge, A = air, IW = industrial waste, O = other (specify in comments section) NA = for non-regulatory samples

*Program Area Codes:
CWA = Clean Water Act (for wastewaters), SDWA = Safe Drinking Water Act (for drinking water), SHW = Solid and Hazardous Wastes (for soils, ground waters and waste samples)

*Container Type: G = Glass, P = Plastic

Lab ID	Sample Name	Date Collected	Time Collected	G-Grab C-Comp	Matrix (see codes)	Program Area (see codes)	Total # Containers	# Containers per Test	BTEX/N/m/pcs/oxy	Notes / Comments
	mw33	1-23-18	1225	G	GW	UST	3	3	3	
	DUP 4		1230							
	mw46		800							
	mw36		1245							
	mw41		940							
	DUP 3		945							
	mw40		930							
	mw37		1200							
	mw31		1145							
	mw62		1130							

Auto Sampler Data (composite samples only):

Date/Time On: _____ by whom: _____ Meter Reading Before: _____ Meter Reading After: _____ Difference: _____

Date/Time Off: _____ by whom: _____ X _____ (factor): _____

Turnaround Time Requested:		Project Location:		Relinquished By:	Received By:	Date:	Time (24hr):	Samples Received on Ice:
Standard	X	SC	X	William Ewing	[signature]	1/26/18	1100	X Y N N/A
*Date Required		NC		[signature]	FEDEX	1/26/18	1700	X Y N N/A
Rush data emailed/faxed by the end of business day on date required. Standard TAT is 7-10 business days.		Other (Specify):		FEDEX	[signature] (FEDEX)	1/30/18	10:20	✓ Y N N/A
								Y N N/A

Chain of Custody Page 3 of 7

Received in lab by: _____

Sample Temp. Upon Receipt in Lab: 3.4° (C) 6.4°

White Copy: Lab original / Canary Copy: File Copy / Pink Copy: Client Copy

NOTE: Relinquishing samples via this Chain of Custody document constitutes client acceptance of Access Analytical terms and conditions.

Access Lab Report #: _____

Sub Lab (if applicable): _____ / Sub Report #: _____

PO#: _____

ACCESS ANALYTICAL, INC.

15 Thames Valley Rd.
Irmo, SC 29063
Phone: 803-781-4243
Web: www.axs-inc.com

Chain of Custody Record

1801N71

Client:	Crawford Environ	Preservatives (see codes):	1
Attn:	Dan Fisher	Bottle Types (see codes):	6
Address:	1701 Shenandoah AVE		
City:	Roanoke	State: VA	Zip Code: 24017
Phone:	540-343-6256	Fax:	540-343 6259
Email:	DFisher@crawfordenvironmental.com		
Project ID:	Clouds Exxon		
Sampled By:	Dilly Ewing		

REQUESTED LAB ANALYSIS: BTEX/N/m/Dca/Oxy

Preservation Codes / Bottle Types:

*Preservative Codes:
0 = None, 1 = HCL, 2 = HNO_3*, 3 = H_2SO_4, 4 = NaOH, 5 = $Na_2S_2O_3$, 6 = Method 5035 set w/ $NaHSO_4$ & CH_3OH, 7 = NaOH/ZnOAC, 8 = H_3PO_4, 9 = cooled to 56°C, 10 = cooled to 100°C, 11 = Amm.Cl, 12 = Ascorbic Acid / HCL, 13 = EDA

*Matrix Codes:
GW = ground water, WW = waste water, DW = drinking water, SW = surface/storm water, S = soil, SL = sludge, A = air, IW = industrial waste, O = other (specify in comments section) NA = for non-regulatory samples

*Program Area Codes:
CWA = Clean Water Act (for wastewaters), SDWA = Safe Drinking Water Act (for drinking water), SHW = Solid and Hazardous Wastes (for soils, ground waters and waste samples)

*Container Type: G = Glass, P = Plastic

Lab ID:	Sample Name	Date Collected	Time Collected	G=Grab C=Comp	Matrix (see codes)	Program Area (see codes)	Total # Containers	REQUESTED LAB ANALYSIS	Notes / Comments
	mw 63	1-23-18	955	G	GW	UST	3	3	
	mw 70		1045						
	mw 39		1030						
	mw 42		955						
	Dw 6		910						
	mw 67		900						
	mw 38		840						
	mw 43		830						
	mw 44		820						
	mw 45		810						

Auto Sampler Data (composite samples only):

Date/Time On: _____ by whom: _____ Meter Reading Before: _____ Meter Reading After: _____ Difference: _____

Date/Time Off: _____ by whom: _____ X _____ (factor): _____

Turnaround Time Requested:		Project Location		Relinquished By:	Received By:	Date:	Time (24hr):	Samples Received on Ice:
Standard	X	SC	X	William Ewing	[signature]	1/26/18	1100	X Y N N/A
*Date Required		NC		[signature]	FEDEX	1/26/18	1700	X Y N N/A
Rush data emailed/faxed by the end of business day on date required. Standard TAT is 7-10 business days.		Other (Specify)		FEDEX	Kristin Roberson (FEDEX)	1/30/18	10:20	✓ Y N N/A
								Y N N/A

Chain of Custody Page 4 of ____

Received in lab by: _____

Sample Temp. Upon Receipt in Lab: 1.4* 3.4° (C)

White Copy: Lab original / Canary Copy: File Copy / Pink Copy: Client Copy

NOTE: Relinquishing samples via this Chain of Custody document constitutes client acceptance of Access Analytical terms and conditions.

Access Lab Report #: _____

Sub Lab (if applicable): _____ / Sub Report #: _____

PO#: _____

ACCESS ANALYTICAL, INC.

15 Thames Valley Rd.
Irmo, SC 29063
Phone: 803-781-4243
Web: www.axs-inc.com

Chain of Custody Record

1801N74

Client:	Crow Ford Enviro	Preservatives (see codes):	1
Attn:	Dan Fisher	Bottle Types (see codes):	G
Address:	1701 Shenandoah AVE		
City:	Roanoke	State: VA	Zip Code: 24017
Phone:	540 343 6256	Fax:	540 343 6259
Email:	Dfisher@crowfordenvironmental.com		
Project ID:	Clouds Exxon		
Sampled By:	Billy Ewing		

REQUESTED LAB ANALYSIS: BTEX/N/m/DWA/DXY

Preservation Codes / Bottle Types:

*Preservative Codes:
0 = None, 1 = HCL, 2 = HNO_3, 3 = H_2SO_4, 4 = NaOH, 5 = $Na_2S_2O_3$, 6 = Method 5035 set w/ $NaHSO_4$ & CH_3OH, 7 = NaOH/ZnOAC, 8 = H_3PO_4, 9 = cooled to 56°C, 10 = cooled to 510°C, 11 = Amm Cl, 12 = Ascorbic Acid / HCL, 13 = EDA

*Matrix Codes:
GW = ground water, WW = waste water, DW = drinking water, SW = surface/storm water, S = soil, SL = sludge, A = air, IW = industrial waste, O = other (specify in comments section) NA = for non-regulatory samples

*Program Area Codes:
CWA = Clean Water Act (for wastewaters), SDWA = Safe Drinking Water Act (for drinking water), SHW = Solid and Hazardous Wastes (for soils, ground waters and waste samples)

*Container Type: G = Glass, P = Plastic

Lab ID	Sample Name	Date Collected	Time Collected	Cl-Comp	Matrix (see codes)	Program Area (see codes)	Total # Containers	REQUESTED LAB ANALYSIS	Notes / Comments
	FB-1	1-22-18	1545	G	GW	UST	3	3	
	FB-2	1-23-18	1300	↓	↓	↓	↓	↓	
	FB-3	1-24-18	800	↓	↓	↓	↓	↓	
	MW 49	↓	1440	↓	↓	↓	↓	↓	
	PW1R	↓	1230	↓	↓	↓	↓	↓	
	MW 19	↓	840	↓	↓	↓	↓	↓	
	MW 11	↓	1420	↓	↓	↓	↓	↓	
	MW 51	↓	1210	↓	↓	↓	↓	↓	
	MW 34	↓	810	↓	↓	↓	↓	↓	
	MW 35	↓	750	↓	↓	↓	↓	↓	

Auto Sampler Data (composite samples only):

Date/Time On: _____ by whom: _____ Meter Reading Before: _____ Meter Reading After: _____ Difference: _____

Date/Time Off: _____ by whom: _____ X _____ (factor): _____

Turnaround Time Requested:		Project Location:		Relinquished By:	Received By:	Date:	Time (24hr):	Samples Received on Ice:
Standard	X	SC	X	William Ewing	[signature]	1/26/18	1100	X Y N N/A
*Date Required		NC		[signature]	Fedex	1/26/18	1700	X Y N N/A
Rush data emailed/faxed by the end of business day on date required. Standard TAT is 7-10 business days.		Other (Specify):		Fedex	[signature] (FEDEX)	1/30/18	10:20	✓ Y N N/A
								Y N N/A

Chain of Custody Page 5 of 7

Received in lab by: _____

Sample Temp. Upon Receipt in Lab: 1.4° 3.4° (C)

White Copy: Lab original / Canary Copy: File Copy / Pink Copy: Client Copy

NOTE: Relinquishing samples via this Chain of Custody document constitutes client acceptance of Access Analytical terms and conditions.

Access Lab Report #: _____

Sub Lab (if applicable): _____ / Sub Report #: _____

PO#: _____

ACCESS ANALYTICAL, INC.

15 Thames Valley Rd.
Irmo, SC 29063
Phone: 803-781-4243
Web: www.axs-inc.com

Chain of Custody Record

1801NH

Client:	CRAWFORD ENVIRO	Preservatives (see codes):	1
Attn:	DAN Fisher	Bottle Types (see codes):	6
Address:	1701 Shenandoah Ave		
City:	Roanoke	State: VA	Zip Code: 24017
Phone:	540-343-6256	Fax:	540-343-6259
Email:	DFisher@crawfordenvironmental.com		
Project ID:	Clouds Exxon		
Sampled By:	Billy E		

REQUESTED LAB ANALYSIS: BTEX/MM/DUP/DW

Preservation Codes / Bottle Types

*Preservative Codes:
0 = None, 1 = HCL, 2 = HNO_3, 3 = H_2SO_4, 4 = NaOH, 5 = $Na_2S_2O_3$, 6 = Method 5035 set w/ $NaHSO_4$ & CH_3OH, 7 = NaOH/ZnOAc, 8 = H_3PO_4, 9 = cooled to 68°C, 10 = cooled to 610°C, 11 = AmmCl, 12 = Ascorbic Acid / HCL, 13 = EDA

*Matrix Codes:
DW = ground water, WW = waste water, DW = drinking water, SW = surface/storm water, S = soil, SL = sludge, A = air, IW = industrial waste, O = other (specify in comments section) NA = for non-regulatory samples

*Program Area Codes:
CWA = Clean Water Act (for wastewaters), SDWA = Safe Drinking Water Act (for drinking water), SHW = Solid and Hazardous Wastes (for soils, groundwaters and waste samples)

*Container Type: G = Glass, P = Plastic

Lab ID:	Sample Name:	Date Collected:	Time Collected:	G-Grab Cntrlmp	Matrix (see codes)	Program Area (see codes)	Totals Containers	REQUESTED LAB ANALYSIS	Notes / Comments
	DW 5	1-26-18	790	G	GW	UST	3	3	
	MW 18		830						
	MW 23		850						
	DUP 5		855						
	MW 30		905						
	MW 32		915						
	MW 29		925						
	MW 28		935						
	MW 27		945						
	MW 25		955						

Auto Sampler Data (composite samples only):

Date/Time On: _____ by whom: _____ Meter Reading Before: _____ Meter Reading After: _____ Difference: _____

Date/Time Off: _____ by whom: _____ X _____ (factor): _____

Turnaround Time Requested:		Project Location:		Relinquished By:	Received By:	Date:	Time (24hr):	Samples Received on Ice:
Standard	X	SC	X	Billy Ewing	[signature]	1/26/18	1100	X Y N N/A
*Date Required		NC		[signature]	FEDEX	1/26/18	1700	X Y N N/A
Rush data emailed/faxed by the end of business day on date required. Standard TAT is 7-10 business days.		Other (Specify):		FEDEX	[signature] (FEDEX)	1/30/18	1020	✓ Y N N/A
								Y N N/A

Chain of Custody Page 6 of 7

Received in lab by: _____

Sample Temp. Upon Receipt in Lab: 1.4°C 3.4° (C)

White Copy: Lab original / Canary Copy: File Copy / Pink Copy: Client Copy

NOTE: Relinquishing samples via this Chain of Custody document constitutes client acceptance of Access Analytical terms and conditions.

Access Lab Report #: _____

Sub Lab (if applicable): _____ / Sub Report #: _____

PO#: _____

ACCESS ANALYTICAL, INC.

15 Thames Valley Rd.
Irmo, SC 29063
Phone: 803-781-4243
Web: www.axs-inc.com

Chain of Custody Record

180 IN FT

Client:	CRAWFORD ENVIRO	Preservatives (see codes):	1
Attn:	DAN Fisher	Bottle Types (see codes):	6
Address:	1701 Shenandoah Ave		
City:	Roan oke	State: VA	Zip Code: 24017
Phone:	540-343-6256	Fax:	540 343-6259
Email:	DFisher@crawfordenvironmental.com		
Project ID:	Clouds Exton		
Sampled By:	Billy Ewin		

REQUESTED LAB ANALYSIS: BTEX/N/M/OA/OS

Preservation Codes / Bottle Types:

*Preservative Codes:
0 = None, 1 = HCL, 2 = HNO_3, 3 = H_2SO_4, 4 = NaOH, 5 = $Na_2S_2O_3$, 6 = Method 5035 set w/ $NaHSO_4$ & CH_3OH, 7 = NaOH/ZnOAC, 8 = H_3PO_4, 9 = cooled to 48°C, 10 = cooled to 610°C, 11 = Amm Cl, 12 = Ascorbic Acid / HCL, 13 = EDA

*Matrix Codes:
DW = ground water, WW = waste water, DW = drinking water, SW = surface/storm water, S = soil, SL = sludge, A = air, IW = industrial waste, O = other (specify in comments section) NA = for non-regulatory samples

*Program Area Codes:
CWA = Clean Water Act (for wastewaters), SDWA = Safe Drinking Water Act (for drinking water), SHW = Solid and Hazardous Wastes (for soils, groundwaters and waste samples)

*Container Type: G = Glass, P = Plastic

Lab ID:	Sample Name:	Date Collected:	Time Collected:	G-Grab Or Comp	Matrix (see codes)	Program Area (see codes)	Locate Containers	REQUESTED LAB ANALYSIS	Notes / Comments
	MW2R	1-24-18	1005	G	GW	UST	3	3	
	MW 5 AR		1030						
	DW 4		1110						
	DW 3		1150						
	Dup 6		1155						

Auto Sampler Data (composite samples only):

Date/Time On: _____ by whom: _____ Meter Reading Before: _____ Meter Reading After: _____ Difference: _____

Date/Time Off: _____ by whom: _____ X _____ (factor): _____

Turnaround Time Requested:		Project Location:		Relinquished By:	Received By:	Date:	Time (24hr):	Samples Received on Ice:
Standard	X	SC	X	Billy Ewin	[signature]	1/26/18	1100	X Y N N/A
*Date Required		NC		[signature]	FEDEX	1/26/18	1700	X Y N N/A
Rush data emailed/faxed by the end of business day on date required. Standard TAT is 7-10 business days.		Other	(specify):	FEDEX	[signature] (FEDEX)	1/31/18	10:20	✓ Y N N/A
								Y N N/A

Chain of Custody Page 7 of 7

Received in lab by: _____

Sample Temp. Upon Receipt in Lab: 1.6 / 3.6 ° (C)

White Copy: Lab original / Canary Copy: File Copy / Pink Copy: Client Copy

NOTE: Relinquishing samples via this Chain of Custody document constitutes client acceptance of Access Analytical terms and conditions.

Analytical Environmental Services, Inc

Date: 6-Feb-18

Client: Crawford Environmental Services
Project: Clouds Exxon
Lab ID: 1801N71

Case Narrative

Sample Receiving Nonconformance:

Sample MW 51 has a collection time of "12:10" listed on the Chain of Custody (COC), however "14:10" was labeled on the vials. Samples were identified according to the COC.

For sample MW 15, one of the three vials was received broken. Laboratory proceeded with analysis using the remaining vials.

Trip Blanks were provided but not listed on the Chain of Custody.

Volatile Organic Compounds Analysis by Method 8260B:

Due to sample matrix, samples 1801N71-004, -012, -045, -046, -050, -051, -052 and -061 required dilution during preparation and/or analysis resulting in elevated reporting limits.

Toluene value for the QC sample 1801N71-004AMS/MSD is "E" qualified indicating estimated value over linear calibration range due to the level of target analyte present in the unspiked sample.

Toluene value for the QC sample 1801N71-061AMS/MSD is "E" qualified indicating estimated value over linear calibration range due to the level of target analyte present in the unspiked sample.

Analytical Environmental Services, Inc **Date:** 5-Feb-18

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 2
Project Name:	Clouds Exxon	**Collection Date:**	1/22/2018 1:30:00 PM
Lab ID:	1801N71-001	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B					**(SW5030B)**				
1,2-Dichloroethane	13		0.37	1.0	ug/L	255082	1	01/31/2018 22:21	NP
Benzene	450		3.7	10	ug/L	255082	10	01/31/2018 22:45	NP
Ethylbenzene	270		2.6	10	ug/L	255082	10	01/31/2018 22:45	NP
Methyl tert-butyl ether	520		4.5	10	ug/L	255082	10	01/31/2018 22:45	NP
Naphthalene	190		9.3	50	ug/L	255082	10	01/31/2018 22:45	NP
Toluene	10		0.39	1.0	ug/L	255082	1	01/31/2018 22:21	NP
Xylenes, Total	960		7.7	10	ug/L	255082	10	01/31/2018 22:45	NP
Surr: 4-Bromofluorobenzene	99.9		0	70-130	%REC	255082	10	01/31/2018 22:45	NP
Surr: 4-Bromofluorobenzene	106		0	70-130	%REC	255082	1	01/31/2018 22:21	NP
Surr: Dibromofluoromethane	98.7		0	70-130	%REC	255082	1	01/31/2018 22:21	NP
Surr: Dibromofluoromethane	101		0	70-130	%REC	255082	10	01/31/2018 22:45	NP
Surr: Toluene-d8	104		0	70-130	%REC	255082	10	01/31/2018 22:45	NP
Surr: Toluene-d8	110		0	70-130	%REC	255082	1	01/31/2018 22:21	NP
Oxygenates SW8260B					**(SW5030B)**				
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	255082	1	01/31/2018 22:21	NP
Ethanol	BRL		43	100	ug/L	255082	1	01/31/2018 22:21	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	255082	1	01/31/2018 22:21	NP
Isopropyl ether	48		3.8	10	ug/L	255082	1	01/31/2018 22:21	NP
tert-Amyl alcohol	430		28	100	ug/L	255082	1	01/31/2018 22:21	NP
tert-Amyl methyl ether	23		3.4	10	ug/L	255082	1	01/31/2018 22:21	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	255082	1	01/31/2018 22:21	NP
tert-Butyl formate	BRL		13	100	ug/L	255082	1	01/31/2018 22:21	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 5-Feb-18

Client:	Crawford Environmental Services	**Client Sample ID:**	DW 1
Project Name:	Clouds Exxon	**Collection Date:**	1/22/2018 1:50:00 PM
Lab ID:	1801N71-002	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	255085	1	01/31/2018 13:22	NP
Benzene	BRL		0.37	1.0	ug/L	255085	1	01/31/2018 13:22	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	255085	1	01/31/2018 13:22	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	255085	1	01/31/2018 13:22	NP
Naphthalene	1.4	J	0.93	5.0	ug/L	255085	1	01/31/2018 13:22	NP
Toluene	BRL		0.39	1.0	ug/L	255085	1	01/31/2018 13:22	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	255085	1	01/31/2018 13:22	NP
Surr: 4-Bromofluorobenzene	88.3		0	70-130	%REC	255085	1	01/31/2018 13:22	NP
Surr: Dibromofluoromethane	105		0	70-130	%REC	255085	1	01/31/2018 13:22	NP
Surr: Toluene-d8	102		0	70-130	%REC	255085	1	01/31/2018 13:22	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	255085	1	01/31/2018 13:22	NP
Ethanol	BRL		43	100	ug/L	255085	1	01/31/2018 13:22	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	255085	1	01/31/2018 13:22	NP
Isopropyl ether	BRL		3.8	10	ug/L	255085	1	01/31/2018 13:22	NP
tert-Amyl alcohol	BRL		28	100	ug/L	255085	1	01/31/2018 13:22	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	255085	1	01/31/2018 13:22	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	255085	1	01/31/2018 13:22	NP
tert-Butyl formate	BRL		13	100	ug/L	255085	1	01/31/2018 13:22	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 5-Feb-18

Client:	Crawford Environmental Services	**Client Sample ID:**	DW 2
Project Name:	Clouds Exxon	**Collection Date:**	1/22/2018 2:30:00 PM
Lab ID:	1801N71-003	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	255082	1	01/31/2018 15:19	NP
Benzene	BRL		0.37	1.0	ug/L	255082	1	01/31/2018 15:19	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	255082	1	01/31/2018 15:19	NP
Methyl tert-butyl ether	3.7		0.45	1.0	ug/L	255082	1	01/31/2018 15:19	NP
Naphthalene	BRL		0.93	5.0	ug/L	255082	1	01/31/2018 15:19	NP
Toluene	BRL		0.39	1.0	ug/L	255082	1	01/31/2018 15:19	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	255082	1	01/31/2018 15:19	NP
Surr: 4-Bromofluorobenzene	94.6		0	70-130	%REC	255082	1	01/31/2018 15:19	NP
Surr: Dibromofluoromethane	108		0	70-130	%REC	255082	1	01/31/2018 15:19	NP
Surr: Toluene-d8	108		0	70-130	%REC	255082	1	01/31/2018 15:19	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	255082	1	01/31/2018 15:19	NP
Ethanol	BRL		43	100	ug/L	255082	1	01/31/2018 15:19	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	255082	1	01/31/2018 15:19	NP
Isopropyl ether	BRL		3.8	10	ug/L	255082	1	01/31/2018 15:19	NP
tert-Amyl alcohol	BRL		28	100	ug/L	255082	1	01/31/2018 15:19	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	255082	1	01/31/2018 15:19	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	255082	1	01/31/2018 15:19	NP
tert-Butyl formate	BRL		13	100	ug/L	255082	1	01/31/2018 15:19	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 5-Feb-18

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 3
Project Name:	Clouds Exxon	**Collection Date:**	1/22/2018 2:40:00 PM
Lab ID:	1801N71-004	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B					**(SW5030B)**				
1,2-Dichloroethane	BRL		37	100	ug/L	255082	100	01/31/2018 11:48	NP
Benzene	8400		37	100	ug/L	255082	100	01/31/2018 11:48	NP
Ethylbenzene	2400		26	100	ug/L	255082	100	01/31/2018 11:48	NP
Methyl tert-butyl ether	1500		45	100	ug/L	255082	100	01/31/2018 11:48	NP
Naphthalene	740		93	500	ug/L	255082	100	01/31/2018 11:48	NP
Toluene	29000		200	500	ug/L	255082	500	02/02/2018 02:45	NP
Xylenes, Total	29000		77	100	ug/L	255082	100	01/31/2018 11:48	NP
Surr: 4-Bromofluorobenzene	98.9		0	70-130	%REC	255082	500	02/02/2018 02:45	NP
Surr: 4-Bromofluorobenzene	102		0	70-130	%REC	255082	100	01/31/2018 11:48	NP
Surr: Dibromofluoromethane	102		0	70-130	%REC	255082	500	02/02/2018 02:45	NP
Surr: Dibromofluoromethane	104		0	70-130	%REC	255082	100	01/31/2018 11:48	NP
Surr: Toluene-d8	104		0	70-130	%REC	255082	500	02/02/2018 02:45	NP
Surr: Toluene-d8	105		0	70-130	%REC	255082	100	01/31/2018 11:48	NP
Oxygenates SW8260B					**(SW5030B)**				
3,3-Dimethyl-1-butanol	BRL		2400	10000	ug/L	255082	100	01/31/2018 11:48	NP
Ethanol	BRL		4300	10000	ug/L	255082	100	01/31/2018 11:48	NP
Ethyl tert-butyl ether	BRL		360	10000	ug/L	255082	100	01/31/2018 11:48	NP
Isopropyl ether	BRL		380	1000	ug/L	255082	100	01/31/2018 11:48	NP
tert-Amyl alcohol	BRL		2800	10000	ug/L	255082	100	01/31/2018 11:48	NP
tert-Amyl methyl ether	370	J	340	1000	ug/L	255082	100	01/31/2018 11:48	NP
tert-Butyl Alcohol	BRL		1300	10000	ug/L	255082	100	01/31/2018 11:48	NP
tert-Butyl formate	BRL		1300	10000	ug/L	255082	100	01/31/2018 11:48	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 5-Feb-18

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 26
Project Name:	Clouds Exxon	**Collection Date:**	1/22/2018 2:50:00 PM
Lab ID:	1801N71-005	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	255082	1	01/31/2018 23:08	NP
Benzene	BRL		0.37	1.0	ug/L	255082	1	01/31/2018 23:08	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	255082	1	01/31/2018 23:08	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	255082	1	01/31/2018 23:08	NP
Naphthalene	BRL		0.93	5.0	ug/L	255082	1	01/31/2018 23:08	NP
Toluene	BRL		0.39	1.0	ug/L	255082	1	01/31/2018 23:08	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	255082	1	01/31/2018 23:08	NP
Surr: 4-Bromofluorobenzene	92.8		0	70-130	%REC	255082	1	01/31/2018 23:08	NP
Surr: Dibromofluoromethane	104		0	70-130	%REC	255082	1	01/31/2018 23:08	NP
Surr: Toluene-d8	104		0	70-130	%REC	255082	1	01/31/2018 23:08	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	255082	1	01/31/2018 23:08	NP
Ethanol	BRL		43	100	ug/L	255082	1	01/31/2018 23:08	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	255082	1	01/31/2018 23:08	NP
Isopropyl ether	BRL		3.8	10	ug/L	255082	1	01/31/2018 23:08	NP
tert-Amyl alcohol	BRL		28	100	ug/L	255082	1	01/31/2018 23:08	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	255082	1	01/31/2018 23:08	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	255082	1	01/31/2018 23:08	NP
tert-Butyl formate	BRL		13	100	ug/L	255082	1	01/31/2018 23:08	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 5-Feb-18

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 8
Project Name:	Clouds Exxon	**Collection Date:**	1/22/2018 3:00:00 PM
Lab ID:	1801N71-006	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	255082	1	01/31/2018 23:32	NP
Benzene	BRL		0.37	1.0	ug/L	255082	1	01/31/2018 23:32	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	255082	1	01/31/2018 23:32	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	255082	1	01/31/2018 23:32	NP
Naphthalene	BRL		0.93	5.0	ug/L	255082	1	01/31/2018 23:32	NP
Toluene	BRL		0.39	1.0	ug/L	255082	1	01/31/2018 23:32	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	255082	1	01/31/2018 23:32	NP
Surr: 4-Bromofluorobenzene	99.5		0	70-130	%REC	255082	1	01/31/2018 23:32	NP
Surr: Dibromofluoromethane	107		0	70-130	%REC	255082	1	01/31/2018 23:32	NP
Surr: Toluene-d8	106		0	70-130	%REC	255082	1	01/31/2018 23:32	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	255082	1	01/31/2018 23:32	NP
Ethanol	BRL		43	100	ug/L	255082	1	01/31/2018 23:32	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	255082	1	01/31/2018 23:32	NP
Isopropyl ether	BRL		3.8	10	ug/L	255082	1	01/31/2018 23:32	NP
tert-Amyl alcohol	BRL		28	100	ug/L	255082	1	01/31/2018 23:32	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	255082	1	01/31/2018 23:32	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	255082	1	01/31/2018 23:32	NP
tert-Butyl formate	BRL		13	100	ug/L	255082	1	01/31/2018 23:32	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 5-Feb-18

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 7
Project Name:	Clouds Exxon	**Collection Date:**	1/22/2018 3:10:00 PM
Lab ID:	1801N71-007	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	255082	1	01/31/2018 23:55	NP
Benzene	BRL		0.37	1.0	ug/L	255082	1	01/31/2018 23:55	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	255082	1	01/31/2018 23:55	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	255082	1	01/31/2018 23:55	NP
Naphthalene	BRL		0.93	5.0	ug/L	255082	1	01/31/2018 23:55	NP
Toluene	BRL		0.39	1.0	ug/L	255082	1	01/31/2018 23:55	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	255082	1	01/31/2018 23:55	NP
Surr: 4-Bromofluorobenzene	94		0	70-130	%REC	255082	1	01/31/2018 23:55	NP
Surr: Dibromofluoromethane	109		0	70-130	%REC	255082	1	01/31/2018 23:55	NP
Surr: Toluene-d8	105		0	70-130	%REC	255082	1	01/31/2018 23:55	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	255082	1	01/31/2018 23:55	NP
Ethanol	BRL		43	100	ug/L	255082	1	01/31/2018 23:55	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	255082	1	01/31/2018 23:55	NP
Isopropyl ether	BRL		3.8	10	ug/L	255082	1	01/31/2018 23:55	NP
tert-Amyl alcohol	BRL		28	100	ug/L	255082	1	01/31/2018 23:55	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	255082	1	01/31/2018 23:55	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	255082	1	01/31/2018 23:55	NP
tert-Butyl formate	BRL		13	100	ug/L	255082	1	01/31/2018 23:55	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 5-Feb-18

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 4
Project Name:	Clouds Exxon	**Collection Date:**	1/22/2018 3:20:00 PM
Lab ID:	1801N71-008	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	255082	1	02/01/2018 00:19	NP
Benzene	BRL		0.37	1.0	ug/L	255082	1	02/01/2018 00:19	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	255082	1	02/01/2018 00:19	NP
Methyl tert-butyl ether	2.2		0.45	1.0	ug/L	255082	1	02/01/2018 00:19	NP
Naphthalene	BRL		0.93	5.0	ug/L	255082	1	02/01/2018 00:19	NP
Toluene	BRL		0.39	1.0	ug/L	255082	1	02/01/2018 00:19	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	255082	1	02/01/2018 00:19	NP
Surr: 4-Bromofluorobenzene	93.9		0	70-130	%REC	255082	1	02/01/2018 00:19	NP
Surr: Dibromofluoromethane	112		0	70-130	%REC	255082	1	02/01/2018 00:19	NP
Surr: Toluene-d8	107		0	70-130	%REC	255082	1	02/01/2018 00:19	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	255082	1	02/01/2018 00:19	NP
Ethanol	BRL		43	100	ug/L	255082	1	02/01/2018 00:19	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	255082	1	02/01/2018 00:19	NP
Isopropyl ether	BRL		3.8	10	ug/L	255082	1	02/01/2018 00:19	NP
tert-Amyl alcohol	BRL		28	100	ug/L	255082	1	02/01/2018 00:19	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	255082	1	02/01/2018 00:19	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	255082	1	02/01/2018 00:19	NP
tert-Butyl formate	BRL		13	100	ug/L	255082	1	02/01/2018 00:19	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 5-Feb-18

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 16
Project Name:	Clouds Exxon	**Collection Date:**	1/22/2018 1:15:00 PM
Lab ID:	1801N71-009	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	255082	1	02/01/2018 00:42	NP
Benzene	BRL		0.37	1.0	ug/L	255082	1	02/01/2018 00:42	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	255082	1	02/01/2018 00:42	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	255082	1	02/01/2018 00:42	NP
Naphthalene	BRL		0.93	5.0	ug/L	255082	1	02/01/2018 00:42	NP
Toluene	BRL		0.39	1.0	ug/L	255082	1	02/01/2018 00:42	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	255082	1	02/01/2018 00:42	NP
Surr: 4-Bromofluorobenzene	97.6		0	70-130	%REC	255082	1	02/01/2018 00:42	NP
Surr: Dibromofluoromethane	113		0	70-130	%REC	255082	1	02/01/2018 00:42	NP
Surr: Toluene-d8	107		0	70-130	%REC	255082	1	02/01/2018 00:42	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	255082	1	02/01/2018 00:42	NP
Ethanol	BRL		43	100	ug/L	255082	1	02/01/2018 00:42	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	255082	1	02/01/2018 00:42	NP
Isopropyl ether	BRL		3.8	10	ug/L	255082	1	02/01/2018 00:42	NP
tert-Amyl alcohol	BRL		28	100	ug/L	255082	1	02/01/2018 00:42	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	255082	1	02/01/2018 00:42	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	255082	1	02/01/2018 00:42	NP
tert-Butyl formate	BRL		13	100	ug/L	255082	1	02/01/2018 00:42	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 5-Feb-18

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 17
Project Name:	Clouds Exxon	**Collection Date:**	1/22/2018 1:05:00 PM
Lab ID:	1801N71-010	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	255082	1	02/01/2018 01:05	NP
Benzene	35		0.37	1.0	ug/L	255082	1	02/01/2018 01:05	NP
Ethylbenzene	430		2.6	10	ug/L	255082	10	02/01/2018 01:28	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	255082	1	02/01/2018 01:05	NP
Naphthalene	440		9.3	50	ug/L	255082	10	02/01/2018 01:28	NP
Toluene	13		0.39	1.0	ug/L	255082	1	02/01/2018 01:05	NP
Xylenes, Total	150		0.77	1.0	ug/L	255082	1	02/01/2018 01:05	NP
Surr: 4-Bromofluorobenzene	102		0	70-130	%REC	255082	10	02/01/2018 01:28	NP
Surr: 4-Bromofluorobenzene	108		0	70-130	%REC	255082	1	02/01/2018 01:05	NP
Surr: Dibromofluoromethane	98.7		0	70-130	%REC	255082	1	02/01/2018 01:05	NP
Surr: Dibromofluoromethane	102		0	70-130	%REC	255082	10	02/01/2018 01:28	NP
Surr: Toluene-d8	104		0	70-130	%REC	255082	10	02/01/2018 01:28	NP
Surr: Toluene-d8	111		0	70-130	%REC	255082	1	02/01/2018 01:05	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	255082	1	02/01/2018 01:05	NP
Ethanol	BRL		43	100	ug/L	255082	1	02/01/2018 01:05	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	255082	1	02/01/2018 01:05	NP
Isopropyl ether	BRL		3.8	10	ug/L	255082	1	02/01/2018 01:05	NP
tert-Amyl alcohol	70	J	28	100	ug/L	255082	1	02/01/2018 01:05	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	255082	1	02/01/2018 01:05	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	255082	1	02/01/2018 01:05	NP
tert-Butyl formate	BRL		13	100	ug/L	255082	1	02/01/2018 01:05	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 5-Feb-18

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 10
Project Name:	Clouds Exxon	**Collection Date:**	1/22/2018 12:20:00 PM
Lab ID:	1801N71-011	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	255082	1	02/01/2018 01:52	NP
Benzene	40		0.37	1.0	ug/L	255082	1	02/01/2018 01:52	NP
Ethylbenzene	94		0.26	1.0	ug/L	255082	1	02/01/2018 01:52	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	255082	1	02/01/2018 01:52	NP
Naphthalene	120		9.3	50	ug/L	255082	10	02/02/2018 03:31	NP
Toluene	15		0.39	1.0	ug/L	255082	1	02/01/2018 01:52	NP
Xylenes, Total	690		7.7	10	ug/L	255082	10	02/02/2018 03:31	NP
Surr: 4-Bromofluorobenzene	99.4		0	70-130	%REC	255082	10	02/02/2018 03:31	NP
Surr: 4-Bromofluorobenzene	107		0	70-130	%REC	255082	1	02/01/2018 01:52	NP
Surr: Dibromofluoromethane	101		0	70-130	%REC	255082	1	02/01/2018 01:52	NP
Surr: Dibromofluoromethane	103		0	70-130	%REC	255082	10	02/02/2018 03:31	NP
Surr: Toluene-d8	106		0	70-130	%REC	255082	10	02/02/2018 03:31	NP
Surr: Toluene-d8	109		0	70-130	%REC	255082	1	02/01/2018 01:52	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	255082	1	02/01/2018 01:52	NP
Ethanol	BRL		43	100	ug/L	255082	1	02/01/2018 01:52	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	255082	1	02/01/2018 01:52	NP
Isopropyl ether	BRL		3.8	10	ug/L	255082	1	02/01/2018 01:52	NP
tert-Amyl alcohol	42	J	28	100	ug/L	255082	1	02/01/2018 01:52	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	255082	1	02/01/2018 01:52	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	255082	1	02/01/2018 01:52	NP
tert-Butyl formate	BRL		13	100	ug/L	255082	1	02/01/2018 01:52	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 5-Feb-18

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 9
Project Name:	Clouds Exxon	**Collection Date:**	1/22/2018 12:55:00 PM
Lab ID:	1801N71-012	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		19	50	ug/L	255082	50	02/01/2018 02:15	NP
Benzene	150		19	50	ug/L	255082	50	02/01/2018 02:15	NP
Ethylbenzene	1700		13	50	ug/L	255082	50	02/01/2018 02:15	NP
Methyl tert-butyl ether	BRL		22	50	ug/L	255082	50	02/01/2018 02:15	NP
Naphthalene	680		46	250	ug/L	255082	50	02/01/2018 02:15	NP
Toluene	5400		20	50	ug/L	255082	50	02/01/2018 02:15	NP
Xylenes, Total	13000		38	50	ug/L	255082	50	02/01/2018 02:15	NP
Surr: 4-Bromofluorobenzene	104		0	70-130	%REC	255082	50	02/01/2018 02:15	NP
Surr: Dibromofluoromethane	103		0	70-130	%REC	255082	50	02/01/2018 02:15	NP
Surr: Toluene-d8	104		0	70-130	%REC	255082	50	02/01/2018 02:15	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		1200	5000	ug/L	255082	50	02/01/2018 02:15	NP
Ethanol	BRL		2200	5000	ug/L	255082	50	02/01/2018 02:15	NP
Ethyl tert-butyl ether	BRL		180	5000	ug/L	255082	50	02/01/2018 02:15	NP
Isopropyl ether	BRL		190	500	ug/L	255082	50	02/01/2018 02:15	NP
tert-Amyl alcohol	BRL		1400	5000	ug/L	255082	50	02/01/2018 02:15	NP
tert-Amyl methyl ether	BRL		170	500	ug/L	255082	50	02/01/2018 02:15	NP
tert-Butyl Alcohol	BRL		670	5000	ug/L	255082	50	02/01/2018 02:15	NP
tert-Butyl formate	BRL		650	5000	ug/L	255082	50	02/01/2018 02:15	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 5-Feb-18

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 56
Project Name:	Clouds Exxon	**Collection Date:**	1/22/2018 11:20:00 AM
Lab ID:	1801N71-013	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	255082	1	02/01/2018 02:39	NP
Benzene	BRL		0.37	1.0	ug/L	255082	1	02/01/2018 02:39	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	255082	1	02/01/2018 02:39	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	255082	1	02/01/2018 02:39	NP
Naphthalene	BRL		0.93	5.0	ug/L	255082	1	02/01/2018 02:39	NP
Toluene	BRL		0.39	1.0	ug/L	255082	1	02/01/2018 02:39	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	255082	1	02/01/2018 02:39	NP
Surr: 4-Bromofluorobenzene	93.9		0	70-130	%REC	255082	1	02/01/2018 02:39	NP
Surr: Dibromofluoromethane	105		0	70-130	%REC	255082	1	02/01/2018 02:39	NP
Surr: Toluene-d8	103		0	70-130	%REC	255082	1	02/01/2018 02:39	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	255082	1	02/01/2018 02:39	NP
Ethanol	BRL		43	100	ug/L	255082	1	02/01/2018 02:39	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	255082	1	02/01/2018 02:39	NP
Isopropyl ether	BRL		3.8	10	ug/L	255082	1	02/01/2018 02:39	NP
tert-Amyl alcohol	BRL		28	100	ug/L	255082	1	02/01/2018 02:39	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	255082	1	02/01/2018 02:39	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	255082	1	02/01/2018 02:39	NP
tert-Butyl formate	BRL		13	100	ug/L	255082	1	02/01/2018 02:39	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 5-Feb-18

Client:	Crawford Environmental Services	**Client Sample ID:**	DW 9
Project Name:	Clouds Exxon	**Collection Date:**	1/22/2018 11:00:00 AM
Lab ID:	1801N71-014	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	255082	1	02/01/2018 03:02	NP
Benzene	BRL		0.37	1.0	ug/L	255082	1	02/01/2018 03:02	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	255082	1	02/01/2018 03:02	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	255082	1	02/01/2018 03:02	NP
Naphthalene	BRL		0.93	5.0	ug/L	255082	1	02/01/2018 03:02	NP
Toluene	BRL		0.39	1.0	ug/L	255082	1	02/01/2018 03:02	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	255082	1	02/01/2018 03:02	NP
Surr: 4-Bromofluorobenzene	96.6		0	70-130	%REC	255082	1	02/01/2018 03:02	NP
Surr: Dibromofluoromethane	105		0	70-130	%REC	255082	1	02/01/2018 03:02	NP
Surr: Toluene-d8	103		0	70-130	%REC	255082	1	02/01/2018 03:02	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	255082	1	02/01/2018 03:02	NP
Ethanol	BRL		43	100	ug/L	255082	1	02/01/2018 03:02	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	255082	1	02/01/2018 03:02	NP
Isopropyl ether	BRL		3.8	10	ug/L	255082	1	02/01/2018 03:02	NP
tert-Amyl alcohol	BRL		28	100	ug/L	255082	1	02/01/2018 03:02	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	255082	1	02/01/2018 03:02	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	255082	1	02/01/2018 03:02	NP
tert-Butyl formate	BRL		13	100	ug/L	255082	1	02/01/2018 03:02	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 5-Feb-18

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 59
Project Name:	Clouds Exxon	**Collection Date:**	1/22/2018 11:10:00 AM
Lab ID:	1801N71-015	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	255082	1	02/02/2018 02:21	NP
Benzene	2500		19	50	ug/L	255082	50	02/01/2018 03:26	NP
Ethylbenzene	1800		2.6	10	ug/L	255082	10	02/02/2018 03:08	NP
Methyl tert-butyl ether	35		0.45	1.0	ug/L	255082	1	02/02/2018 02:21	NP
Naphthalene	530		9.3	50	ug/L	255082	10	02/02/2018 03:08	NP
Toluene	130		0.39	1.0	ug/L	255082	1	02/02/2018 02:21	NP
Xylenes, Total	3100		7.7	10	ug/L	255082	10	02/02/2018 03:08	NP
Surr: 4-Bromofluorobenzene	102		0	70-130	%REC	255082	50	02/01/2018 03:26	NP
Surr: 4-Bromofluorobenzene	101		0	70-130	%REC	255082	10	02/02/2018 03:08	NP
Surr: 4-Bromofluorobenzene	108		0	70-130	%REC	255082	1	02/02/2018 02:21	NP
Surr: Dibromofluoromethane	104		0	70-130	%REC	255082	50	02/01/2018 03:26	NP
Surr: Dibromofluoromethane	98.7		0	70-130	%REC	255082	1	02/02/2018 02:21	NP
Surr: Dibromofluoromethane	103		0	70-130	%REC	255082	10	02/02/2018 03:08	NP
Surr: Toluene-d8	105		0	70-130	%REC	255082	50	02/01/2018 03:26	NP
Surr: Toluene-d8	109		0	70-130	%REC	255082	1	02/02/2018 02:21	NP
Surr: Toluene-d8	108		0	70-130	%REC	255082	10	02/02/2018 03:08	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	255082	1	02/02/2018 02:21	NP
Ethanol	BRL		43	100	ug/L	255082	1	02/02/2018 02:21	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	255082	1	02/02/2018 02:21	NP
Isopropyl ether	130		3.8	10	ug/L	255082	1	02/02/2018 02:21	NP
tert-Amyl alcohol	4700		280	1000	ug/L	255082	10	02/02/2018 03:08	NP
tert-Amyl methyl ether	21		3.4	10	ug/L	255082	1	02/02/2018 02:21	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	255082	1	02/02/2018 02:21	NP
tert-Butyl formate	BRL		13	100	ug/L	255082	1	02/02/2018 02:21	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 5-Feb-18

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 55
Project Name:	Clouds Exxon	**Collection Date:**	1/22/2018 12:00:00 PM
Lab ID:	1801N71-016	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B					**(SW5030B)**				
1,2-Dichloroethane	1.5		0.37	1.0	ug/L	255082	1	02/01/2018 03:49	NP
Benzene	720		3.7	10	ug/L	255082	10	02/01/2018 04:13	NP
Ethylbenzene	710		2.6	10	ug/L	255082	10	02/01/2018 04:13	NP
Methyl tert-butyl ether	130		0.45	1.0	ug/L	255082	1	02/01/2018 03:49	NP
Naphthalene	300		9.3	50	ug/L	255082	10	02/01/2018 04:13	NP
Toluene	100		0.39	1.0	ug/L	255082	1	02/01/2018 03:49	NP
Xylenes, Total	880		7.7	10	ug/L	255082	10	02/01/2018 04:13	NP
Surr: 4-Bromofluorobenzene	99.5		0	70-130	%REC	255082	10	02/01/2018 04:13	NP
Surr: 4-Bromofluorobenzene	105		0	70-130	%REC	255082	1	02/01/2018 03:49	NP
Surr: Dibromofluoromethane	100		0	70-130	%REC	255082	1	02/01/2018 03:49	NP
Surr: Dibromofluoromethane	102		0	70-130	%REC	255082	10	02/01/2018 04:13	NP
Surr: Toluene-d8	106		0	70-130	%REC	255082	10	02/01/2018 04:13	NP
Surr: Toluene-d8	108		0	70-130	%REC	255082	1	02/01/2018 03:49	NP
Oxygenates SW8260B					**(SW5030B)**				
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	255082	1	02/01/2018 03:49	NP
Ethanol	BRL		43	100	ug/L	255082	1	02/01/2018 03:49	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	255082	1	02/01/2018 03:49	NP
Isopropyl ether	50		3.8	10	ug/L	255082	1	02/01/2018 03:49	NP
tert-Amyl alcohol	2800		28	100	ug/L	255082	1	02/01/2018 03:49	NP
tert-Amyl methyl ether	11		3.4	10	ug/L	255082	1	02/01/2018 03:49	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	255082	1	02/01/2018 03:49	NP
tert-Butyl formate	BRL		13	100	ug/L	255082	1	02/01/2018 03:49	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 5-Feb-18

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 53
Project Name:	Clouds Exxon	**Collection Date:**	1/22/2018 12:10:00 PM
Lab ID:	1801N71-017	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	255082	1	02/01/2018 04:36	NP
Benzene	BRL		0.37	1.0	ug/L	255082	1	02/01/2018 04:36	NP
Ethylbenzene	0.36	J	0.26	1.0	ug/L	255082	1	02/01/2018 04:36	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	255082	1	02/01/2018 04:36	NP
Naphthalene	BRL		0.93	5.0	ug/L	255082	1	02/01/2018 04:36	NP
Toluene	BRL		0.39	1.0	ug/L	255082	1	02/01/2018 04:36	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	255082	1	02/01/2018 04:36	NP
Surr: 4-Bromofluorobenzene	92		0	70-130	%REC	255082	1	02/01/2018 04:36	NP
Surr: Dibromofluoromethane	105		0	70-130	%REC	255082	1	02/01/2018 04:36	NP
Surr: Toluene-d8	104		0	70-130	%REC	255082	1	02/01/2018 04:36	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	255082	1	02/01/2018 04:36	NP
Ethanol	BRL		43	100	ug/L	255082	1	02/01/2018 04:36	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	255082	1	02/01/2018 04:36	NP
Isopropyl ether	BRL		3.8	10	ug/L	255082	1	02/01/2018 04:36	NP
tert-Amyl alcohol	BRL		28	100	ug/L	255082	1	02/01/2018 04:36	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	255082	1	02/01/2018 04:36	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	255082	1	02/01/2018 04:36	NP
tert-Butyl formate	BRL		13	100	ug/L	255082	1	02/01/2018 04:36	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 5-Feb-18

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 15
Project Name:	Clouds Exxon	**Collection Date:**	1/22/2018 12:40:00 PM
Lab ID:	1801N71-018	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	255082	1	02/02/2018 13:45	NP
Benzene	0.74	J	0.37	1.0	ug/L	255082	1	02/02/2018 13:45	NP
Ethylbenzene	250		5.1	20	ug/L	255082	20	02/01/2018 04:59	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	255082	1	02/02/2018 13:45	NP
Naphthalene	870		19	100	ug/L	255082	20	02/01/2018 04:59	NP
Toluene	490		7.9	20	ug/L	255082	20	02/01/2018 04:59	NP
Xylenes, Total	6500		15	20	ug/L	255082	20	02/01/2018 04:59	NP
Surr: 4-Bromofluorobenzene	104		0	70-130	%REC	255082	20	02/01/2018 04:59	NP
Surr: 4-Bromofluorobenzene	104		0	70-130	%REC	255082	1	02/02/2018 13:45	NP
Surr: Dibromofluoromethane	105		0	70-130	%REC	255082	20	02/01/2018 04:59	NP
Surr: Dibromofluoromethane	96		0	70-130	%REC	255082	1	02/02/2018 13:45	NP
Surr: Toluene-d8	109		0	70-130	%REC	255082	20	02/01/2018 04:59	NP
Surr: Toluene-d8	108		0	70-130	%REC	255082	1	02/02/2018 13:45	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	255082	1	02/02/2018 13:45	NP
Ethanol	BRL		43	100	ug/L	255082	1	02/02/2018 13:45	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	255082	1	02/02/2018 13:45	NP
Isopropyl ether	BRL		3.8	10	ug/L	255082	1	02/02/2018 13:45	NP
tert-Amyl alcohol	100		28	100	ug/L	255082	1	02/02/2018 13:45	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	255082	1	02/02/2018 13:45	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	255082	1	02/02/2018 13:45	NP
tert-Butyl formate	BRL		13	100	ug/L	255082	1	02/02/2018 13:45	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 5-Feb-18

Client:	Crawford Environmental Services	**Client Sample ID:**	DUP 1
Project Name:	Clouds Exxon	**Collection Date:**	1/22/2018 12:45:00 PM
Lab ID:	1801N71-019	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	255082	1	02/02/2018 14:09	NP
Benzene	0.76	J	0.37	1.0	ug/L	255082	1	02/02/2018 14:09	NP
Ethylbenzene	220		5.1	20	ug/L	255082	20	02/01/2018 05:23	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	255082	1	02/02/2018 14:09	NP
Naphthalene	720		19	100	ug/L	255082	20	02/01/2018 05:23	NP
Toluene	480		7.9	20	ug/L	255082	20	02/01/2018 05:23	NP
Xylenes, Total	6400		15	20	ug/L	255082	20	02/01/2018 05:23	NP
Surr: 4-Bromofluorobenzene	102		0	70-130	%REC	255082	20	02/01/2018 05:23	NP
Surr: 4-Bromofluorobenzene	108		0	70-130	%REC	255082	1	02/02/2018 14:09	NP
Surr: Dibromofluoromethane	101		0	70-130	%REC	255082	20	02/01/2018 05:23	NP
Surr: Dibromofluoromethane	95.6		0	70-130	%REC	255082	1	02/02/2018 14:09	NP
Surr: Toluene-d8	106		0	70-130	%REC	255082	20	02/01/2018 05:23	NP
Surr: Toluene-d8	107		0	70-130	%REC	255082	1	02/02/2018 14:09	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	255082	1	02/02/2018 14:09	NP
Ethanol	BRL		43	100	ug/L	255082	1	02/02/2018 14:09	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	255082	1	02/02/2018 14:09	NP
Isopropyl ether	BRL		3.8	10	ug/L	255082	1	02/02/2018 14:09	NP
tert-Amyl alcohol	120		28	100	ug/L	255082	1	02/02/2018 14:09	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	255082	1	02/02/2018 14:09	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	255082	1	02/02/2018 14:09	NP
tert-Butyl formate	BRL		13	100	ug/L	255082	1	02/02/2018 14:09	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 5-Feb-18

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 6
Project Name:	Clouds Exxon	**Collection Date:**	1/22/2018 3:30:00 PM
Lab ID:	1801N71-020	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	255082	1	02/01/2018 05:46	NP
Benzene	BRL		0.37	1.0	ug/L	255082	1	02/01/2018 05:46	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	255082	1	02/01/2018 05:46	NP
Methyl tert-butyl ether	13		0.45	1.0	ug/L	255082	1	02/01/2018 05:46	NP
Naphthalene	BRL		0.93	5.0	ug/L	255082	1	02/01/2018 05:46	NP
Toluene	BRL		0.39	1.0	ug/L	255082	1	02/01/2018 05:46	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	255082	1	02/01/2018 05:46	NP
Surr: 4-Bromofluorobenzene	93.7		0	70-130	%REC	255082	1	02/01/2018 05:46	NP
Surr: Dibromofluoromethane	105		0	70-130	%REC	255082	1	02/01/2018 05:46	NP
Surr: Toluene-d8	104		0	70-130	%REC	255082	1	02/01/2018 05:46	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	255082	1	02/01/2018 05:46	NP
Ethanol	BRL		43	100	ug/L	255082	1	02/01/2018 05:46	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	255082	1	02/01/2018 05:46	NP
Isopropyl ether	BRL		3.8	10	ug/L	255082	1	02/01/2018 05:46	NP
tert-Amyl alcohol	BRL		28	100	ug/L	255082	1	02/01/2018 05:46	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	255082	1	02/01/2018 05:46	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	255082	1	02/01/2018 05:46	NP
tert-Butyl formate	BRL		13	100	ug/L	255082	1	02/01/2018 05:46	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 5-Feb-18

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 33
Project Name:	Clouds Exxon	**Collection Date:**	1/23/2018 12:25:00 PM
Lab ID:	1801N71-021	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	255082	1	02/01/2018 06:09	NP
Benzene	310		3.7	10	ug/L	255082	10	02/01/2018 06:33	NP
Ethylbenzene	2100		26	100	ug/L	255082	100	02/02/2018 12:08	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	255082	1	02/01/2018 06:09	NP
Naphthalene	940		9.3	50	ug/L	255082	10	02/01/2018 06:33	NP
Toluene	4100		39	100	ug/L	255082	100	02/02/2018 12:08	NP
Xylenes, Total	11000		77	100	ug/L	255082	100	02/02/2018 12:08	NP
Surr: 4-Bromofluorobenzene	100		0	70-130	%REC	255082	100	02/02/2018 12:08	NP
Surr: 4-Bromofluorobenzene	103		0	70-130	%REC	255082	10	02/01/2018 06:33	NP
Surr: 4-Bromofluorobenzene	112		0	70-130	%REC	255082	1	02/01/2018 06:09	NP
Surr: Dibromofluoromethane	95.9		0	70-130	%REC	255082	1	02/01/2018 06:09	NP
Surr: Dibromofluoromethane	96.2		0	70-130	%REC	255082	10	02/01/2018 06:33	NP
Surr: Dibromofluoromethane	103		0	70-130	%REC	255082	100	02/02/2018 12:08	NP
Surr: Toluene-d8	107		0	70-130	%REC	255082	1	02/01/2018 06:09	NP
Surr: Toluene-d8	104		0	70-130	%REC	255082	10	02/01/2018 06:33	NP
Surr: Toluene-d8	106		0	70-130	%REC	255082	100	02/02/2018 12:08	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	255082	1	02/01/2018 06:09	NP
Ethanol	BRL		43	100	ug/L	255082	1	02/01/2018 06:09	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	255082	1	02/01/2018 06:09	NP
Isopropyl ether	8.5	J	3.8	10	ug/L	255082	1	02/01/2018 06:09	NP
tert-Amyl alcohol	3600		28	100	ug/L	255082	1	02/01/2018 06:09	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	255082	1	02/01/2018 06:09	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	255082	1	02/01/2018 06:09	NP
tert-Butyl formate	BRL		13	100	ug/L	255082	1	02/01/2018 06:09	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 5-Feb-18

Client:	Crawford Environmental Services	**Client Sample ID:**	DUP 4
Project Name:	Clouds Exxon	**Collection Date:**	1/23/2018 12:30:00 PM
Lab ID:	1801N71-022	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B					(SW5030B)				
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	255085	1	02/01/2018 07:44	NP
Benzene	390		3.7	10	ug/L	255085	10	02/01/2018 08:08	NP
Ethylbenzene	2200		26	100	ug/L	255085	100	02/02/2018 16:31	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	255085	1	02/01/2018 07:44	NP
Naphthalene	1000		9.3	50	ug/L	255085	10	02/01/2018 08:08	NP
Toluene	4500		39	100	ug/L	255085	100	02/02/2018 16:31	NP
Xylenes, Total	12000		77	100	ug/L	255085	100	02/02/2018 16:31	NP
Surr: 4-Bromofluorobenzene	99.2		0	70-130	%REC	255085	100	02/02/2018 16:31	NP
Surr: 4-Bromofluorobenzene	101		0	70-130	%REC	255085	10	02/01/2018 08:08	NP
Surr: 4-Bromofluorobenzene	108		0	70-130	%REC	255085	1	02/01/2018 07:44	NP
Surr: Dibromofluoromethane	95.4		0	70-130	%REC	255085	1	02/01/2018 07:44	NP
Surr: Dibromofluoromethane	97.9		0	70-130	%REC	255085	10	02/01/2018 08:08	NP
Surr: Dibromofluoromethane	104		0	70-130	%REC	255085	100	02/02/2018 16:31	NP
Surr: Toluene-d8	105		0	70-130	%REC	255085	10	02/01/2018 08:08	NP
Surr: Toluene-d8	106		0	70-130	%REC	255085	100	02/02/2018 16:31	NP
Surr: Toluene-d8	106		0	70-130	%REC	255085	1	02/01/2018 07:44	NP
Oxygenates SW8260B					(SW5030B)				
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	255085	1	02/01/2018 07:44	NP
Ethanol	BRL		43	100	ug/L	255085	1	02/01/2018 07:44	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	255085	1	02/01/2018 07:44	NP
Isopropyl ether	7.4	J	3.8	10	ug/L	255085	1	02/01/2018 07:44	NP
tert-Amyl alcohol	3300		28	100	ug/L	255085	1	02/01/2018 07:44	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	255085	1	02/01/2018 07:44	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	255085	1	02/01/2018 07:44	NP
tert-Butyl formate	BRL		13	100	ug/L	255085	1	02/01/2018 07:44	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 5-Feb-18

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 46
Project Name:	Clouds Exxon	**Collection Date:**	1/23/2018 8:00:00 AM
Lab ID:	1801N71-023	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	255085	1	02/02/2018 17:18	NP
Benzene	BRL		0.37	1.0	ug/L	255085	1	02/02/2018 17:18	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	255085	1	02/02/2018 17:18	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	255085	1	02/02/2018 17:18	NP
Naphthalene	BRL		0.93	5.0	ug/L	255085	1	02/02/2018 17:18	NP
Toluene	BRL		0.39	1.0	ug/L	255085	1	02/02/2018 17:18	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	255085	1	02/02/2018 17:18	NP
Surr: 4-Bromofluorobenzene	91.7		0	70-130	%REC	255085	1	02/02/2018 17:18	NP
Surr: Dibromofluoromethane	104		0	70-130	%REC	255085	1	02/02/2018 17:18	NP
Surr: Toluene-d8	103		0	70-130	%REC	255085	1	02/02/2018 17:18	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	255085	1	02/01/2018 06:57	NP
Ethanol	BRL		43	100	ug/L	255085	1	02/01/2018 06:57	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	255085	1	02/01/2018 06:57	NP
Isopropyl ether	BRL		3.8	10	ug/L	255085	1	02/01/2018 06:57	NP
tert-Amyl alcohol	BRL		28	100	ug/L	255085	1	02/01/2018 06:57	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	255085	1	02/01/2018 06:57	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	255085	1	02/01/2018 06:57	NP
tert-Butyl formate	BRL		13	100	ug/L	255085	1	02/01/2018 06:57	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 5-Feb-18

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 36
Project Name:	Clouds Exxon	**Collection Date:**	1/23/2018 12:45:00 PM
Lab ID:	1801N71-024	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	255085	1	02/02/2018 17:42	NP
Benzene	BRL		0.37	1.0	ug/L	255085	1	02/02/2018 17:42	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	255085	1	02/02/2018 17:42	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	255085	1	02/02/2018 17:42	NP
Naphthalene	BRL		0.93	5.0	ug/L	255085	1	02/02/2018 17:42	NP
Toluene	BRL		0.39	1.0	ug/L	255085	1	02/02/2018 17:42	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	255085	1	02/02/2018 17:42	NP
Surr: 4-Bromofluorobenzene	92.8		0	70-130	%REC	255085	1	02/02/2018 17:42	NP
Surr: Dibromofluoromethane	104		0	70-130	%REC	255085	1	02/02/2018 17:42	NP
Surr: Toluene-d8	106		0	70-130	%REC	255085	1	02/02/2018 17:42	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	255085	1	02/01/2018 07:21	NP
Ethanol	BRL		43	100	ug/L	255085	1	02/01/2018 07:21	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	255085	1	02/01/2018 07:21	NP
Isopropyl ether	BRL		3.8	10	ug/L	255085	1	02/01/2018 07:21	NP
tert-Amyl alcohol	BRL		28	100	ug/L	255085	1	02/01/2018 07:21	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	255085	1	02/01/2018 07:21	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	255085	1	02/01/2018 07:21	NP
tert-Butyl formate	BRL		13	100	ug/L	255085	1	02/01/2018 07:21	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 5-Feb-18

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 41
Project Name:	Clouds Exxon	**Collection Date:**	1/23/2018 9:40:00 AM
Lab ID:	1801N71-025	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	255085	1	02/01/2018 08:32	NP
Benzene	10		0.37	1.0	ug/L	255085	1	02/01/2018 08:32	NP
Ethylbenzene	210		2.6	10	ug/L	255085	10	02/02/2018 16:55	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	255085	1	02/01/2018 08:32	NP
Naphthalene	110		0.93	5.0	ug/L	255085	1	02/01/2018 08:32	NP
Toluene	330		3.9	10	ug/L	255085	10	02/02/2018 16:55	NP
Xylenes, Total	680		7.7	10	ug/L	255085	10	02/02/2018 16:55	NP
Surr: 4-Bromofluorobenzene	101		0	70-130	%REC	255085	10	02/02/2018 16:55	NP
Surr: 4-Bromofluorobenzene	104		0	70-130	%REC	255085	1	02/01/2018 08:32	NP
Surr: Dibromofluoromethane	97.5		0	70-130	%REC	255085	1	02/01/2018 08:32	NP
Surr: Dibromofluoromethane	102		0	70-130	%REC	255085	10	02/02/2018 16:55	NP
Surr: Toluene-d8	107		0	70-130	%REC	255085	1	02/01/2018 08:32	NP
Surr: Toluene-d8	107		0	70-130	%REC	255085	10	02/02/2018 16:55	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	255085	1	02/01/2018 08:32	NP
Ethanol	BRL		43	100	ug/L	255085	1	02/01/2018 08:32	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	255085	1	02/01/2018 08:32	NP
Isopropyl ether	BRL		3.8	10	ug/L	255085	1	02/01/2018 08:32	NP
tert-Amyl alcohol	65	J	28	100	ug/L	255085	1	02/01/2018 08:32	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	255085	1	02/01/2018 08:32	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	255085	1	02/01/2018 08:32	NP
tert-Butyl formate	BRL		13	100	ug/L	255085	1	02/01/2018 08:32	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 5-Feb-18

Client:	Crawford Environmental Services	**Client Sample ID:**	DUP 3
Project Name:	Clouds Exxon	**Collection Date:**	1/23/2018 9:45:00 AM
Lab ID:	1801N71-026	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B					**(SW5030B)**				
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	255085	1	02/01/2018 08:56	NP
Benzene	10		0.37	1.0	ug/L	255085	1	02/01/2018 08:56	NP
Ethylbenzene	200		2.6	10	ug/L	255085	10	02/02/2018 18:05	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	255085	1	02/01/2018 08:56	NP
Naphthalene	110		0.93	5.0	ug/L	255085	1	02/01/2018 08:56	NP
Toluene	330		3.9	10	ug/L	255085	10	02/02/2018 18:05	NP
Xylenes, Total	650		7.7	10	ug/L	255085	10	02/02/2018 18:05	NP
Surr: 4-Bromofluorobenzene	98.5		0	70-130	%REC	255085	10	02/02/2018 18:05	NP
Surr: 4-Bromofluorobenzene	103		0	70-130	%REC	255085	1	02/01/2018 08:56	NP
Surr: Dibromofluoromethane	103		0	70-130	%REC	255085	10	02/02/2018 18:05	NP
Surr: Dibromofluoromethane	97.6		0	70-130	%REC	255085	1	02/01/2018 08:56	NP
Surr: Toluene-d8	106		0	70-130	%REC	255085	1	02/01/2018 08:56	NP
Surr: Toluene-d8	108		0	70-130	%REC	255085	10	02/02/2018 18:05	NP
Oxygenates SW8260B					**(SW5030B)**				
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	255085	1	02/01/2018 08:56	NP
Ethanol	BRL		43	100	ug/L	255085	1	02/01/2018 08:56	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	255085	1	02/01/2018 08:56	NP
Isopropyl ether	BRL		3.8	10	ug/L	255085	1	02/01/2018 08:56	NP
tert-Amyl alcohol	53	J	28	100	ug/L	255085	1	02/01/2018 08:56	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	255085	1	02/01/2018 08:56	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	255085	1	02/01/2018 08:56	NP
tert-Butyl formate	BRL		13	100	ug/L	255085	1	02/01/2018 08:56	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 5-Feb-18

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 40
Project Name:	Clouds Exxon	**Collection Date:**	1/23/2018 9:30:00 AM
Lab ID:	1801N71-027	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	255085	1	02/01/2018 16:06	NP
Benzene	1.5		0.37	1.0	ug/L	255085	1	02/01/2018 16:06	NP
Ethylbenzene	9.8		0.26	1.0	ug/L	255085	1	02/01/2018 16:06	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	255085	1	02/01/2018 16:06	NP
Naphthalene	6.1		0.93	5.0	ug/L	255085	1	02/01/2018 16:06	NP
Toluene	BRL		0.39	1.0	ug/L	255085	1	02/01/2018 16:06	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	255085	1	02/01/2018 16:06	NP
Surr: 4-Bromofluorobenzene	92.8		0	70-130	%REC	255085	1	02/01/2018 16:06	NP
Surr: Dibromofluoromethane	113		0	70-130	%REC	255085	1	02/01/2018 16:06	NP
Surr: Toluene-d8	108		0	70-130	%REC	255085	1	02/01/2018 16:06	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	255085	1	02/01/2018 16:06	NP
Ethanol	BRL		43	100	ug/L	255085	1	02/01/2018 16:06	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	255085	1	02/01/2018 16:06	NP
Isopropyl ether	BRL		3.8	10	ug/L	255085	1	02/01/2018 16:06	NP
tert-Amyl alcohol	BRL		28	100	ug/L	255085	1	02/01/2018 16:06	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	255085	1	02/01/2018 16:06	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	255085	1	02/01/2018 16:06	NP
tert-Butyl formate	BRL		13	100	ug/L	255085	1	02/01/2018 16:06	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 5-Feb-18

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 37
Project Name:	Clouds Exxon	**Collection Date:**	1/23/2018 12:00:00 PM
Lab ID:	1801N71-028	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	255085	1	02/01/2018 16:33	NP
Benzene	BRL		0.37	1.0	ug/L	255085	1	02/01/2018 16:33	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	255085	1	02/01/2018 16:33	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	255085	1	02/01/2018 16:33	NP
Naphthalene	BRL		0.93	5.0	ug/L	255085	1	02/01/2018 16:33	NP
Toluene	BRL		0.39	1.0	ug/L	255085	1	02/01/2018 16:33	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	255085	1	02/01/2018 16:33	NP
Surr: 4-Bromofluorobenzene	92.7		0	70-130	%REC	255085	1	02/01/2018 16:33	NP
Surr: Dibromofluoromethane	110		0	70-130	%REC	255085	1	02/01/2018 16:33	NP
Surr: Toluene-d8	106		0	70-130	%REC	255085	1	02/01/2018 16:33	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	255085	1	02/01/2018 16:33	NP
Ethanol	BRL		43	100	ug/L	255085	1	02/01/2018 16:33	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	255085	1	02/01/2018 16:33	NP
Isopropyl ether	BRL		3.8	10	ug/L	255085	1	02/01/2018 16:33	NP
tert-Amyl alcohol	BRL		28	100	ug/L	255085	1	02/01/2018 16:33	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	255085	1	02/01/2018 16:33	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	255085	1	02/01/2018 16:33	NP
tert-Butyl formate	BRL		13	100	ug/L	255085	1	02/01/2018 16:33	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 5-Feb-18

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 31
Project Name:	Clouds Exxon	**Collection Date:**	1/23/2018 11:45:00 AM
Lab ID:	1801N71-029	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	255085	1	02/01/2018 16:56	NP
Benzene	8.5		0.37	1.0	ug/L	255085	1	02/01/2018 16:56	NP
Ethylbenzene	6.9		0.26	1.0	ug/L	255085	1	02/01/2018 16:56	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	255085	1	02/01/2018 16:56	NP
Naphthalene	130		9.3	50	ug/L	255085	10	02/01/2018 17:20	NP
Toluene	BRL		0.39	1.0	ug/L	255085	1	02/01/2018 16:56	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	255085	1	02/01/2018 16:56	NP
Surr: 4-Bromofluorobenzene	96.2		0	70-130	%REC	255085	10	02/01/2018 17:20	NP
Surr: 4-Bromofluorobenzene	104		0	70-130	%REC	255085	1	02/01/2018 16:56	NP
Surr: Dibromofluoromethane	107		0	70-130	%REC	255085	1	02/01/2018 16:56	NP
Surr: Dibromofluoromethane	106		0	70-130	%REC	255085	10	02/01/2018 17:20	NP
Surr: Toluene-d8	108		0	70-130	%REC	255085	10	02/01/2018 17:20	NP
Surr: Toluene-d8	115		0	70-130	%REC	255085	1	02/01/2018 16:56	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	255085	1	02/01/2018 16:56	NP
Ethanol	BRL		43	100	ug/L	255085	1	02/01/2018 16:56	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	255085	1	02/01/2018 16:56	NP
Isopropyl ether	BRL		3.8	10	ug/L	255085	1	02/01/2018 16:56	NP
tert-Amyl alcohol	130		28	100	ug/L	255085	1	02/01/2018 16:56	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	255085	1	02/01/2018 16:56	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	255085	1	02/01/2018 16:56	NP
tert-Butyl formate	BRL		13	100	ug/L	255085	1	02/01/2018 16:56	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 5-Feb-18

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 62
Project Name:	Clouds Exxon	**Collection Date:**	1/23/2018 11:30:00 AM
Lab ID:	1801N71-030	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	255085	1	02/01/2018 17:44	NP
Benzene	33		0.37	1.0	ug/L	255085	1	02/01/2018 17:44	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	255085	1	02/01/2018 17:44	NP
Methyl tert-butyl ether	2.4		0.45	1.0	ug/L	255085	1	02/01/2018 17:44	NP
Naphthalene	46		0.93	5.0	ug/L	255085	1	02/01/2018 17:44	NP
Toluene	BRL		0.39	1.0	ug/L	255085	1	02/01/2018 17:44	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	255085	1	02/01/2018 17:44	NP
Surr: 4-Bromofluorobenzene	94.1		0	70-130	%REC	255085	1	02/01/2018 17:44	NP
Surr: Dibromofluoromethane	102		0	70-130	%REC	255085	1	02/01/2018 17:44	NP
Surr: Toluene-d8	107		0	70-130	%REC	255085	1	02/01/2018 17:44	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	255085	1	02/01/2018 17:44	NP
Ethanol	BRL		43	100	ug/L	255085	1	02/01/2018 17:44	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	255085	1	02/01/2018 17:44	NP
Isopropyl ether	BRL		3.8	10	ug/L	255085	1	02/01/2018 17:44	NP
tert-Amyl alcohol	770		28	100	ug/L	255085	1	02/01/2018 17:44	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	255085	1	02/01/2018 17:44	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	255085	1	02/01/2018 17:44	NP
tert-Butyl formate	BRL		13	100	ug/L	255085	1	02/01/2018 17:44	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 5-Feb-18

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 63
Project Name:	Clouds Exxon	**Collection Date:**	1/23/2018 9:55:00 AM
Lab ID:	1801N71-031	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	255085	1	02/01/2018 18:07	NP
Benzene	BRL		0.37	1.0	ug/L	255085	1	02/01/2018 18:07	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	255085	1	02/01/2018 18:07	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	255085	1	02/01/2018 18:07	NP
Naphthalene	BRL		0.93	5.0	ug/L	255085	1	02/01/2018 18:07	NP
Toluene	BRL		0.39	1.0	ug/L	255085	1	02/01/2018 18:07	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	255085	1	02/01/2018 18:07	NP
Surr: 4-Bromofluorobenzene	89.5		0	70-130	%REC	255085	1	02/01/2018 18:07	NP
Surr: Dibromofluoromethane	108		0	70-130	%REC	255085	1	02/01/2018 18:07	NP
Surr: Toluene-d8	106		0	70-130	%REC	255085	1	02/01/2018 18:07	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	255085	1	02/01/2018 18:07	NP
Ethanol	BRL		43	100	ug/L	255085	1	02/01/2018 18:07	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	255085	1	02/01/2018 18:07	NP
Isopropyl ether	BRL		3.8	10	ug/L	255085	1	02/01/2018 18:07	NP
tert-Amyl alcohol	BRL		28	100	ug/L	255085	1	02/01/2018 18:07	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	255085	1	02/01/2018 18:07	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	255085	1	02/01/2018 18:07	NP
tert-Butyl formate	BRL		13	100	ug/L	255085	1	02/01/2018 18:07	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 5-Feb-18

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 70
Project Name:	Clouds Exxon	**Collection Date:**	1/23/2018 10:45:00 AM
Lab ID:	1801N71-032	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	255085	1	02/01/2018 18:31	NP
Benzene	BRL		0.37	1.0	ug/L	255085	1	02/01/2018 18:31	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	255085	1	02/01/2018 18:31	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	255085	1	02/01/2018 18:31	NP
Naphthalene	BRL		0.93	5.0	ug/L	255085	1	02/01/2018 18:31	NP
Toluene	BRL		0.39	1.0	ug/L	255085	1	02/01/2018 18:31	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	255085	1	02/01/2018 18:31	NP
Surr: 4-Bromofluorobenzene	90.5		0	70-130	%REC	255085	1	02/01/2018 18:31	NP
Surr: Dibromofluoromethane	111		0	70-130	%REC	255085	1	02/01/2018 18:31	NP
Surr: Toluene-d8	106		0	70-130	%REC	255085	1	02/01/2018 18:31	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	255085	1	02/01/2018 18:31	NP
Ethanol	BRL		43	100	ug/L	255085	1	02/01/2018 18:31	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	255085	1	02/01/2018 18:31	NP
Isopropyl ether	BRL		3.8	10	ug/L	255085	1	02/01/2018 18:31	NP
tert-Amyl alcohol	BRL		28	100	ug/L	255085	1	02/01/2018 18:31	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	255085	1	02/01/2018 18:31	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	255085	1	02/01/2018 18:31	NP
tert-Butyl formate	BRL		13	100	ug/L	255085	1	02/01/2018 18:31	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 5-Feb-18

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 39
Project Name:	Clouds Exxon	**Collection Date:**	1/23/2018 10:30:00 AM
Lab ID:	1801N71-033	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	255085	1	02/02/2018 05:52	NP
Benzene	0.48	J	0.37	1.0	ug/L	255085	1	02/02/2018 05:52	NP
Ethylbenzene	480		2.6	10	ug/L	255085	10	02/02/2018 06:15	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	255085	1	02/02/2018 05:52	NP
Naphthalene	370		9.3	50	ug/L	255085	10	02/02/2018 06:15	NP
Toluene	220		3.9	10	ug/L	255085	10	02/02/2018 06:15	NP
Xylenes, Total	2000		7.7	10	ug/L	255085	10	02/02/2018 06:15	NP
Surr: 4-Bromofluorobenzene	102		0	70-130	%REC	255085	10	02/02/2018 06:15	NP
Surr: 4-Bromofluorobenzene	105		0	70-130	%REC	255085	1	02/02/2018 05:52	NP
Surr: Dibromofluoromethane	97.7		0	70-130	%REC	255085	1	02/02/2018 05:52	NP
Surr: Dibromofluoromethane	100		0	70-130	%REC	255085	10	02/02/2018 06:15	NP
Surr: Toluene-d8	105		0	70-130	%REC	255085	10	02/02/2018 06:15	NP
Surr: Toluene-d8	107		0	70-130	%REC	255085	1	02/02/2018 05:52	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	255085	1	02/02/2018 05:52	NP
Ethanol	BRL		43	100	ug/L	255085	1	02/02/2018 05:52	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	255085	1	02/02/2018 05:52	NP
Isopropyl ether	BRL		3.8	10	ug/L	255085	1	02/02/2018 05:52	NP
tert-Amyl alcohol	56	J	28	100	ug/L	255085	1	02/02/2018 05:52	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	255085	1	02/02/2018 05:52	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	255085	1	02/02/2018 05:52	NP
tert-Butyl formate	BRL		13	100	ug/L	255085	1	02/02/2018 05:52	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 5-Feb-18

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 42
Project Name:	Clouds Exxon	**Collection Date:**	1/23/2018 9:55:00 AM
Lab ID:	1801N71-034	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	255085	1	02/02/2018 06:38	NP
Benzene	BRL		0.37	1.0	ug/L	255085	1	02/02/2018 06:38	NP
Ethylbenzene	57		0.26	1.0	ug/L	255085	1	02/02/2018 06:38	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	255085	1	02/02/2018 06:38	NP
Naphthalene	64		0.93	5.0	ug/L	255085	1	02/02/2018 06:38	NP
Toluene	0.41	J	0.39	1.0	ug/L	255085	1	02/02/2018 06:38	NP
Xylenes, Total	48		0.77	1.0	ug/L	255085	1	02/02/2018 06:38	NP
Surr: 4-Bromofluorobenzene	101		0	70-130	%REC	255085	1	02/02/2018 06:38	NP
Surr: Dibromofluoromethane	95.7		0	70-130	%REC	255085	1	02/02/2018 06:38	NP
Surr: Toluene-d8	106		0	70-130	%REC	255085	1	02/02/2018 06:38	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	255085	1	02/02/2018 06:38	NP
Ethanol	BRL		43	100	ug/L	255085	1	02/02/2018 06:38	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	255085	1	02/02/2018 06:38	NP
Isopropyl ether	BRL		3.8	10	ug/L	255085	1	02/02/2018 06:38	NP
tert-Amyl alcohol	BRL		28	100	ug/L	255085	1	02/02/2018 06:38	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	255085	1	02/02/2018 06:38	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	255085	1	02/02/2018 06:38	NP
tert-Butyl formate	BRL		13	100	ug/L	255085	1	02/02/2018 06:38	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 5-Feb-18

Client:	Crawford Environmental Services	**Client Sample ID:**	DW 6
Project Name:	Clouds Exxon	**Collection Date:**	1/23/2018 9:10:00 AM
Lab ID:	1801N71-035	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	255085	1	02/02/2018 18:52	NP
Benzene	BRL		0.37	1.0	ug/L	255085	1	02/02/2018 18:52	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	255085	1	02/02/2018 18:52	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	255085	1	02/02/2018 18:52	NP
Naphthalene	BRL		0.93	5.0	ug/L	255085	1	02/02/2018 18:52	NP
Toluene	BRL		0.39	1.0	ug/L	255085	1	02/02/2018 18:52	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	255085	1	02/02/2018 18:52	NP
Surr: 4-Bromofluorobenzene	88.8		0	70-130	%REC	255085	1	02/02/2018 18:52	NP
Surr: Dibromofluoromethane	106		0	70-130	%REC	255085	1	02/02/2018 18:52	NP
Surr: Toluene-d8	103		0	70-130	%REC	255085	1	02/02/2018 18:52	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	255085	1	02/01/2018 19:41	NP
Ethanol	BRL		43	100	ug/L	255085	1	02/01/2018 19:41	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	255085	1	02/01/2018 19:41	NP
Isopropyl ether	BRL		3.8	10	ug/L	255085	1	02/01/2018 19:41	NP
tert-Amyl alcohol	BRL		28	100	ug/L	255085	1	02/01/2018 19:41	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	255085	1	02/01/2018 19:41	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	255085	1	02/01/2018 19:41	NP
tert-Butyl formate	BRL		13	100	ug/L	255085	1	02/01/2018 19:41	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 5-Feb-18

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 67
Project Name:	Clouds Exxon	**Collection Date:**	1/23/2018 9:00:00 AM
Lab ID:	1801N71-036	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	255085	1	02/02/2018 19:16	NP
Benzene	BRL		0.37	1.0	ug/L	255085	1	02/02/2018 19:16	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	255085	1	02/02/2018 19:16	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	255085	1	02/02/2018 19:16	NP
Naphthalene	BRL		0.93	5.0	ug/L	255085	1	02/02/2018 19:16	NP
Toluene	BRL		0.39	1.0	ug/L	255085	1	02/02/2018 19:16	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	255085	1	02/02/2018 19:16	NP
Surr: 4-Bromofluorobenzene	89.3		0	70-130	%REC	255085	1	02/02/2018 19:16	NP
Surr: Dibromofluoromethane	108		0	70-130	%REC	255085	1	02/02/2018 19:16	NP
Surr: Toluene-d8	105		0	70-130	%REC	255085	1	02/02/2018 19:16	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	255085	1	02/01/2018 20:05	NP
Ethanol	BRL		43	100	ug/L	255085	1	02/01/2018 20:05	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	255085	1	02/01/2018 20:05	NP
Isopropyl ether	BRL		3.8	10	ug/L	255085	1	02/01/2018 20:05	NP
tert-Amyl alcohol	BRL		28	100	ug/L	255085	1	02/01/2018 20:05	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	255085	1	02/01/2018 20:05	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	255085	1	02/01/2018 20:05	NP
tert-Butyl formate	BRL		13	100	ug/L	255085	1	02/01/2018 20:05	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 5-Feb-18

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 38
Project Name:	Clouds Exxon	**Collection Date:**	1/23/2018 8:40:00 AM
Lab ID:	1801N71-037	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	255085	1	02/01/2018 20:28	NP
Benzene	BRL		0.37	1.0	ug/L	255085	1	02/01/2018 20:28	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	255085	1	02/01/2018 20:28	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	255085	1	02/01/2018 20:28	NP
Naphthalene	BRL		0.93	5.0	ug/L	255085	1	02/01/2018 20:28	NP
Toluene	BRL		0.39	1.0	ug/L	255085	1	02/01/2018 20:28	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	255085	1	02/01/2018 20:28	NP
Surr: 4-Bromofluorobenzene	96.7		0	70-130	%REC	255085	1	02/01/2018 20:28	NP
Surr: Dibromofluoromethane	107		0	70-130	%REC	255085	1	02/01/2018 20:28	NP
Surr: Toluene-d8	107		0	70-130	%REC	255085	1	02/01/2018 20:28	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	255085	1	02/01/2018 20:28	NP
Ethanol	BRL		43	100	ug/L	255085	1	02/01/2018 20:28	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	255085	1	02/01/2018 20:28	NP
Isopropyl ether	BRL		3.8	10	ug/L	255085	1	02/01/2018 20:28	NP
tert-Amyl alcohol	BRL		28	100	ug/L	255085	1	02/01/2018 20:28	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	255085	1	02/01/2018 20:28	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	255085	1	02/01/2018 20:28	NP
tert-Butyl formate	BRL		13	100	ug/L	255085	1	02/01/2018 20:28	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 5-Feb-18

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 43
Project Name:	Clouds Exxon	**Collection Date:**	1/23/2018 8:30:00 AM
Lab ID:	1801N71-038	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	255085	1	02/01/2018 20:52	NP
Benzene	BRL		0.37	1.0	ug/L	255085	1	02/01/2018 20:52	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	255085	1	02/01/2018 20:52	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	255085	1	02/01/2018 20:52	NP
Naphthalene	BRL		0.93	5.0	ug/L	255085	1	02/01/2018 20:52	NP
Toluene	BRL		0.39	1.0	ug/L	255085	1	02/01/2018 20:52	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	255085	1	02/01/2018 20:52	NP
Surr: 4-Bromofluorobenzene	97.8		0	70-130	%REC	255085	1	02/01/2018 20:52	NP
Surr: Dibromofluoromethane	108		0	70-130	%REC	255085	1	02/01/2018 20:52	NP
Surr: Toluene-d8	106		0	70-130	%REC	255085	1	02/01/2018 20:52	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	255085	1	02/01/2018 20:52	NP
Ethanol	BRL		43	100	ug/L	255085	1	02/01/2018 20:52	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	255085	1	02/01/2018 20:52	NP
Isopropyl ether	BRL		3.8	10	ug/L	255085	1	02/01/2018 20:52	NP
tert-Amyl alcohol	BRL		28	100	ug/L	255085	1	02/01/2018 20:52	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	255085	1	02/01/2018 20:52	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	255085	1	02/01/2018 20:52	NP
tert-Butyl formate	BRL		13	100	ug/L	255085	1	02/01/2018 20:52	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 5-Feb-18

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 44
Project Name:	Clouds Exxon	**Collection Date:**	1/23/2018 8:20:00 AM
Lab ID:	1801N71-039	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	255085	1	02/01/2018 21:15	NP
Benzene	BRL		0.37	1.0	ug/L	255085	1	02/01/2018 21:15	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	255085	1	02/01/2018 21:15	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	255085	1	02/01/2018 21:15	NP
Naphthalene	BRL		0.93	5.0	ug/L	255085	1	02/01/2018 21:15	NP
Toluene	BRL		0.39	1.0	ug/L	255085	1	02/01/2018 21:15	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	255085	1	02/01/2018 21:15	NP
Surr: 4-Bromofluorobenzene	93.3		0	70-130	%REC	255085	1	02/01/2018 21:15	NP
Surr: Dibromofluoromethane	109		0	70-130	%REC	255085	1	02/01/2018 21:15	NP
Surr: Toluene-d8	107		0	70-130	%REC	255085	1	02/01/2018 21:15	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	255085	1	02/01/2018 21:15	NP
Ethanol	BRL		43	100	ug/L	255085	1	02/01/2018 21:15	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	255085	1	02/01/2018 21:15	NP
Isopropyl ether	BRL		3.8	10	ug/L	255085	1	02/01/2018 21:15	NP
tert-Amyl alcohol	BRL		28	100	ug/L	255085	1	02/01/2018 21:15	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	255085	1	02/01/2018 21:15	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	255085	1	02/01/2018 21:15	NP
tert-Butyl formate	BRL		13	100	ug/L	255085	1	02/01/2018 21:15	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 5-Feb-18

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 45
Project Name:	Clouds Exxon	**Collection Date:**	1/23/2018 8:10:00 AM
Lab ID:	1801N71-040	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	255085	1	02/02/2018 20:50	NP
Benzene	BRL		0.37	1.0	ug/L	255085	1	02/02/2018 20:50	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	255085	1	02/02/2018 20:50	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	255085	1	02/02/2018 20:50	NP
Naphthalene	BRL		0.93	5.0	ug/L	255085	1	02/02/2018 20:50	NP
Toluene	BRL		0.39	1.0	ug/L	255085	1	02/02/2018 20:50	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	255085	1	02/02/2018 20:50	NP
Surr: 4-Bromofluorobenzene	93.6		0	70-130	%REC	255085	1	02/02/2018 20:50	NP
Surr: Dibromofluoromethane	106		0	70-130	%REC	255085	1	02/02/2018 20:50	NP
Surr: Toluene-d8	106		0	70-130	%REC	255085	1	02/02/2018 20:50	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	255085	1	02/01/2018 22:26	NP
Ethanol	BRL		43	100	ug/L	255085	1	02/01/2018 22:26	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	255085	1	02/01/2018 22:26	NP
Isopropyl ether	BRL		3.8	10	ug/L	255085	1	02/01/2018 22:26	NP
tert-Amyl alcohol	BRL		28	100	ug/L	255085	1	02/01/2018 22:26	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	255085	1	02/01/2018 22:26	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	255085	1	02/01/2018 22:26	NP
tert-Butyl formate	BRL		13	100	ug/L	255085	1	02/01/2018 22:26	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 5-Feb-18

Client:	Crawford Environmental Services	**Client Sample ID:**	FB-1
Project Name:	Clouds Exxon	**Collection Date:**	1/22/2018 3:45:00 PM
Lab ID:	1801N71-041	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	255089	1	02/01/2018 14:55	NP
Benzene	BRL		0.37	1.0	ug/L	255089	1	02/01/2018 14:55	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	255089	1	02/01/2018 14:55	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	255089	1	02/01/2018 14:55	NP
Naphthalene	BRL		0.93	5.0	ug/L	255089	1	02/01/2018 14:55	NP
Toluene	BRL		0.39	1.0	ug/L	255089	1	02/01/2018 14:55	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	255089	1	02/01/2018 14:55	NP
Surr: 4-Bromofluorobenzene	82.4		0	70-130	%REC	255089	1	02/01/2018 14:55	NP
Surr: Dibromofluoromethane	112		0	70-130	%REC	255089	1	02/01/2018 14:55	NP
Surr: Toluene-d8	93.2		0	70-130	%REC	255089	1	02/01/2018 14:55	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	255089	1	02/01/2018 14:55	NP
Ethanol	BRL		43	100	ug/L	255089	1	02/01/2018 14:55	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	255089	1	02/01/2018 14:55	NP
Isopropyl ether	BRL		3.8	10	ug/L	255089	1	02/01/2018 14:55	NP
tert-Amyl alcohol	BRL		28	100	ug/L	255089	1	02/01/2018 14:55	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	255089	1	02/01/2018 14:55	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	255089	1	02/01/2018 14:55	NP
tert-Butyl formate	BRL		13	100	ug/L	255089	1	02/01/2018 14:55	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 5-Feb-18

Client:	Crawford Environmental Services	**Client Sample ID:**	FB-2
Project Name:	Clouds Exxon	**Collection Date:**	1/23/2018 1:00:00 PM
Lab ID:	1801N71-042	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	255089	1	02/01/2018 15:19	NP
Benzene	BRL		0.37	1.0	ug/L	255089	1	02/01/2018 15:19	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	255089	1	02/01/2018 15:19	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	255089	1	02/01/2018 15:19	NP
Naphthalene	BRL		0.93	5.0	ug/L	255089	1	02/01/2018 15:19	NP
Toluene	BRL		0.39	1.0	ug/L	255089	1	02/01/2018 15:19	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	255089	1	02/01/2018 15:19	NP
Surr: 4-Bromofluorobenzene	82.8		0	70-130	%REC	255089	1	02/01/2018 15:19	NP
Surr: Dibromofluoromethane	111		0	70-130	%REC	255089	1	02/01/2018 15:19	NP
Surr: Toluene-d8	89.1		0	70-130	%REC	255089	1	02/01/2018 15:19	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	255089	1	02/01/2018 15:19	NP
Ethanol	BRL		43	100	ug/L	255089	1	02/01/2018 15:19	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	255089	1	02/01/2018 15:19	NP
Isopropyl ether	BRL		3.8	10	ug/L	255089	1	02/01/2018 15:19	NP
tert-Amyl alcohol	BRL		28	100	ug/L	255089	1	02/01/2018 15:19	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	255089	1	02/01/2018 15:19	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	255089	1	02/01/2018 15:19	NP
tert-Butyl formate	BRL		13	100	ug/L	255089	1	02/01/2018 15:19	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 5-Feb-18

Client:	Crawford Environmental Services	**Client Sample ID:**	FB-3
Project Name:	Clouds Exxon	**Collection Date:**	1/24/2018 8:00:00 AM
Lab ID:	1801N71-043	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	255089	1	02/01/2018 15:43	NP
Benzene	BRL		0.37	1.0	ug/L	255089	1	02/01/2018 15:43	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	255089	1	02/01/2018 15:43	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	255089	1	02/01/2018 15:43	NP
Naphthalene	BRL		0.93	5.0	ug/L	255089	1	02/01/2018 15:43	NP
Toluene	BRL		0.39	1.0	ug/L	255089	1	02/01/2018 15:43	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	255089	1	02/01/2018 15:43	NP
Surr: 4-Bromofluorobenzene	82.1		0	70-130	%REC	255089	1	02/01/2018 15:43	NP
Surr: Dibromofluoromethane	112		0	70-130	%REC	255089	1	02/01/2018 15:43	NP
Surr: Toluene-d8	90.8		0	70-130	%REC	255089	1	02/01/2018 15:43	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	255089	1	02/01/2018 15:43	NP
Ethanol	BRL		43	100	ug/L	255089	1	02/01/2018 15:43	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	255089	1	02/01/2018 15:43	NP
Isopropyl ether	BRL		3.8	10	ug/L	255089	1	02/01/2018 15:43	NP
tert-Amyl alcohol	BRL		28	100	ug/L	255089	1	02/01/2018 15:43	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	255089	1	02/01/2018 15:43	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	255089	1	02/01/2018 15:43	NP
tert-Butyl formate	BRL		13	100	ug/L	255089	1	02/01/2018 15:43	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 5-Feb-18

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 49
Project Name:	Clouds Exxon	**Collection Date:**	1/24/2018 2:40:00 PM
Lab ID:	1801N71-044	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	255089	1	02/02/2018 21:14	NP
Benzene	BRL		0.37	1.0	ug/L	255089	1	02/02/2018 21:14	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	255089	1	02/02/2018 21:14	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	255089	1	02/02/2018 21:14	NP
Naphthalene	BRL		0.93	5.0	ug/L	255089	1	02/02/2018 21:14	NP
Toluene	BRL		0.39	1.0	ug/L	255089	1	02/02/2018 21:14	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	255089	1	02/02/2018 21:14	NP
Surr: 4-Bromofluorobenzene	87.6		0	70-130	%REC	255089	1	02/02/2018 21:14	NP
Surr: Dibromofluoromethane	111		0	70-130	%REC	255089	1	02/02/2018 21:14	NP
Surr: Toluene-d8	106		0	70-130	%REC	255089	1	02/02/2018 21:14	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	255089	1	02/01/2018 22:50	NP
Ethanol	BRL		43	100	ug/L	255089	1	02/01/2018 22:50	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	255089	1	02/01/2018 22:50	NP
Isopropyl ether	BRL		3.8	10	ug/L	255089	1	02/01/2018 22:50	NP
tert-Amyl alcohol	BRL		28	100	ug/L	255089	1	02/01/2018 22:50	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	255089	1	02/01/2018 22:50	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	255089	1	02/01/2018 22:50	NP
tert-Butyl formate	BRL		13	100	ug/L	255089	1	02/01/2018 22:50	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 5-Feb-18

Client:	Crawford Environmental Services	**Client Sample ID:**	PW 1R
Project Name:	Clouds Exxon	**Collection Date:**	1/24/2018 12:30:00 PM
Lab ID:	1801N71-045	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		37	100	ug/L	255089	100	01/31/2018 16:30	NP
Benzene	370		37	100	ug/L	255089	100	01/31/2018 16:30	NP
Ethylbenzene	480		26	100	ug/L	255089	100	01/31/2018 16:30	NP
Methyl tert-butyl ether	BRL		45	100	ug/L	255089	100	01/31/2018 16:30	NP
Naphthalene	340	J	93	500	ug/L	255089	100	01/31/2018 16:30	NP
Toluene	4300		39	100	ug/L	255089	100	01/31/2018 16:30	NP
Xylenes, Total	13000		77	100	ug/L	255089	100	01/31/2018 16:30	NP
Surr: 4-Bromofluorobenzene	97.8		0	70-130	%REC	255089	100	01/31/2018 16:30	NP
Surr: Dibromofluoromethane	111		0	70-130	%REC	255089	100	01/31/2018 16:30	NP
Surr: Toluene-d8	107		0	70-130	%REC	255089	100	01/31/2018 16:30	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		2400	10000	ug/L	255089	100	01/31/2018 16:30	NP
Ethanol	BRL		4300	10000	ug/L	255089	100	01/31/2018 16:30	NP
Ethyl tert-butyl ether	BRL		360	10000	ug/L	255089	100	01/31/2018 16:30	NP
Isopropyl ether	BRL		380	1000	ug/L	255089	100	01/31/2018 16:30	NP
tert-Amyl alcohol	BRL		2800	10000	ug/L	255089	100	01/31/2018 16:30	NP
tert-Amyl methyl ether	BRL		340	1000	ug/L	255089	100	01/31/2018 16:30	NP
tert-Butyl Alcohol	BRL		1300	10000	ug/L	255089	100	01/31/2018 16:30	NP
tert-Butyl formate	BRL		1300	10000	ug/L	255089	100	01/31/2018 16:30	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated value above quantitation range
BRL	Not detected at MDL	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit
N	Analyte not NELAC certified	>	Greater than Result value
B	Analyte detected in the associated method blank	<	Less than Result value
NC	Not confirmed	Narr	See case narrative

Analytical Environmental Services, Inc **Date:** 5-Feb-18

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 19
Project Name:	Clouds Exxon	**Collection Date:**	1/24/2018 8:40:00 AM
Lab ID:	1801N71-046	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		190	500	ug/L	255089	500	02/01/2018 23:13	NP
Benzene	3100		190	500	ug/L	255089	500	02/01/2018 23:13	NP
Ethylbenzene	1100		130	500	ug/L	255089	500	02/01/2018 23:13	NP
Methyl tert-butyl ether	BRL		220	500	ug/L	255089	500	02/01/2018 23:13	NP
Naphthalene	770	J	460	2500	ug/L	255089	500	02/01/2018 23:13	NP
Toluene	23000		200	500	ug/L	255089	500	02/01/2018 23:13	NP
Xylenes, Total	17000		380	500	ug/L	255089	500	02/01/2018 23:13	NP
Surr: 4-Bromofluorobenzene	101		0	70-130	%REC	255089	500	02/01/2018 23:13	NP
Surr: Dibromofluoromethane	105		0	70-130	%REC	255089	500	02/01/2018 23:13	NP
Surr: Toluene-d8	106		0	70-130	%REC	255089	500	02/01/2018 23:13	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		12000	50000	ug/L	255089	500	02/01/2018 23:13	NP
Ethanol	BRL		22000	50000	ug/L	255089	500	02/01/2018 23:13	NP
Ethyl tert-butyl ether	BRL		1800	50000	ug/L	255089	500	02/01/2018 23:13	NP
Isopropyl ether	BRL		1900	5000	ug/L	255089	500	02/01/2018 23:13	NP
tert-Amyl alcohol	BRL		14000	50000	ug/L	255089	500	02/01/2018 23:13	NP
tert-Amyl methyl ether	BRL		1700	5000	ug/L	255089	500	02/01/2018 23:13	NP
tert-Butyl Alcohol	BRL		6700	50000	ug/L	255089	500	02/01/2018 23:13	NP
tert-Butyl formate	BRL		6500	50000	ug/L	255089	500	02/01/2018 23:13	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 5-Feb-18

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 11
Project Name:	Clouds Exxon	**Collection Date:**	1/24/2018 2:20:00 PM
Lab ID:	1801N71-047	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	255089	1	02/01/2018 23:37	NP
Benzene	BRL		0.37	1.0	ug/L	255089	1	02/01/2018 23:37	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	255089	1	02/01/2018 23:37	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	255089	1	02/01/2018 23:37	NP
Naphthalene	BRL		0.93	5.0	ug/L	255089	1	02/01/2018 23:37	NP
Toluene	BRL		0.39	1.0	ug/L	255089	1	02/01/2018 23:37	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	255089	1	02/01/2018 23:37	NP
Surr: 4-Bromofluorobenzene	96.1		0	70-130	%REC	255089	1	02/01/2018 23:37	NP
Surr: Dibromofluoromethane	107		0	70-130	%REC	255089	1	02/01/2018 23:37	NP
Surr: Toluene-d8	104		0	70-130	%REC	255089	1	02/01/2018 23:37	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	255089	1	02/01/2018 23:37	NP
Ethanol	BRL		43	100	ug/L	255089	1	02/01/2018 23:37	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	255089	1	02/01/2018 23:37	NP
Isopropyl ether	BRL		3.8	10	ug/L	255089	1	02/01/2018 23:37	NP
tert-Amyl alcohol	BRL		28	100	ug/L	255089	1	02/01/2018 23:37	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	255089	1	02/01/2018 23:37	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	255089	1	02/01/2018 23:37	NP
tert-Butyl formate	BRL		13	100	ug/L	255089	1	02/01/2018 23:37	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 5-Feb-18

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 51
Project Name:	Clouds Exxon	**Collection Date:**	1/24/2018 12:10:00 PM
Lab ID:	1801N71-048	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	255089	1	02/02/2018 00:00	NP
Benzene	BRL		0.37	1.0	ug/L	255089	1	02/02/2018 00:00	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	255089	1	02/02/2018 00:00	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	255089	1	02/02/2018 00:00	NP
Naphthalene	BRL		0.93	5.0	ug/L	255089	1	02/02/2018 00:00	NP
Toluene	BRL		0.39	1.0	ug/L	255089	1	02/02/2018 00:00	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	255089	1	02/02/2018 00:00	NP
Surr: 4-Bromofluorobenzene	94.2		0	70-130	%REC	255089	1	02/02/2018 00:00	NP
Surr: Dibromofluoromethane	108		0	70-130	%REC	255089	1	02/02/2018 00:00	NP
Surr: Toluene-d8	107		0	70-130	%REC	255089	1	02/02/2018 00:00	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	255089	1	02/02/2018 00:00	NP
Ethanol	BRL		43	100	ug/L	255089	1	02/02/2018 00:00	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	255089	1	02/02/2018 00:00	NP
Isopropyl ether	BRL		3.8	10	ug/L	255089	1	02/02/2018 00:00	NP
tert-Amyl alcohol	BRL		28	100	ug/L	255089	1	02/02/2018 00:00	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	255089	1	02/02/2018 00:00	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	255089	1	02/02/2018 00:00	NP
tert-Butyl formate	BRL		13	100	ug/L	255089	1	02/02/2018 00:00	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 5-Feb-18

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 34
Project Name:	Clouds Exxon	**Collection Date:**	1/24/2018 8:10:00 AM
Lab ID:	1801N71-049	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	255089	1	02/02/2018 03:54	NP
Benzene	BRL		0.37	1.0	ug/L	255089	1	02/02/2018 03:54	NP
Ethylbenzene	0.26	J	0.26	1.0	ug/L	255089	1	02/02/2018 03:54	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	255089	1	02/02/2018 03:54	NP
Naphthalene	BRL		0.93	5.0	ug/L	255089	1	02/02/2018 03:54	NP
Toluene	BRL		0.39	1.0	ug/L	255089	1	02/02/2018 03:54	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	255089	1	02/02/2018 03:54	NP
Surr: 4-Bromofluorobenzene	95.9		0	70-130	%REC	255089	1	02/02/2018 03:54	NP
Surr: Dibromofluoromethane	105		0	70-130	%REC	255089	1	02/02/2018 03:54	NP
Surr: Toluene-d8	105		0	70-130	%REC	255089	1	02/02/2018 03:54	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	255089	1	02/02/2018 03:54	NP
Ethanol	BRL		43	100	ug/L	255089	1	02/02/2018 03:54	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	255089	1	02/02/2018 03:54	NP
Isopropyl ether	BRL		3.8	10	ug/L	255089	1	02/02/2018 03:54	NP
tert-Amyl alcohol	BRL		28	100	ug/L	255089	1	02/02/2018 03:54	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	255089	1	02/02/2018 03:54	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	255089	1	02/02/2018 03:54	NP
tert-Butyl formate	BRL		13	100	ug/L	255089	1	02/02/2018 03:54	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 5-Feb-18

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 35
Project Name:	Clouds Exxon	**Collection Date:**	1/24/2018 7:50:00 AM
Lab ID:	1801N71-050	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B					**(SW5030B)**				
1,2-Dichloroethane	BRL		7.5	20	ug/L	255089	20	02/02/2018 04:41	NP
Benzene	3600		7.5	20	ug/L	255089	20	02/02/2018 04:41	NP
Ethylbenzene	2900		5.1	20	ug/L	255089	20	02/02/2018 04:41	NP
Methyl tert-butyl ether	62		8.9	20	ug/L	255089	20	02/02/2018 04:41	NP
Naphthalene	850		19	100	ug/L	255089	20	02/02/2018 04:41	NP
Toluene	6300		39	100	ug/L	255089	100	02/02/2018 21:37	NP
Xylenes, Total	6600		15	20	ug/L	255089	20	02/02/2018 04:41	NP
Surr: 4-Bromofluorobenzene	105		0	70-130	%REC	255089	20	02/02/2018 04:41	NP
Surr: 4-Bromofluorobenzene	102		0	70-130	%REC	255089	100	02/02/2018 21:37	NP
Surr: Dibromofluoromethane	101		0	70-130	%REC	255089	20	02/02/2018 04:41	NP
Surr: Dibromofluoromethane	107		0	70-130	%REC	255089	100	02/02/2018 21:37	NP
Surr: Toluene-d8	107		0	70-130	%REC	255089	20	02/02/2018 04:41	NP
Surr: Toluene-d8	106		0	70-130	%REC	255089	100	02/02/2018 21:37	NP
Oxygenates SW8260B					**(SW5030B)**				
3,3-Dimethyl-1-butanol	BRL		470	2000	ug/L	255089	20	02/02/2018 04:41	NP
Ethanol	BRL		860	2000	ug/L	255089	20	02/02/2018 04:41	NP
Ethyl tert-butyl ether	BRL		72	2000	ug/L	255089	20	02/02/2018 04:41	NP
Isopropyl ether	170	J	76	200	ug/L	255089	20	02/02/2018 04:41	NP
tert-Amyl alcohol	4100		560	2000	ug/L	255089	20	02/02/2018 04:41	NP
tert-Amyl methyl ether	BRL		67	200	ug/L	255089	20	02/02/2018 04:41	NP
tert-Butyl Alcohol	BRL		270	2000	ug/L	255089	20	02/02/2018 04:41	NP
tert-Butyl formate	BRL		260	2000	ug/L	255089	20	02/02/2018 04:41	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 5-Feb-18

Client:	Crawford Environmental Services	**Client Sample ID:**	DW 5
Project Name:	Clouds Exxon	**Collection Date:**	1/24/2018 7:40:00 AM
Lab ID:	1801N71-051	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		19	50	ug/L	255089	50	02/02/2018 05:04	NP
Benzene	9400		19	50	ug/L	255089	50	02/02/2018 05:04	NP
Ethylbenzene	970		13	50	ug/L	255089	50	02/02/2018 05:04	NP
Methyl tert-butyl ether	1000		22	50	ug/L	255089	50	02/02/2018 05:04	NP
Naphthalene	340		46	250	ug/L	255089	50	02/02/2018 05:04	NP
Toluene	3300		20	50	ug/L	255089	50	02/02/2018 05:04	NP
Xylenes, Total	5300		38	50	ug/L	255089	50	02/02/2018 05:04	NP
Surr: 4-Bromofluorobenzene	97.7		0	70-130	%REC	255089	50	02/02/2018 05:04	NP
Surr: Dibromofluoromethane	102		0	70-130	%REC	255089	50	02/02/2018 05:04	NP
Surr: Toluene-d8	105		0	70-130	%REC	255089	50	02/02/2018 05:04	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		1200	5000	ug/L	255089	50	02/02/2018 05:04	NP
Ethanol	BRL		2200	5000	ug/L	255089	50	02/02/2018 05:04	NP
Ethyl tert-butyl ether	BRL		180	5000	ug/L	255089	50	02/02/2018 05:04	NP
Isopropyl ether	710		190	500	ug/L	255089	50	02/02/2018 05:04	NP
tert-Amyl alcohol	10000		1400	5000	ug/L	255089	50	02/02/2018 05:04	NP
tert-Amyl methyl ether	BRL		170	500	ug/L	255089	50	02/02/2018 05:04	NP
tert-Butyl Alcohol	BRL		670	5000	ug/L	255089	50	02/02/2018 05:04	NP
tert-Butyl formate	BRL		650	5000	ug/L	255089	50	02/02/2018 05:04	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 5-Feb-18

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 18
Project Name:	Clouds Exxon	**Collection Date:**	1/24/2018 8:30:00 AM
Lab ID:	1801N71-052	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B					**(SW5030B)**				
1,2-Dichloroethane	BRL		7.5	20	ug/L	255089	20	02/02/2018 05:28	NP
Benzene	1800		7.5	20	ug/L	255089	20	02/02/2018 05:28	NP
Ethylbenzene	1400		5.1	20	ug/L	255089	20	02/02/2018 05:28	NP
Methyl tert-butyl ether	49		8.9	20	ug/L	255089	20	02/02/2018 05:28	NP
Naphthalene	560		19	100	ug/L	255089	20	02/02/2018 05:28	NP
Toluene	11000		39	100	ug/L	255089	100	02/02/2018 22:01	NP
Xylenes, Total	12000		77	100	ug/L	255089	100	02/02/2018 22:01	NP
Surr: 4-Bromofluorobenzene	100		0	70-130	%REC	255089	20	02/02/2018 05:28	NP
Surr: 4-Bromofluorobenzene	95.9		0	70-130	%REC	255089	100	02/02/2018 22:01	NP
Surr: Dibromofluoromethane	100		0	70-130	%REC	255089	20	02/02/2018 05:28	NP
Surr: Dibromofluoromethane	106		0	70-130	%REC	255089	100	02/02/2018 22:01	NP
Surr: Toluene-d8	108		0	70-130	%REC	255089	20	02/02/2018 05:28	NP
Surr: Toluene-d8	106		0	70-130	%REC	255089	100	02/02/2018 22:01	NP
Oxygenates SW8260B					**(SW5030B)**				
3,3-Dimethyl-1-butanol	BRL		470	2000	ug/L	255089	20	02/02/2018 05:28	NP
Ethanol	BRL		860	2000	ug/L	255089	20	02/02/2018 05:28	NP
Ethyl tert-butyl ether	BRL		72	2000	ug/L	255089	20	02/02/2018 05:28	NP
Isopropyl ether	BRL		76	200	ug/L	255089	20	02/02/2018 05:28	NP
tert-Amyl alcohol	3300		560	2000	ug/L	255089	20	02/02/2018 05:28	NP
tert-Amyl methyl ether	BRL		67	200	ug/L	255089	20	02/02/2018 05:28	NP
tert-Butyl Alcohol	BRL		270	2000	ug/L	255089	20	02/02/2018 05:28	NP
tert-Butyl formate	BRL		260	2000	ug/L	255089	20	02/02/2018 05:28	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 5-Feb-18

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 23
Project Name:	Clouds Exxon	**Collection Date:**	1/24/2018 8:50:00 AM
Lab ID:	1801N71-053	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B					(SW5030B)				
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	255089	1	02/01/2018 18:54	NP
Benzene	1100		3.7	10	ug/L	255089	10	02/01/2018 19:18	NP
Ethylbenzene	300		2.6	10	ug/L	255089	10	02/01/2018 19:18	NP
Methyl tert-butyl ether	11		0.45	1.0	ug/L	255089	1	02/01/2018 18:54	NP
Naphthalene	1200		9.3	50	ug/L	255089	10	02/01/2018 19:18	NP
Toluene	4700		20	50	ug/L	255089	50	02/02/2018 18:28	NP
Xylenes, Total	8500		38	50	ug/L	255089	50	02/02/2018 18:28	NP
Surr: 4-Bromofluorobenzene	96.5		0	70-130	%REC	255089	50	02/02/2018 18:28	NP
Surr: 4-Bromofluorobenzene	104		0	70-130	%REC	255089	10	02/01/2018 19:18	NP
Surr: 4-Bromofluorobenzene	106		0	70-130	%REC	255089	1	02/01/2018 18:54	NP
Surr: Dibromofluoromethane	107		0	70-130	%REC	255089	50	02/02/2018 18:28	NP
Surr: Dibromofluoromethane	96.8		0	70-130	%REC	255089	1	02/01/2018 18:54	NP
Surr: Dibromofluoromethane	100		0	70-130	%REC	255089	10	02/01/2018 19:18	NP
Surr: Toluene-d8	108		0	70-130	%REC	255089	50	02/02/2018 18:28	NP
Surr: Toluene-d8	107		0	70-130	%REC	255089	10	02/01/2018 19:18	NP
Surr: Toluene-d8	110		0	70-130	%REC	255089	1	02/01/2018 18:54	NP
Oxygenates SW8260B					(SW5030B)				
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	255089	1	02/01/2018 18:54	NP
Ethanol	BRL		43	100	ug/L	255089	1	02/01/2018 18:54	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	255089	1	02/01/2018 18:54	NP
Isopropyl ether	46		3.8	10	ug/L	255089	1	02/01/2018 18:54	NP
tert-Amyl alcohol	2700		28	100	ug/L	255089	1	02/01/2018 18:54	NP
tert-Amyl methyl ether	11		3.4	10	ug/L	255089	1	02/01/2018 18:54	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	255089	1	02/01/2018 18:54	NP
tert-Butyl formate	BRL		13	100	ug/L	255089	1	02/01/2018 18:54	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 5-Feb-18

Client:	Crawford Environmental Services	**Client Sample ID:**	DUP 5
Project Name:	Clouds Exxon	**Collection Date:**	1/24/2018 8:55:00 AM
Lab ID:	1801N71-054	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B					(SW5030B)				
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	255089	1	02/01/2018 21:39	NP
Benzene	1100		3.7	10	ug/L	255089	10	02/01/2018 22:03	NP
Ethylbenzene	310		2.6	10	ug/L	255089	10	02/01/2018 22:03	NP
Methyl tert-butyl ether	12		0.45	1.0	ug/L	255089	1	02/01/2018 21:39	NP
Naphthalene	1200		9.3	50	ug/L	255089	10	02/01/2018 22:03	NP
Toluene	4800		20	50	ug/L	255089	50	02/02/2018 19:39	NP
Xylenes, Total	8600		38	50	ug/L	255089	50	02/02/2018 19:39	NP
Surr: 4-Bromofluorobenzene	96.7		0	70-130	%REC	255089	50	02/02/2018 19:39	NP
Surr: 4-Bromofluorobenzene	103		0	70-130	%REC	255089	10	02/01/2018 22:03	NP
Surr: 4-Bromofluorobenzene	109		0	70-130	%REC	255089	1	02/01/2018 21:39	NP
Surr: Dibromofluoromethane	105		0	70-130	%REC	255089	50	02/02/2018 19:39	NP
Surr: Dibromofluoromethane	95.5		0	70-130	%REC	255089	1	02/01/2018 21:39	NP
Surr: Dibromofluoromethane	98.8		0	70-130	%REC	255089	10	02/01/2018 22:03	NP
Surr: Toluene-d8	107		0	70-130	%REC	255089	50	02/02/2018 19:39	NP
Surr: Toluene-d8	106		0	70-130	%REC	255089	10	02/01/2018 22:03	NP
Surr: Toluene-d8	109		0	70-130	%REC	255089	1	02/01/2018 21:39	NP
Oxygenates SW8260B					(SW5030B)				
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	255089	1	02/01/2018 21:39	NP
Ethanol	BRL		43	100	ug/L	255089	1	02/01/2018 21:39	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	255089	1	02/01/2018 21:39	NP
Isopropyl ether	45		3.8	10	ug/L	255089	1	02/01/2018 21:39	NP
tert-Amyl alcohol	2500		28	100	ug/L	255089	1	02/01/2018 21:39	NP
tert-Amyl methyl ether	10		3.4	10	ug/L	255089	1	02/01/2018 21:39	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	255089	1	02/01/2018 21:39	NP
tert-Butyl formate	BRL		13	100	ug/L	255089	1	02/01/2018 21:39	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 5-Feb-18

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 30
Project Name:	Clouds Exxon	**Collection Date:**	1/24/2018 9:05:00 AM
Lab ID:	1801N71-055	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	255089	1	02/02/2018 04:18	NP
Benzene	BRL		0.37	1.0	ug/L	255089	1	02/02/2018 04:18	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	255089	1	02/02/2018 04:18	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	255089	1	02/02/2018 04:18	NP
Naphthalene	BRL		0.93	5.0	ug/L	255089	1	02/02/2018 04:18	NP
Toluene	BRL		0.39	1.0	ug/L	255089	1	02/02/2018 04:18	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	255089	1	02/02/2018 04:18	NP
Surr: 4-Bromofluorobenzene	93.8		0	70-130	%REC	255089	1	02/02/2018 04:18	NP
Surr: Dibromofluoromethane	106		0	70-130	%REC	255089	1	02/02/2018 04:18	NP
Surr: Toluene-d8	104		0	70-130	%REC	255089	1	02/02/2018 04:18	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	255089	1	02/02/2018 04:18	NP
Ethanol	BRL		43	100	ug/L	255089	1	02/02/2018 04:18	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	255089	1	02/02/2018 04:18	NP
Isopropyl ether	BRL		3.8	10	ug/L	255089	1	02/02/2018 04:18	NP
tert-Amyl alcohol	BRL		28	100	ug/L	255089	1	02/02/2018 04:18	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	255089	1	02/02/2018 04:18	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	255089	1	02/02/2018 04:18	NP
tert-Butyl formate	BRL		13	100	ug/L	255089	1	02/02/2018 04:18	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 5-Feb-18

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 32
Project Name:	Clouds Exxon	**Collection Date:**	1/24/2018 9:15:00 AM
Lab ID:	1801N71-056	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	255089	1	02/02/2018 07:26	NP
Benzene	2.5		0.37	1.0	ug/L	255089	1	02/02/2018 07:26	NP
Ethylbenzene	1.9		0.26	1.0	ug/L	255089	1	02/02/2018 07:26	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	255089	1	02/02/2018 07:26	NP
Naphthalene	28		0.93	5.0	ug/L	255089	1	02/02/2018 07:26	NP
Toluene	0.41	J	0.39	1.0	ug/L	255089	1	02/02/2018 07:26	NP
Xylenes, Total	1.2		0.77	1.0	ug/L	255089	1	02/02/2018 07:26	NP
Surr: 4-Bromofluorobenzene	98.4		0	70-130	%REC	255089	1	02/02/2018 07:26	NP
Surr: Dibromofluoromethane	99.9		0	70-130	%REC	255089	1	02/02/2018 07:26	NP
Surr: Toluene-d8	105		0	70-130	%REC	255089	1	02/02/2018 07:26	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	255089	1	02/02/2018 07:26	NP
Ethanol	BRL		43	100	ug/L	255089	1	02/02/2018 07:26	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	255089	1	02/02/2018 07:26	NP
Isopropyl ether	BRL		3.8	10	ug/L	255089	1	02/02/2018 07:26	NP
tert-Amyl alcohol	BRL		28	100	ug/L	255089	1	02/02/2018 07:26	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	255089	1	02/02/2018 07:26	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	255089	1	02/02/2018 07:26	NP
tert-Butyl formate	BRL		13	100	ug/L	255089	1	02/02/2018 07:26	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 5-Feb-18

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 29
Project Name:	Clouds Exxon	**Collection Date:**	1/24/2018 9:25:00 AM
Lab ID:	1801N71-057	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	255089	1	02/02/2018 07:49	NP
Benzene	BRL		0.37	1.0	ug/L	255089	1	02/02/2018 07:49	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	255089	1	02/02/2018 07:49	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	255089	1	02/02/2018 07:49	NP
Naphthalene	BRL		0.93	5.0	ug/L	255089	1	02/02/2018 07:49	NP
Toluene	BRL		0.39	1.0	ug/L	255089	1	02/02/2018 07:49	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	255089	1	02/02/2018 07:49	NP
Surr: 4-Bromofluorobenzene	96.1		0	70-130	%REC	255089	1	02/02/2018 07:49	NP
Surr: Dibromofluoromethane	102		0	70-130	%REC	255089	1	02/02/2018 07:49	NP
Surr: Toluene-d8	104		0	70-130	%REC	255089	1	02/02/2018 07:49	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	255089	1	02/02/2018 07:49	NP
Ethanol	BRL		43	100	ug/L	255089	1	02/02/2018 07:49	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	255089	1	02/02/2018 07:49	NP
Isopropyl ether	BRL		3.8	10	ug/L	255089	1	02/02/2018 07:49	NP
tert-Amyl alcohol	BRL		28	100	ug/L	255089	1	02/02/2018 07:49	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	255089	1	02/02/2018 07:49	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	255089	1	02/02/2018 07:49	NP
tert-Butyl formate	BRL		13	100	ug/L	255089	1	02/02/2018 07:49	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 5-Feb-18

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 28
Project Name:	Clouds Exxon	**Collection Date:**	1/24/2018 9:35:00 AM
Lab ID:	1801N71-058	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	255089	1	02/02/2018 08:13	NP
Benzene	BRL		0.37	1.0	ug/L	255089	1	02/02/2018 08:13	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	255089	1	02/02/2018 08:13	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	255089	1	02/02/2018 08:13	NP
Naphthalene	BRL		0.93	5.0	ug/L	255089	1	02/02/2018 08:13	NP
Toluene	BRL		0.39	1.0	ug/L	255089	1	02/02/2018 08:13	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	255089	1	02/02/2018 08:13	NP
Surr: 4-Bromofluorobenzene	93.2		0	70-130	%REC	255089	1	02/02/2018 08:13	NP
Surr: Dibromofluoromethane	103		0	70-130	%REC	255089	1	02/02/2018 08:13	NP
Surr: Toluene-d8	104		0	70-130	%REC	255089	1	02/02/2018 08:13	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	255089	1	02/02/2018 08:13	NP
Ethanol	BRL		43	100	ug/L	255089	1	02/02/2018 08:13	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	255089	1	02/02/2018 08:13	NP
Isopropyl ether	BRL		3.8	10	ug/L	255089	1	02/02/2018 08:13	NP
tert-Amyl alcohol	BRL		28	100	ug/L	255089	1	02/02/2018 08:13	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	255089	1	02/02/2018 08:13	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	255089	1	02/02/2018 08:13	NP
tert-Butyl formate	BRL		13	100	ug/L	255089	1	02/02/2018 08:13	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 5-Feb-18

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 27
Project Name:	Clouds Exxon	**Collection Date:**	1/24/2018 9:45:00 AM
Lab ID:	1801N71-059	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	255089	1	02/02/2018 22:25	NP
Benzene	BRL		0.37	1.0	ug/L	255089	1	02/02/2018 22:25	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	255089	1	02/02/2018 22:25	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	255089	1	02/02/2018 22:25	NP
Naphthalene	BRL		0.93	5.0	ug/L	255089	1	02/02/2018 22:25	NP
Toluene	BRL		0.39	1.0	ug/L	255089	1	02/02/2018 22:25	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	255089	1	02/02/2018 22:25	NP
Surr: 4-Bromofluorobenzene	90.8		0	70-130	%REC	255089	1	02/02/2018 22:25	NP
Surr: Dibromofluoromethane	110		0	70-130	%REC	255089	1	02/02/2018 22:25	NP
Surr: Toluene-d8	105		0	70-130	%REC	255089	1	02/02/2018 22:25	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	255089	1	02/02/2018 09:23	NP
Ethanol	BRL		43	100	ug/L	255089	1	02/02/2018 09:23	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	255089	1	02/02/2018 09:23	NP
Isopropyl ether	BRL		3.8	10	ug/L	255089	1	02/02/2018 09:23	NP
tert-Amyl alcohol	BRL		28	100	ug/L	255089	1	02/02/2018 09:23	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	255089	1	02/02/2018 09:23	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	255089	1	02/02/2018 09:23	NP
tert-Butyl formate	BRL		13	100	ug/L	255089	1	02/02/2018 09:23	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 5-Feb-18

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 25
Project Name:	Clouds Exxon	**Collection Date:**	1/24/2018 9:55:00 AM
Lab ID:	1801N71-060	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	255089	1	02/02/2018 08:36	NP
Benzene	10		0.37	1.0	ug/L	255089	1	02/02/2018 08:36	NP
Ethylbenzene	270		2.6	10	ug/L	255089	10	02/02/2018 09:00	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	255089	1	02/02/2018 08:36	NP
Naphthalene	520		9.3	50	ug/L	255089	10	02/02/2018 09:00	NP
Toluene	200		3.9	10	ug/L	255089	10	02/02/2018 09:00	NP
Xylenes, Total	4700		7.7	10	ug/L	255089	10	02/02/2018 09:00	NP
Surr: 4-Bromofluorobenzene	102		0	70-130	%REC	255089	10	02/02/2018 09:00	NP
Surr: 4-Bromofluorobenzene	105		0	70-130	%REC	255089	1	02/02/2018 08:36	NP
Surr: Dibromofluoromethane	97.5		0	70-130	%REC	255089	1	02/02/2018 08:36	NP
Surr: Dibromofluoromethane	97		0	70-130	%REC	255089	10	02/02/2018 09:00	NP
Surr: Toluene-d8	105		0	70-130	%REC	255089	10	02/02/2018 09:00	NP
Surr: Toluene-d8	108		0	70-130	%REC	255089	1	02/02/2018 08:36	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	255089	1	02/02/2018 08:36	NP
Ethanol	BRL		43	100	ug/L	255089	1	02/02/2018 08:36	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	255089	1	02/02/2018 08:36	NP
Isopropyl ether	BRL		3.8	10	ug/L	255089	1	02/02/2018 08:36	NP
tert-Amyl alcohol	680		28	100	ug/L	255089	1	02/02/2018 08:36	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	255089	1	02/02/2018 08:36	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	255089	1	02/02/2018 08:36	NP
tert-Butyl formate	BRL		13	100	ug/L	255089	1	02/02/2018 08:36	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 5-Feb-18

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 22
Project Name:	Clouds Exxon	**Collection Date:**	1/24/2018 10:05:00 AM
Lab ID:	1801N71-061	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B					**(SW5030B)**				
1,2-Dichloroethane	BRL		37	100	ug/L	255094	100	01/31/2018 18:27	NP
Benzene	2500		37	100	ug/L	255094	100	01/31/2018 18:27	NP
Ethylbenzene	1600		26	100	ug/L	255094	100	01/31/2018 18:27	NP
Methyl tert-butyl ether	BRL		45	100	ug/L	255094	100	01/31/2018 18:27	NP
Naphthalene	850		93	500	ug/L	255094	100	01/31/2018 18:27	NP
Toluene	18000		200	500	ug/L	255094	500	02/02/2018 11:44	NP
Xylenes, Total	29000		77	100	ug/L	255094	100	01/31/2018 18:27	NP
Surr: 4-Bromofluorobenzene	98.8		0	70-130	%REC	255094	500	02/02/2018 11:44	NP
Surr: 4-Bromofluorobenzene	102		0	70-130	%REC	255094	100	01/31/2018 18:27	NP
Surr: Dibromofluoromethane	103		0	70-130	%REC	255094	500	02/02/2018 11:44	NP
Surr: Dibromofluoromethane	107		0	70-130	%REC	255094	100	01/31/2018 18:27	NP
Surr: Toluene-d8	105		0	70-130	%REC	255094	500	02/02/2018 11:44	NP
Surr: Toluene-d8	106		0	70-130	%REC	255094	100	01/31/2018 18:27	NP
Oxygenates SW8260B					**(SW5030B)**				
3,3-Dimethyl-1-butanol	BRL		2400	10000	ug/L	255094	100	01/31/2018 18:27	NP
Ethanol	BRL		4300	10000	ug/L	255094	100	01/31/2018 18:27	NP
Ethyl tert-butyl ether	BRL		360	10000	ug/L	255094	100	01/31/2018 18:27	NP
Isopropyl ether	BRL		380	1000	ug/L	255094	100	01/31/2018 18:27	NP
tert-Amyl alcohol	2900	J	2800	10000	ug/L	255094	100	01/31/2018 18:27	NP
tert-Amyl methyl ether	BRL		340	1000	ug/L	255094	100	01/31/2018 18:27	NP
tert-Butyl Alcohol	BRL		1300	10000	ug/L	255094	100	01/31/2018 18:27	NP
tert-Butyl formate	BRL		1300	10000	ug/L	255094	100	01/31/2018 18:27	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 5-Feb-18

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 5 AR
Project Name:	Clouds Exxon	**Collection Date:**	1/24/2018 10:30:00 AM
Lab ID:	1801N71-062	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B					(SW5030B)				
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	255094	1	02/02/2018 10:10	NP
Benzene	7000		37	100	ug/L	255094	100	02/02/2018 14:32	NP
Ethylbenzene	960		2.6	10	ug/L	255094	10	02/02/2018 10:34	NP
Methyl tert-butyl ether	19		0.45	1.0	ug/L	255094	1	02/02/2018 10:10	NP
Naphthalene	1100		9.3	50	ug/L	255094	10	02/02/2018 10:34	NP
Toluene	320		3.9	10	ug/L	255094	10	02/02/2018 10:34	NP
Xylenes, Total	2700		7.7	10	ug/L	255094	10	02/02/2018 10:34	NP
Surr: 4-Bromofluorobenzene	98.9		0	70-130	%REC	255094	100	02/02/2018 14:32	NP
Surr: 4-Bromofluorobenzene	103		0	70-130	%REC	255094	1	02/02/2018 10:10	NP
Surr: 4-Bromofluorobenzene	103		0	70-130	%REC	255094	10	02/02/2018 10:34	NP
Surr: Dibromofluoromethane	95.7		0	70-130	%REC	255094	1	02/02/2018 10:10	NP
Surr: Dibromofluoromethane	96.7		0	70-130	%REC	255094	10	02/02/2018 10:34	NP
Surr: Dibromofluoromethane	98.6		0	70-130	%REC	255094	100	02/02/2018 14:32	NP
Surr: Toluene-d8	104		0	70-130	%REC	255094	100	02/02/2018 14:32	NP
Surr: Toluene-d8	105		0	70-130	%REC	255094	10	02/02/2018 10:34	NP
Surr: Toluene-d8	108		0	70-130	%REC	255094	1	02/02/2018 10:10	NP
Oxygenates SW8260B					(SW5030B)				
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	255094	1	02/02/2018 10:10	NP
Ethanol	BRL		43	100	ug/L	255094	1	02/02/2018 10:10	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	255094	1	02/02/2018 10:10	NP
Isopropyl ether	150		3.8	10	ug/L	255094	1	02/02/2018 10:10	NP
tert-Amyl alcohol	2700		28	100	ug/L	255094	1	02/02/2018 10:10	NP
tert-Amyl methyl ether	49		3.4	10	ug/L	255094	1	02/02/2018 10:10	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	255094	1	02/02/2018 10:10	NP
tert-Butyl formate	BRL		13	100	ug/L	255094	1	02/02/2018 10:10	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 5-Feb-18

Client:	Crawford Environmental Services	**Client Sample ID:**	DW 4
Project Name:	Clouds Exxon	**Collection Date:**	1/24/2018 11:10:00 AM
Lab ID:	1801N71-063	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	255094	1	02/02/2018 22:48	NP
Benzene	5.6		0.37	1.0	ug/L	255094	1	02/02/2018 22:48	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	255094	1	02/02/2018 22:48	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	255094	1	02/02/2018 22:48	NP
Naphthalene	BRL		0.93	5.0	ug/L	255094	1	02/02/2018 22:48	NP
Toluene	1.4		0.39	1.0	ug/L	255094	1	02/02/2018 22:48	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	255094	1	02/02/2018 22:48	NP
Surr: 4-Bromofluorobenzene	84.9		0	70-130	%REC	255094	1	02/02/2018 22:48	NP
Surr: Dibromofluoromethane	109		0	70-130	%REC	255094	1	02/02/2018 22:48	NP
Surr: Toluene-d8	105		0	70-130	%REC	255094	1	02/02/2018 22:48	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	255094	1	02/02/2018 09:47	NP
Ethanol	BRL		43	100	ug/L	255094	1	02/02/2018 09:47	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	255094	1	02/02/2018 09:47	NP
Isopropyl ether	BRL		3.8	10	ug/L	255094	1	02/02/2018 09:47	NP
tert-Amyl alcohol	BRL		28	100	ug/L	255094	1	02/02/2018 09:47	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	255094	1	02/02/2018 09:47	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	255094	1	02/02/2018 09:47	NP
tert-Butyl formate	BRL		13	100	ug/L	255094	1	02/02/2018 09:47	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 5-Feb-18

Client:	Crawford Environmental Services	**Client Sample ID:**	DW 3
Project Name:	Clouds Exxon	**Collection Date:**	1/24/2018 11:50:00 AM
Lab ID:	1801N71-064	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	255094	1	02/02/2018 20:03	NP
Benzene	700		3.7	10	ug/L	255094	10	02/02/2018 20:27	NP
Ethylbenzene	210		2.6	10	ug/L	255094	10	02/02/2018 20:27	NP
Methyl tert-butyl ether	44		0.45	1.0	ug/L	255094	1	02/02/2018 20:03	NP
Naphthalene	68		0.93	5.0	ug/L	255094	1	02/02/2018 20:03	NP
Toluene	960		3.9	10	ug/L	255094	10	02/02/2018 20:27	NP
Xylenes, Total	410		0.77	1.0	ug/L	255094	1	02/02/2018 20:03	NP
Surr: 4-Bromofluorobenzene	96.6		0	70-130	%REC	255094	1	02/02/2018 20:03	NP
Surr: 4-Bromofluorobenzene	99.5		0	70-130	%REC	255094	10	02/02/2018 20:27	NP
Surr: Dibromofluoromethane	101		0	70-130	%REC	255094	1	02/02/2018 20:03	NP
Surr: Dibromofluoromethane	102		0	70-130	%REC	255094	10	02/02/2018 20:27	NP
Surr: Toluene-d8	105		0	70-130	%REC	255094	10	02/02/2018 20:27	NP
Surr: Toluene-d8	107		0	70-130	%REC	255094	1	02/02/2018 20:03	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	255094	1	02/02/2018 20:03	NP
Ethanol	BRL		43	100	ug/L	255094	1	02/02/2018 20:03	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	255094	1	02/02/2018 20:03	NP
Isopropyl ether	41		3.8	10	ug/L	255094	1	02/02/2018 20:03	NP
tert-Amyl alcohol	790		28	100	ug/L	255094	1	02/02/2018 20:03	NP
tert-Amyl methyl ether	10		3.4	10	ug/L	255094	1	02/02/2018 20:03	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	255094	1	02/02/2018 20:03	NP
tert-Butyl formate	BRL		13	100	ug/L	255094	1	02/02/2018 20:03	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 5-Feb-18

Client:	Crawford Environmental Services	**Client Sample ID:**	DUP 6
Project Name:	Clouds Exxon	**Collection Date:**	1/24/2018 11:55:00 AM
Lab ID:	1801N71-065	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	255094	1	02/02/2018 23:11	NP
Benzene	740		3.7	10	ug/L	255094	10	02/02/2018 23:35	NP
Ethylbenzene	220		2.6	10	ug/L	255094	10	02/02/2018 23:35	NP
Methyl tert-butyl ether	41		0.45	1.0	ug/L	255094	1	02/02/2018 23:11	NP
Naphthalene	67		0.93	5.0	ug/L	255094	1	02/02/2018 23:11	NP
Toluene	1000		3.9	10	ug/L	255094	10	02/02/2018 23:35	NP
Xylenes, Total	420		0.77	1.0	ug/L	255094	1	02/02/2018 23:11	NP
Surr: 4-Bromofluorobenzene	94		0	70-130	%REC	255094	10	02/02/2018 23:35	NP
Surr: 4-Bromofluorobenzene	98.4		0	70-130	%REC	255094	1	02/02/2018 23:11	NP
Surr: Dibromofluoromethane	103		0	70-130	%REC	255094	1	02/02/2018 23:11	NP
Surr: Dibromofluoromethane	105		0	70-130	%REC	255094	10	02/02/2018 23:35	NP
Surr: Toluene-d8	105		0	70-130	%REC	255094	10	02/02/2018 23:35	NP
Surr: Toluene-d8	108		0	70-130	%REC	255094	1	02/02/2018 23:11	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	255094	1	02/02/2018 23:11	NP
Ethanol	BRL		43	100	ug/L	255094	1	02/02/2018 23:11	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	255094	1	02/02/2018 23:11	NP
Isopropyl ether	40		3.8	10	ug/L	255094	1	02/02/2018 23:11	NP
tert-Amyl alcohol	730		28	100	ug/L	255094	1	02/02/2018 23:11	NP
tert-Amyl methyl ether	10		3.4	10	ug/L	255094	1	02/02/2018 23:11	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	255094	1	02/02/2018 23:11	NP
tert-Butyl formate	BRL		13	100	ug/L	255094	1	02/02/2018 23:11	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 5-Feb-18

Client:	Crawford Environmental Services	**Client Sample ID:**	TRIP BLANK 1
Project Name:	Clouds Exxon	**Collection Date:**	1/24/2018
Lab ID:	1801N71-066	**Matrix:**	Aqueous

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	255094	1	02/01/2018 13:45	NP
Benzene	BRL		0.37	1.0	ug/L	255094	1	02/01/2018 13:45	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	255094	1	02/01/2018 13:45	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	255094	1	02/01/2018 13:45	NP
Naphthalene	BRL		0.93	5.0	ug/L	255094	1	02/01/2018 13:45	NP
Toluene	BRL		0.39	1.0	ug/L	255094	1	02/01/2018 13:45	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	255094	1	02/01/2018 13:45	NP
Surr: 4-Bromofluorobenzene	86.4		0	70-130	%REC	255094	1	02/01/2018 13:45	NP
Surr: Dibromofluoromethane	109		0	70-130	%REC	255094	1	02/01/2018 13:45	NP
Surr: Toluene-d8	103		0	70-130	%REC	255094	1	02/01/2018 13:45	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	255094	1	02/01/2018 13:45	NP
Ethanol	BRL		43	100	ug/L	255094	1	02/01/2018 13:45	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	255094	1	02/01/2018 13:45	NP
Isopropyl ether	BRL		3.8	10	ug/L	255094	1	02/01/2018 13:45	NP
tert-Amyl alcohol	BRL		28	100	ug/L	255094	1	02/01/2018 13:45	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	255094	1	02/01/2018 13:45	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	255094	1	02/01/2018 13:45	NP
tert-Butyl formate	BRL		13	100	ug/L	255094	1	02/01/2018 13:45	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 5-Feb-18

Client:	Crawford Environmental Services	**Client Sample ID:**	TRIP BLANK 2
Project Name:	Clouds Exxon	**Collection Date:**	1/24/2018
Lab ID:	1801N71-067	**Matrix:**	Aqueous

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	255094	1	02/01/2018 14:08	NP
Benzene	BRL		0.37	1.0	ug/L	255094	1	02/01/2018 14:08	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	255094	1	02/01/2018 14:08	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	255094	1	02/01/2018 14:08	NP
Naphthalene	BRL		0.93	5.0	ug/L	255094	1	02/01/2018 14:08	NP
Toluene	BRL		0.39	1.0	ug/L	255094	1	02/01/2018 14:08	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	255094	1	02/01/2018 14:08	NP
Surr: 4-Bromofluorobenzene	90.4		0	70-130	%REC	255094	1	02/01/2018 14:08	NP
Surr: Dibromofluoromethane	110		0	70-130	%REC	255094	1	02/01/2018 14:08	NP
Surr: Toluene-d8	107		0	70-130	%REC	255094	1	02/01/2018 14:08	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	255094	1	02/01/2018 14:08	NP
Ethanol	BRL		43	100	ug/L	255094	1	02/01/2018 14:08	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	255094	1	02/01/2018 14:08	NP
Isopropyl ether	BRL		3.8	10	ug/L	255094	1	02/01/2018 14:08	NP
tert-Amyl alcohol	BRL		28	100	ug/L	255094	1	02/01/2018 14:08	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	255094	1	02/01/2018 14:08	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	255094	1	02/01/2018 14:08	NP
tert-Butyl formate	BRL		13	100	ug/L	255094	1	02/01/2018 14:08	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 5-Feb-18

Client:	Crawford Environmental Services	**Client Sample ID:**	TRIP BLANK 3
Project Name:	Clouds Exxon	**Collection Date:**	1/24/2018
Lab ID:	1801N71-068	**Matrix:**	Aqueous

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	255094	1	02/01/2018 14:32	NP
Benzene	BRL		0.37	1.0	ug/L	255094	1	02/01/2018 14:32	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	255094	1	02/01/2018 14:32	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	255094	1	02/01/2018 14:32	NP
Naphthalene	BRL		0.93	5.0	ug/L	255094	1	02/01/2018 14:32	NP
Toluene	BRL		0.39	1.0	ug/L	255094	1	02/01/2018 14:32	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	255094	1	02/01/2018 14:32	NP
Surr: 4-Bromofluorobenzene	91		0	70-130	%REC	255094	1	02/01/2018 14:32	NP
Surr: Dibromofluoromethane	109		0	70-130	%REC	255094	1	02/01/2018 14:32	NP
Surr: Toluene-d8	108		0	70-130	%REC	255094	1	02/01/2018 14:32	NP
Oxygenates SW8260B (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	255094	1	02/01/2018 14:32	NP
Ethanol	BRL		43	100	ug/L	255094	1	02/01/2018 14:32	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	255094	1	02/01/2018 14:32	NP
Isopropyl ether	BRL		3.8	10	ug/L	255094	1	02/01/2018 14:32	NP
tert-Amyl alcohol	BRL		28	100	ug/L	255094	1	02/01/2018 14:32	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	255094	1	02/01/2018 14:32	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	255094	1	02/01/2018 14:32	NP
tert-Butyl formate	BRL		13	100	ug/L	255094	1	02/01/2018 14:32	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Clear Save as

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: **Access Analytical, Inc.** AES Work Order Number: **1801N71**

2. Carrier: FedEx ■ UPS ☐ USPS ☐ Client ☐ Courier ☐ Other: _____

		Yes	No	N/A	Details	Comments
3.	Shipping container/cooler received in good condition?	⊙	○	○	damaged ☐ leaking ☐ other ☐	
4.	Custody seals present on shipping container?	○	⊙	○		
5.	Custody seals intact on shipping container?	○	○	⊙		
6.	Temperature blanks present?	○	⊙	○		
7.	Cooler temperature(s) within limits of 0-6°C? (See item 13 and 14 for temperature recordings.)	⊙	○	○	Cooling initiated for recently collected samples / ice present ☐	
8.	Chain of Custody (COC) present?	⊙	○	○		
9.	Chain of Custody signed, dated, and timed when relinquished and received?	⊙	○	○		
10.	Sampler name and/or signature on COC?	⊙	○	○		
11.	Were all samples received within holding time?	⊙	○	○		
12.	TAT marked on the COC?	⊙	○	○	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. ☐	

13. Cooler 1 Temperature 1.6 °C Cooler 2 Temperature 3.6 °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C

14. Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). MDP 1/30/18

		Yes	No	N/A	Details	Comments
16.	Were sample containers intact upon receipt?	○	⊙	○		
17.	Custody seals present on sample containers?	○	⊙	○		
18.	Custody seals intact on sample containers?	○	○	⊙		
19.	Do sample container labels match the COC?	○	⊙	○	incomplete info ☐ illegible ☐ no label ☐ other ■	
20.	Are analyses requested indicated on the COC?	⊙	○	○		
21.	Were all of the samples listed on the COC received?	⊙	○	○	samples received but not listed on COC ☐ samples listed on COC not received ☐	
22.	Was the sample collection date/time noted?	⊙	○	○		
23.	Did we receive sufficient sample volume for indicated analyses?	⊙	○	○		
24.	Were samples received in appropriate containers?	⊙	○	○		
25.	Were VOA samples received without headspace (< 1/4" bubble)?	⊙	○	○		
26.	Were trip blanks submitted?	⊙	○	○	listed on COC ☐ not listed on COC ■	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). MDP 1/30/18

This section only applies to samples where pH can be checked at Sample Receipt.

		Yes	No	N/A	Details	Comments
28.	Have containers needing chemical preservation been checked? *	○	○	⊙		
29.	Containers meet preservation guidelines?	○	○	⊙		
30.	Was pH adjusted at Sample Receipt?	○	○	⊙		

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

I certify that I have completed sections 28-30 (dated initials). MDP 1/30/18

Checklist 6.9.17 Rev 2

Locked

Client: Crawford Environmental Services
Project Name: Clouds Exxon
Workorder: 1801N71

ANALYTICAL QC SUMMARY REPORT

BatchID: 255082

Sample ID: MB-255082	Client ID:		Units: ug/L	Prep Date: 01/31/2018	Run No: 362046
SampleType: MBLK	TestCode: Volatile Organic Compounds by GC/MS SW8260B		BatchID: 255082	Analysis Date: 01/31/2018	Seq No: 7996344

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	BRL	1.0									
Benzene	BRL	1.0									
Ethylbenzene	BRL	1.0									
Methyl tert-butyl ether	BRL	1.0									
Naphthalene	BRL	5.0									
Toluene	BRL	1.0									
Xylenes, Total	BRL	1.0									
Surr: 4-Bromofluorobenzene	45.60	0	50.00		91.2	70	130				
Surr: Dibromofluoromethane	53.66	0	50.00		107	70	130				
Surr: Toluene-d8	51.97	0	50.00		104	70	130				

Sample ID: MB-255082	Client ID:		Units: ug/L	Prep Date: 01/31/2018	Run No: 362046
SampleType: MBLK	TestCode: Oxygenates SW8260B		BatchID: 255082	Analysis Date: 01/31/2018	Seq No: 7996817

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
3,3-Dimethyl-1-butanol	BRL	100									
Ethanol	BRL	100									
Ethyl tert-butyl ether	BRL	100									
Isopropyl ether	BRL	10									
tert-Amyl alcohol	BRL	100									
tert-Amyl methyl ether	BRL	10									
tert-Butyl Alcohol	BRL	100									
tert-Butyl formate	BRL	100									

Sample ID: LCS-255082	Client ID:		Units: ug/L	Prep Date: 01/31/2018	Run No: 362046
SampleType: LCS	TestCode: Volatile Organic Compounds by GC/MS SW8260B		BatchID: 255082	Analysis Date: 01/31/2018	Seq No: 7996352

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Qualifiers:					
	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method Blank		
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded		
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix		
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix			

Client: Crawford Environmental Services
Project Name: Clouds Exxon
Workorder: 1801N71

ANALYTICAL QC SUMMARY REPORT

BatchID: 255082

Sample ID: **LCS-255082**	Client ID:	Units: **ug/L**	Prep Date: **01/31/2018**	Run No: **362046**
SampleType: **LCS**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**	BatchID: **255082**	Analysis Date: **01/31/2018**	Seq No: **7996352**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	25.40	1.0	20.00		127	70	130				
Benzene	24.62	1.0	20.00		123	70	130				
Ethylbenzene	23.86	1.0	20.00		119	70	130				
Naphthalene	17.37	5.0	20.00		86.8	70	130				
Toluene	23.99	1.0	20.00		120	70	130				
Xylenes, Total	75.42	1.0	60.00		126	70	130				
Surr: 4-Bromofluorobenzene	49.95	0	50.00		99.9	70	130				
Surr: Dibromofluoromethane	55.52	0	50.00		111	70	130				
Surr: Toluene-d8	53.77	0	50.00		108	70	130				

Sample ID: **LCS-255082**	Client ID:	Units: **ug/L**	Prep Date: **01/31/2018**	Run No: **362046**
SampleType: **LCS**	TestCode: **Oxygenates SW8260B**	BatchID: **255082**	Analysis Date: **01/31/2018**	Seq No: **7996816**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
3,3-Dimethyl-1-butanol	438.3	100	500.0		87.7	70	130				
Ethanol	417.4	100	500.0		83.5	70	130				
Ethyl tert-butyl ether	93.12	20	100.0		93.1	70	130				
Isopropyl ether	91.95	10	100.0		92.0	70	130				
tert-Amyl alcohol	449.0	100	500.0		89.8	70	130				
tert-Amyl methyl ether	93.71	10	100.0		93.7	70	130				
tert-Butyl Alcohol	445.0	100	500.0		89.0	70	130				
tert-Butyl formate	525.6	100	500.0		105	70	130				

Sample ID: **1801N71-004AMS**	Client ID: **MW 3**	Units: **ug/L**	Prep Date: **01/31/2018**	Run No: **362046**
SampleType: **MS**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**	BatchID: **255082**	Analysis Date: **01/31/2018**	Seq No: **7996358**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	2101	100	2000		105	67	133				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method Blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Crawford Environmental Services
Project Name: Clouds Exxon
Workorder: 1801N71

ANALYTICAL QC SUMMARY REPORT

BatchID: 255082

Sample ID: 1801N71-004AMS	Client ID: MW 3	Units: ug/L	Prep Date: 01/31/2018	Run No: 362046
SampleType: MS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 255082	Analysis Date: 01/31/2018	Seq No: 7996358

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	10290	100	2000	8392	94.8	66.1	137				
Ethylbenzene	4522	100	2000	2431	105	74	134				
Naphthalene	2430	500	2000	738.0	84.6	56.5	132				
Toluene	40070	100	2000	39210	43.3	63.8	141				SE
Xylenes, Total	34480	100	6000	28670	96.8	77.9	138				
Surr: 4-Bromofluorobenzene	5085	0	5000		102	70	130				
Surr: Dibromofluoromethane	5399	0	5000		108	70	130				
Surr: Toluene-d8	5319	0	5000		106	70	130				

Sample ID: 1801N71-004AMS	Client ID: MW 3	Units: ug/L	Prep Date: 01/31/2018	Run No: 362046
SampleType: MS	TestCode: Oxygenates SW8260B	BatchID: 255082	Analysis Date: 01/31/2018	Seq No: 7996821

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
3,3-Dimethyl-1-butanol	49180	10000	50000		98.4	62.1	130				
Ethanol	40230	10000	50000		80.5	61.6	132				
Ethyl tert-butyl ether	10790	2000	10000		108	69.8	129				
Isopropyl ether	11010	1000	10000		110	69.9	129				
tert-Amyl alcohol	56170	10000	50000		112	69.7	131				
tert-Amyl methyl ether	11290	1000	10000	371.0	109	69.9	130				
tert-Butyl Alcohol	51200	10000	50000		102	65.2	135				
tert-Butyl formate	62790	10000	50000		126	60	128				

Sample ID: 1801N71-004AMSD	Client ID: MW 3	Units: ug/L	Prep Date: 01/31/2018	Run No: 362046
SampleType: MSD	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 255082	Analysis Date: 01/31/2018	Seq No: 7996361

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	2005	100	2000		100	67	133	2101	4.68	20	
Benzene	9661	100	2000	8392	63.4	66.1	137	10290	6.30	20	S

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method Blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Crawford Environmental Services
Project Name: Clouds Exxon
Workorder: 1801N71

ANALYTICAL QC SUMMARY REPORT

BatchID: 255082

Sample ID: **1801N71-004AMSD**	Client ID: **MW 3**			Units: **ug/L**	Prep Date: **01/31/2018**	Run No: **362046**
SampleType: **MSD**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**			BatchID: **255082**	Analysis Date: **01/31/2018**	Seq No: **7996361**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethylbenzene	4403	100	2000	2431	98.6	74	134	4522	2.67	20	
Naphthalene	2397	500	2000	738.0	83.0	56.5	132	2430	1.37	41.6	
Toluene	37980	100	2000	39210	-61.5	63.8	141	40070	5.37	20	SE
Xylenes, Total	33400	100	6000	28670	78.8	77.9	138	34480	3.18	20	
Surr: 4-Bromofluorobenzene	5022	0	5000		100	70	130	5085	0	0	
Surr: Dibromofluoromethane	5254	0	5000		105	70	130	5399	0	0	
Surr: Toluene-d8	5226	0	5000		105	70	130	5319	0	0	

Sample ID: **1801N71-004AMSD**	Client ID: **MW 3**			Units: **ug/L**	Prep Date: **01/31/2018**	Run No: **362046**
SampleType: **MSD**	TestCode: **Oxygenates SW8260B**			BatchID: **255082**	Analysis Date: **01/31/2018**	Seq No: **7996822**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
3,3-Dimethyl-1-butanol	51910	10000	50000		104	62.1	130	49180	5.40	23.1	
Ethanol	38160	10000	50000		76.3	61.6	132	40230	5.27	30.3	
Ethyl tert-butyl ether	10320	2000	10000		103	69.8	129	10790	4.45	17.6	
Isopropyl ether	10480	1000	10000		105	69.9	129	11010	4.98	17.6	
tert-Amyl alcohol	55350	10000	50000		111	69.7	131	56170	1.47	24.6	
tert-Amyl methyl ether	10680	1000	10000	371.0	103	69.9	130	11290	5.52	17.8	
tert-Butyl Alcohol	51700	10000	50000		103	65.2	135	51200	0.974	30.9	
tert-Butyl formate	59450	10000	50000		119	60	128	62790	5.46	18.1	

Qualifiers:

>	Greater than Result value	<	Less than Result value
BRL	Below reporting limit	E	Estimated (value above quantitation range)
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix
B	Analyte detected in the associated method blank		
H	Holding times for preparation or analysis exceeded		
R	RPD outside limits due to matrix		

Analytical Environmental Services, Inc Date: 5-Feb-18

Client: Crawford Environmental Services
Project Name: Clouds Exxon
Workorder: 1801N71

ANALYTICAL QC SUMMARY REPORT

BatchID: 255085

Sample ID: **MB-255085**	Client ID:			Units: **ug/L**	Prep Date: **01/31/2018**	Run No: **362046**
SampleType: **MBLK**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**			BatchID: **255085**	Analysis Date: **01/31/2018**	Seq No: **7996347**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	BRL	1.0									
Benzene	BRL	1.0									
Ethylbenzene	BRL	1.0									
Methyl tert-butyl ether	BRL	1.0									
Naphthalene	BRL	5.0									
Toluene	BRL	1.0									
Xylenes, Total	BRL	1.0									
Surr: 4-Bromofluorobenzene	45.42	0	50.00		90.8	70	130				
Surr: Dibromofluoromethane	53.73	0	50.00		107	70	130				
Surr: Toluene-d8	52.54	0	50.00		105	70	130				

Sample ID: **MB-255085**	Client ID:			Units: **ug/L**	Prep Date: **01/31/2018**	Run No: **362046**
SampleType: **MBLK**	TestCode: **Oxygenates SW8260B**			BatchID: **255085**	Analysis Date: **01/31/2018**	Seq No: **7996818**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
3,3-Dimethyl-1-butanol	BRL	100									
Ethanol	BRL	100									
Ethyl tert-butyl ether	BRL	100									
Isopropyl ether	BRL	10									
tert-Amyl alcohol	BRL	100									
tert-Amyl methyl ether	BRL	10									
tert-Butyl Alcohol	BRL	100									
tert-Butyl formate	BRL	100									

Sample ID: **LCS-255085**	Client ID:			Units: **ug/L**	Prep Date: **01/31/2018**	Run No: **362046**
SampleType: **LCS**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**			BatchID: **255085**	Analysis Date: **01/31/2018**	Seq No: **7996350**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method Blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Crawford Environmental Services
Project Name: Clouds Exxon
Workorder: 1801N71

ANALYTICAL QC SUMMARY REPORT

BatchID: 255085

Sample ID: **LCS-255085** Client ID: Units: **ug/L** Prep Date: **01/31/2018** Run No: **362046**
SampleType: **LCS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **255085** Analysis Date: **01/31/2018** Seq No: **7996350**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	22.22	1.0	20.00		111	70	130				
Benzene	21.22	1.0	20.00		106	70	130				
Ethylbenzene	21.10	1.0	20.00		106	70	130				
Naphthalene	15.38	5.0	20.00		76.9	70	130				
Toluene	20.35	1.0	20.00		102	70	130				
Xylenes, Total	66.43	1.0	60.00		111	70	130				
Surr: 4-Bromofluorobenzene	49.85	0	50.00		99.7	70	130				
Surr: Dibromofluoromethane	54.46	0	50.00		109	70	130				
Surr: Toluene-d8	52.48	0	50.00		105	70	130				

Sample ID: **LCS-255085** Client ID: Units: **ug/L** Prep Date: **01/31/2018** Run No: **362046**
SampleType: **LCS** TestCode: **Oxygenates SW8260B** BatchID: **255085** Analysis Date: **01/31/2018** Seq No: **7996819**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
3,3-Dimethyl-1-butanol	399.6	100	500.0		79.9	70	130				
Ethanol	447.6	100	500.0		89.5	70	130				
Ethyl tert-butyl ether	102.0	20	100.0		102	70	130				
Isopropyl ether	104.1	10	100.0		104	70	130				
tert-Amyl alcohol	460.9	100	500.0		92.2	70	130				
tert-Amyl methyl ether	100.8	10	100.0		101	70	130				
tert-Butyl Alcohol	421.0	100	500.0		84.2	70	130				
tert-Butyl formate	595.3	100	500.0		119	70	130				

Sample ID: **1801N71-002AMS** Client ID: **DW 1** Units: **ug/L** Prep Date: **01/31/2018** Run No: **362046**
SampleType: **MS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **255085** Analysis Date: **01/31/2018** Seq No: **7996371**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	23.60	1.0	20.00		118	67	133				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method Blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Crawford Environmental Services
Project Name: Clouds Exxon
Workorder: 1801N71

ANALYTICAL QC SUMMARY REPORT

BatchID: 255085

Sample ID: 1801N71-002AMS	Client ID: DW 1			Units: ug/L		Prep Date: 01/31/2018		Run No: 362046	
SampleType: MS	TestCode: Volatile Organic Compounds by GC/MS SW8260B			BatchID: 255085		Analysis Date: 01/31/2018		Seq No: 7996371	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	22.53	1.0	20.00		113	66.1	137				
Ethylbenzene	22.66	1.0	20.00		113	74	134				
Naphthalene	15.90	5.0	20.00	1.360	72.7	56.5	132				
Toluene	22.12	1.0	20.00		111	63.8	141				
Xylenes, Total	69.78	1.0	60.00		116	77.9	138				
Surr: 4-Bromofluorobenzene	50.63	0	50.00		101	70	130				
Surr: Dibromofluoromethane	52.70	0	50.00		105	70	130				
Surr: Toluene-d8	52.44	0	50.00		105	70	130				

Sample ID: 1801N71-002AMS	Client ID: DW 1			Units: ug/L		Prep Date: 01/31/2018		Run No: 362046	
SampleType: MS	TestCode: Oxygenates SW8260B			BatchID: 255085		Analysis Date: 01/31/2018		Seq No: 7996824	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
3,3-Dimethyl-1-butanol	407.9	100	500.0		81.6	62.1	130				
Ethanol	373.9	100	500.0		74.8	61.6	132				
Ethyl tert-butyl ether	108.1	20	100.0		108	69.8	129				
Isopropyl ether	111.9	10	100.0		112	69.9	129				
tert-Amyl alcohol	494.8	100	500.0		99.0	69.7	131				
tert-Amyl methyl ether	106.0	10	100.0		106	69.9	130				
tert-Butyl Alcohol	563.7	100	500.0		113	65.2	135				
tert-Butyl formate	349.3	100	500.0		69.9	60	128				

Sample ID: 1801N71-002AMSD	Client ID: DW 1			Units: ug/L		Prep Date: 01/31/2018		Run No: 362046	
SampleType: MSD	TestCode: Volatile Organic Compounds by GC/MS SW8260B			BatchID: 255085		Analysis Date: 01/31/2018		Seq No: 7996372	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	22.34	1.0	20.00		112	67	133	23.60	5.49	20	
Benzene	21.28	1.0	20.00		106	66.1	137	22.53	5.71	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method Blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Crawford Environmental Services
Project Name: Clouds Exxon
Workorder: 1801N71

ANALYTICAL QC SUMMARY REPORT

BatchID: 255085

Sample ID: **1801N71-002AMSD**	Client ID: **DW 1**			Units: **ug/L**	Prep Date: **01/31/2018**	Run No: **362046**
SampleType: **MSD**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**			BatchID: **255085**	Analysis Date: **01/31/2018**	Seq No: **7996372**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethylbenzene	21.82	1.0	20.00		109	74	134	22.66	3.78	20	
Naphthalene	15.30	5.0	20.00	1.360	69.7	56.5	132	15.90	3.85	41.6	
Toluene	20.81	1.0	20.00		104	63.8	141	22.12	6.10	20	
Xylenes, Total	68.40	1.0	60.00		114	77.9	138	69.78	2.00	20	
Surr: 4-Bromofluorobenzene	50.42	0	50.00		101	70	130	50.63	0	0	
Surr: Dibromofluoromethane	53.05	0	50.00		106	70	130	52.70	0	0	
Surr: Toluene-d8	52.06	0	50.00		104	70	130	52.44	0	0	

Sample ID: **1801N71-002AMSD**	Client ID: **DW 1**			Units: **ug/L**	Prep Date: **01/31/2018**	Run No: **362046**
SampleType: **MSD**	TestCode: **Oxygenates SW8260B**			BatchID: **255085**	Analysis Date: **01/31/2018**	Seq No: **7996825**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
3,3-Dimethyl-1-butanol	486.5	100	500.0		97.3	62.1	130	407.9	17.6	23.1	
Ethanol	391.4	100	500.0		78.3	61.6	132	373.9	4.56	30.3	
Ethyl tert-butyl ether	102.0	20	100.0		102	69.8	129	108.1	5.85	17.6	
Isopropyl ether	105.8	10	100.0		106	69.9	129	111.9	5.57	17.6	
tert-Amyl alcohol	531.4	100	500.0		106	69.7	131	494.8	7.13	24.6	
tert-Amyl methyl ether	101.8	10	100.0		102	69.9	130	106.0	4.04	17.8	
tert-Butyl Alcohol	648.5	100	500.0		130	65.2	135	563.7	14.0	30.9	
tert-Butyl formate	276.2	100	500.0		55.2	60	128	349.3	23.4	18.1	SR

Qualifiers:

>	Greater than Result value	<	Less than Result value
B	Analyte detected in the associated method Blank	BRL	Below reporting limit
E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified
R	RPD outside limits due to matrix	Rpt Lim	Reporting Limit
S	Spike Recovery outside limits due to matrix		

Analytical Environmental Services, Inc Date: 5-Feb-18

Client: Crowford Environmental Services
Project Name: Clouds Exxon
Workorder: 1801N71

ANALYTICAL QC SUMMARY REPORT

BatchID: 255089

Sample ID: MB-255089	Client ID:				Units: ug/L		Prep Date: 01/31/2018		Run No: 362046
SampleType: MBLK	TestCode: Volatile Organic Compounds by GC/MS SW8260B				BatchID: 255089		Analysis Date: 01/31/2018		Seq No: 7996738
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	BRL	1.0									
Benzene	BRL	1.0									
Ethylbenzene	BRL	1.0									
Methyl tert-butyl ether	BRL	1.0									
Naphthalene	BRL	5.0									
Toluene	BRL	1.0									
Xylenes, Total	BRL	1.0									
Surr: 4-Bromofluorobenzene	45.87	0	50.00		91.7	70	130				
Surr: Dibromofluoromethane	54.30	0	50.00		109	70	130				
Surr: Toluene-d8	52.44	0	50.00		105	70	130				

Sample ID: MB-255089	Client ID:				Units: ug/L		Prep Date: 01/31/2018		Run No: 362046
SampleType: MBLK	TestCode: Oxygenates SW8260B				BatchID: 255089		Analysis Date: 01/31/2018		Seq No: 7996827
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
3,3-Dimethyl-1-butanol	BRL	100									
Ethanol	BRL	100									
Ethyl tert-butyl ether	BRL	100									
Isopropyl ether	BRL	10									
tert-Amyl alcohol	BRL	100									
tert-Amyl methyl ether	BRL	10									
tert-Butyl Alcohol	BRL	100									
tert-Butyl formate	BRL	100									

Sample ID: LCS-255089	Client ID:				Units: ug/L		Prep Date: 01/31/2018		Run No: 362046
SampleType: LCS	TestCode: Volatile Organic Compounds by GC/MS SW8260B				BatchID: 255089		Analysis Date: 01/31/2018		Seq No: 7996743
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method Blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Crawford Environmental Services
Project Name: Clouds Exxon
Workorder: 1801N71

ANALYTICAL QC SUMMARY REPORT

BatchID: 255089

Sample ID: **LCS-255089**	Client ID:		Units: **ug/L**	Prep Date: **01/31/2018**	Run No: **362046**
SampleType: **LCS**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**		BatchID: **255089**	Analysis Date: **01/31/2018**	Seq No: **7996743**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	19.90	1.0	20.00		99.5	70	130				
Benzene	19.23	1.0	20.00		96.2	70	130				
Ethylbenzene	18.72	1.0	20.00		93.6	70	130				
Naphthalene	16.37	5.0	20.00		81.8	70	130				
Toluene	18.84	1.0	20.00		94.2	70	130				
Xylenes, Total	60.36	1.0	60.00		101	70	130				
Surr: 4-Bromofluorobenzene	50.83	0	50.00		102	70	130				
Surr: Dibromofluoromethane	54.10	0	50.00		108	70	130				
Surr: Toluene-d8	51.75	0	50.00		104	70	130				

Sample ID: **LCS-255089**	Client ID:		Units: **ug/L**	Prep Date: **01/31/2018**	Run No: **362046**
SampleType: **LCS**	TestCode: **Oxygenates SW8260B**		BatchID: **255089**	Analysis Date: **01/31/2018**	Seq No: **7996832**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
3,3-Dimethyl-1-butanol	563.0	100	500.0		113	70	130				
Ethanol	600.6	100	500.0		120	70	130				
Ethyl tert-butyl ether	110.0	20	100.0		110	70	130				
Isopropyl ether	113.9	10	100.0		114	70	130				
tert-Amyl alcohol	612.0	100	500.0		122	70	130				
tert-Amyl methyl ether	114.3	10	100.0		114	70	130				
tert-Butyl Alcohol	616.8	100	500.0		123	70	130				
tert-Butyl formate	640.2	100	500.0		128	70	130				

Sample ID: **1801N71-045AMS**	Client ID: **PW 1R**		Units: **ug/L**	Prep Date: **01/31/2018**	Run No: **362046**
SampleType: **MS**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**		BatchID: **255089**	Analysis Date: **01/31/2018**	Seq No: **7996741**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	2170	100	2000		108	67	133				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method Blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Crawford Environmental Services
Project Name: Clouds Exxon
Workorder: 1801N71

ANALYTICAL QC SUMMARY REPORT

BatchID: 255089

Sample ID: **1801N71-045AMS**	Client ID: **PW 1R**			Units: **ug/L**		Prep Date: **01/31/2018**		Run No: **362046**	
SampleType: **MS**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**			BatchID: **255089**		Analysis Date: **01/31/2018**		Seq No: **7996741**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	2219	100	2000	366.0	92.6	66.1	137				
Ethylbenzene	2393	100	2000	479.0	95.7	74	134				
Naphthalene	2003	500	2000	344.0	83.0	56.5	132				
Toluene	5467	100	2000	4315	57.6	63.8	141				S
Xylenes, Total	17660	100	6000	13170	74.9	77.9	138				S
Surr: 4-Bromofluorobenzene	5320	0	5000		106	70	130				
Surr: Dibromofluoromethane	5349	0	5000		107	70	130				
Surr: Toluene-d8	5316	0	5000		106	70	130				

Sample ID: **1801N71-045AMS**	Client ID: **PW 1R**			Units: **ug/L**		Prep Date: **01/31/2018**		Run No: **362046**	
SampleType: **MS**	TestCode: **Oxygenates SW8260B**			BatchID: **255089**		Analysis Date: **01/31/2018**		Seq No: **7996830**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
3,3-Dimethyl-1-butanol	53880	10000	50000		108	62.1	130				
Ethanol	40550	10000	50000		81.1	61.6	132				
Ethyl tert-butyl ether	10170	2000	10000		102	69.8	129				
Isopropyl ether	10590	1000	10000		106	69.9	129				
tert-Amyl alcohol	54550	10000	50000		109	69.7	131				
tert-Amyl methyl ether	10130	1000	10000		101	69.9	130				
tert-Butyl Alcohol	51160	10000	50000		102	65.2	135				
tert-Butyl formate	61870	10000	50000		124	60	128				

Sample ID: **1801N71-045AMSD**	Client ID: **PW 1R**			Units: **ug/L**		Prep Date: **01/31/2018**		Run No: **362046**	
SampleType: **MSD**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**			BatchID: **255089**		Analysis Date: **01/31/2018**		Seq No: **7996742**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	1905	100	2000		95.2	67	133	2170	13.0	20	
Benzene	2169	100	2000	366.0	90.2	66.1	137	2219	2.28	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method Blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Crawford Environmental Services
Project Name: Clouds Exxon
Workorder: 1801N71

ANALYTICAL QC SUMMARY REPORT

BatchID: 255089

Sample ID: **1801N71-045AMSD** Client ID: **PW 1R** Units: **ug/L** Prep Date: **01/31/2018** Run No: **362046**
SampleType: **MSD** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **255089** Analysis Date: **01/31/2018** Seq No: **7996742**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethylbenzene	2342	100	2000	479.0	93.2	74	134	2393	2.15	20	
Naphthalene	1955	500	2000	344.0	80.6	56.5	132	2003	2.43	41.6	
Toluene	5299	100	2000	4315	49.2	63.8	141	5467	3.12	20	S
Xylenes, Total	16990	100	6000	13170	63.7	77.9	138	17660	3.87	20	S
Surr: 4-Bromofluorobenzene	5177	0	5000		104	70	130	5320	0	0	
Surr: Dibromofluoromethane	5401	0	5000		108	70	130	5349	0	0	
Surr: Toluene-d8	5299	0	5000		106	70	130	5316	0	0	

Sample ID: **1801N71-045AMSD** Client ID: **PW 1R** Units: **ug/L** Prep Date: **01/31/2018** Run No: **362046**
SampleType: **MSD** TestCode: **Oxygenates SW8260B** BatchID: **255089** Analysis Date: **01/31/2018** Seq No: **7996831**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
3,3-Dimethyl-1-butanol	47980	10000	50000		96.0	62.1	130	53880	11.6	23.1	
Ethanol	48820	10000	50000		97.6	61.6	132	40550	18.5	30.3	
Ethyl tert-butyl ether	10170	2000	10000		102	69.8	129	10170	0.010	17.6	
Isopropyl ether	10570	1000	10000		106	69.9	129	10590	0.246	17.6	
tert-Amyl alcohol	55730	10000	50000		111	69.7	131	54550	2.15	24.6	
tert-Amyl methyl ether	10270	1000	10000		103	69.9	130	10130	1.30	17.8	
tert-Butyl Alcohol	52840	10000	50000		106	65.2	135	51160	3.23	30.9	
tert-Butyl formate	61050	10000	50000		122	60	128	61870	1.32	18.1	

Qualifiers:
> Greater than Result value
< Less than Result value
B Analyte detected in the associated method Blank
BRL Below reporting limit
E Estimated (value above quantitation range)
H Holding times for preparation or analysis exceeded
J Estimated value detected below Reporting Limit
N Analyte not NELAC certified
R RPD outside limits due to matrix
Rpt Lim Reporting Limit
S Spike Recovery outside limits due to matrix

Client: Crowford Environmental Services
Project Name: Clouds Exxon
Workorder: 1801N71

ANALYTICAL QC SUMMARY REPORT

BatchID: 255094

Sample ID: **MB-255094**	Client ID:		Units: **ug/L**	Prep Date: **01/31/2018**	Run No: **362046**
SampleType: **MBLK**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**		BatchID: **255094**	Analysis Date: **01/31/2018**	Seq No: **7996739**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	BRL	1.0									
Benzene	BRL	1.0									
Ethylbenzene	BRL	1.0									
Methyl tert-butyl ether	BRL	1.0									
Naphthalene	BRL	5.0									
Toluene	BRL	1.0									
Xylenes, Total	BRL	1.0									
Surr: 4-Bromofluorobenzene	45.60	0	50.00		91.2	70	130				
Surr: Dibromofluoromethane	54.93	0	50.00		110	70	130				
Surr: Toluene-d8	52.69	0	50.00		105	70	130				

Sample ID: **MB-255094**	Client ID:		Units: **ug/L**	Prep Date: **01/31/2018**	Run No: **362046**
SampleType: **MBLK**	TestCode: **Oxygenates SW8260B**		BatchID: **255094**	Analysis Date: **01/31/2018**	Seq No: **7996828**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
3,3-Dimethyl-1-butanol	BRL	100									
Ethanol	BRL	100									
Ethyl tert-butyl ether	BRL	100									
Isopropyl ether	BRL	10									
tert-Amyl alcohol	BRL	100									
tert-Amyl methyl ether	BRL	10									
tert-Butyl Alcohol	BRL	100									
tert-Butyl formate	BRL	100									

Sample ID: **LCS-255094**	Client ID:		Units: **ug/L**	Prep Date: **01/31/2018**	Run No: **362046**
SampleType: **LCS**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**		BatchID: **255094**	Analysis Date: **01/31/2018**	Seq No: **7996748**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Qualifiers:
- `>` Greater than Result value
- `<` Less than Result value
- B Analyte detected in the associated method Blank
- BRL Below reporting limit
- E Estimated (value above quantitation range)
- H Holding times for preparation or analysis exceeded
- J Estimated value detected below Reporting Limit
- N Analyte not NELAC certified
- R RPD outside limits due to matrix
- Rpt Lim Reporting Limit
- S Spike Recovery outside limits due to matrix

Client: Crowford Environmental Services
Project Name: Clouds Exxon
Workorder: 1801N71

ANALYTICAL QC SUMMARY REPORT

BatchID: 255094

Sample ID: **LCS-255094**	Client ID:	Units: **ug/L**	Prep Date: **01/31/2018**	Run No: **362046**
SampleType: **LCS**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**	BatchID: **255094**	Analysis Date: **01/31/2018**	Seq No: **7996748**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	20.75	1.0	20.00		104	70	130				
Benzene	21.41	1.0	20.00		107	70	130				
Ethylbenzene	21.33	1.0	20.00		107	70	130				
Naphthalene	18.36	5.0	20.00		91.8	70	130				
Toluene	20.95	1.0	20.00		105	70	130				
Xylenes, Total	68.53	1.0	60.00		114	70	130				
Surr: 4-Bromofluorobenzene	51.57	0	50.00		103	70	130				
Surr: Dibromofluoromethane	53.73	0	50.00		107	70	130				
Surr: Toluene-d8	53.31	0	50.00		107	70	130				

Sample ID: **LCS-255094**	Client ID:	Units: **ug/L**	Prep Date: **01/31/2018**	Run No: **362046**
SampleType: **LCS**	TestCode: **Oxygenates SW8260B**	BatchID: **255094**	Analysis Date: **01/31/2018**	Seq No: **7996836**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
3,3-Dimethyl-1-butanol	529.7	100	500.0		106	70	130				
Ethanol	536.2	100	500.0		107	70	130				
Ethyl tert-butyl ether	100.3	20	100.0		100	70	130				
Isopropyl ether	103.8	10	100.0		104	70	130				
tert-Amyl alcohol	583.3	100	500.0		117	70	130				
tert-Amyl methyl ether	99.95	10	100.0		100.0	70	130				
tert-Butyl Alcohol	555.8	100	500.0		111	70	130				
tert-Butyl formate	593.6	100	500.0		119	70	130				

Sample ID: **1801N71-061AMS**	Client ID: **MW 22**	Units: **ug/L**	Prep Date: **01/31/2018**	Run No: **362046**
SampleType: **MS**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**	BatchID: **255094**	Analysis Date: **01/31/2018**	Seq No: **7996746**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	1903	100	2000		95.2	67	133				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method Blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Analytical Environmental Services, Inc Date: 5-Feb-18

Client: Crawford Environmental Services
Project Name: Clouds Exxon
Workorder: 1801N71

ANALYTICAL QC SUMMARY REPORT

BatchID: 255094

Sample ID: 1801N71-061AMS	Client ID: MW 22	Units: ug/L	Prep Date: 01/31/2018	Run No: 362046
SampleType: MS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 255094	Analysis Date: 01/31/2018	Seq No: 7996746

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	4354	100	2000	2504	92.5	66.1	137				
Ethylbenzene	3522	100	2000	1568	97.7	74	134				
Naphthalene	2736	500	2000	846.0	94.5	56.5	132				
Toluene	24570	100	2000	23990	28.9	63.8	141				SE
Xylenes, Total	34290	100	6000	29230	84.2	77.9	138				
Surr: 4-Bromofluorobenzene	5130	0	5000		103	70	130				
Surr: Dibromofluoromethane	5383	0	5000		108	70	130				
Surr: Toluene-d8	5282	0	5000		106	70	130				

Sample ID: 1801N71-061AMS	Client ID: MW 22	Units: ug/L	Prep Date: 01/31/2018	Run No: 362046
SampleType: MS	TestCode: Oxygenates SW8260B	BatchID: 255094	Analysis Date: 01/31/2018	Seq No: 7996834

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
3,3-Dimethyl-1-butanol	50120	10000	50000		100	62.1	130				
Ethanol	37970	10000	50000		75.9	61.6	132				
Ethyl tert-butyl ether	10000	2000	10000		100	69.8	129				
Isopropyl ether	10360	1000	10000		104	69.9	129				
tert-Amyl alcohol	55490	10000	50000	2895	105	69.7	131				
tert-Amyl methyl ether	9912	1000	10000		99.1	69.9	130				
tert-Butyl Alcohol	47890	10000	50000		95.8	65.2	135				
tert-Butyl formate	60400	10000	50000		121	60	128				

Sample ID: 1801N71-061AMSD	Client ID: MW 22	Units: ug/L	Prep Date: 01/31/2018	Run No: 362046
SampleType: MSD	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 255094	Analysis Date: 01/31/2018	Seq No: 7996747

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	1833	100	2000		91.6	67	133	1903	3.75	20	
Benzene	4254	100	2000	2504	87.5	66.1	137	4354	2.32	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method Blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Analytical Environmental Services, Inc Date: 5-Feb-18

Client: Crawford Environmental Services
Project Name: Clouds Exxon
Workorder: 1801N71

ANALYTICAL QC SUMMARY REPORT

BatchID: 255094

Sample ID: **1801N71-061AMSD** Client ID: **MW 22** Units: **ug/L** Prep Date: **01/31/2018** Run No: **362046**
SampleType: **MSD** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **255094** Analysis Date: **01/31/2018** Seq No: **7996747**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethylbenzene	3432	100	2000	1568	93.2	74	134	3522	2.59	20	
Naphthalene	2772	500	2000	846.0	96.3	56.5	132	2736	1.31	41.6	
Toluene	23880	100	2000	23990	-5.60	63.8	141	24570	2.85	20	SE
Xylenes, Total	33540	100	6000	29230	71.7	77.9	138	34290	2.21	20	S
Surr: 4-Bromofluorobenzene	5149	0	5000		103	70	130	5130	0	0	
Surr: Dibromofluoromethane	5258	0	5000		105	70	130	5383	0	0	
Surr: Toluene-d8	5291	0	5000		106	70	130	5282	0	0	

Sample ID: **1801N71-061AMSD** Client ID: **MW 22** Units: **ug/L** Prep Date: **01/31/2018** Run No: **362046**
SampleType: **MSD** TestCode: **Oxygenates SW8260B** BatchID: **255094** Analysis Date: **01/31/2018** Seq No: **7996835**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
3,3-Dimethyl-1-butanol	51400	10000	50000		103	62.1	130	50120	2.53	23.1	
Ethanol	40710	10000	50000		81.4	61.6	132	37970	6.96	30.3	
Ethyl tert-butyl ether	9940	2000	10000		99.4	69.8	129	10000	0.632	17.6	
Isopropyl ether	10260	1000	10000		103	69.9	129	10360	0.951	17.6	
tert-Amyl alcohol	58310	10000	50000	2895	111	69.7	131	55490	4.95	24.6	
tert-Amyl methyl ether	9886	1000	10000		98.9	69.9	130	9912	0.263	17.8	
tert-Butyl Alcohol	51020	10000	50000		102	65.2	135	47890	6.33	30.9	
tert-Butyl formate	59480	10000	50000		119	60	128	60400	1.53	18.1	

Qualifiers:
- > Greater than Result value
- BRL Below reporting limit
- J Estimated value detected below Reporting Limit
- Rpt Lim Reporting Limit
- < Less than Result value
- E Estimated (value above quantitation range)
- N Analyte not NELAC certified
- S Spike Recovery outside limits due to matrix
- B Analyte detected in the associated method blank
- H Holding times for preparation or analysis exceeded
- R RPD outside limits due to matrix

Appendix B

Groundwater Sampling Data Sheets

Access Lab Report #: _____

Sub Lab (if applicable): _____ / Sub Report #: _____

PO# _____

ACCESS ANALYTICAL, INC.

15 Thames Valley Rd.
Irmo, SC 29063
Phone: 803-781-4243
Web: www.axs-inc.com

Chain of Custody Record

Client:	Crawford Enviro	Preservatives (see codes):	
Attn:	Dan Fields	Bottle Types (see codes):	
Address:	1701 Stevenson Ave		
City:	Pomona	State: VA	Zip Code: 21017
Phone:	540-343-6256	Fax:	540-343-6255
Email:	[illegible]		
Project ID:	Cloudy Creek		
Sampled By:	Billy Fenny		

REQUESTED LAB ANALYSIS

Preservation Codes / Bottle Types

*Preservative Codes:
0 = None, 1 = HCl, 2 = HNO_3, 3 = H_2SO_4, 4 = NaOH, 5 = $Na_2S_2O_3$, 6 = Method 5035 set w/ $NaHSO_4$ & CH_3OH, 7 = NaOH/ZnOAC, 8 = H_3PO_4, 9 = cooled to 50°C, 10 = cooled to 130°C, 11 = Amm.Cl, 12 = Ascorbic Acid / HCL, 13 = EDA

*Matrix Codes:
GW = ground water, WW = waste water, DW = drinking water, SW = surface/storm water, S = soil, SL = sludge, A = air, IW = industrial waste, O = other (specify in comments section), NA = for non-regulatory samples

*Program Area Codes:
CWA = Clean Water Act (for wastewaters), SDWA = Safe Drinking Water Act (for drinking water), SHW = Solid and Hazardous Waste (for soils, ground waters and waste samples)

*Container Type: G = Glass, F = Plastic

Lab ID:	Sample Name:	Date Collected:	Time Collected:	Sr-Sub C-Comp	Matrix (see codes)	Program Area (see codes)	Total # Containers		Notes / Comments
	MW 2	[illegible]	1350	G	GW	UST	3	# Containers per Test	
	DW 1		1350					# Containers per Test	
	DW 2		1430					# Containers per Test	
	MW 3		1440					# Containers per Test	
	MW 36		1450					# Containers per Test	
	MW 8		1500					# Containers per Test	
	MW 7		1510					# Containers per Test	
	MW 4		1520					# Containers per Test	
	MW 16		1515					# Containers per Test	
	MW 17		1505					# Containers per Test	

Auto Sampler Data (composite samples only):

Date/Time On: _____ by whom: _____ Meter Reading Before: _____ Meter Reading After: _____ Difference: _____

Date/Time Off: _____ by whom: _____ X _____ (factor): _____

Turnaround Time Requested:		Project Location:		Relinquished By:	Received By:	Date:	Time (24hr):	Samples Received on Ice
Standard	X	SC	X	William Fenny	[signature]	1/6/13	1100	X Y N N/A
*Date Required		NC						Y N N/A
Rush data emailed/faxed by the end of business day on date required. Standard TAT is 7-10 business days.		Other (Specify):						Y N N/A
								Y N N/A

Chain of Custody Page 1 **of** 7

Received in lab by: _____

Sample Temp. Upon Receipt in Lab: _____ ° (C)

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Access Lab Report #: _____

Sub Lab (if applicable): _____ / Sub Report #: _____

PO#: _____

ACCESS ANALYTICAL, INC.

15 Thames Valley Rd.
Irmo, SC 29063
Phone: 803-781-4243
Web: www.axs-inc.com

Chain of Custody Record

Client:	[illegible]	Preservatives (see codes):	
Attn:	[illegible]	Bottle Types (see codes):	
Address:	[illegible]		
City:	[illegible]	State: [illegible]	Zip Code: [illegible]
Phone:	[illegible]	Fax:	[illegible]
Email:	[illegible]		
Project ID:	[illegible]		
Sampled By:	[illegible]		

REQUESTED LAB ANALYSIS

Preservation Codes / Bottle Types

*Preservative Codes:
0 = None, 1 = HCL, 2 = HNO_3, 3 = H_2SO_4, 4 = NaOH, 5 = $Na_2S_2O_3$, 6 = Method 5035 set w/ $NaHSO_4$ & CH_3OH, 7 = NaOH/ZnOAC, 8 = H_3PO_4, 9 = cooled to 50°C, 10 = cooled to 5-10°C, 11 = Amm Cl, 12 = Ascorbic Acid / HCL, 13 = EDA

*Matrix Codes:
GW = ground water, WW = waste water, DW = drinking water, SW = surface/storm water, S = soil, SL = sludge, A = air, IW = industrial waste, O = other (specify in comments section), NA = for non-regulatory samples

*Program Area Codes:
CWA = Clean Water Act (for wastewaters), SDWA = Safe Drinking Water Act (for drinking water), SHW = Solid and Hazardous Wastes (for soils, ground waters and waste samples)

*Container Type: G = Glass, P = Plastic

Lab ID:	Sample Name:	Date Collected:	Time Collected:	G=Grab C=Comp	Matrix (see codes)	Program Area (see codes)	Total # Containers									Notes / Comments
	MW 10	[illegible]	[illegible]	G	[illegible]	[illegible]	3	# Containers per Test ID	3							
	MW 9		[illegible]					# Containers per Test ID								
	MW 56		[illegible]					# Containers per Test ID								
	DW 9		[illegible]					# Containers per Test ID								
	MW 79		[illegible]					# Containers per Test ID								
	MW 55		[illegible]					# Containers per Test ID								
	MW 83		[illegible]					# Containers per Test ID								
	MW 11		[illegible]					# Containers per Test ID								
	DW 1		[illegible]					# Containers per Test ID								
	MW 6		[illegible]					# Containers per Test ID								

Auto Sampler Data (composite samples only):

Date/Time On: _____ by whom: _____ Meter Reading Before: _____ Meter Reading After: _____ Difference: _____

Date/Time Off: _____ by whom: _____ X _____ (factor): _____

Turnaround Time Requested:				Project Location:		Relinquished By:	Received By:	Date:	Time (24hr):	Samples Received on Ice
Standard	✓	Rush *		SC	X	[illegible]	[illegible]	[illegible]	[illegible]	✓ Y ___ N ___ N/A
*Date Required				NC						___ Y ___ N ___ N/A
Rush data emailed/faxed by the end of business day on date required. Standard TAT is 7-10 business days.				Other	(Specify):					___ Y ___ N ___ N/A
										___ Y ___ N ___ N/A

Chain of Custody Page 2 **of** 7

Received in lab by: _____

Sample Temp. Upon Receipt in Lab: _____ °(C)

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Access Lab Report #: _____

Sub Lab (if applicable): _____ / Sub Report #: _____

PO#: _____

ACCESS ANALYTICAL, INC.

15 Thames Valley Rd.
Irmo, SC 29063
Phone: 803-781-4243
Web: www.axs-inc.com

Chain of Custody Record

Client:	CHAUFORD ENVIRO	Preservatives (see codes):	
Attn:	DAN FISHER	Bottle Types (see codes):	
Address:	1701 Shenandoah Ave		
City:	Roan Ohe	State: VA	Zip Code: 24017
Phone:	540-342-6256	Fax:	540-343-6255
Email:	DFisher@chauforddenvironmental.com		
Project ID:	Clouds Fetor		
Sampled By:	Billy Ewing		

REQUESTED LAB ANALYSIS: PTEX/NAPH/DAN/...

Preservation Codes / Bottle Types

*Preservative Codes:
0 = None, 1 = HCL, 2 = HNO_3, 3 = H_2SO_4, 4 = NaOH, 5 = $Na_2S_2O_3$, 6 = Method 5035 set w/ $NaHSO_4$ & CH_3OH, 7 = NaOH/ZnOAC, 8 = H_3PO_4, 9 = cooled to 68°C, 10 = cooled to 610°C, 11 = Amm.Cl, 12 = Ascorbic Acid / HCL, 13 = EDA

*Matrix Codes:
GW = ground water, WW = waste water, DW = drinking water, SW = surface/storm water, S = soil, SL = sludge, A = air, IW = industrial waste, O = other (specify in comments section) NA = for non regulatory samples

*Program Area Codes:
CWA = Clean Water Act (for wastewaters), SDWA = Safe Drinking Water Act (for drinking water), SHW = Solid and Hazardous Wastes (for soils, ground waters and waste samples)

*Container Type: G = Glass, P = Plastic

Lab ID:	Sample Name:	Date Collected:	Time Collected:	Collect Comp	Matrix (see codes)	Preservative (see codes)	Total Containers	REQUESTED LAB ANALYSIS	PTEX/NAPH/DAN/...							Notes / Comments
	MW22	1-28-18	1005	G	GW	VST	3	# Containers per Test ID	3							
	MW5 AR		1020					# Containers per Test ID								
	DW4		1110					# Containers per Test ID								
	DW3		1150					# Containers per Test ID								
	DW6		1155					# Containers per Test ID								
								# Containers per Test ID								
								# Containers per Test ID								
								# Containers per Test ID								
								# Containers per Test ID								
								# Containers per Test ID								

Auto Sampler Data (composite samples only):

Date/Time On: _____ by whom: _____ Meter Reading Before: _____ Meter Reading After: _____ Difference: _____

Date/Time Off: _____ by whom: _____ X _____ (factor): _____

Turnaround Time Requested:		Project Location:		Relinquished By:	Received By:	Date:	Time (24hr):	Samples Received on Ice
Standard	X	SC	X	Billy Ewing	[signature]	1/28/18	1100	X Y ___ N ___ N/A
*Date Required		NC						___ Y ___ N ___ N/A
Rush data emailed/faxed by the end of business day on date required. Standard TAT is 7-10 business days.		Other (Specify):						___ Y ___ N ___ N/A
								___ Y ___ N ___ N/A

Chain of Custody Page 7 of 7

Received in lab by: _____

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Access Lab Report #: _____

Sub Lab (if applicable): _____ / Sub Report #: _____

PO#: _____

ACCESS ANALYTICAL, INC.
15 Thames Valley Rd.
Irmo, SC 29063
Phone: 803-781-4243
Web: www.axs-inc.com

Chain of Custody Record

Client:	[illegible]	Preservatives (see codes):	
Attn:	[illegible]	Bottle Types (see codes):	
Address:	[illegible]		
City:	[illegible]	State: [illegible]	Zip Code: [illegible]
Phone:	540 343 6756	Fax:	540 343 6759
Email:	[illegible]		
Project ID:	[illegible]		
Sampled By:	[illegible]		

REQUESTED LAB ANALYSIS

Preservation Codes / Bottle Types:

*Preservative Codes:
0 = None, 1 = HCl, 2 = HNO_3, 3 = H_2SO_4, 4 = NaOH, 5 = $Na_2S_2O_3$, 6 = Method 5015 set w/ $NaHSO_4$ & CH_3OH, 7 = NaOH/ZnOAc, 8 = H_3PO_4, 9 = cooled to 50°C, 10 = cooled to 510°C, 11 = Amm.Cl, 12 = Ascorbic Acid / HCl, 13 = EDA

*Matrix Codes:
GW = ground water, WW = waste water, DW = drinking water, SW = surface/storm water, S = soil, SL = sludge, A = air, IW = industrial waste, O = other (specify in comments section), NA = for non-regulatory samples

*Program Area Codes:
CWA = Clean Water Act (for wastewater), SDWA = Safe Drinking Water Act (for drinking water), SHW = Solid and Hazardous Wastes (for soils, ground waters and waste samples)

*Container Type: G = Glass, P = Plastic

Lab ID	Sample Name	Date Collected	Time Collected	G=Grab C=Comp	Matrix (see codes)	Program Area (see codes)	Total # Containers	REQUESTED LAB ANALYSIS	Notes / Comments
	FB-1	[illegible]	[illegible]	G	GW	[illegible]	3	3	
	FB-2	[illegible]	1200						
	FB-3	[illegible]	500						
	MW 49		1440						
	PW1R		1230						
	MW 19		940						
	MW 11		1420						
	MW 51		1210						
	MW 34		810						
	MW 35		750						

Auto Sampler Data (composite samples only):

Date/Time On: _____ by whom: _____ Meter Reading Before: _____ Meter Reading After: _____ Difference: _____

Date/Time Off: _____ by whom: _____ X _____ (factor): _____

Turnaround Time Requested:				Project Location:		Relinquished By:	Received By:	Date:	Time (24hr):	Samples Received on Ice:
Standard	X	Rush*		SC	X	[illegible]	[illegible]	[illegible]	[illegible]	X Y ___ N ___ N/A
*Date Required				NC						___ Y ___ N ___ N/A
Rush data emailed/faxed by the end of business day on date required. Standard TAT is 7-10 business days.				Other (Specify):						___ Y ___ N ___ N/A
										___ Y ___ N ___ N/A

Chain of Custody Page 1 of 7

Received in lab by: _____

Sample Temp. Upon Receipt in Lab: _____ °(C)

White Copy: Lab original / Canary Copy: File Copy / Pink Copy: Client Copy

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Access Lab Report #: _____

Sub Lab (if applicable): _____ / Sub Report #: _____

PO#: _____

ACCESS ANALYTICAL, INC.
15 Thames Valley Rd.
Irmo, SC 29063
Phone: 803-781-4243
Web: www.axs-inc.com

Chain of Custody Record

Client:	CRAWFORD ENVIRO	Preservatives (see codes):	1
Attn:	DAN Fisher	Bottle Types (see codes):	6
Address:	1701 Shenandoah Ave		
City:	Roanoke	State: VA	Zip Code: 24017
Phone:	540-343-6256	Fax:	540-343-6255
Email:	Dfisher@crawfordenvironmental.com		
Project ID:	Cloud's Exxon		
Sampled By:	Billy E		

REQUESTED LAB ANALYSIS: [illegible]

Preservation Codes / Bottle Types:

*Preservative Codes:
0 = None, 1 = HCl, 2 = HNO_3, 3 = H_2SO_4, 4 = NaOH, 5 = $Na_2S_2O_3$, 6 = Method 1025 sol w/ $NaHSO_4$ & CH_3OH, 7 = NaOH/ZnOAC, 8 = H_3PO_4, 9 = cooled to 35°C, 10 = cooled to 410°C, 11 = Amm Cl, 12 = Ascorbic Acid / HCl, 13 = EDA

*Matrix Codes:
GW = ground water, WW = waste water, DW = drinking water, SW = surface/storm water, S = soil, SL = sludge, A = air, IW = industrial waste, O = other (specify in comments section), NA = for non-regulatory samples

*Program Area Codes:
CWA = Clean Water Act (for wastewaters), SDWA = Safe Drinking Water Act (for drinking water), SHW = Solid and Hazardous Wastes (for soils, ground waters and waste samples)

*Container Type: G = Glass, P = Plastic

Lab ID	Sample Name	Date Collected	Time Collected	Sample Type	Matrix (see codes)	Program Area (see codes)	Total # Containers	# Containers per Test								Notes / Comments
	DW5	1-24-10	740	G	GW	UST	3	3								
	MW18		830													
	MW23		850													
	DW[illegible]		855													
	MW30		905													
	MW32		915													
	MW29		925													
	MW28		935													
	MW27		945													
	MW25		955													

Auto Sampler Data (composite samples only):

Date/Time On: _____ by whom: _____ Meter Reading Before: _____ Meter Reading After: _____ Difference: _____

Date/Time Off: _____ by whom: _____ X _____ (factor): _____

Turnaround Time Requested:				Project Location:		Relinquished By:	Received By:	Date:	Time (24hr):	Samples Received on Ice:
Standard	X	Rush*		SC	X	Billy Ewing	[signature]	1/26/10	1150	X Y N N/A
*Date Required:				NC						Y N N/A
Rush data emailed/faxed by the end of business day on date required. Standard TAT is 7-10 business days.				Other (Specify):						Y N N/A
										Y N N/A

Chain of Custody Page 6 of 7

Received in lab by: _____

Sample Temp. Upon Receipt in Lab: _____ ° (C)

White Copy: Lab original / Canary Copy: File Copy / Pink Copy: Client Copy

NOTE: Relinquishing samples via this Chain of Custody document constitutes client acceptance of Access Analytical terms and conditions.

Access Lab Report #: _____

Sub Lab (if applicable): _____ / Sub Report #: _____

PO#: _____

ACCESS ANALYTICAL, INC.
15 Thames Valley Rd
Irmo, SC 29063
Phone: 803-781-4243
Web: www.axs-inc.com

Chain of Custody Record

Client:

Attn:

Address:

City: State: Zip Code:

Phone: Fax:

Email:

Project ID:

Sampled By:

Preservatives (see codes):

Bottle Types (see codes):

REQUESTED LAB ANALYSIS

Preservation Codes / Bottle Types:

*Preservative Codes:
0 = None, 1 = HCl, 2 = HNO_3, 3 = H_2SO_4, 4 = NaOH, 5 = $Na_2S_2O_3$, 6 = Method 5035 set w/ $NaHSO_4$ & CH_3OH, 7 = NaOH/ZnOAC, 8 = H_3PO_4, 9 = cooled to 6°C, 10 = cooled to 0°C, 11 = Ameri-C®, 12 = Ascorbic Acid / HCl, 13 = EDA

*Matrix Codes:
GW = ground water, WW = waste water, DW = drinking water, SW = surface/storm water, S = soil, SL = sludge, A = air, IW = industrial waste, O = other (specify in comments section) NA = for non-regulatory samples

*Program Area Codes:
CWA = Clean Water Act (for wastewaters), SDWA = Safe Drinking Water Act (for drinking water), SHW = Solid and Hazardous Wastes (for soils, ground waters and waste samples)

*Container Type: G = Glass, P = Plastic

Lab ID	Sample Name	Date Collected	Time Collected	G=Grab C=Comp	Matrix (see codes)	Program Area (see codes)	Total # Containers	Notes / Comments

Auto Sampler Data (composite samples only):

Date/Time On: _____ by whom: _____ Meter Reading Before: _____ Meter Reading After: _____ Difference: _____

Date/Time Off: _____ by whom: _____ X _____ (factor): _____

Turnaround Time Requested:				Project Location:		Relinquished By:	Received By:	Date:	Time (24hr):	Samples Received on Ice:
Standard		Rush*		SC						Y N N/A
*Date Required				NC						Y N N/A
Rush data emailed/faxed by the end of business day on date required. Standard TAT is 7-10 business days.				Other (Specify):						Y N N/A
										Y N N/A

Chain of Custody Page ___ of ___

Received in lab by: _____

Sample Temp. Upon Receipt in Lab: _____ °(C)

White Copy: Lab original / Canary Copy: File Copy / Pink Copy: Client Copy

NOTE: Relinquishing samples via this Chain of Custody document constitutes client acceptance of Access Analytical terms and conditions.

Access Lab Report #: _____

Sub Lab (if applicable): _____ / Sub Report #: _____

PO#: _____

ACCESS ANALYTICAL, INC.
15 Thames Valley Rd.
Irmo, SC 29063
Phone: 803-781-4243
Web: www.axs-inc.com

Chain of Custody Record

Client:	[illegible]	Preservatives (see codes):	
Attn:	[illegible]	Bottle Types (see codes):	
Address:	[illegible] AVE		
City:	[illegible]	State: [illegible]	Zip Code: [illegible]
Phone:	[illegible]	Fax:	[illegible]
Email:	[illegible]		
Project ID:	[illegible]		
Sampled By:	[illegible]		

REQUESTED LAB ANALYSIS

Lab ID:	Sample Name:	Date Collected:	Time Collected:	G=Grab C=Comp	Matrix (see codes)	Program Area (see codes)	Total # Containers		Notes / Comments
	MW 63	[illegible]	[illegible]	G	[illegible]	[illegible]	3	# Containers per Test	3
	MW 70		[illegible]					# Containers per Test	
	MW 39		[illegible]					# Containers per Test	
	MW 42		[illegible]					# Containers per Test	
	DW 6		[illegible]					# Containers per Test	
	MW 67		[illegible]					# Containers per Test	
	MW 35		[illegible]					# Containers per Test	
	MW 43		[illegible]					# Containers per Test	
	MW 44		[illegible]					# Containers per Test	
	MW 45		[illegible]					# Containers per Test	

Preservative Codes / Bottle Types:

*Preservative Codes:
0 = None, 1 = HCl, 2 = HNO_3, 3 = H_2SO_4, 4 = NaOH, 5 = $Na_2S_2O_3$, 6 = Method 5035 set w/ $NaHSO_4$ & CH_3OH, 7 = NaOH/ZnOAC, 8 = H_3PO_4, 9 = cooled to 50°C, 10 = cooled to 500°C, 11 = Ammonia, 12 = Ascorbic Acid / HCL, 13 = EDA

*Matrix Codes:
GW = ground water, WW = waste water, DW = drinking water, SW = surface/storm water, S = soil, SL = sludge, A = air, IW = industrial waste, O = other (specify in comments section), NA = for non-regulatory samples

*Program Area Codes:
CWA = Clean Water Act (for wastewaters), SDWA = Safe Drinking Water Act (for drinking water), SWA = Solid and Hazardous Wastes (for soils, ground waters and waste samples)

*Container Type: G = Glass, P = Plastic

Auto Sampler Data (composite samples only):

Date/Time On: _____ by whom: _____ Meter Reading Before: _____ Meter Reading After: _____ Difference: _____

Date/Time Off: _____ by whom: _____ X _____ (factor): _____

Turnaround Time Requested:				Project Location:		Relinquished By:	Received By:	Date:	Time (24hr):	Samples Received on Ice:
Standard	X	Rush*		SC	X	[illegible]	[illegible]	[illegible]	[illegible]	Y N N/A
*Date Required				NC						Y N N/A
Rush data emailed/faxed by the end of business day on date required. Standard TAT is 7-10 business days.				Other (Specify):						Y N N/A
										Y N N/A

Chain of Custody Page 1 of ____

Received in lab by: _____

Sample Temp. Upon Receipt in Lab: _____ °(C)

White Copy: Lab original / Canary Copy: File Copy / Pink Copy: Client Copy

NOTE: Relinquishing samples via this Chain of Custody document constitutes client acceptance of Access Analytical terms and conditions.

D H E C

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

Site Information

Date:	Site ID #:	Site Name:
County:	Project Manager:	Field Personnel:

Well Gauging Information

Well ID:	Total Well Depth (ft.)	Screened Interval (ft.)	Depth to Free Product (ft.)	Depth to Ground water (ft.)	Free Product Thickness (ft.)	Confirmed with Bailer?	Photos Taken ?	Well Pad OK?	Bolts in Well Cover?	Water in Well Vault?
DW-6	70	65-70		45.51						
DW-7	55	50-55		DESTROY						
DW-8	55	50-55		LOCKED						
DW-9	65	60-65		23.73						
49	30	15-70		17.83						
39				27.68						

Notes: DUP 3 945

Signature: _____

DHEC

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

Site Information

Date:	Site ID #:	Site Name:
County:	Project Manager:	Field Personnel:

Well Gauging Information

Well ID:	Total Well Depth (ft.)	Screened Interval (ft.)	Depth to Free Product (ft.)	Depth to Ground water (ft.)	Free Product Thickness (ft.)	Confirmed with Bailer?	Photos Taken ?	Well Pad OK?	Bolts in Well Cover?	Water in Well Vault?
1				DRY						
2	30	20-30		24.04						
3	29	19-29		23.42						
4	28	18-28		22.19						
5	26	16-26		DRY						
6	30	20-30		24.54						
7	30	20-30		24.58						
8	28	18-28		21.86						
9	30	20-30		22.22						
10	28	18-28		17.28						
11	30	20-30		DESTROY						
12	24.5	14.5 24.5		DESTROY						
13	30	20-30		DESTROY						

Notes: _____

_____

_____

_____ Signature: _____

DHEC

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

Site Information		
Date:	Site ID #:	Site Name:
County:	Project Manager:	Field Personnel:

Well Gauging Information

Well ID:	Total Well Depth (ft.)	Screened Interval (ft.)	Depth to Free Product (ft.)	Depth to Ground water (ft.)	Free Product Thickness (ft.)	Confirmed with Bailer?	Photos Taken ?	Well Pad OK?	Bolts in Well Cover?	Water in Well Vault?
15	25	15-25		17.29						
16	25	15-25		19.36						
17	30	20-30		23.87						
18	30	20-30		25.54						
19	30	20-30		25.11						
20	25	15-25		23.83						
22	30	20-30		23.19						
23	30	20-30		25.35						
25	25	15-25		22.06						
26	30	20-30		23.22						
27	30	15-30		19.71						
28	30	15-30		20.30						
29	30	15-30		20.45						

Notes: _____

_____

_____

_____ Signature: _____

D H E C

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

Site Information

Date:	Site ID #:	Site Name:
County:	Project Manager:	Field Personnel:

Well Gauging Information

Well ID:	Total Well Depth (ft.)	Screened Interval (ft.)	Depth to Free Product (ft.)	Depth to Ground water (ft.)	Free Product Thickness (ft.)	Confirmed with Bailer?	Photos Taken ?	Well Pad OK?	Bolts in Well Cover?	Water in Well Vault?
30	30	15-30		23.22						
31	35	20-35		26.61						
32	30	15-30		23.54						
33	35	20-35		25.02						
34	35	20-35		25.84						
35	35	20-35		24.98						
36	35	20-35		25.02						
37	35	20-35		25.17						
38	35	20-35		26.42						
39	35	20-35		DESTROY						
40	35	20-35		26.88						
41	35	20-35		27.31						
42	35	20-35		27.42						

Notes: _____

_____

_____

_____ Signature: _____

DHEC

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

Site Information

Date:	Site ID #:	Site Name:
County:	Project Manager:	Field Personnel:

Well Gauging Information

Well ID:	Total Well Depth (ft.)	Screened Interval (ft.)	Depth to Free Product (ft.)	Depth to Ground water (ft.)	Free Product Thickness (ft.)	Confirmed with Bailer?	Photos Taken ?	Well Pad OK?	Bolts in Well Cover?	Water in Well Vault?
43	40	20-40		25.84						
44	31	16-31		24.42						
45	30	15-30		22.94						
46	35	20-35		25.26						
48	30	15-30		LOCKED						
50				NO FIND						
51				DESTROY						
53	20	5-20		11.32						
54	1			DESTROY						
55	14	4-14		3.51						
56	20	5-20		8.69						
58				COVERED						
59	17	2-17		6.55						

Notes: _____

_____

_____

_____ Signature: _____

DHEC

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

Site Information

Date:	Site ID #:	Site Name:
County:	Project Manager:	Field Personnel:

Well Gauging Information

Well ID:	Total Well Depth (ft.)	Screened Interval (ft.)	Depth to Free Product (ft.)	Depth to Ground water (ft.)	Free Product Thickness (ft.)	Confirmed with Bailer?	Photos Taken ?	Well Pad OK?	Bolts in Well Cover?	Water in Well Vault?
60	~~28~~ 14	~~20-35~~ 4-14		NO FIND						
62	35	20-35		24.18						
63	35	20-35		25.45						
65				DESTROY						
67	35	20-35		27.44						
70	35	20-35		26.36						
MW-5-AR	28	18-28		23.16						
PW-1-R	50	45-50		24.43						
DW-1	70	65-70		43.95						
DW-2	75	70-75		43.23						
DW-3	52	47-52		25.11						
DW-4	110	105-110		43.33						
DW-5	70	65-70		43.46						

Notes: _____

_____

_____

_____ Signature: _____

DHEC 0424 (10/2012)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 12/1/18	Site ID #: 02584/0777/12352	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fiska	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: Dw 4	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 110 to 105		Total Well Depth (TWD) (ft.): 110
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 43.37		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 66.63	1 casing volume (CV = LWC x C) (gals.): 10		3 casing volumes (3 x CV) (gals.): 30

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0	10	20	30				
Time (military)	1210	1045	1100	1110				
PH (s.u.)	6.23	5.93	5.57					
Specific Conductivity (uS/cm)	148	145	150					
Water Temperature (°C)	21.53	22.01	21.69					
Turbidity (NTU)	12.6	2.61	4.54					
Dissolved Oxygen (mg/L)	7.90	5.57	5.30					

Sampling Data

Sampled By: Billy E.	Sampling Time: 1110	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: _____

Signature: Billy E

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 12/V/18	Site ID #: 07584/07777/12352	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fiske	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 5A2	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 28 to 18	Total Well Depth (TWD) (ft.): 28
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 23.16		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 4.84	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	1050							
PH (s.u.)	6.59							
Specific Conductivity (µS/cm)	591							
Water Temperature (°C)	22.11							
Turbidity (NTU)	14.9							
Dissolved Oxygen (mg/L)	3.17							

Sampling Data

Sampled By: Billy E.	Sampling Time: 1030	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: _____

Signature: Billy E

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 1/24/18	Site ID #: 07584/07777/12352	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 20	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 25 to 15	Total Well Depth (TWD) (ft.): 25
Depth to Free Product (DFP) (ft.):		Depth to Groundwater (DGW) (ft.): 23.83	Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 1.17		1 casing volume (CV = LWC x C) (gals.):	3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	~~1015~~							
PH (s.u.)								
Specific Conductivity (µS/cm)	NOT							
Water Temperature (°C)								
Turbidity (NTU)	Sampled							
Dissolved Oxygen (mg/L)								

Sampling Data

Sampled By: Billy E.	Sampling Time: ~~1015~~	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: Block at 24 HT

Signature: [signature]

DHEC 8423 (10/2012)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 1/22/18	Site ID #: 07584/07771/12352	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name:	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 1	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other_____ ___ Private WSW ___ Public WSW		Screened Interval (ft.): to	Total Well Depth (TWD) (ft.):
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.):		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	NOT							
PH (s.u.)	Sample							
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)	Dry							
Dissolved Oxygen (mg/L)								

Sampling Data

Sampled By: Billy E.	Sampling Time: ——	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

Signature: Billy E

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 11/18	Site ID #: 07584/07777/12352	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 5	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 24 to 16		Total Well Depth (TWD) (ft.): 26
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): DRY		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	N							
PH (s.u.)	O							
Specific Conductivity (µS/cm)	T							
Water Temperature (°C)								
Turbidity (NTU)	Sample							
Dissolved Oxygen (mg/L)								

Sampling Data

Sampled By: Billy E.	Sampling Time: ___	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

Signature: Billy E

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 11/1/14	Site ID #: 07584/07777/12352	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 12	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): to	Total Well Depth (TWD) (ft.):
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.):		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	Destroyed							
PH (s.u.)								
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								

Sampling Data

Sampled By: Billy E.	Sampling Time: ———	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

Signature: Billy E

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 11/18	Site ID #: 07584/07777/12352	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 13	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): to	Total Well Depth (TWD) (ft.):
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.):		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	Destroyed							
PH (s.u.)								
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								

Sampling Data

Sampled By: Billy E.	Sampling Time: ___	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

Signature: Billy E

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 11/18	Site ID #: 07584/07777/12352	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW48	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other_____ ___ Private WSW ___ Public WSW		Screened Interval (ft.): to	Total Well Depth (TWD) (ft.):
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.):		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	Gate							
PH (s.u.)	Locked							
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								

Sampling Data

Sampled By: Billy E.	Sampling Time: ———	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

Signature: Billy E

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 11/14	Site ID #: 07584/07777/12352	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 5D	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other_____ ___ Private WSW ___ Public WSW		Screened Interval (ft.): to	Total Well Depth (TWD) (ft.):
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.):		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	Not							
PH (s.u.)	Found							
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								

Sampling Data

Sampled By: Billy E.	Sampling Time: ———	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

Signature: Billy E

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 11/1/18	Site ID #: 07584/07777/12352	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fiskn	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 54	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other_____ ___ Private WSW ___ Public WSW		Screened Interval (ft.): to	Total Well Depth (TWD) (ft.):
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.):		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	DESTROYED							
PH (s.u.)								
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								

Sampling Data

Sampled By: Billy E.	Sampling Time: ———	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

Signature: Billy Ealy

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 11/1/18	Site ID #: 07581/07777/12352	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 58	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other_____ ___Private WSW ___Public WSW		Screened Interval (ft.): to	Total Well Depth (TWD) (ft.):
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.):		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	Locked							
PH (s.u.)	NOT							
Specific Conductivity (µS/cm)	Found							
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								

Sampling Data

Sampled By: Billy E.	Sampling Time: _____	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

Signature: Billy E

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 11/1/19	Site ID #: 07584/07777/12352	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW60	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): to	Total Well Depth (TWD) (ft.):
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.):		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	NOT							
PH (s.u.)	Found							
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								

Sampling Data

Sampled By: Billy E.	Sampling Time: ___	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

Signature: Billy E

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 11/14	Site ID #: 07583/07777/12352	Site Name: Cloud's Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW65	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): to	Total Well Depth (TWD) (ft.):
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.):		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	Destroyed							
PH (s.u.)								
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								

Sampling Data

Sampled By: Billy E.	Sampling Time: ———	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

Signature: Billy E

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 11/1/18	Site ID #: 07585/07777/12352	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: ~~MW~~ DW7	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): to	Total Well Depth (TWD) (ft.):
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.):		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	Destroyed							
PH (s.u.)								
Specific Conductivity (µS/cm)	NOT							
Water Temperature (°C)	Sampled							
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								

Sampling Data

Sampled By: Billy F.	Sampling Time: ___	Duplicate: Y or N	If yes, Duplicate Time:

Notes: ___

Signature: Billy F

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 11/18	Site ID #: 07584/07777/12352	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: ~~MW~~ DW8	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): to	Total Well Depth (TWD) (ft.):
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.):		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	Locked							
PH (s.u.)	gate							
Specific Conductivity (µS/cm)								
Water Temperature (°C)	NOT							
Turbidity (NTU)	Sampled							
Dissolved Oxygen (mg/L)								

Sampling Data

Sampled By Billy E.	Sampling Time: ___	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

Signature: Billy E

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 11/18	Site ID #: 02584/07777/12352	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: ~~Dup~~ DW 3	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 52 to 47		Total Well Depth (TWD) (ft.): 52
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 25.11		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 26.89	1 casing volume (CV = LWC x C) (gals.): 4.3		3 casing volumes (3 x CV) (gals.): 12.9

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0	4.3	8.6	12.5				
Time (military)	1130	1130	1145	1150				
PH (s.u.)	6.31	6.14	6.13	6.14				
Specific Conductivity (µS/cm)	106	175	177	178				
Water Temperature (°C)	22.01	22.75	22.46	22.87				
Turbidity (NTU)	24.5	24.8	43.0	45.5				
Dissolved Oxygen (mg/L)	2.36	2.60	3.41	3.28				

Sampling Data

Sampled By: Billy E.	Sampling Time: 1150	Duplicate: Y or (N)	If yes, Duplicate Time: 1155

Notes: Dup 6 1155

Signature: Billy Eady

DHEC 0423 (10/2012)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 1/24/18	Site ID #: 07584/07777/12352	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW2	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 20 to 30	Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 24.04		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 5.96	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	1330							
PH (s.u.)	~~5.99~~ 7.01							
Specific Conductivity (uS/cm)	~~0~~ 2566							
Water Temperature (°C)	~~22.10~~ 24.5							
Turbidity (NTU)	~~0.0~~ 347							
Dissolved Oxygen (mg/L)	~~10.55~~ 2.64							

Sampling Data

Sampled By: Billy E.	Sampling Time: 1330	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

Signature: Billy E

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 1/6/14	Site ID #: 07584/07777/12352	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: ~~MW~~ DW1	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 70 to 65	Total Well Depth (TWD) (ft.): 70
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 43.95		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 26.05	1 casing volume (CV = LWC x C) (gals.): 4.1		3 casing volumes (3 x CV) (gals.): 12.3

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0	4.1	8.2	12.3				
Time (military)	13:40	1350	DRY	DRY				
PH (s.u.)	6.45	7.68	↓	↓				
Specific Conductivity (µS/cm)	67	102						
Water Temperature (°C)	22.36	22.11						
Turbidity (NTU)	88.3	<1000						
Dissolved Oxygen (mg/L)	6.36	5.25						

Sampling Data

Sampled By: Billy E.	Sampling Time: 1350	Duplicate: Y or N	If yes, Duplicate Time:

Notes: Busted locking cap

Signature: Billy E

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 1/8/14	Site ID #: 07584/07777/12352	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: DW2	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 75 to 70	Total Well Depth (TWD) (ft.): 75
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 43.23		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 31.77	1 casing volume (CV = LWC x C) (gals.): 5		3 casing volumes (3 x CV) (gals.): 15

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0	5	10	15				
Time (military)	1400	1410	1420	1430				
PH (s.u.)	6.37	6.57	6.59	6.49				
Specific Conductivity (µS/cm)	49	50	62	59				
Water Temperature (°C)	22.54	22.33	22.16	22.02				
Turbidity (NTU)	35.3	479	< 1000	888				
Dissolved Oxygen (mg/L)	5.15	6.59	5.89	5.89				

Sampling Data

Sampled By: Billy E.	Sampling Time: 1430	Duplicate: Y or N	If yes, Duplicate Time:

Notes: Busted locking cap

Signature: Billy E

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 1/29/18	Site ID #: 07584/07777/12352	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name:	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 3	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 29 to 19	Total Well Depth (TWD) (ft.): 25
Depth to Free Product (DFP) (ft.):		Depth to Groundwater (DGW) (ft.): 23.42	Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 5.58		1 casing volume (CV = LWC x C) (gals.):	3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	1440							
PH (s.u.)	5.57							
Specific Conductivity (µS/cm)	165							
Water Temperature (°C)	24.90							
Turbidity (NTU)	19.5							
Dissolved Oxygen (mg/L)	3.16							

Sampling Data

Sampled By: Billy E.	Sampling Time: 1440	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

Signature: Billy E

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 10/7/14	Site ID #: 07584/07777/12352	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 26	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 20 to 30	Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 23.2		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 6.78	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	1450							
PH (s.u.)	5.20							
Specific Conductivity (µS/cm)	102							
Water Temperature (°C)	24.40							
Turbidity (NTU)	14.2							
Dissolved Oxygen (mg/L)	4.63							

Sampling Data

Sampled By: Billy E.	Sampling Time: 1450	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

Signature: Billy E

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 1/24/18	Site ID #: 07584/07777/12352	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 8	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 18 to 8	Total Well Depth (TWD) (ft.): 18
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 21.86		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 6.14	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	1500							
PH (s.u.)	5.10							
Specific Conductivity (µS/cm)	50							
Water Temperature (°C)	24.67							
Turbidity (NTU)	28.6							
Dissolved Oxygen (mg/L)	9.84							

Sampling Data

Sampled By: Billy E.	Sampling Time: 1500	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

Signature: Billy E

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 1/17/18	Site ID #: 07584/07777/12352	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fiskn	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 7	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 20 to 30	Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.):		Depth to Groundwater (DGW) (ft.): 24.58	Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 5.42		1 casing volume (CV = LWC x C) (gals.):	3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	1510							
PH (s.u.)	4.40							
Specific Conductivity (µS/cm)	126							
Water Temperature (°C)	24.58							
Turbidity (NTU)	10.5							
Dissolved Oxygen (mg/L)	5.94							

Sampling Data

Sampled By: Billy E.	Sampling Time: 1510	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

Signature: Billy E

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 1/8/18	Site ID #: 07584/07777/12352	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 4	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other ___ Private WSW ___Public WSW	Screened Interval (ft.): 28 to 18		Total Well Depth (TWD) (ft.): 28
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 22.19		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 5.81	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	1520							
PH (s.u.)	4.21							
Specific Conductivity (µS/cm)	147							
Water Temperature (°C)	24.82							
Turbidity (NTU)	499							
Dissolved Oxygen (mg/L)	5.39							

Sampling Data

Sampled By: Billy F.	Sampling Time: 1520	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

Signature: Billy F.

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 11/14	Site ID #: 07584/07777/12352	Site Name: Clouds Exxon	Field Personnel: Billy F
County: Richland	Project Manager: DAN Fisher	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 16	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 25 to 15	Total Well Depth (TWD) (ft.): 25
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 19.36		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 5.64	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	1315							
PH (s.u.)	5.89							
Specific Conductivity (µS/cm)	84							
Water Temperature (°C)	23.13							
Turbidity (NTU)	10.9							
Dissolved Oxygen (mg/L)	2.27							

Sampling Data

Sampled By: Billy F.	Sampling Time: 1315	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

Signature: Billy F

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 10/29/18	Site ID #: 07584/07777/12352	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 17	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 20 to 30	Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 23.87		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 6.13	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	1305							
PH (s.u.)	5.99							
Specific Conductivity (µS/cm)	309							
Water Temperature (°C)	24.11							
Turbidity (NTU)	5.7							
Dissolved Oxygen (mg/L)	2.57							

Sampling Data

Sampled By: Billy E.	Sampling Time: 1305	Duplicate: Y or N	If yes, Duplicate Time:

Notes: No locking cap.

Signature: Billy E

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 1/22/18	Site ID #: 07584/07777/12352	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 10	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 28 to 18	Total Well Depth (TWD) (ft.): 28
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 17.28		Free Product Thickness (ft.):
Length of water column (LWC = TWD - DGW) (ft.): 10.72	1 casing volume (CV = LWC x C) (gals.): 1.7		3 casing volumes (3 x CV) (gals.): 5.1

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0	1.7	3.4	5.1				
Time (military)	1220	1230	DRY	DRY				
PH (s.u.)	5.97	6.16	↓	↓				
Specific Conductivity (µS/cm)	383	399						
Water Temperature (°C)	23.61	23.24						
Turbidity (NTU)	184	120						
Dissolved Oxygen (mg/L)	3.82	2.41						

Sampling Data

Sampled By: Billy E.	Sampling Time: 1220	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

Signature: Billy E

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 11/29/18	Site ID #: 07584/07777/12352	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 9	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 30 to 20	Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 22.22		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 7.78	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	1255							
PH (s.u.)	6.11							
Specific Conductivity (µS/cm)	308							
Water Temperature (°C)	24.83							
Turbidity (NTU)	14.0							
Dissolved Oxygen (mg/L)	2.47							

Sampling Data

Sampled By: Billy E.	Sampling Time: 1255	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

Signature: Billy E

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 1/24/14	Site ID #: 07584/07777/12352	Site Name: Clouds Exxon	Field Personnel: Billy F
County: Richland	Project Manager: DAN Fisher	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 56	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other_____ ___Private WSW ___Public WSW	Screened Interval (ft.): 20 to 5		Total Well Depth (TWD) (ft.): 20
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 5.69		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 11.31	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	1120							
PH (s.u.)	5.68							
Specific Conductivity (µS/cm)	982							
Water Temperature (°C)	20.11							
Turbidity (NTU)	972							
Dissolved Oxygen (mg/L)	4.73							

Sampling Data

Sampled By: Billy F.	Sampling Time: 1123	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

Signature: Billy F

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 11/27/18	Site ID #: 07584/07777/12352	Site Name: Cloud's Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: ~~MW~~ DW9	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 65 to 60		Total Well Depth (TWD) (ft.): 65
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 23.73		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 41.27	1 casing volume (CV = LWC x C) (gals.): 6.6		3 casing volumes (3 x CV) (gals.): 19.8

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0	6.6	13.2	19.8				
Time (military)	1010	1040	1050	1100				
PH (s.u.)	5.99	6.13	5.89	5.90				
Specific Conductivity (µS/cm)	104	101	95	87				
Water Temperature (°C)	20.40	20.66	20.62	20.52				
Turbidity (NTU)	30.0	71.6	17.8	8.33				
Dissolved Oxygen (mg/L)	3.17	4.26	4.16	4.01				

Sampling Data

Sampled By: Billy E.	Sampling Time: 1100	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: No well cap on well

Signature: Billy E

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 1/24/18	Site ID #: 07584/0777/12352	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fiskn	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 59	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 17 to 2		Total Well Depth (TWD) (ft.): 17
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 6.55		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 10.45	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	1110							
PH (s.u.)	5.99							
Specific Conductivity (uS/cm)	423							
Water Temperature (°C)	17.80							
Turbidity (NTU)	23.9							
Dissolved Oxygen (mg/L)	2.96							

Sampling Data

Sampled By: Billy E.	Sampling Time: 1110	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: _____

Signature: Billy E

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 11/22/18	Site ID #: 07584/07777/12352	Site Name: Cloud's Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 55	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 4 to 14	Total Well Depth (TWD) (ft.): 14
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 3.51		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 10.49	1 casing volume (CV = LWC x C) (gals.): 1.6		3 casing volumes (3 x CV) (gals.): 4.8

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0	1.6	3.2	4.8				
Time (military)	1130	1140	1150	1200				
PH (s.u.)	5.86	5.97	5.94	5.96				
Specific Conductivity (uS/cm)	282	215	216	207				
Water Temperature (°C)	18.57	19.35	20.55	19.93				
Turbidity (NTU)	295	414	586	>1000				
Dissolved Oxygen (mg/L)	2.86	4.03	3.55	3.56				

Sampling Data

Sampled By: Billy E.	Sampling Time: 1200	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: _____

Signature: Billy E

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 10/4/18	Site ID #: 07587/07777/12352	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 53	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 20 to 5	Total Well Depth (TWD) (ft.): 20
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 11.32		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 8.68	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	1210							
PH (s.u.)	4.79							
Specific Conductivity (µS/cm)	97							
Water Temperature (°C)	21.74							
Turbidity (NTU)	125							
Dissolved Oxygen (mg/L)	4.37							

Sampling Data

Sampled By: Billy E.	Sampling Time: 1210	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: _____

Signature: Billy E

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 1/09/18	Site ID #: 07584/07777/12352	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 15	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 25 to 15	Total Well Depth (TWD) (ft.): 25
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 17.29		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 7.71	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	1240							
PH (s.u.)	6.24							
Specific Conductivity (µS/cm)	504							
Water Temperature (°C)	23.05							
Turbidity (NTU)	50.4							
Dissolved Oxygen (mg/L)	2.32							

Sampling Data

Sampled By: Billy E.	Sampling Time: 1240	Duplicate: Y or N	If yes, Duplicate Time: 1245

Notes: Busted well casing / No Pad. DWP

Signature: Billy E

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 1/14/14	Site ID #: 07584/0777/1235	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 6	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 20 to 30	Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 24.54		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 5.46	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	1530							
PH (s.u.)	4.61							
Specific Conductivity (µS/cm)	99							
Water Temperature (°C)	24.98							
Turbidity (NTU)	516							
Dissolved Oxygen (mg/L)	4.26							

Sampling Data

Sampled By: Billy E.	Sampling Time: 1530	Duplicate: Y or N	If yes, Duplicate Time:

Notes: Broken lock cap.

Signature: Billy E

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 1/23/14	Site ID #: 07584/07777/12352	Site Name: Clouds Eaton	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 33	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 35 to 20	Total Well Depth (TWD) (ft.): 35
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 25.02		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 9.98	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	1220	1225						
PH (s.u.)	5.65							
Specific Conductivity (µS/cm)	209							
Water Temperature (°C)	23.72							
Turbidity (NTU)	125							
Dissolved Oxygen (mg/L)	2.57							

Sampling Data

Sampled By: Billy E.	Sampling Time: 1225	Duplicate: (Y) or N	If yes, Duplicate Time:

Notes: Dup 4 1230

Signature: Billy E

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 1/13/14	Site ID #: 07584/07777/12352	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fiskn	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 46	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 35 to 20		Total Well Depth (TWD) (ft.): 35
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 25.26		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 9.74	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	600							
PH (s.u.)	4.56							
Specific Conductivity (µS/cm)	97							
Water Temperature (°C)	29.27							
Turbidity (NTU)	55.6							
Dissolved Oxygen (mg/L)	7.89							

Sampling Data

Sampled By: Billy E.	Sampling Time: 600	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

Signature: Billy E

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 1/23/14	Site ID #: 07584/07777/12352	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fiskr	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 36	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 35 to 20	Total Well Depth (TWD) (ft.): 35
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 25.02		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 9.98	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	1245							
PH (s.u.)	4.83							
Specific Conductivity (µS/cm)	124							
Water Temperature (°C)	23.64							
Turbidity (NTU)	19.2							
Dissolved Oxygen (mg/L)	3.07							

Sampling Data

Sampled By: Billy E.	Sampling Time: 1245	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

Signature: Billy E

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 1/30/14	Site ID #: 07584/07777/12352	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW41	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 35 to 20		Total Well Depth (TWD) (ft.): 35
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 27.31		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 7.69	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	940							
PH (s.u.)	6.04							
Specific Conductivity (uS/cm)	153							
Water Temperature (°C)	21.51							
Turbidity (NTU)	541							
Dissolved Oxygen (mg/L)	3.00							

Sampling Data

Sampled By: Billy E.	Sampling Time: 940	Duplicate: Y or N	If yes, Duplicate Time:
		Y	945

Notes: DUP 3

Signature: Billy E

DHEC 0423 (10/2012)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 11/18/14	Site ID #: 07584/07777/12352	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 40	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 35 to 20		Total Well Depth (TWD) (ft.): 35
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 26.88		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 8.12	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	930							
PH (s.u.)	6.42							
Specific Conductivity (µS/cm)	338							
Water Temperature (°C)	21.57							
Turbidity (NTU)	52.5							
Dissolved Oxygen (mg/L)	2.73							

Sampling Data

Sampled By: Billy E.	Sampling Time: 930	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: H2 By Tractor No gal NO CAP

Signature: Billy E

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 1/23/18	Site ID #: 07584/02777/12352	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fiskn	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 37	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 35 to 20	Total Well Depth (TWD) (ft.): 35
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 25.17		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 9.83	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	1200							
PH (s.u.)	4.55							
Specific Conductivity (uS/cm)	112							
Water Temperature (°C)	23.89							
Turbidity (NTU)	259							
Dissolved Oxygen (mg/L)	3.44							

Sampling Data

Sampled By: Billy E.	Sampling Time: 1200	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: _____

Signature: Billy E

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 11/13/14	Site ID #: 07584/07777/12352	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW31	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW		Screened Interval (ft.): 35 to 20	Total Well Depth (TWD) (ft.): 35
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 26.61		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 8.39	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	1145							
PH (s.u.)	5.39							
Specific Conductivity (uS/cm)	151							
Water Temperature (°C)	21.34							
Turbidity (NTU)	184							
Dissolved Oxygen (mg/L)	2.63							

Sampling Data

Sampled By: Billy E.	Sampling Time: 1145	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: _____

Signature: Billy E

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 1/23/14	Site ID #: 07584/07777/12352	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fiskn	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW62	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 35 to 20	Total Well Depth (TWD) (ft.): 35
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 24.18		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 10.82	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	1130							
PH (s.u.)	4.51							
Specific Conductivity (µS/cm)	202							
Water Temperature (°C)	20.94							
Turbidity (NTU)	101							
Dissolved Oxygen (mg/L)	2.99							

Sampling Data

Sampled By: Billy E.	Sampling Time: 1130	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: _____

Signature: Billy E

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 1/23/14	Site ID #: 07584/0777/12352	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fiskn	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 63	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 35 to 20		Total Well Depth (TWD) (ft.): 35
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 25.45		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 9.55	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	1115							
PH (s.u.)	4.28							
Specific Conductivity (µS/cm)	174							
Water Temperature (°C)	12.70							
Turbidity (NTU)	407							
Dissolved Oxygen (mg/L)	3.21							

Sampling Data

Sampled By: Billy E.	Sampling Time: 1115	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: _____

Signature: Billy E

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 11/28/18	Site ID #: 02584/07771/12352	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fiskn	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 70	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 35 to 20	Total Well Depth (TWD) (ft.): 35
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 26.36		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 8.64	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	1045							
PH (s.u.)	7.97							
Specific Conductivity (µS/cm)	88							
Water Temperature (°C)	21.67							
Turbidity (NTU)	602							
Dissolved Oxygen (mg/L)	4.25							

Sampling Data

Sampled By: Billy E.	Sampling Time: 1045	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: _____

Signature: Billy E

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 11/21/14	Site ID #: 07584/0777/12352	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fiskn	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 39	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): to	Total Well Depth (TWD) (ft.):
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 27.68		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0	0						
Time (military)		1634						
PH (s.u.)		6.24						
Specific Conductivity (µS/cm)		89						
Water Temperature (°C)		23.07						
Turbidity (NTU)		667						
Dissolved Oxygen (mg/L)		2.73						

Sampling Data

Sampled By: Billy E.	Sampling Time: 1630	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: Found well pad Destroyed By Trucks
NO Locking Cap Well Bowling

Signature: Billy E

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 1/27/18	Site ID #: 07584/07777/12352	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 42	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 35 to 20		Total Well Depth (TWD) (ft.): 35
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 27.42		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 7.58	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	955							
PH (s.u.)	6.04							
Specific Conductivity (µS/cm)	159							
Water Temperature (°C)	22.56							
Turbidity (NTU)	5.1							
Dissolved Oxygen (mg/L)	2.62							

Sampling Data

Sampled By: Billy E.	Sampling Time: 955	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: DAJ Hit destroyed By Tractor

Signature: Billy E

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 11/14	Site ID #: 07584/07777/12352	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: ~~MW~~ Dw6	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 70 to 65		Total Well Depth (TWD) (ft.): 70
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 45.51		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 24.49	1 casing volume (CV = LWC x C) (gals.): 3.9		3 casing volumes (3 x CV) (gals.): 11.7

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0	3.9	7.8	11.7				
Time (military)	910	920	D	D				
PH (s.u.)	6.83	7.05						
Specific Conductivity (uS/cm)	137	134	R	R				
Water Temperature (°C)	20.93	20.87						
Turbidity (NTU)	62.2	412	Y	Y				
Dissolved Oxygen (mg/L)	4.50	6.04						

Sampling Data

Sampled By: Billy E.	Sampling Time: 910	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: _____

Signature: Billy E

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 1/23/18	Site ID #: 07584/07777/12352	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fiskn	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 67	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 35 to 20	Total Well Depth (TWD) (ft.): 35
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 27.44		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 7.56	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	900							
PH (s.u.)	4.80							
Specific Conductivity (µS/cm)	125							
Water Temperature (°C)	23.28							
Turbidity (NTU)	205							
Dissolved Oxygen (mg/L)	5.42							

Sampling Data

Sampled By: Billy E.	Sampling Time: 900	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: Hit By Asphalt Remover pad destroyed Well Broken

Signature: Billy E

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 11/13/14	Site ID #: 07584/0777/1235	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW38	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 35 to 20		Total Well Depth (TWD) (ft.): 35
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 26.42		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 8.58	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	840							
PH (s.u.)	4.36							
Specific Conductivity (µS/cm)	46							
Water Temperature (°C)	24.64							
Turbidity (NTU)	5.8							
Dissolved Oxygen (mg/L)	7.82							

Sampling Data

Sampled By: Billy E.	Sampling Time: 840	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

Signature: Billy E

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 1/23/14	Site ID #: 07584/07777/12352	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 43	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW		Screened Interval (ft.): 20 to 40	Total Well Depth (TWD) (ft.): 40
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 25-84		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 14.16	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	820							
PH (s.u.)	4.47							
Specific Conductivity (µS/cm)	108							
Water Temperature (°C)	24.40							
Turbidity (NTU)	10.2							
Dissolved Oxygen (mg/L)	5.60							

Sampling Data

Sampled By: Billy E.	Sampling Time: 830	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

Signature: Billy E

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 11/23/14	Site ID #: 07584/0777/12352	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fiskn	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 44	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 31 to 16	Total Well Depth (TWD) (ft.): 31
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 24.42		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 6.58	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	820							
PH (s.u.)	4.24							
Specific Conductivity (µS/cm)	100							
Water Temperature (°C)	24.49							
Turbidity (NTU)	7.5							
Dissolved Oxygen (mg/L)	5.78							

Sampling Data

Sampled By: Billy E.	Sampling Time: 820	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

Signature: Billy E

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 1/08/14	Site ID #: 07584/07777/12352	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 4S	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 30 to 15	Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 22.94		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 7.06	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	810							
PH (s.u.)	4.38							
Specific Conductivity (µS/cm)	95							
Water Temperature (°C)	24.32							
Turbidity (NTU)	982							
Dissolved Oxygen (mg/L)	6.62							

Sampling Data

Sampled By: Billy E.	Sampling Time: 810	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

Signature: Billy E

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 1/24/14	Site ID #: 07584/02777/12352	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 49	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 30 to 15	Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 17.83		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 12.17	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	1440							
PH (s.u.)	1.52							
Specific Conductivity (µS/cm)	199							
Water Temperature (°C)	22.47							
Turbidity (NTU)	54.1							
Dissolved Oxygen (mg/L)	6.54							

Sampling Data

Sampled By: Billy E.	Sampling Time: 1440	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: _____

Signature: Billy E.

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 1/24/14	Site ID #: 07584/07777/12352	Site Name: Clouds Exxon	Field Personnel: Billy E	
County: Richland	Project Manager: DAN Fiskn	General Weather Conditions:		Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: ~~test~~ PW1R	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 50 to 45		Total Well Depth (TWD) (ft.): 50
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 24.43		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 25.57	1 casing volume (CV = LWC x C) (gals.): 4		3 casing volumes (3 x CV) (gals.): 12

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0	4	8 PRG	12 PRG				
Time (military)	1210	1220	1230	1240				
PH (s.u.)	5.57	5.67	5.77					
Specific Conductivity (µS/cm)	121	152	154					
Water Temperature (°C)	23.78	24.39	24.70					
Turbidity (NTU)	14.1	334	>1000					
Dissolved Oxygen (mg/L)	3.57	2.58	2.60					

Sampling Data

Sampled By: Billy E.	Sampling Time: 1230	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: _____

Signature: Billy E

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 12/4/14	Site ID #: 07584/0777/12352	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 19	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 30 to 20	Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 25.11		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 4.89	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	840							
PH (s.u.)	5.88							
Specific Conductivity (µS/cm)	374							
Water Temperature (°C)	23.75							
Turbidity (NTU)	87.3							
Dissolved Oxygen (mg/L)	2.68							

Sampling Data

Sampled By: Billy E.	Sampling Time: 840	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: _____

Signature: Billy E

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 11/1/18	Site ID #: 07584/0777/1235	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fiskn	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 51	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 20 to 35	Total Well Depth (TWD) (ft.): 35
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 24.82		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 9.18	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0	0						
Time (military)	~~DRY~~	1210						
PH (s.u.)		4.89						
Specific Conductivity (µS/cm)		155						
Water Temperature (°C)		22.09						
Turbidity (NTU)		470						
Dissolved Oxygen (mg/L)		4.55						

Sampling Data

Sampled By: Billy E.	Sampling Time: 1410	Duplicate: Y or N	If yes, Duplicate Time:

Notes: IW Locking Cap

Signature: Billy E

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 1/24/18	Site ID #: 02584/0777/12352	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fiskn	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI d3 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 11	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 20 to 30	Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 20.91		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 9.09	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0	0						
Time (military)		1420						
PH (s.u.)		4.99						
Specific Conductivity (µS/cm)		130						
Water Temperature (°C)		21.17						
Turbidity (NTU)		102						
Dissolved Oxygen (mg/L)		4.61						

Sampling Data

Sampled By: Billy E.	Sampling Time: 1420	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: _____

Signature: Billy E

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 10/4/18	Site ID #: 07584/0777/12352	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 34	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 35 to 20	Total Well Depth (TWD) (ft.): 35
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 25.84		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 9.16	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post.	Sampling
Volume Purged (gallons)	0							
Time (military)	810							
PH (s.u.)	5.14							
Specific Conductivity (µS/cm)	140							
Water Temperature (°C)	22.52							
Turbidity (NTU)	44.7							
Dissolved Oxygen (mg/L)	3.49							

Sampling Data

Sampled By: Billy E.	Sampling Time: 810	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: _____

Signature: Billy E

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 1/24/18	Site ID #: 07584/07777/12352	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 35	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 35 to 20		Total Well Depth (TWD) (ft.): 35
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 24.88		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 10.12	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	750							
PH (s.u.)	5.36							
Specific Conductivity (µS/cm)	147							
Water Temperature (°C)	22.24							
Turbidity (NTU)	136							
Dissolved Oxygen (mg/L)	2.73							

Sampling Data

Sampled By: Billy E.	Sampling Time: 750	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

Signature: Billy E

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 12/4/18	Site ID #: 07587/07777/12352	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fiskn	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: ~~MW~~ DW5	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ MW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 70 to 65	Total Well Depth (TWD) (ft.): 70
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 43.46		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 26.54	1 casing volume (CV = LWC x C) (gals.): 4.2		3 casing volumes (3 x CV) (gals.): 12.6

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0	4.2	8.4	12.6				
Time (military)	730	740	D	D				
PH (s.u.)	5.49	5.70	D	D				
Specific Conductivity (uS/cm)	127	142	D	D				
Water Temperature (°C)	20.56	20.53	4	4				
Turbidity (NTU)	201	600						
Dissolved Oxygen (mg/L)	3.10	5.13						

Sampling Data

Sampled By: Billy E.	Sampling Time: 740	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: _____

Signature: Billy E

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 1/24/14	Site ID #: 07584/02777/12352	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 18	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 20 to 30	Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 25.54		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 4.46	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	830							
PH (s.u.)	5.70							
Specific Conductivity (µS/cm)	287							
Water Temperature (°C)	13.07							
Turbidity (NTU)	61.5							
Dissolved Oxygen (mg/L)	2.78							

Sampling Data

Sampled By: Billy E.	Sampling Time: 830	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: No Locking cap

Signature: Billy E

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 1/21/14	Site ID #: 07584/07777/12352	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 23	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 20 to 30		Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 25.35		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 4.65	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	850							
PH (s.u.)	5.68							
Specific Conductivity (uS/cm)	220							
Water Temperature (°C)	22.84							
Turbidity (NTU)	27.8							
Dissolved Oxygen (mg/L)	2.60							

Sampling Data

Sampled By: Billy E.	Sampling Time: 858	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: Broken Locking CAP DRS 855

Signature: Billy E

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 12/4/18	Site ID #: 07584/07777/12352	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 30	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ Private WSW ___ Public WSW		Screened Interval (ft.): 10 to 15	Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 23.22		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 6.78	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	905							
PH (s.u.)	5.96							
Specific Conductivity (µS/cm)	212							
Water Temperature (°C)	21.52							
Turbidity (NTU)	115							
Dissolved Oxygen (mg/L)	3.71							

Sampling Data

Sampled By: Billy E.	Sampling Time: 905	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: _____

Signature: Billy E

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 12/4/14	Site ID #: 07584/07777/12352	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 32	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 30 to 15	Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 23.54		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 6.46	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	915							
PH (s.u.)	5.44							
Specific Conductivity (µS/cm)	187							
Water Temperature (°C)	22.82							
Turbidity (NTU)	81.5							
Dissolved Oxygen (mg/L)	3.00							

Sampling Data

Sampled By: Billy E.	Sampling Time: 915	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: _____

Signature: Billy E

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 10/4/18	Site ID #: 07584/07777/12352	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fiskn	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW29	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 30 to 15	Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 20.45		Free Product Thickness (ft.):
Length of water column (LWC = TWD - DGW) (ft.): 9.55	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	925							
PH (s.u.)	5.39							
Specific Conductivity (uS/cm)	155							
Water Temperature (°C)	20.28							
Turbidity (NTU)	472							
Dissolved Oxygen (mg/L)	3.44							

Sampling Data

Sampled By: Billy E.	Sampling Time: 925	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: _____

Signature: Billy E

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 1/24/18	Site ID #: 07587/07777/12352	Site Name: Clouds Exxon	Field Personnel: Billy F
County: Richland	Project Manager: DAN Fiskn	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 28	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 30 to 15	Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 20.30		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 9.70	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	935							
PH (s.u.)	4.95							
Specific Conductivity (µSrcm)	128							
Water Temperature (°C)	19.51							
Turbidity (NTU)	67.1							
Dissolved Oxygen (mg/L)	4.60							

Sampling Data

Sampled By: Billy F.	Sampling Time: 935	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: _____

Signature: Billy F

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 12/1/18	Site ID #: 07584/07777/12352	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 27	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 30 to 15		Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 19.71		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 10.29	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	945							
PH (s.u.)	4.90							
Specific Conductivity (µS/cm)	217							
Water Temperature (°C)	21.52							
Turbidity (NTU)	9.1							
Dissolved Oxygen (mg/L)	4.50							

Sampling Data

Sampled By: Billy E.	Sampling Time: 945	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: _____

Signature: Billy E

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 12/4/18	Site ID #: 07584/07777/12352	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fisher	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 22	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 30 to 20		Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 23.19		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 6.81	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	1005							
PH (s.u.)	5.74							
Specific Conductivity (µS/cm)	182							
Water Temperature (°C)	22.03							
Turbidity (NTU)	18.5							
Dissolved Oxygen (mg/L)	2.86							

Sampling Data

Sampled By: Billy E.	Sampling Time: 1005	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: _____

Signature: Billy E

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 1/24/14	Site ID #: 07584/07777/12352	Site Name: Clouds Exxon	Field Personnel: Billy E
County: Richland	Project Manager: DAN Fiskr	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 25	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 15 to 25	Total Well Depth (TWD) (ft.): 25
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 22.06		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 2.94	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	955							
PH (s.u.)	6.00							
Specific Conductivity (uS/cm)	351							
Water Temperature (°C)	20.42							
Turbidity (NTU)	17.4							
Dissolved Oxygen (mg/L)	2.84							

Sampling Data

Sampled By: Billy E.	Sampling Time: 955	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: _____

Signature: _____

Appendix C

Disposal Manifest

CRAWFORD
ENVIRONMENTAL
SERVICES

February 14, 2018

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

Re: Purge Water Report- Development & Groundwater Sampling
Handy Pantry #65/University Mart & Cloud's Chevron
Intersection of Taylor Street and Two Notch Road
Columbia, South Carolina
UST Permit # 07584 / 07777 / 12352

Dear Project Manager;

The letter presents the certification that Crawford Environmental Services (CES) treated purge waters referenced below with a granular activated carbon unit prior to discharge. This was completed in accordance with the conditions laid out in the "Proposed Conditions for use of Portable Activated Carbon Units for the Treatment of Small Volumes of Petroleum Hydrocarbon Contaminated Groundwater" produced by the SCDHEC Bureau of Water.

A total of 109-gallons was treated on January 22, 23, and 24, 2018 for the above referenced facility.

A record of treatment is available upon request. If you have any questions or comments please feel free to contact us at 540-798-5068.

Sincerely,

Daniel Fisher
Operations Manager
Crawford Environmental Services

Appendix D

QAPP Addendum Contractor Checklist

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

UST Programmatic QAPP Contractor Checklist				
26	Does the report include a brief discussion of the aquifer evaluation and the results?	Yes		
27	Does the report include a brief discussion of the fate & transport models used?			n/a
28	Are the site-conceptual tables included (Tier 1 risk evaluation)			n/a
29	Have the exposure pathways been analyzed (Tier 2 risk evauluation)			n/a
30	Have the SSTLs for each compound and pathway been calculated? (Tier 2 risk evaluation)	Yes		
31	Have recommendations for further action been provided and explained?			n/a
32	Has the soil analytical data for the site been provided in tabular format? (Table 5)			n/a
33	Has the potentiometric data for the site been provided in tabular format?	Yes		
34	Has the current and historical laboratory data been provided in tabular format	Yes		
35	Have the aquifer characteristics been provided and summarized on the appropriate form?			n/a
36	Have the Site conceptual model tables been included (Tier 1 risk evaluation)			n/a
37	Has the topographic map been provided with all the required elements?	Yes		
38	Has the site base map been provided with all the required elements?	Yes		
39	Have the CoC maps been provided?	Yes		
40	Have the potentiometric maps been provided?	Yes		
41	Have the geologic cross-sections been provided			n/a
42	Have maps showing the predicted migration of the CoCs through time been provided?			n/a
43	Has the site survey been provided and include all necessary elements? (Appendix A)			n/a
44	Have the sampling logs, chain of custody forms and analytical data package been included with all elements? (Appendix B)	Yes		
45	Is the laboratory performing the analyses properly certified? (Appendix B)	Yes		
46	Has the tax map been included with all necessary elements? (Appendix C)			n/a
47	Have the soil/boring field screening logs been provided? (Appendix D)			n/a
48	Have the well completion logs been provided? (Appendix E)			n/a
49	Have the aquifer evaluation forms,data, graphs, equations,etc. been provided? (Appendix F)			n/a
50	Have the disposal manifests been provided? (Appendix G)	Yes		
51	Has a copy of the local zoning regulations been provided? (Appendix H)			n/a

UST Programmatic QAPP Contractor Checklist				
52	Has all fate and transport modeling been provided? (Appendix I)			n/a
53	Have copies of all access agreements obtained by the contractor been provided? (Appendix J)			n/a
54	Has a copy of this form been attached to the final report and are explainations for any missing or incomplete data been provided?	Yes		
Comments:				

dhec
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OCT 0 2 2018

UST DOCKETING

CERTIFIED MAIL
9214 8969 0099 9790 1412 9293 13

MR CHARLES F CRAWFORD III
CRAWFORD ENVIRONMENTAL SERVICES
1701 SHENANDOAH AVENUE NW
ROANOKE VA 24017-5550

Re: Notice of Failure to Perform #1 Complaint
Invitation for Bid IFB-5400007095-1/30/2014-EMW;
Purchase Order #4600322226
UST Permit #07584 265 tech
College Corner, 2367 Taylor Street, Columbia, SC
Release #1 reported January 30, 1991
Release #2 reported April 17, 1998
UST Permit #07777 199 tech
Clouds Chevron, 1600 Two Notch Road, Columbia, SC
Release reported December 31, 1991
UST Permit #12352 134 tech
Clouds Chevron, 1600 Two Notch Road, Columbia, SC
Release reported December 30, 1991
CASE report review sent April 6, 2018
Richland County

Dear Mr. Crawford:

In accordance with bid specification item III.3.4.A.4, the Underground Storage Tank (UST) Management Division is providing you with notification of your failure to perform, as you have failed to meet contract specification item III.3.5.B.8 that requires reports to be submitted on a semi-annual basis. The UST Division sent you the attached CASE report review letter which notified you that the next Corrective Action System Evaluation (CASE) report was to be submitted by **June 15, 2018** in accordance with the semi-annual CASE reporting schedule. To date, the Division has not received the required report nor has any notification been provided to the Division that problems existed in meeting the due date.

In accordance with bid specification item III.3.4.A.4, the UST Division requests that you be available for a meeting on October 15, 2018 at 2:00 PM to discuss a remedy for this deficiency, or that you submit the CASE report **within 15 days from the date of this letter**. Additionally, future CASE report due dates should not be affected. CASE reports are due on June 15 and December 15 of each year.

On all correspondence regarding this site, please reference UST Permit numbers #07584, #07777 and #12352. If you have questions concerning this correspondence, feel free to contact me by phone at (803) 898-2622, or by email at mooresct@dhec.sc.gov.

Sincerely,

Carolyn T Moores

Carolyn Moores, Hydrogeologist
Corrective Action & Quality Assurance Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

Enc: CASE Report Review

Cc: Matt Winslow, Bureau of Business Management
Technical File
Contractor Certification File

dhec
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MR CHARLES F CRAWFORD III
CRAWFORD ENVIRONMENTAL SERVICES
15 CHURCH AVENUE SW
ROANOKE VA 24011

APR 0 6 2018

UST 264 Tech DOCKETING

Re: **Corrective Action System Evaluation (CASE) Report Review**
UST Permit# 07584, College Corner, 2367 Taylor St., Columbia, SC
Release #1 reported January 30, 1991; CA# 47811
Release #2 reported April 17, 1998; CA# 47812
UST Permit # 07777, Clouds Chevron, 1600 Two Notch Rd., Columbia, SC
Release reported December 31, 1991; CA# 47813
UST Permit # 12352, Clouds Chevron, 1600 Two Notch Rd., Columbia, SC
Release reported December 30, 1991; CA# 47814
Contract #IFB-5400007095-1/30/2014-EMW; PO# 4600322226
CASE report received February 28, 2018
Richland County

Dear Mr. Crawford:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed the CASE report documenting the corrective action activities and the January 2018 groundwater sampling event. The CASE report has documented 36.15% Chemical of Concern (CoC) reduction.

The semi-annual CASE 8 report is due on or before **June 15, 2018.**

On all correspondence regarding this site, please reference UST Permit #07584, #07777, & #12352. If you have any questions regarding this correspondence, please contact me by telephone at (803) 898-0634, by fax at (803) 898-0673, or by e-mail at kuhnkm@dhec.sc.gov.

Sincerely,

Kimberly M. Kuhn, Hydrogeologist
Corrective Action & Quality Assurance Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

cc: Sylvan Food Systems, Inc., 1245 Boston Ave, West Columbia, SC 29170
Gilbert Walker, Public Housing Authority, Gonzales Gardens, P.O. Box 4307, Columbia, SC 29240
1500 Millwood Ave, LLC, 1330 Devonshire Drive, Columbia, SC 29204
John M. Suddeth, 1410 N Millwood Ave, Columbia, SC 29204
Fung Lau, 2300 Taylor St, Suite D, Columbia, SC 29204
Technical File

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NOV 06 2018

UST DOCKETING

CERTIFIED MAIL
9214 8969 0099 9790 1413 2488 02

MR CHARLES CRAWFORD
CRAWFORD ENVIRONMENTAL SERVICES INC
1701 SHENANDOAH AVENUE NORTH WEST
ROANOKE VA 24017-5550

Re: Resolution of Notice of Failure to Perform #1
IFB-5400007095-1/30/2014-EMW;
Purchase Order #4600322226
UST Permit #07584 - 2000T
College Corner, 2367 Taylor Street, Columbia, SC
Release #1 reported January 30, 1991
Release #2 reported April 17, 1998
UST Permit #07777 - 2000T
Clouds Chevron, 1600 Two Notch Road, Columbia, SC
Release reported December 31, 1991
UST Permit #12352 - 1350T
Clouds Chevron, 1600 Two Notch Road, Columbia, SC
Release reported December 30, 1991
Richland County

Dear Mr. Crawford:

Thank you for taking the time October 15, 2018 to meet and discuss the Notice of Failure to Perform issued October 2, 2018 by the Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control. This meeting was conducted in accordance with Contractual Requirement III.3.4.A.4 of corrective action contract IFB-5400007622-4/17/14-EMW.

As discussed, UST Management is requesting your next CASE report due on or before November 30, 2018. Going forward please adhere to the due dates listed below.

UST Permit #	Site Name	CASE Report Due Dates
07584, 07777, 12352	College Corner, Clouds Chevron	May 30 and November 30 each year

UST Permit #	Site Name	QAPP Addendum for Corrective Action
07584, 07777, 12352	College Corner, Clouds Chevron	1st Quarter each year

UST Permit #	Site Name	CAP Addendum
07584, 07777, 12352	College Corner, Clouds Chevron	December 31, 2018

Per the schedule of deliverables in section 3.2 of your contract, please notify the project manager at least 2 weeks prior to a sampling event. Additionally, an update of the QAPP Contractor Addendum for Corrective Action is due the first quarter of each year until completion of corrective action. The Division is also requesting a Corrective Action Plan (CAP) Addendum with an updated time table for site closure before the end of the year.

If there are any problems meeting these deadlines, please notify DHEC in advance. On all correspondence regarding this site, please reference UST Permit number #07584, #07777, and #12352. If you have questions concerning this correspondence, feel free to contact me by phone at (803) 898-2622, or by email at mooresct@dhec.sc.gov.

Sincerely,

Carolyn T Moores

Carolyn Moores, Hydrogeologist
Corrective Action & Quality Assurance
Underground Storage Tank Management Division
Bureau of Land and Waste Management

CC: Matt Winslow, Bureau of Business Management (w/enc.)
Technical File (w/enc.)
Contractor Certification File UCC-0388

12352

dhec
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NOV 28 2018

UST DOCKETING 12352

RUBY G FIELDING
ALLEN UNIVERSITY
1530 HARDEN ST
COLUMBIA SC 29204

Re: **Site History Summary**
College Corner, 2367 Taylor Street, Columbia, SC
UST Permit #07584& #18389
Cloud's Chevron, 1600 Two Notch Road, Columbia, SC
UST Permit #07777 & 12352
Releases reported January 30, 1991, April 17, 1998, and April 14, 1999 for UST Permit #07584
Release reported December 31, 1991 for UST Permit #07777
Release reported December 30, 1991 for UST Permit #12352
Request for Site History Summary received November 27, 2018
Richland County

Dear Mrs. Fielding:

In response to a request submitted by ARM Environmental Services on your behalf for information about environmental conditions and liability associated with the referenced facility and adjacent property, the following is provided.

In reference to UST Permit #07584:

According to our records,three USTs were registered with DHEC. The USTs were registered by ACME Petroleum & Fuel Company. One tank was removed from the ground in June 1998 and two were removed from the ground in March 1999.

Our records indicate that ACME Petroleum & Fuel Company, the tank owner at the time of the January 1991 and April 1998 releases,complied with the regulatory requirements and performed the initial response actions outlined in R.61-92, UST Control Regulations, Section 280.61. Additionally, they arecurrently conducting active remedial actions to reduce the concentrations of petroleum chemicals in the subsurface to acceptable levels. The next semi-annual progress report is due by November 30, 2018.

The release reported on April 14, 1999 received a no further action determination on May 5, 1999. Pacemaker Leasing Corporation, Inc. is listed as the tank owner at the time of the release. No additional actions are required.

In reference to UST Permit #18389:

According to our records,fourUSTs were registered with DHEC. USTs 1 & 2 were registered by Fast

Point Food Stores Inc. and were removed from the ground in September 2003. USTs 3 & 4 are registered by HM&D LLC and are still in operation. There are no reported releases associated with the UST Permit.

In reference to UST Permit#07777:

According to our records,fourUSTs were registered with DHEC. The USTs were registered by Wallace Scott. The tanks were removed from the ground in May 1992.

Our records indicate that Mr. Scott, the tank owner at the time of the reported release,complied with the regulatory requirements and performed the initial response actions outlined in R.61-92, UST Control Regulations, Section 280.61. Additionally, they are currently conducting active remedial actions to reduce the concentrations of petroleum chemicals in the subsurface to acceptable levels. The next semi-annual progress report is due by November 30, 2018.

In reference to UST Permit #12352:

According to our records,four USTs were registered with DHEC. The USTs were registered by Jack & Alexander Lee. Two tanks were removed from the ground in October 1993 and the other two tanks were removed from the ground in November 2006.

Our records indicate that Jack & Alexander Lee, the tank owners at the time of the reported release,complied with the regulatory requirements and performed the initial response actions outlined in R.61-92, UST Control Regulations, Section 280.61. Additionally, they are currently conducting active remedial actions to reduce the concentrations of petroleum chemicals in the subsurface to acceptable levels. The next semi-annual progress report is due by November 30, 2018.

The releases of petroleum products from the facilities referenced aboveare qualified to receive funding under the conditions of the State Underground Petroleum Environmental Response Bank (SUPERB) Act. This means that reasonable costs can be paid by the SUPERB Account for site rehabilitation actions associated with the release.The tank owner at the time of the release (as indicated above), under state and federal law, retains responsibility for any additional actions and associated costs for therelease.

As part of the assessment investigation of the release of petroleum products from the facilities referenced above,monitoring wells MW-16, MW-17, MW-48, MW-49, & MW-50 were installed the adjacent property. The wells were installed as monitoring wells and are not a source of drinking water. Groundwater samples were collected from the monitoring wells in January 2018 and analyzed for dissolved petroleum constituents such Benzene, Toluene, Ethylbenzene, Xylene, Naphthalene, EDB, lead, 1,2 DCA, Oxygenates, Ethanol, and MtBE (a historically used gasoline additive which is no longer available in South Carolina). The laboratory data for the above mentioned wellsis enclosed. A site map with the monitoring well locations is also enclosed for your information.

According to the above referenced analytical data, petroleum chemical concentrations that exceed the Risk Based Screening Levels (RBSLs) were detected in monitoring well MW-17. The wells are installedas monitoring wells and are not a source of drinking water.

If you purchase the property which contains the above referenced monitoring wells, you should understand that the UST owner/operators and/or DHEC will require access to your property during reasonable hours to perform necessary rehabilitation activities. You will be contacted by letter before work is initiated. Rehabilitation activities remain the responsibility of the Owner/Operator (O/O) at the time of the release, as tank owner and operator under SC law. Your acquisition of the adjacent property will not make you a responsible party for the pre-existing petroleum release so long as: (1) you do not have any familial, financial, or related interest with, or are an affiliate of, the O/O at the time of the above referenced release AND (2) you allow for reasonable access by the UST O/O or DHEC to perform site rehabilitation activities. Additionally, this letter does not address any other pre-existing condition on the adjacent property. You should conduct you own due diligence to determine if there are any other conditions of concern.

DHEC is not aware of any laws or regulations that prohibit the use or development of adjacent properties and properties where a petroleum release has occurred. However, DHEC advises against installing a water supply well for drinking, cooking, or bathing purposes until rehabilitation activities are is completed. If you should choose to install a water supply well for these purposes at this time, it is at your discretion. As stated above, corrective action measures will be implemented to rehabilitate affected ground water to acceptable levels.

If you have any questions, please contact Carolyn Moores at (803) 898-2622. She can also be reached by email at mooresct@dhec.sc.gov or by fax at (803) 898-0673.

Sincerely,

Debra L. Thoma

Debra L. Thoma, Manager
Corrective Action & Quality Assurance Section
UST Management Division
Bureau of Land and Waste Management

enc: Table of Analytical data
Site Map

Table 2

Facility Name: Handy Pantry #65 / University Mart & Clouds Chevron — UST — 07584 / 07777 / 12352

Address: 2367 Taylor Street Columbia, South Carolina — Crawford Project No. 7.0547

Groundwater Laboratory Analytical Result Summary

Well ID:	Date:	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphthalene	TAA	TAME	TBA
MW-9	4/2/2014	830	7500	1700	14000	50	590	1700	5000	5000
	11/11/2014	380	11000	1900	13000	5	650	1100	<10	<100
	5/28/2015	250	5700	1200	8200	<50	480	<5000	<500	<5000
	11/4/2015	520	6200	1100	9600	<50	470	3000	<500	<5000
	5/18/2016	78	1900	1000	4300	<1	440	200	<10	<100
	10/21/2016	60	1500	730	3800	<1	210	550	<10	<100
	6/26/2017	Unable to Locate								
	1/22/2018	150	5400	1700	13000	<50	680	<5000	<500	<5000
MW-10	4/1/2014	1800	5700	350	8500	50	690	6000	500	5000
	11/11/2014	1.25-Feet of Free Product								
	5/28/2015	68	78	87	860	<1	370	<100	<10	<100
	11/4/2015	10	18	4.6	120	<1	46	<100	<10	<100
	5/18/2016	88	11	22	97	<1	170	<100	<10	<100
	10/21/2016	27	7.1	11	93	<1	47	<100	<10	<100
	6/28/2017	27	3.3	17	59	<1	120	<100	<10	<100
	1/22/2018	40	15	84	690	<1	120	42 J	<10	<100
MW-11	4/2/2014	2.3	4.1	11	4.1	<1	4.4	120	<10	<100
	11/11/2014	0.53	<1	<1	<1	<1	<5	80	<10	58
	5/29/2015	0.51	<1	<1	3.8	<1	8.6	50	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/21/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/24/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-12	4/2/2014	2.9	0.67	1.6	0.91	18	4.7	630	9	<100
	11/11/2014	990	19	910	140	21	180	3600	14	<100
	5/28/2015	53	2.7	430	14	22	44	2300	<10	<100
	11/4/2015	110	2	53	25	<1	10	1800	8	<100
	5/18/2016	260	83	710	330	17	190	1300	<10	<100
	10/20/2016	180	18	420	300	13	110	4000	<10	<100
	6/28/2017	Destroyed - Paved Over								
	1/23/2018	Destroyed - Paved Over								
MW-13	4/1/2014	0.62	8.8	4.5	86	<1	31	10	<10	<100
	11/11/2014	<1	<1	<	<1	<1	<5	<100	<10	<100
	5/28/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<1	<100	<10	<100
	5/18/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/20/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/28/2017	Destroyed - Paved Over								
	1/23/2018	Destroyed - Paved Over								
MW-15	4/1/2014	0.60-Feet of Free Product								
	11/11/2014	0.25-Feet of Free Product								
	5/29/2015	0.16-Feet of Free Product								
	11/3/2015	0.14-Feet of Free Product								
	5/15/2018	0.44-Feet of Free Product								
	10/19/2016	0.60-Feet of Free Product								
	6/28/2017	<1	300	320	7,500	<1	880	<100	<10	<100
	1/22/2018	0.74 J	490	250	6500	<1	<100	<100	<10	<100
MW-16	4/2/2014	<1	<1	<1	<1	<1	3.4	<100	<10	<100
	11/12/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/29/2015	Unable to Locate								
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/20/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/22/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-17	4/2/2014	280	5100	450	13000	50	850	2200	500	5000
	11/12/2014	32	3000	450	8300	<10	690	270	<100	<1000
	5/28/2015	210	7500	480	12000	<50	830	2200	<500	<5000
	11/4/2015	280	10000	660	13000	<100	720	<10000	<1000	<10000
	5/15/2018	Not Sampled due to Obstruction								
	10/20/2016	<100	5500	510	11000	<100	580	<10000	<1000	<10000
	6/27/2017	10	5.8	190	26	<1	190	<100	<10	<100
	1/22/2018	35	13	430	150	<1	440	70 J	<10	<100

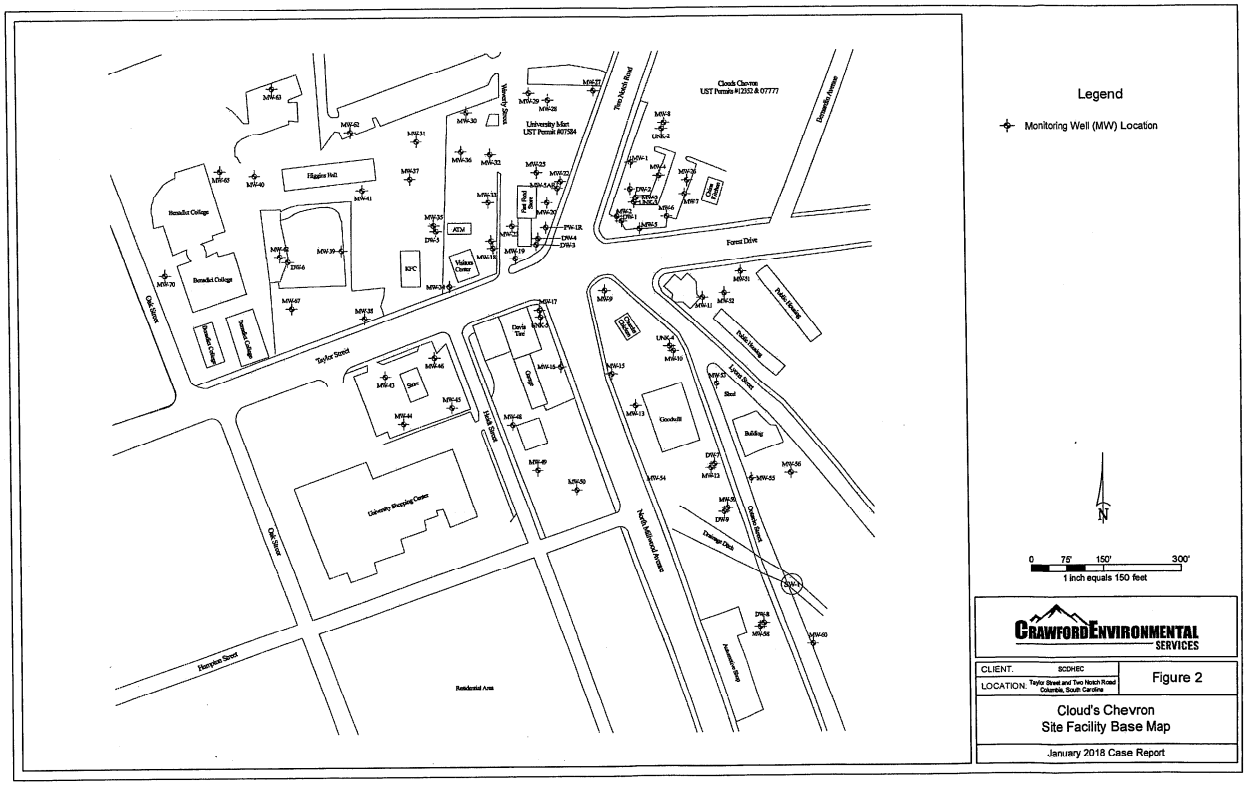
Table 2

Facility Name: Handy Pantry #65 / University Mart & Clouds Chevron — UST — 07584 / 07777 / 12352

Address: 2387 Taylor Street Columbia, South Carolina — Crawford Project No. 7.0547

Groundwater Laboratory Analytical Result Summary

Well ID:	Date:	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphthalene	TAA	TAME	TBA
MW-44	4/1/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/11/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/28/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/20/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/23/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-45	4/1/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/11/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/28/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/20/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/23/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-46	4/1/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/11/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/28/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/20/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/23/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-48	4/2/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/11/2014	Unable to Access - Locked Gate								
	5/29/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/3/2015	Unable to Access - Locked Gate								
	5/18/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/25/2016	Unable to Access - Locked Gate								
	6/26/2017	Unable to Access - Locked Gate								
	1/22/2018	Unable to Access - Locked Gate								
MW-49	4/2/2014	Unable to Access - Locked Gate								
	11/11/2014									
	5/29/2015									
	11/3/2015									
	5/15/2016									
	10/19/2016									
	6/26/2017									
	1/24/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-50	4/2/2014	Unable to Access - Locked Gate								
	11/11/2014									
	5/29/2015									
	11/3/2015									
	5/15/2016									
	10/19/2016									
	6/26/2017									
	1/24/2018									
MW-51	4/2/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/11/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/29/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/20/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/24/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-53	4/3/2014	<1	<1	<1	<1	<1	4.1	<100	<10	<100
	11/11/2014	<1	<1	<1	<1	<1	4.1	<100	<10	<100
	5/28/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/15/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/21/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/22/2018	<1	<1	0.36 J	<1	<1	<5	<100	<10	<100


Legend
Monitoring Well (MW) Location
N
0 75' 150' 300'
1 inch equals 150 feet
CRAWFORD ENVIRONMENTAL SERVICES
CLIENT. SCDHEC
LOCATION. Taylor Street and Two Notch Road Columbia, South Carolina
Figure 2
Cloud's Chevron
Site Facility Base Map
January 2018 Case Report
Cloud's Chevron
UST Permits #12352 & 07777
University Mart
UST Permit #07584
Forest Drive
Taylor Street
Oak Street
Hampton Street
North Millwood Avenue
Bernadin Avenue
Two Notch Road
Waverly Street
Higgins Hall
Benedict College
Goodwill
Building
Residential Area

Crawford Environmental Services, Inc.
1701 Shenandoah Avenue, NW
Roanoke, Virginia 24017
540.343.6256 [office]
540.343.6259 [facsimile]
www.crawfordenvironmental.com



December 28, 2018

Ms. Debra Thoma
South Carolina Department of Health and Environmental Control
UST Management Division
2600 Bull Street
Columbia, South Carolina 29201

RE: PAY FOR PERFORMANCE CORRECTIVE ACTION SITES
Lancaster Maintenance Facility – UST Permit #15006
Lloyds Rollins Service Station – UST Permit #15930
Columbia Maintenance Facility – UST Permit #07359
Hillcrest Grocery – UST Permit #09383
Passmore Grocery & Grill – UST Permit #09423
Neely's Country Corner – UST Permit #14541
Newberry County Law Enforcement Center – UST Permit #15591
Clouds Chevron – UST Permit #07584 / 07777 / 12352
USA Petroleum – UST Permit #07907

Dear Ms. Thoma:

Crawford Environmental Services (CES) recently received correspondence from SCDHEC Case Managers associated with the sites listed above. Please be advised that CES remains committed to the execution of these contracts to progress the sites toward closure. Termination of the contracts would result in extended cleanup timeframes to establish new contracts and for new contractor to become familiar with the sites to initiate corrective action.

During the second half of 2018, significant scheduling delays were encountered due to inclement weather and overgrown / abandoned site conditions. CES requests that the sampling schedules be modified in FY2019 and CAP Addendums outlining the modified remedial approach be prepared for each location. The following modifications are proposed:

Site Name	Next Sampling Event	Reported By	CAPA / Revised Cleanup Schedule	Long Term Schedule (CASE Due Dates)
Lancaster Maintenance Facility	02/19	04/01/19	03/10/19	May 15 / November 15
Lloyd Rollins Service Station	12/18 (Complete)	01/30/19	01/30/19	May 15 / November 15
Columbia Maintenance Facility**	03/19	04/30/19	04/30/19	April 30 / October 30
Hillcrest Grocery	12/18 – WSW (Complete)	01/30/19	02/20/19	December 15 / June 15 (Comprehensive) & September 15 / March 15 (WSW Only)

Pay for Performance Corrective Action Sites
UST Permit #s 15006 / 15930 / 07359 / 09383 / 09423 /14541 / 15591 / 07584 / 07777 / 12352 / 07907

Site Name	Next Sampling Event	Reported By	CAPA / Revised Cleanup Schedule	Long Term Schedule (CASE Due Dates)
Passmore Grocery and Grill	12/18 – WSW (Complete)	01/30/19	02/10/19	September 15 / March 15 (Comprehensive) December 15 / June 15 (WSW Only)
Neely's Country Store	12/18 – WSW (Complete)	01/30/19	02/20/19	December 15 / June 15 (Comprehensive) & September 15 / March 15 (WSW Only)
Newberry County Law Enforcement	02/19	03/20/19	02/20/19	June 29 / December 29
Clouds Chevron	02/19	03/25/19	03/10/19	June 15 / December 15
USA Petroleum	02/19	04/10/19	03/20/19	April 10 / October 10

***Dates and proposed site activities are contingent upon the property owner relocating equipment and materials from the monitoring well network. Infrastructure (piping, injections wells, etc.) may have been compromised by the property owner and will need to be further evaluated prior to continued corrective action.*

To further expedite site clean-up, CES respectively requests that the sampling events be limited to monitoring wells with established Site Specific Target Levels (SSTLs). This is a critical component to progress the sites toward closure. The sites have extensive monitoring well networks with many redundant well locations. Sampling of all monitoring wells results in extended events which reduce the resources and time available to dedicate to active remediation.

To accomplish these activities, CES is assigning a new Project Manager to drive the referenced sites toward closure. We are committed to implementing new remedial strategies and achieving cleanup endpoints.

We appreciate this opportunity to continue work at these sites and respectively request approval of the proposed schedule and site work presented above. Please do not hesitate to contact us at 540.343.6256 should you have any questions or if additional information is required.

Thank you,

Charles F. Crawford
President / CEO

Daniel Fisher, PMP
Operations Manager

dhec
Healthy People

JAN 10 2019

CHARLES CRAWFORD
CRAWFORD ENVIRONMENTAL SERVICES INC
1701 SHENANDOAH AVE NW
ROANOKE VA 24017

Re: Pay for Performance Corrective Action Sites Response
Lancaster Maintenance Facility – UST Permit #15006 – IFB-35858-4/30/09-EMW
Lloyds Rollins Service Station – UST Permit #15930 – IFB-38217-4/29/10-EMW
Columbia Maintenance Facility – UST Permit #07359 – IFB-11/5/09-EMW
Hillcrest Grocery – UST Permit #09383 – IFB-5400005730-4/9/13-EMW
Passmore Grocery & Grill – UST Permit #09423 – IFB-5400002569-2/17/11-EMW
Neely's Country Corner – UST Permit #14541 – IFB-5400005001-11/8/12-EMW
Newberry County Law Enforcement Center – UST Permit #15591 – IFB-5400007622-4/17/14-EMW
Clouds Chevron – UST Permit #07584/07777/12352 – IFB-5400007095-1/30/14-EMW
USA Petroleum – UST Permit #07907 – IFB-5400005388-2/14/13-EMW

Dear Mr. Crawford:

The Underground Storage Tank (UST) Management Division is in receipt of your letter dated December 28, 2018 regarding the above cited Pay-for-Performance (PFP) Corrective Action Sites. The UST Management Division has concerns about the cleanup progress at several of the sites and the time elapsed to date. The table below illustrates the award date, percent reduction completed to date, and the Corrective Action Completion Times (CACTs) originally proposed.

Site Name	Permit #	Award Date	Proposed CACT	Percent Reduction
Lancaster Maintenance Facility	15006	05/14/2009	36 Months – 12/17/12	54.00%
Lloyds Rollins Service Station	15930	05/05/2010	36 Months – 11/4/13	-23.00%
Columbia Maintenance Facility	07359	06/04/2010	36 Months – 11/22/13	83.95% (?)
Hillcrest Grocery	09383	04/09/2013	36 Months – 7/25/16	54.04%
Passmore Grocery & Grill	09423	03/07/2011	36 Months – 5/7/14	95.99%
Neely's Country Corner	14541	11/28/2012	48 Months – 2/26/17	75.62%
Newberry County Law Enforcement Center	15591	04/25/2014	48 Months – 10/6/18	46.07%
Clouds Chevron	07584/07777/ 12352	01/07/2014	60 Months – 5/16/19	36.15%
USA Petroleum	07907	02/21/2013	36 Months – 6/24/16	-32.70%

As illustrated in the table, the oldest remediation contract going on nearly 10 years with the newest at nearly 5 years. The intent of these PFP contracts is to have remediation to site-specific target levels (SSTLs) within a 5 year timeframe or within the contractor's proposed CACT, whichever comes first. Based on the percent reduction achieved to date, Crawford Environmental is only above a 75% reduction on three of the nine sites. Additionally, the proposed CACTs have been exceeded on all except one site.

The UST Management Division commends Crawford Environmental Services' commitment to these remediation sites. The timetable proposed by Crawford for Corrective Action System Evaluation (CASE) report submittal is acceptable. However, there is concern the proposed due dates for some of the CASE reports as it appears Crawford will not be conducting any sampling activities at these sites until the latter part of February. It is requested that sampling events be conducted as soon as possible and the CASE reports be submitted prior to the dates proposed. The dates for future CASE reports will not be modified or altered in any way based upon the schedule proposed by Crawford Environmental.

The UST Management Division will approve the sampling of only the SSTL wells at the sites until such time that all monitoring wells will require sampling (i.e. verification sampling, payment milestones, etc.) or as deemed necessary by the UST Management Division (e.g. site conditions warrant - #07359, possible plume migration, reevaluate site conditions, etc.). This approval is contingent upon the gauging of the wells being conducted during routine sampling events to ensure the wells are continually located and accessible for the duration of the remediation. Gauging of the wells will also provide a more comprehensive potentiometric map to be constructed for submission with the CASE reports. In addition, Crawford Environmental Services must sample the SSTL wells for all constituents as required for the site's PFP contract.

The Corrective Action Plan Addendums and Revised Corrective Action Timetables including an updated CACT should be submitted as proposed. The revised Corrective Action Timetables should include demobilization and site restoration in accordance with the Solicitation Section "Specifications for Corrective Action, Performance Specifications, Corrective Action Plan". Please ensure that the cleanup schedules propose an aggressive schedule to expedite closure of these sites. In addition, the corrective action plan addendums should be aggressive and detailed with locations and quantities of materials and should include an Underground Injection Control Permit application or addendum, as applicable. A public notice period may be required if the technology has not been proposed previously.

Please note, the all requested CASE reports, CAP addendums, and Revised Corrective Action Timetables **must** be submitted by the due dates; all SSTL wells, WSWs wells, and surface water locations must be sampled for all the required constituents; and reasonable progress towards the cleanup goals must be achieved or subsequent action may be taken by the UST Management Division to enforce the terms and conditions of the contracts. Several of the sites have already received two failure to perform notifications. Issuance of a third on a particular contract may result in cancellation of that contract and further action against Crawford Environmental Services in accordance with the contract's terms and conditions.

The UST Management Division encourages the Crawford project manager to keep the UST Project Managers informed of changing site conditions that could potentially impact the success of the remediation. Please ensure that the UST Project Manager receives the required site notification in

regards to anticipated field work activity as required by the contracts. The UST Management Division will work with Crawford Environmental to overcome obstacles that are encountered, but must do so within the terms and conditions of the contracts. The UST Management Division is amenable to working collaboratively with Crawford Environmental to achieve the required remediation and closure at these sites in a reasonable manner. Periodic telephone conferences may be conducted to ensure that work is progressing and issues are being resolved effectively.

If you wish to discuss this in further detail, please contact me at (803) 898-0643. I can also be reached by email at thomadl@dhec.sc.gov or by fax at 803-898-0673.

Sincerely,

Debra L Thoma

Debra Thoma, Manager
Corrective Action & Quality Assurance Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

Enc: Schedule of Deliverables

Cc: Technical Files (w/ enc)

Schedule of Deliverables

Site Name	Proposed Reported By	CAPA/Revised Cleanup Schedule	Report Due	Report Due	Report Due	Report Due
Lancaster Maintenance	**04/01/2019**	03/10/2019	05/15/2019	11/15/2019	05/15/2020	11/15/2020
Lloyd Rollins Service Station	01/30/2019	01/30/2019	05/15/2019	11/15/2019	05/15/2020	11/15/2020
Columbia Maintenance	04/30/2019	04/30/2019	10/30/2019	04/30/2020	10/30/2020	04/30/2021
Hillcrest Grocery	01/30/2019 (WSW)	02/20/2019	03/15/2019 (WSW)	06/15/2019 (Comp)	09/15/2019 (WSW)	12/15/2019 (Comp)
Passmore Grocery	01/30/2019 (WSW)	02/10/2019	03/15/2019 (Comp)	06/15/2019 (WSW)	09/15/2019 (Comp)	12/15/2019 (WSW)
Neely's Store	01/30/2019 (WSW)	02/20/2019	03/15/2019 (WSW)	06/15/2019 (Comp)	09/15/2019 (WSW)	12/15/2019 (Comp)
Newberry Law	**03/20/2019**	02/20/2019	06/29/2019	12/29/2019	06/29/2020	12/29/2020
Clouds Chevron	**03/25/2019**	03/10/2019	06/15/2019	12/15/2019	06/15/2020	12/15/2020
USA Petroleum	04/10/2019	03/20/2019	04/10/2019	10/10/2019	04/10/2020	10/10/2020

March 8, 2019



Ms. Carolyn Moores
State of South Carolina
Department of Health and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

RE: Corrective Action Plan Addendum
Handy Pantry #65 / University Mart / Cloud's Chevron
Intersection of Taylor Street and Two Notch Road
Columbia, South Carolina
UST Permit # 07584 / 07777 / 12352
2707 2047 1397

Dear Ms. Moores:

Crawford Environmental Services, Inc. (CES) has prepared the following Corrective Action Plan Addendum (CAPA) for the Handy Pantry #65, University Mart and Cloud's Chevron facilities in Columbia, South Carolina. CES has reviewed the original Corrective Action Plan (CAP) and the remedial progress to date. Based on this review, CES has concluded that the original strategy will be an effective method to address the adsorbed- and dissolved-phase contamination. However, it has been determined that the three air sparge systems will no longer be effective. As presented in the original CAP, the existing subsurface infrastructure and injection locations will be used for chemical and biological injections. An updated corrective action timetable has been prepared and is presented below.

Description	Start Date	End Date
Injection Event Planning	04/01/19	05/01/19
Chemical and Biological Injection Event #1	05/15/19	05/25/19
Chemical and Biological Injection Event #2	08/15/19	08/25/19
Semi-Annual Confirmatory Sampling Event 1	06/01/19	06/10/19
Semi-Annual Confirmatory Sampling Event 2	11/01/19	11/10/19
Estimated completion of corrective action activities	01/01/21	

This CAPA was prepared in accordance with DHEC correspondence and is being delivered to Ms. Carolyn Moores. Should you have any questions regarding the modifications presented herein, or if additional information is required, please feel free to contact me at (540) 343-6256.

Prepare By:

James Coleman
Project Manager

Reviewed By:

Daniel Fisher
Operations Manager

Attachments

cc:



dhec
Healthy People. Healthy Communities.

MR CHARLES F CRAWFORD III
CRAWFORD ENVIRONMENTAL SERVICES
15 CHURCH AVENUE SW
ROANOKE VA 24011

MAR 2 5 2019

UST DOCKETING

Re: **Corrective Action Plan Addendum (CAPA) Review**
UST Permit# 07584, University Mart, 2367 Taylor St., Columbia, SC
Release #1 reported January 30, 1991; CA# 47811
Release #2 reported April 17, 1998; CA# 47812
UST Permit # 07777, Clouds Chevron, 1600 Two Notch Rd., Columbia, SC
Release reported December 31, 1991; CA# 47813
UST Permit # 12352, Clouds Chevron, 1600 Two Notch Rd., Columbia, SC
Release reported December 30, 1991; CA# 47814
Contract #IFB-5400007095-1/30/2014-EMW; PO# 4600322226
CAP Addendum received March 14, 2019
Richland County

Dear Mr. Crawford:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed the referenced documents. A renewal of the UIC permit prior to the April 11, 2019 expiration date of the current permit #SCHE03020184M will be needed before CAP implementation can proceed as scheduled, since chemical and biological injections are scheduled 5/15/19 and 8/15/19.

The semi annual sampling dates have been noted as occurring in the first half of June and November of 2019.

Since this CAP Addendum covers a one year period, a second CAP addendum will be required on or before **December 31, 2019** to cover work plans through 2020.

The semi-annual CASE 8 report is due on or before **May 30, 2019.**

The semi-annual CASE 9 report is due on or before **November 30, 2019.**

On all correspondence regarding this site, please reference UST Permit #07584, #07777, & #12352. If you have any questions regarding this correspondence, please contact me by telephone at (803) 898-0634, by fax at (803) 898-0673, or by e-mail at mooresct@dhec.sc.gov.

Sincerely,

Carolyn T Moores

Carolyn Moores, Hydrogeologist
Corrective Action & Quality Assurance Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

Document Receipt Information

☐ Hard Copy ☒ CD ☐ Email

Date Received 3-28-2019

Permit Number 07584, 07777, 12352

Project Manager Carolyn Moores

Name of Contractor Crawford Env Services

UST Certification Number CASE - Feb 2019

Docket Number _____

Scanned _____

17 07584 - 272 Tech
07777 - 206 Tech
12352 - 141 Tech

CRAWFORD ENVIRONMENTAL SERVICES

March 25, 2019

Ms. Carolyn Moores
Corrective Action Section
UST Management Division
Bureau of Land and Waste Management
South Carolina Department of Health and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

RE: Corrective Action System Evaluation – February 2019 (Sampling Date)
Handy Pantry #65/University Mart & Cloud's Chevron
Intersection of Taylor Street and Two Notch Road
Columbia, South Carolina
UST Permit # 07584 / 07777 / 12352

Dear Ms. Moores:

Enclosed please find one copy of the February 2019 Corrective Action System Evaluation (CASE) report prepared by Crawford Environmental Services, Inc. (CES) for the referenced site. In addition, CES has included an updated copy of the Corrective Action Plan Addendum / Cleanup Schedule as **Appendix E**. Should you have any questions regarding the enclosed material, or if additional information is required, please feel free to contact Charlie Crawford or myself at 540.343.6256.

Best Regards,

Daniel Fisher
Operations Manager

cc:

CRAWFORD ENVIRONMENTAL SERVICES

Corrective Action System Evaluation Report
February 2019
Handy Pantry #65/University Mart & Cloud's Chevron
Intersection of Taylor Street and Two Notch Road
Columbia, South Carolina
UST Permit # 07584 / 07777 / 12352
March 25, 2019
Revision 0

CORRECTIVE ACTION SYSTEM EVALUATION REPORT

Handy Pantry #65/University Mart & Cloud's Chevron
Intersection of Taylor Street and Two Notch Road
Columbia, South Carolina
York County
UST Permit #: 07584/07777/12352
CES Job #: 7.0547

PREPARED BY:
Crawford Environmental Services, Inc.
1701 Shenandoah Avenue, NW
Roanoke, Virginia 24017
Phone: 540-343-6256; Fax: 540-343-6259
dfisher@crawfordenvironmental.com

PREPARED FOR:
South Carolina Department of Health & Environmental Control
Ms. Carolyn Moores
South Carolina Department of Health and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

SUBMITTED TO:
South Carolina Department of Health & Environmental Control
Ms. Carolyn Moores
South Carolina Department of Health and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

CRAWFORD ENVIRONMENTAL SERVICES

Title: *Corrective Action System Evaluation Report, Handy Pantry/University Mart and Cloud's Chevron, Site (Site No. 07584/07777/12352), Columbia, South Carolina, February 2019.*

Written By:

Daniel J. Fisher
Senior Project Manager/Technical Reviewer

22 March 2019
Date Reviewed

Reviewed By:

B. Thomas Houghton, P.G.
Senior Project Geologist/Technical Reviewer
Registered South Carolina P.G. No. 2343

23 March 2019
Date Reviewed

Approved By:

Charles F. Crawford
President/Chief Executive Officer, Technical Reviewer

25 March 2019
Date Reviewed

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Appendix B: Groundwater Sampling Data Sheets
Appendix C: Purge Water Disposal Manifest
Appendix D: QAPP Addendum Contractor Checklist
Appendix E: Revised CAPA and Cleanup Schedule

1.0 Project Information

1.1 Introduction

Crawford Environmental Services Inc., (CES) has completed a Corrective Action System Evaluation (CASE) report for the Handy Pantry #65/University Mart and former Cloud's Chevron site. The report describes assessment activities conducted at the site in general accordance with the scope of work as defined in the QAPP Addendum Approval, dated March 20, 2014. The subject property is in a primarily commercial area of Columbia, South Carolina (*Figure 1*). The subject sites, operating as Handy Pantry #65/University Mart and former Cloud's Chevron, is bordered by light commercial properties in all directions. A site plan depicting pertinent features of the subject property is provided as *Figure 2*.

1.2 Facility Information

1.2.1 Site Address

Handy Pantry #65 / University Mart / Clouds Chevron
2367 Taylor Street
Columbia, South Carolina

1.2.2 Property Owner Information

Mr. Mahesh Patel
2367 Taylor Street
Columbia, South Carolina

Mr. Andrew Diggins
1600 Block Two Notch Road
Columbia, South Carolina

1.2.3 Contractor Information

Crawford Environmental Services
1701 Shenandoah Avenue, NW
Roanoke, Virginia 24017
1 (540) 343-6256
Contractor Number: UCC-0388

1.2.4 Laboratory Information

Access Analytical, Inc. (AA)
7478 Carlisle Street
Irmo, SC 29063
1 (803) 781-4243
SC Certification: 32575001

Analytical Environmental Services Inc. (AES)
3785 Presidential Pkwy.
Atlanta, GA 30340
1 (770) 457-8177
SC Certification: 98016003

2.0 Corrective Action Activities

Corrective Action activities at the facility for this phase of work included the following:

-Semi-Annual Sampling Event

2.1 Groundwater Sampling Event

A comprehensive groundwater sampling event, including; recording equilibrated static water levels, product thicknesses, and the collection of chemical samples was completed by CES personnel between February 20 - 21, 2019. CES personnel utilized an electronic water level indicator for water level measurements and an oil/water interface probe for free phase product measurements. Samples for the shallow wells were collected utilizing disposable polyethylene bailers. Shallow wells that exhibited groundwater above the screened bracket were purged of at least three well volumes or purged till dry before sample collection. Deep and intermediate wells exhibiting groundwater above the screened bracket were purged utilizing submersible pumps with dedicated tubing. For sample collection, disposable polyethylene bailers were lowered slowly to the top of the water column (after purging in some cases) allowed to fill one volume, then removed. Disposal records for the 30-gallons of purge water generated are included as Appendix A. Groundwater was then transferred to the appropriate sampling containers and was then placed in coolers, maintaining 4˚C, and delivered to an independent laboratory. Groundwater chemical samples were submitted to Access Analytical, Inc., {SC Certification: 32575001} for analysis.

2.1.1 Groundwater Sampling

Equilibrated static water levels and free-product thicknesses were recorded for monitoring wells MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, MW-8, MW-9, MW-10, MW-11, MW-15, MW-18, MW-19, MW-20, MW-22, MW-23, MW-26, MW-27, MW-28, MW-29, MW-30, MW-31, MW-32, MW-33, MW-34, MW-35, MW-36, MW-37, MW-38, MW-40, MW-41, MW-43, MW-44, MW-45, MW-46, MW-49, MW-50, MW-53, MW-55, MW-56, MW-62, MW-63, MW-67, MW-70, MW-5AR, PW-1R, DW-1, DW-2, DW-3, DW-4, and DW-9. Groundwater sampling data sheets are included as Appendix B.

During the referenced sampling event, CES was unable to access monitoring well MW-48 due to a locked gate and monitoring wells MW-60, MW-65, DW-7 were unable to be located. CES also utilized a metal detector to locate the wells, however, the overgrown site conditions did not permit the location of the aforementioned monitoring wells. Due to obstructions (vehicle) covering the wells, monitoring wells MW-58 and DW-8 were not able to be sampled. Monitoring wells MW-12, MW-13, MW-54, MW-65 and DW-7 have been paved over following recent construction and presumed destroyed.

CES sampled the monitoring wells, as part of the February 2019 sampling event, for the following chemical analyses:
Benzene/Toluene/Ethylbenzene/Xylenes (BTEX), naphthalene, Methyl Tert-Butyl Ether (MTBE), Tert-Amyl Methyl Ether (TAME), Tert-Butyl Alcohol (TBA), and Tert-Amyl Alcohol (TAA).

During the sampling event CES collected duplicate samples of monitoring wells MW-15 and MW-31. Review of the duplicate samples collected from aforementioned monitoring well samples did not yield significant data gaps.

In addition to duplicate samples, CES also collected daily field blank samples at the conclusion of the sample events. The samples were collected at the conclusion of the day to be representative of all samples that were collected during that day. Sealed trip blank samples were also stored with samples during each day of the sampling event.

Table 2 presents the laboratory data for the submitted groundwater samples collected as part of this assessment. The groundwater concentration maps are included as *Figure 3.* The groundwater elevation map is included as *Figure 4*.

3.0 Summary

During the corrective action activities performed at the subject property, CES conducted a comprehensive groundwater monitoring event, to determine the effectiveness of the current corrective action plan. The qualitative and quantitative data collected from recent assessment activities indicates the following regarding current site conditions;

1. During this sampling event, groundwater from monitoring wells MW-2, MW-3, MW-9, MW-10, MW-18, MW-19, MW-20, MW-22, MW-23, MW-33, MW-35, MW-37, MW-40, MW-41, MW-5AR, PW-1R, DW-3, and SW-1 exhibited hydrocarbon constituent concentrations above the SSTLs for the chemicals of concern.

2. CES calculated a COC reduction of 35.98 percent during this phase of work.

3. Free-phase petroleum was not observed during the February 2019 sampling event.

4.0 Conclusion

Based on the results of the comprehensive sampling event, CES estimates that the historical remedial injects have been successful in targeting source area and contaminants. CES estimates that decreases in the COC reduction percentage observed during this period are based upon a significant number of wells being unable to be sampled and the reduction of free-phase petroleum during sampling event. A Revised CAPA and schedule for cleanup is included as **Appendix E**.

5.0 Limitations

This report is based upon a specific scope of work requested by SCDHEC. This report is intended only for the use of CES's client and anyone else specifically listed on this report. Some data contained within this report was previously collected by other consultants and is assumed to be correct. CES will not and cannot be liable for the unauthorized release by any third party. Other than as contained in this paragraph, CES makes no expressed or implied warranty as to the contents of this report.

Tables

Table 1: Well Construction and Historical Groundwater Elevation Summary
Table 2: Groundwater Laboratory Analytical Result Summary
Table 3: Site Specific Target Levels

Table 1

Facility Name: Handy Pantry #65 / University Mart & Clouds Chevron — UST Permit ID: 07584 / 07777 / 12352

Address: 2367 Taylor Street Columbia, South Carolina — CES Project Number: 7.0547

Well Construction and Historical Groundwater Elevation Summary

Monitor Well	Well Depth (ft)	Screened Interval		Top of Casing (ft)	Date Measured	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Product Elevation (ft)	Groundwater Elevation (ft)
MW-1	27	17	27	93.89	2/20/2019	NA	DRY	NA	NA	DRY
					1/24/2018	NA	DRY	NA	NA	DRY
					6/26/2017	NA	DRY	NA	NA	DRY
					10/19/2016	NA	DRY	NA	NA	DRY
					5/15/2016	NA	DRY	NA	NA	DRY
					11/3/2015	NA	DRY	NA	NA	DRY
					5/29/2015	NA	DRY	NA	NA	DRY
					11/11/2014	NA	DRY	NA	NA	DRY
					4/2/2014	NA	DRY	NA	NA	DRY
MW-2	30	20	30	94.70	2/20/2019	NA	22.24	NA	NA	72.46
					1/22/2018	NA	24.04	NA	NA	70.66
					6/27/2017	NA	21.51	NA	NA	73.19
					10/19/2016	NA	21.17	NA	NA	73.53
					5/16/2016	NA	20.08	NA	NA	74.62
					11/3/2015	NA	20.32	NA	NA	74.38
					5/29/2015	22.56	22.57	0.01	72.14	72.13
					11/4/2014	NA	23.03	NA	NA	71.67
					4/2/2014	NA	21.12	NA	NA	73.58
MW-3	29	19	29	94.45	2/20/2019	NA	21.43	NA	NA	73.02
					1/22/2018	NA	23.42	NA	NA	71.03
					6/27/2017	NA	20.98	NA	NA	73.47
					10/19/2016	NA	20.18	NA	NA	74.27
					5/16/2016	NA	19.84	NA	NA	74.61
					11/3/2015	NA	23.29	NA	NA	71.16
					5/29/2015	23.2	23.29	0.09	71.25	71.16
					4/2/2014	NA	21.40	NA	NA	73.05
					11/12/2014	NA	23.16	NA	NA	71.29
MW-4	28	18	28	94.85	2/20/2019	NA	21.11	NA	NA	73.74
					1/22/2018	NA	22.19	NA	NA	72.66
					6/27/2017	NA	20.55	NA	NA	74.30
					10/19/2016	NA	20.42	NA	NA	74.43
					5/16/2016	NA	19.20	NA	NA	75.65
					11/3/2015	NA	20.35	NA	NA	74.50
					5/29/2015	NA	21.52	NA	NA	73.33
					11/11/2014	NA	21.76	NA	NA	73.09
					4/2/2014	NA	21.31	NA	NA	73.54
MW-5	26	16	26	95.26	2/20/2019	NA	DRY	NA	NA	DRY
					1/22/2018	NA	DRY	NA	NA	DRY
					6/26/2017	NA	DRY	NA	NA	DRY
					10/19/2016	NA	DRY	NA	NA	DRY
					5/16/2016	NA	19.75	NA	NA	75.51
					11/3/2015	NA	DRY	NA	NA	DRY
					5/29/2015	NA	DRY	NA	NA	DRY
					11/11/2014	NA	DRY	NA	NA	DRY
					4/2/2014	NA	DRY	NA	NA	DRY
MW-6	30	20	30	94.96	2/20/2019	NA	22.25	NA	NA	72.71
					1/22/2018	NA	24.54	NA	NA	70.42
					6/27/2017	NA	22.91	NA	NA	72.05
					10/19/2016	NA	22.04	NA	NA	72.92
					5/17/2016	NA	20.59	NA	NA	74.37
					11/3/2015	NA	21.21	NA	NA	73.75
					5/29/2015	NA	22.38	NA	NA	72.58
					11/11/2014	NA	23.98	NA	NA	70.98
					4/3/2014	NA	22.61	NA	NA	72.35
MW-7	30	20	30	95.93	2/20/2019	NA	22.65	NA	NA	73.28
					1/22/2018	NA	24.58	NA	NA	71.35
					6/27/2017	NA	22.32	NA	NA	73.61
					10/19/2016	NA	22.20	NA	NA	73.73
					5/16/2016	NA	20.98	NA	NA	74.95
					11/3/2015	NA	21.79	NA	NA	74.14
					5/29/2015	NA	23.48	NA	NA	72.45
					11/11/2014	NA	24.12	NA	NA	71.81
					4/3/2014	NA	23.02	NA	NA	72.91
MW-8	28	18.5	28	94.79	2/20/2019	NA	20.08	NA	NA	74.71
					1/22/2018	NA	21.86	NA	NA	72.93
					6/27/2017	NA	19.65	NA	NA	75.14
					10/19/2016	NA	19.70	NA	NA	75.09
					5/17/2016	NA	18.75	NA	NA	76.04
					11/3/2015	NA	19.19	NA	NA	75.60
					5/29/2015	NA	20.08	NA	NA	74.71
					11/11/2014	NA	21.43	NA	NA	73.36
					4/3/2014	NA	19.95	NA	NA	74.84

Table 1

Facility Name: Handy Pantry #65 / University Mart & Clouds Chevron — UST Permit ID: 07584 / 07777 / 12352

Address: 2367 Taylor Street Columbia, South Carolina — CES Project Number: 7.0547

Well Construction and Historical Groundwater Elevation Summary

Monitor Well	Well Depth (ft)	Screened Interval		Top of Casing (ft)	Date Measured	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Product Elevation (ft)	Groundwater Elevation (ft)
MW-9	30	20	30	92.30	2/20/2019	NA	22.54	NA	NA	69.76
					1/22/2018	NA	22.22	NA	NA	70.08
					6/26/2017	Unable to Locate				
					10/19/2016	NA	20.30	NA	NA	72.00
					5/16/2016	NA	18.78	NA	NA	73.52
					11/3/2015	NA	20.04	NA	NA	72.26
					5/28/2015	NA	21.19	NA	NA	71.11
					11/11/2014	NA	21.69	NA	NA	70.61
					4/2/2014	NA	20.60	NA	NA	71.70
MW-10	28	18	28	85.98	2/20/2019	NA	15.01	NA	NA	70.97
					1/22/2018	NA	17.28	NA	NA	68.70
					6/28/2017	NA	15.33	NA	NA	70.65
					10/19/2016	NA	15.75	NA	NA	70.23
					5/18/2016	NA	14.52	NA	NA	71.46
					11/3/2015	NA	14.58	NA	NA	71.40
					5/28/2015	NA	16.64	NA	NA	69.34
					11/11/2014	Interface Probe Failure - 1.25-Feet of Product Observed in Bailer				
					4/1/2014	NA	17.69	NA	NA	68.29
MW-11	30	Unknown		88.46	2/20/2019	NA	17.83	NA	NA	70.63
					1/24/2018	NA	20.91	NA	NA	67.55
					6/27/2017	NA	17.75	NA	NA	70.71
					10/19/2016	NA	18.19	NA	NA	70.27
					5/18/2016	NA	16.66	NA	NA	71.80
					11/3/2015	NA	17.16	NA	NA	71.30
					5/29/2015	NA	18.93	NA	NA	69.53
					11/11/2014	NA	19.38	NA	NA	69.08
					4/2/2014	NA	18.61	NA	NA	69.85
MW-12	24.65	Unknown		72.80	2/20/2019	Destroyed - Paved Over				
					1/23/2018					
					6/26/2017					
					10/19/2016	NA	3.32	NA	NA	69.48
					5/18/2016	NA	2.73	NA	NA	70.07
					11/3/2015	NA	3.15	NA	NA	69.65
					5/28/2015	NA	4.38	NA	NA	68.42
					11/11/2014	NA	4.63	NA	NA	68.17
					4/2/2014	NA	4.20	NA	NA	68.60
MW-13	30.1	Unknown		80.44	2/20/2019	Destroyed - Paved Over				
					1/23/2018					
					6/26/2017					
					10/19/2016	NA	10.83	NA	NA	69.61
					5/16/2016	NA	9.71	NA	NA	70.73
					11/3/2015	NA	9.82	NA	NA	70.62
					5/28/2015	NA	11.71	NA	NA	68.73
					11/11/2014	NA	12.15	NA	NA	68.29
					4/1/2014	NA	11.13	NA	NA	69.31
MW-15	25	15	25	86.44	2/20/2019	NA	15.67	NA	NA	70.77
					1/22/2018	NA	17.29	NA	NA	69.15
					6/28/2017	NA	15.36	NA	NA	71.08
					10/19/2016	15.70	15.82	0.12	70.74	70.62
					5/18/2016	14.58	15.02	0.13	71.86	71.42
					11/3/2015	14.51	14.64	0.13	71.93	71.80
					5/29/2015	16.45	16.61	0.16	69.99	69.83
					11/11/2014	Interface Probe Failure - 0.25-Feet of Product Observed in Bailer				
					4/1/2014	16.60	16.00	0.60	69.84	70.88*
MW-16	25	15	25	88.19	1/22/2018	NA	19.36	NA	NA	68.83
					6/27/2017	NA	17.21	NA	NA	70.98
					10/19/2016	NA	17.55	NA	NA	68.89
					5/18/2016	NA	16.29	NA	NA	71.90
					11/3/2015	NA	16.29	NA	NA	70.15
					5/29/2015	Unable to Locate				
					11/12/2014	NA	18.98	NA	NA	69.21
					4/2/2014	NA	17.54	NA	NA	70.65
MW-17	22	20	30	92.45	1/22/2018	NA	23.87	NA	NA	68.58
					6/27/2017	NA	21.62	NA	NA	70.83
					10/19/2016	NA	21.58	NA	NA	70.87
					5/18/2016	Not Sampled due to Obstruction				
					11/3/2015	NA	20.47	NA	NA	71.98
					5/28/2015	NA	22.70	NA	NA	69.75
					11/12/2014	NA	23.45	NA	NA	69.00
					4/2/2014	NA	22.00	NA	NA	70.45

Table 1

Facility Name: Handy Pantry #65 / University Mart & Clouds Chevron — UST Permit ID: 07584 / 07777 / 12352

Address: 2367 Taylor Street Columbia, South Carolina — CES Project Number: 7.0547

Well Construction and Historical Groundwater Elevation Summary

Monitor Well	Well Depth (ft)	Screened Interval		Top of Casing (ft)	Date Measured	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Product Elevation (ft)	Groundwater Elevation (ft)
MW-18	30	20	30	94.81	2/20/2019	NA	23.58	NA	NA	71.23
					1/24/2018	NA	25.54	NA	NA	69.27
					6/26/2017	NA	23.16	NA	NA	71.35
					10/19/2016	NA	23.46	NA	NA	71.35
					5/15/2016	NA	22.04	NA	NA	72.77
					11/3/2015	NA	22.28	NA	NA	72.53
					5/28/2015	NA	24.41	NA	NA	70.40
					11/12/2014	NA	25.08	NA	NA	69.73
					4/2/2014	NA	23.68	NA	NA	71.13
MW-19	30	20	30	93.96	2/20/2019	NA	23.31	NA	NA	70.65
					1/24/2018	NA	25.11	NA	NA	68.85
					6/27/2017	NA	22.80	NA	NA	71.16
					10/19/2016	NA	23.70	NA	NA	70.26
					5/18/2016	NA	21.76	NA	NA	72.20
					11/3/2015	NA	21.81	NA	NA	72.15
					5/28/2015	NA	24.00	NA	NA	69.96
					11/13/2014	NA	24.56	NA	NA	69.40
					4/3/2014	NA	23.33	NA	NA	70.63
MW-20	25	15	25	94.12	2/20/2019	NA	21.98	NA	NA	72.14
					1/24/2018	NA	23.83	NA	NA	70.29
					6/27/2017	NA	21.50	NA	NA	72.62
					10/19/2016	NA	21.89	NA	NA	72.23
					5/15/2016	NA	20.41	NA	NA	73.71
					11/3/2015	NA	20.18	NA	NA	73.94
					5/28/2015	22.67	22.61	0.06	71.45	71.51
					11/13/2014	NA	23.28	NA	NA	70.84
					4/3/2014	NA	21.95	NA	NA	72.17
MW-22	30	20	30	94.25	2/20/2019	NA	21.10	NA	NA	73.15
					1/24/2018	NA	23.19	NA	NA	71.06
					6/27/2017	NA	20.77	NA	NA	73.48
					10/19/2016	NA	21.16	NA	NA	73.09
					5/15/2016	NA	19.61	NA	NA	74.64
					11/3/2015	NA	19.01	NA	NA	75.24
					5/28/2015	NA	21.85	NA	NA	72.40
					11/11/2014	NA	22.68	NA	NA	71.57
					4/3/2014	NA	21.11	NA	NA	73.14
MW-23	30	20	30	94.43	2/20/2019	NA	23.55	NA	NA	70.88
					1/24/2018	NA	25.35	NA	NA	69.08
					6/27/2017	NA	23.60	NA	NA	70.83
					10/19/2016	NA	23.06	NA	NA	71.37
					5/18/2016	NA	21.95	NA	NA	72.48
					11/3/2015	NA	21.95	NA	NA	72.48
					5/28/2015	NA	24.25	NA	NA	70.18
					11/13/2014	NA	24.98	NA	NA	69.45
					4/3/2014	NA	23.65	NA	NA	70.78
MW-25	25.6	Unknown		93.09	1/24/2018	NA	22.06	NA	NA	71.03
					6/26/2017	Unable to Locate				
					10/19/2016	NA	19.96	NA	NA	73.13
					5/15/2016	Unable to Locate				
					11/3/2015	NA	17.73	NA	NA	75.36
					5/28/2015	NA	20.65	NA	NA	72.44
					11/10/2014	NA	21.60	NA	NA	71.49
					4/1/2014	NA	19.71	NA	NA	73.38
MW-26	30	Unknown		95.96	2/20/2019	NA	22.70	NA	NA	73.26
					1/22/2018	NA	23.22	NA	NA	72.74
					6/28/2017	NA	21.44	NA	NA	74.52
					10/19/2016	Not Sampled due to Obstruction				
					5/17/2016	NA	20.24	NA	NA	75.72
					11/3/2015	NA	21.06	NA	NA	74.90
					6/5/2015	NA	22.49	NA	NA	73.47
					11/11/2014	NA	22.95	NA	NA	73.01
					4/3/2014	NA	20.01	NA	NA	75.95
MW-27	30	15	30	91.40	2/20/2019	NA	17.06	NA	NA	74.34
					1/24/2018	NA	19.71	NA	NA	71.69
					6/27/2017	NA	17.31	NA	NA	74.09
					10/19/2016	NA	17.46	NA	NA	73.94
					5/17/2016	NA	15.62	NA	NA	75.78
					11/3/2015	NA	11.21	NA	NA	80.19
					5/28/2015	NA	17.75	NA	NA	73.65
					11/13/2014	NA	18.85	NA	NA	72.55
					4/1/2014	NA	14.65	NA	NA	76.75

Table 1

Facility Name: Handy Pantry #65 / University Mart & Clouds Chevron — UST Permit ID: 07584 / 07777 / 12352

Address: 2367 Taylor Street Columbia, South Carolina — CES Project Number: 7.0547

Well Construction and Historical Groundwater Elevation Summary

Monitor Well	Well Depth (ft)	Screened Interval		Top of Casing (ft)	Date Measured	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Product Elevation (ft)	Groundwater Elevation (ft)
MW-28	30	15	30	91.46	2/20/2019	NA	16.57	NA	NA	74.89
					1/24/2018	NA	20.30	NA	NA	71.16
					6/27/2017	NA	16.97	NA	NA	74.49
					10/19/2016	NA	17.53	NA	NA	73.93
					5/17/2016	NA	15.90	NA	NA	75.56
					11/3/2015	NA	13.08	NA	NA	78.38
					5/28/2015	NA	17.97	NA	NA	73.49
					11/13/2014	NA	19.75	NA	NA	71.71
					4/1/2014	NA	15.63	NA	NA	75.83
MW-29	30	15	30	91.09	2/20/2019	NA	16.45	NA	NA	74.64
					1/24/2018	NA	20.45	NA	NA	70.64
					6/27/2017	NA	16.95	NA	NA	74.14
					10/19/2016	NA	17.76	NA	NA	73.33
					5/17/2016	NA	15.88	NA	NA	75.21
					11/3/2015	NA	13.19	NA	NA	77.90
					5/28/2015	17.91	17.92	0.01	73.18	73.17
					11/13/2014	NA	19.92	NA	NA	71.17
					4/1/2014	NA	15.51	NA	NA	75.58
MW-30	30	15	30	92.77	2/20/2019	NA	20.49	NA	NA	72.28
					1/24/2018	NA	23.22	NA	NA	69.55
					6/27/2017	NA	20.46	NA	NA	72.31
					10/19/2016	NA	29.20	NA	NA	63.57
					5/15/2016	NA	19.27	NA	NA	73.50
					11/3/2015	NA	17.43	NA	NA	75.34
					5/28/2015	NA	26.70	NA	NA	66.07
					11/10/2014	NA	22.90	NA	NA	69.87
					4/1/2014	NA	20.50	NA	NA	72.27
MW-31	35	20	35	95.20	2/20/2019	NA	24.40	NA	NA	70.80
					1/23/2018	NA	26.61	NA	NA	68.59
					6/27/2017	NA	24.12	NA	NA	71.08
					10/19/2016	NA	24.41	NA	NA	70.79
					5/17/2016	NA	22.98	NA	NA	72.22
					11/3/2015	NA	22.53	NA	NA	72.67
					5/28/2015	25.61	25.62	0.01	69.59	69.58
					11/12/2014	NA	26.36	NA	NA	68.84
					4/2/2014	NA	24.41	NA	NA	70.79
MW-32	30	15	30	92.87	2/20/2019	NA	21.15	NA	NA	71.72
					1/24/2018	NA	23.54	NA	NA	69.33
					6/27/2017	NA	20.01	NA	NA	72.86
					10/19/2016	Not Sampled due to Obstruction				
					5/17/2016	NA	19.75	NA	NA	73.12
					11/3/2015	NA	19.12	NA	NA	73.75
					5/28/2015	NA	22.00	NA	NA	70.87
					11/12/2014	NA	23.16	NA	NA	69.71
					4/2/2014	NA	21.28	NA	NA	71.59
MW-33	35	20	35	93.84	2/20/2019	NA	23.05	NA	NA	70.79
					1/23/2018	NA	25.02	NA	NA	68.82
					6/27/2017	NA	22.70	NA	NA	71.14
					10/19/2016	NA	23.00	NA	NA	70.84
					5/15/2016	NA	21.57	NA	NA	72.27
					11/3/2015	NA	21.48	NA	NA	72.36
					5/28/2015	NA	23.83	NA	NA	70.01
					11/12/2014	NA	24.65	NA	NA	69.19
					4/1/2014	NA	23.18	NA	NA	70.66
MW-34	35	20	35	94.77	2/20/2019	NA	23.92	NA	NA	70.85
					1/24/2018	NA	25.84	NA	NA	68.93
					6/27/2017	NA	25.52	NA	NA	69.25
					10/19/2016	NA	23.81	NA	NA	70.96
					5/15/2016	NA	22.38	NA	NA	72.39
					11/3/2015	NA	21.52	NA	NA	73.25
					5/28/2015	NA	24.72	NA	NA	70.05
					11/12/2014	NA	25.49	NA	NA	69.28
					4/1/2014	NA	24.06	NA	NA	70.71
MW-35	35	20	35	93.71	2/20/2019	NA	23.01	NA	NA	70.70
					1/24/2018	NA	24.88	NA	NA	68.83
					6/27/2017	NA	22.65	NA	NA	71.06
					10/19/2016	NA	22.89	NA	NA	70.82
					5/16/2016	NA	21.48	NA	NA	72.23
					11/3/2015	NA	21.37	NA	NA	72.34
					5/28/2015	NA	23.80	NA	NA	69.91
					11/12/2014	NA	24.66	NA	NA	69.05
					4/1/2014	NA	21.35	NA	NA	72.36

Table 1

Facility Name: Handy Pantry #65 / University Mart & Clouds Chevron — UST Permit ID: 07584 / 07777 / 12352

Address: 2367 Taylor Street Columbia, South Carolina — CES Project Number: 7.0547

Well Construction and Historical Groundwater Elevation Summary

Monitor Well	Well Depth (ft)	Screened Interval		Top of Casing (ft)	Date Measured	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Product Elevation (ft)	Groundwater Elevation (ft)
MW-36	35	20	35	93.89	2/20/2019	NA	22.81	NA	NA	71.08
					1/23/2018	NA	25.02	NA	NA	68.87
					6/27/2017	NA	22.52	NA	NA	71.37
					10/19/2016	NA	22.91	NA	NA	70.98
					5/15/2016	NA	21.36	NA	NA	72.53
					11/3/2015	NA	21.36	NA	NA	72.53
					5/28/2015	NA	23.63	NA	NA	70.26
					11/12/2014	NA	24.72	NA	NA	69.17
					4/1/2014	NA	22.84	NA	NA	71.05
MW-37	35	20	35	93.78	2/20/2019	NA	23.13	NA	NA	70.65
					1/23/2018	NA	25.17	NA	NA	68.61
					6/27/2017	NA	22.76	NA	NA	71.02
					10/19/2016	NA	23.04	NA	NA	70.74
					5/16/2016	NA	21.61	NA	NA	72.17
					11/3/2015	NA	21.36	NA	NA	72.42
					5/28/2015	NA	23.98	NA	NA	69.80
					11/12/2014	NA	24.87	NA	NA	68.91
					4/1/2014	NA	22.24	NA	NA	71.54
MW-38	35	20	35	95.53	2/20/2019	NA	24.45	NA	NA	71.08
					1/23/2018	NA	26.42	NA	NA	69.11
					6/27/2017	NA	24.06	NA	NA	71.47
					10/19/2016	NA	24.32	NA	NA	71.21
					5/18/2016	NA	24.83	NA	NA	70.70
					11/3/2015	NA	22.89	NA	NA	72.64
					6/2/2015	NA	25.26	NA	NA	70.27
					11/12/2014	NA	26.17	NA	NA	69.36
					4/1/2014	NA	24.61	NA	NA	70.92
MW-39	35	20	35	96.19	1/23/2018	NA	27.68	NA	NA	68.51
					6/27/2017	NA	25.15	NA	NA	71.04
					10/19/2016	NA	25.37	NA	NA	70.82
					5/18/2016	NA	24.02	NA	NA	72.17
					11/3/2015	NA	23.79	NA	NA	72.40
					6/2/2015	NA	26.45	NA	NA	69.74
					11/12/2014	NA	27.36	NA	NA	68.83
					4/2/2014	NA	25.59	NA	NA	70.60
MW-40	35	20	35	95.69	2/20/2019	NA	24.80	NA	NA	70.89
					1/23/2018	NA	26.88	NA	NA	68.81
					6/27/2017	NA	24.47	NA	NA	71.22
					10/19/2016	NA	25.04	NA	NA	70.65
					5/18/2016	NA	25.25	NA	NA	70.44
					11/3/2015	NA	23.43	NA	NA	72.26
					6/2/2015	NA	26.12	NA	NA	69.57
					11/12/2014	NA	27.01	NA	NA	68.68
					4/2/2014	NA	25.29	NA	NA	70.40
MW-41	35	20	35	94.85	2/20/2019	NA	25.24	NA	NA	69.61
					1/23/2018	NA	27.31	NA	NA	67.54
					6/27/2017	NA	24.91	NA	NA	69.94
					10/19/2016	NA	24.45	NA	NA	70.40
					5/18/2016	NA	23.71	NA	NA	71.14
					11/3/2015	NA	22.77	NA	NA	72.08
					6/2/2015	NA	25.69	NA	NA	69.16
					11/11/2014	NA	26.99	NA	NA	67.86
					4/1/2014	NA	24.70	NA	NA	70.15
MW-42	35	20	35	95.81	1/23/2018	NA	27.42	NA	NA	68.39
					6/27/2017	NA	25.00	NA	NA	70.81
					10/19/2016	NA	25.08	NA	NA	70.73
					5/18/2016	NA	23.73	NA	NA	72.08
					11/3/2015	NA	23.46	NA	NA	72.35
					6/2/2015	NA	26.25	NA	NA	69.56
					11/12/2014	NA	27.22	NA	NA	68.59
					4/1/2014	NA	25.35	NA	NA	70.46
MW-43	40	20	40	95.15	2/20/2019	NA	23.75	NA	NA	71.40
					1/23/2018	NA	25.84	NA	NA	69.31
					6/27/2017	NA	23.32	NA	NA	71.83
					10/19/2016	NA	23.70	NA	NA	71.45
					5/18/2016	NA	22.04	NA	NA	73.11
					11/3/2015	NA	22.21	NA	NA	72.94
					5/28/2015	NA	24.66	NA	NA	70.49
					11/11/2014	NA	25.61	NA	NA	69.54
					4/2/2014	NA	24.00	NA	NA	71.15

Table 1

Facility Name: Handy Pantry #65 / University Mart & Clouds Chevron — UST Permit ID: 07584 / 07777 / 12352
Address: 2367 Taylor Street Columbia, South Carolina — CES Project Number: 7.0547

Well Construction and Historical Groundwater Elevation Summary

Monitor Well	Well Depth (ft)	Screened Interval		Top of Casing (ft)	Date Measured	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Product Elevation (ft)	Groundwater Elevation (ft)
MW-44	31	16	31	94.57	2/20/2019	NA	22.02	NA	NA	72.55
					1/23/2018	NA	24.42	NA	NA	70.15
					6/27/2017	NA	21.57	NA	NA	73.00
					10/19/2016	NA	22.16	NA	NA	72.41
					5/18/2016	NA	20.11	NA	NA	74.46
					11/3/2015	NA	20.33	NA	NA	74.24
					5/28/2015	NA	22.70	NA	NA	71.87
					11/11/2014	NA	24.23	NA	NA	70.34
					4/1/2014	NA	24.42	NA	NA	70.15
MW-45	30	15	30	92.51	2/20/2019	NA	21.03	NA	NA	71.48
					1/23/2018	NA	22.94	NA	NA	69.57
					6/27/2017	NA	20.56	NA	NA	71.95
					10/19/2016	NA	20.99	NA	NA	71.52
					5/18/2016	NA	19.43	NA	NA	73.08
					11/3/2015	NA	19.45	NA	NA	73.06
					5/28/2015	NA	21.75	NA	NA	70.76
					11/11/2014	NA	22.63	NA	NA	69.88
					4/1/2014	NA	21.22	NA	NA	71.29
MW-46	35	20	35	94.50	2/20/2019	NA	23.38	NA	NA	71.12
					1/23/2018	NA	25.26	NA	NA	69.24
					6/27/2017	NA	22.82	NA	NA	71.68
					10/19/2016	NA	23.25	NA	NA	71.25
					5/16/2016	NA	21.70	NA	NA	72.80
					11/3/2015	NA	21.84	NA	NA	72.66
					5/28/2015	NA	24.19	NA	NA	70.31
					11/11/2014	NA	24.95	NA	NA	69.55
					4/1/2014	NA	23.55	NA	NA	70.95
MW-48	30	15	30	89.95	2/20/2019	Unable to Access - Locked Gate				
					1/22/2018					
					6/26/2017					
					10/19/2016					
					5/18/2016	NA	18.21	NA	NA	71.74
					11/3/2015	Unable to Access - Locked Gate				
					5/29/2015	NA	19.63	NA	NA	70.32
					11/11/2014	Unable to Access - Locked Gate				
					4/2/2014	NA	19.70	NA	NA	70.25
MW-49	30	15	30	88.18	2/20/2019	NA	15.93	NA	NA	72.25
					1/24/2018	NA	17.83	NA	NA	70.35
					6/26/2017	Unable to Access - Locked Gate				
					10/19/2016					
					5/15/2016					
					11/3/2015					
					5/29/2015					
					11/11/2014					
					4/2/2014					
MW-50	30	15	30	84.09	2/20/2019	NA	13.72	NA	NA	70.37
					1/24/2018	Unable to Access - Locked Gate				
					6/26/2017					
					10/19/2016					
					5/15/2016					
					11/3/2015					
					5/29/2015					
					11/11/2014					
					4/2/2014					
MW-51	35	20	35	93.91	1/22/2018	NA	24.82	NA	NA	69.09
					6/27/2017	NA	22.51	NA	NA	71.40
					10/19/2016	NA	22.78	NA	NA	71.13
					5/18/2016	NA	20.76	NA	NA	73.15
					11/3/2015	NA	21.87	NA	NA	72.04
					5/29/2015	NA	23.72	NA	NA	70.19
					11/11/2014	NA	24.29	NA	NA	69.62
					4/2/2014	NA	21.23	NA	NA	72.68
MW-53	20	5	20	79.60	2/20/2019	NA	9.67	NA	NA	69.93
					1/22/2018	NA	11.32	NA	NA	68.28
					6/27/2017	NA	9.49	NA	NA	70.11
					10/19/2016	Unable to Locate- Overgrown Field				
					5/15/2016	Unable to Locate- Overgrown Field				
					11/3/2015	NA	8.49	NA	NA	71.11
					5/28/2015	NA	10.50	NA	NA	69.10
					11/11/2014	NA	11.02	NA	NA	68.58
					4/3/2014	NA	9.60	NA	NA	70.00

Table 1

Facility Name: Handy Pantry #65 / University Mart & Clouds Chevron — UST Permit ID: 07584 / 07777 / 12352
Address: 2367 Taylor Street Columbia, South Carolina — CES Project Number: 7.0547

Well Construction and Historical Groundwater Elevation Summary

Monitor Well	Well Depth (ft)	Screened Interval		Top of Casing (ft)	Date Measured	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Product Elevation (ft)	Groundwater Elevation (ft)
MW-54	20	5	20	77.58	2/20/2019	Destroyed - Paved Over				
					1/23/2018					
					6/26/2017					
					10/19/2016	NA	10.66	NA	NA	66.92
					5/18/2016	NA	10.15	NA	NA	67.43
					11/3/2015	NA	9.83	NA	NA	67.75
					5/28/2015	NA	11.27	NA	NA	66.31
					11/11/2014	Unable to Locate - Overgrown Field				
					4/1/2014	NA	11.31	NA	NA	66.27
MW-55	14	4	14	71.22	2/20/2019	NA	2.18	NA	NA	69.04
					1/22/2018	NA	3.51	NA	NA	67.71
					6/27/2017	NA	2.10	NA	NA	69.12
					10/19/2016	NA	4.26	NA	NA	66.96
					5/18/2016	NA	1.55	NA	NA	69.67
					11/3/2015	NA	1.19	NA	NA	70.03
					5/28/2015	NA	3.83	NA	NA	67.39
					11/11/2014	Unable to Locate - Overgrown Field				
					4/3/2014	NA	2.51	NA	NA	68.71
MW-56	20	5	20	76.39	2/20/2019	NA	7.35	NA	NA	69.04
					1/22/2018	NA	8.69	NA	NA	67.70
					6/27/2017	NA	7.20	NA	NA	69.19
					10/19/2016	NA	7.45	NA	NA	68.94
					5/18/2016	NA	6.76	NA	NA	69.63
					11/3/2015	NA	6.40	NA	NA	69.99
					5/28/2015	NA	8.22	NA	NA	68.17
					11/11/2014	Unable to Locate - Overgrown Field				
					4/3/2014	NA	5.12	NA	NA	71.27
MW-58	19	4	19	76.37	2/20/2019	Not Sampled due to Obstruction				
					1/24/2018					
					6/26/2017					
					10/19/2016					
					5/18/2016					
					11/3/2015	NA	4.52	NA	NA	71.85
					5/29/2015	NA	6.85	NA	NA	69.52
					11/11/2014	Abandoned				
					4/2/2014					
MW-59	17	2	17	68.02	1/22/2018	NA	6.55	NA	NA	61.47
					6/28/2017	NA	5.65	NA	NA	62.37
					10/19/2016	NA	5.84	NA	NA	62.18
					5/18/2016	NA	5.46	NA	NA	62.56
					11/3/2015	NA	5.04	NA	NA	62.98
					5/28/2015	NA	6.46	NA	NA	61.56
					11/11/2014	NA	6.69	NA	NA	61.33
					4/2/2014	NA	6.05	NA	NA	61.97
MW-60	14	4	14	67.94	2/20/2019	Unable to Locate				
					1/22/2018					
					6/26/2017					
					10/19/2016					
					5/18/2016					
					11/3/2015					
					5/28/2015					
					11/11/2014					
					4/2/2014					
MW-62	35	20	35	94.05	2/20/2019	NA	22.73	NA	NA	71.32
					1/23/2018	NA	24.18	NA	NA	69.87
					6/27/2017	NA	22.44	NA	NA	71.61
					10/19/2016	NA	22.64	NA	NA	71.41
					5/18/2016	Not Sampled due to Obstruction				
					11/3/2015	22.15	22.67	0.52	71.90	71.38
					5/28/2015	22.21	23.71	1.5	71.84	70.34
					11/12/2014	NA	24.75	NA	NA	69.30
					4/1/2014	NA	22.32	NA	NA	71.73
MW-63	35	20	35	94.65	2/20/2019	NA	23.05	NA	NA	71.60
					1/23/2018	NA	25.45	NA	NA	69.20
					6/27/2017	NA	22.81	NA	NA	71.84
					10/19/2016	NA	22.84	NA	NA	71.81
					5/18/2016	NA	21.66	NA	NA	72.99
					11/3/2015	NA	24.05	NA	NA	70.60
					5/28/2015	24.04	24.05	0.01	70.61	70.60
					11/12/2015	Unable to Locate				
					4/2/2014	NA	23.07	NA	NA	71.58

Table 1

Facility Name: Handy Pantry #65 / University Mart & Clouds Chevron — UST Permit ID: 07584 / 07777 / 12352

Address: 2367 Taylor Street Columbia, South Carolina — CES Project Number: 7.0547

Well Construction and Historical Groundwater Elevation Summary

Monitor Well	Well Depth (ft)	Screened Interval		Top of Casing (ft)	Date Measured	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Product Elevation (ft)	Groundwater Elevation (ft)
MW-65	35	20	35	94.04	2/20/2019	Unable to Locate - Paved over				
					1/22/2018					
					6/26/2017					
					10/19/2016					
					5/15/2016					
					11/3/2015					
					5/28/2015					
					11/11/2014					
					4/2/2014					
MW-67	35	20	35	96.10	2/20/2019	NA	25.35	NA	NA	70.75
					1/23/2018	NA	27.44	NA	NA	68.66
					6/27/2017	NA	25.42	NA	NA	70.68
					10/19/2016	NA	25.18	NA	NA	70.92
					5/18/2016	NA	23.73	NA	NA	72.37
					11/3/2015	NA	23.52	NA	NA	72.58
					6/2/2015	NA	26.29	NA	NA	69.81
					11/12/2014	NA	27.28	NA	NA	68.82
					4/1/2014	NA	24.44	NA	NA	71.66
MW-70	35	20	35	95.49	2/20/2019	NA	24.68	NA	NA	70.81
					1/23/2018	NA	26.36	NA	NA	69.13
					6/27/2017	NA	24.51	NA	NA	70.98
					10/19/2016	NA	24.43	NA	NA	71.06
					5/18/2016	NA	23.11	NA	NA	72.38
					11/3/2015	NA	22.89	NA	NA	72.60
					5/28/2015	NA	25.60	NA	NA	69.89
					11/11/2014	NA	26.22	NA	NA	69.27
					4/2/2014	NA	24.70	NA	NA	70.79
MW-5AR	28	18	28	94.18	2/20/2019	NA	21.04	NA	NA	73.14
					1/24/2018	NA	23.16	NA	NA	71.02
					6/27/2017	NA	21.61	NA	NA	72.57
					10/19/2016	NA	21.04	NA	NA	73.14
					5/15/2016	NA	19.59	NA	NA	74.59
					11/3/2015	NA	16.39	NA	NA	77.79
					5/28/2015	NA	20.91	NA	NA	73.27
					11/13/2014	NA	22.64	NA	NA	71.54
					4/1/2014	NA	21.24	NA	NA	72.94
PW-1R	50	45	50	93.75	2/20/2019	NA	22.72	NA	NA	71.03
					1/24/2018	NA	24.43	NA	NA	69.32
					6/28/2017	NA	22.16	NA	NA	71.59
					10/19/2016	NA	22.36	NA	NA	71.39
					5/18/2016	NA	21.03	NA	NA	72.72
					11/3/2015	NA	21.43	NA	NA	72.32
					5/29/2015	23.19	23.20	0.01	70.56	70.55
					11/13/2014	NA	23.92	NA	NA	69.83
					4/3/2014	NA	23.11	NA	NA	70.64
DW-1	70	65	70	94.66	2/20/2019	NA	44.02	NA	NA	50.64
					1/22/2018	NA	43.95	NA	NA	50.71
					6/28/2017	NA	42.91	NA	NA	51.75
					10/19/2016	NA	42.32	NA	NA	52.34
					5/16/2016	NA	42.71	NA	NA	51.95
					11/3/2015	NA	46.28	NA	NA	48.38
					5/29/2015	NA	46.28	NA	NA	48.38
					11/10/2014	NA	45.42	NA	NA	49.24
					4/2/2014	NA	45.00	NA	NA	49.66
DW-2	75	70	75	94.02	2/20/2019	NA	43.30	NA	NA	50.72
					1/22/2018	NA	43.23	NA	NA	50.79
					6/28/2017	NA	42.21	NA	NA	51.81
					10/19/2016	NA	43.05	NA	NA	50.97
					5/16/2016	NA	41.99	NA	NA	52.03
					11/3/2015	NA	43.07	NA	NA	50.95
					11/11/2014	NA	44.88	NA	NA	49.14
					4/2/2014	NA	44.34	NA	NA	49.68
DW-3	52	47	52	93.75	2/20/2019	NA	23.32	NA	NA	70.43
					1/24/2018	NA	25.11	NA	NA	68.64
					6/28/2017	NA	22.85	NA	NA	70.90
					10/19/2016	NA	23.07	NA	NA	70.68
					5/18/2016	NA	21.70	NA	NA	72.05
					11/3/2015	NA	21.29	NA	NA	72.46
					5/28/2015	NA	23.93	NA	NA	69.82
					11/13/2014	NA	24.42	NA	NA	69.33
					4/3/2014	NA	24.40	NA	NA	69.35

Table 1

Facility Name: Handy Pantry #65 / University Mart & Clouds Chevron — UST Permit ID: 07584 / 07777 / 12352

Address: 2367 Taylor Street Columbia, South Carolina — CES Project Number: 7.0547

Well Construction and Historical Groundwater Elevation Summary

Monitor Well	Well Depth (ft)	Screened Interval		Top of Casing (ft)	Date Measured	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Product Elevation (ft)	Groundwater Elevation (ft)
DW-4	110	105	110	93.79	2/20/2019	NA	43.26	NA	NA	50.53
					1/24/2018	NA	43.33	NA	NA	50.46
					6/28/2017	NA	38.96	NA	NA	54.83
					10/19/2016	NA	42.79	NA	NA	51.00
					5/18/2016	NA	42.31	NA	NA	51.48
					11/3/2015	NA	43.34	NA	NA	50.45
					5/28/2015	NA	44.51	NA	NA	49.28
					11/13/2014	NA	3.45	NA	NA	90.34
					4/3/2014	NA	44.60	NA	NA	49.19
DW-5	70	65	70	93.74	2/20/2019	NA	43.26	NA	NA	50.48
					1/24/2018	NA	43.46	NA	NA	50.28
					6/28/2017	NA	42.34	NA	NA	51.40
					10/19/2016	NA	42.51	NA	NA	51.23
					5/16/2016	NA	42.12	NA	NA	51.62
					11/3/2015	NA	42.89	NA	NA	50.85
					5/28/2015	NA	44.45	NA	NA	49.29
					11/12/2014	NA	44.75	NA	NA	48.99
					4/1/2014	NA	44.22	NA	NA	49.52
DW-6	70	65	70	95.90	1/23/2018	NA	45.51	NA	NA	50.39
					6/28/2017	NA	44.31	NA	NA	51.59
					10/19/2016	NA	44.54	NA	NA	51.36
					5/18/2016	NA	44.10	NA	NA	51.80
					11/3/2015	NA	44.59	NA	NA	51.31
					6/2/2015	NA	46.16	NA	NA	49.74
					11/12/2014	NA	46.64	NA	NA	49.26
					4/1/2014	NA	45.86	NA	NA	50.04
DW-7	55	50	55	72.79	2/20/2019	Destroyed - Paved Over				
					1/24/2018					
					6/26/2017					
					10/19/2016	NA	22.24	NA	NA	50.55
					5/18/2016	NA	21.82	NA	NA	50.97
					11/3/2015	NA	22.97	NA	NA	49.82
					5/28/2015	NA	24.32	NA	NA	48.47
					11/11/2014	NA	24.75	NA	NA	48.04
					4/3/2014	NA	24.00	NA	NA	48.79
DW-8	55	50	55	68.63	2/20/2019	Not Sampled due to Obstruction				
					1/24/2018					
					6/26/2017					
					10/19/2016					
					5/18/2016					
					11/3/2015	NA	19.43	NA	NA	49.20
					5/29/2015	NA	5.37	NA	NA	63.26
					11/11/2014	Abandoned				
					4/2/2014					
DW-9	65	60	65	76.47	2/20/2019	NA	23.87	NA	NA	52.60
					1/22/2018	NA	23.73	NA	NA	52.74
					6/28/2017	NA	22.73	NA	NA	53.74
					10/19/2016	NA	22.87	NA	NA	53.60
					5/18/2016	NA	22.42	NA	NA	54.05
					11/3/2015	NA	23.62	NA	NA	52.85
					5/28/2015	NA	24.90	NA	NA	51.57
					11/11/2014	NA	24.44	NA	NA	52.03
					4/2/2014	NA	25.00	NA	NA	51.47

INA = Information not available

* = GW Elevation Corrected for The Presence of Free Product

n/a = not applicable

CRAWFORD ENVIRONMENTAL SERVICES

Table 2

Facility Name: Handy Pantry #65 / University Mart & Clouds Chevron — UST — 07584 / 07777 / 12352

Address: 2367 Taylor Street Columbia, South Carolina — Crawford Project No. — 7.0547

Groundwater Laboratory Analytical Result Summary

Well ID:	Date:	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphthalene	TAA	TAME	TBA
MW-1	4/2/2014	Dry								
	11/11/2014									
	5/29/2015									
	11/3/2015									
	5/15/2016									
	10/16/2016									
	6/26/2017									
	1/22/2018									
	2/20/2019									
MW-2	4/2/2014	170	41	200	960	320	150	230	1	6.8
	11/4/2014	140	300	220	1300	410	160	210	<10	<100
	5/29/2015	0.01-Feet of Free Product								
	11/4/2015	0.61	0.48	1.4	5.5	<1	2.6	<100	<10	<100
	5/16/2016	11	0.83 J	0.98 J	49	18	12	<100	<10	<100
	10/21/2016	34	4.9	23	60	56	18	68 J	<10	47 J
	6/27/2017	190	5.6	140	640	370	140	190	14	<100
	1/22/2018	450	10	270	960	520	190	430	23	<100
	2/20/2019	120	4.6	180	290	110	120	73 J	<10	<100
MW-3	4/2/2014	6900	18000	1200	16000	1800	600	980	560.000	340
	11/12/2014	4600	11000	620	8700	1300	280	<5000	310.000	<5000
	5/29/2015	0.09-Feet of Free Product								
	11/4/2015	3000	8700	600	7200	720	360	<2000	140	<2000
	5/16/2016	7800	22000	1800	21000	2500	870	<5000	410 J	<5000
	10/21/2016	480	1000	76	2100	67	61	210	29	330
	6/27/2017	3900	13000	1100	10000	370	560	<1000	210	<1000
	1/22/2018	8400	29000	2400	29000	1500	740	<1000	370 J	<10000
	2/20/2019	5300	21000	1500	17000	520	1600 J	<50000	<5000	<50000
MW-4	4/2/2014	<1	<1	<1	<1	3.5	<5	<100	10.000	<100
	11/11/2014	<1	<1	<1	<1	1.6	<5	<100	<10	<100
	5/29/2015	<1	<1	<1	<1	1.9	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	1.9	<5	<100	<10	<100
	5/16/2016	<1	<1	<1	<1	0.87 J	<5	<100	<10	<100
	10/21/2016	<1	<1	<1	<1	1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	0.73 J	<5	<100	<10	<100
	1/22/2018	<1	<1	<1	<1	2.2	<5	<100	<10	<100
MW-5	4/2/2014	Dry								
	11/11/2014									
	5/29/2015									
	11/3/2015									
	5/16/2016	0.29 J	<1	<1	<1	<1	<5	<100	<10	<100
	10/19/2016	Dry								
	6/26/2017	Dry								
	1/22/2018	Dry								
	2/20/2019	Dry								
MW-6	4/3/2014	2.6	<1	2.4	10	2.5	4.2	<100	<10	<100
	11/11/2014	<1	<1	<1	<1	0.8	<5	<100	<10	<100
	5/29/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/17/2016	<1	<1	<1	<1	1.7	<5	<100	<10	<100
	10/21/2016	<1	<1	<1	<1	<1	1.9 J	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	1.9	<5	<100	<10	<100
	1/22/2018	<1	<1	<1	<1	13	<5	<100	<10	<100
MW-7	4/3/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/11/2014	0.71	<1	<1	<1	<1	<5	<100	<10	<100
	5/29/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/16/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/21/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	1.3 J	<100	<10	<100
	1/22/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-8	4/3/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/11/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/29/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/17/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/21/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/22/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100

Table 2

Facility Name: Handy Pantry #65 / University Mart & Clouds Chevron | UST | 07584 / 07777 / 12352

Address: 2367 Taylor Street Columbia, South Carolina | Crawford Project No. | 7.0547

Groundwater Laboratory Analytical Result Summary

Well ID:	Date:	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphthalene	TAA	TAME	TBA
MW-9	4/2/2014	830	7500	1700	14000	50	590	1700	5000	5000
	11/11/2014	380	11000	1900	13000	5	650	1100	<10	<100
	5/28/2015	250	5700	1200	8200	<50	480	<5000	<500	<5000
	11/4/2015	520	6200	1100	8600	<50	470	3000	<500	<5000
	5/16/2016	78	1900	1000	4300	<1	440	200	<10	<100
	10/21/2016	60	1500	730	3800	<1	210	550	<10	<100
	6/26/2017	Unable to Locate								
	1/22/2018	150	5400	1700	13000	<50	680	<5000	<500	<5000
	2/20/2019	130	2100	720	5700	<1.0	340	280	<10	<100
MW-10	4/1/2014	1800	5700	350	8500	50	690	5000	500	5000
	11/11/2014	1.25-Feet of Free Product								
	5/28/2015	66	76	67	860	<1	370	<100	<10	<100
	11/4/2015	10	18	4.5	120	<1	46	<100	<10	<100
	5/18/2016	88	11	22	97	<1	170	<100	<10	<100
	10/21/2016	27	7.1	11	93	<1	47	<100	<10	<100
	6/28/2017	27	3.3	17	59	<1	120	<100	<10	<100
	1/22/2018	40	15	94	690	<1	120	42 J	<10	<100
	2/20/2019	19	5.3	120	420	<1.0	170	<100	<10	<100
MW-11	4/2/2014	2.3	4.1	11	4.1	<1	4.4	120	<10	<100
	11/11/2014	0.53	<1	<1	<1	<1	<5	80	<10	58
	5/29/2015	0.51	<1	<1	3.8	<1	6.6	50	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/21/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/24/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-12	4/2/2014	2.9	0.67	1.6	0.91	18	4.7	630	9	<100
	11/11/2014	990	19	910	140	21	180	3600	14	<100
	5/28/2015	53	2.7	430	14	22	44	2300	<10	<100
	11/4/2015	110	2	53	25	<1	10	1800	8	<100
	5/18/2016	260	83	710	330	17	190	1300	<10	<100
	10/20/2016	180	18	420	300	13	110	4000	<10	<100
	6/26/2017	Destroyed - Paved Over								
	1/23/2018	Destroyed - Paved Over								
	2/20/2019	Destroyed - Paved Over								
MW-13	4/1/2014	0.62	8.8	4.5	86	<1	31	10	<10	<100
	11/11/2014	<1	<1	<	<1	<1	<5	<100	<10	<100
	5/28/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<1	<100	<10	<100
	5/16/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/20/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/26/2017	Destroyed - Paved Over								
	1/23/2018	Destroyed - Paved Over								
MW-15	4/1/2014	0.60-Feet of Free Product								
	11/11/2014	0.25-Feet of Free Product								
	5/29/2015	0.16-Feet of Free Product								
	11/3/2015	0.14-Feet of Free Product								
	5/15/2016	0.44-Feet of Free Product								
	10/19/2016	0.60-Feet of Free Product								
	6/28/2017	<1	300	320	7,500	<1	880	<100	<10	<100
	1/22/2018	0.74 J	490	250	6500	<1	<100	<100	<10	<100
	2/20/2019	<10	9.8 J	30	1700	<10	380	<1000	<100	<1000
MW-16	4/2/2014	<1	<1	<1	<1	<1	3.4	<100	<10	<100
	11/12/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/29/2015	Unable to Locate								
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/20/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/22/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100

Table 2

Facility Name: Handy Pantry #65 / University Mart & Clouds Chevron — UST — 07584 / 07777 / 12352

Address: 2367 Taylor Street Columbia, South Carolina — Crawford Project No. — 7.0547

Groundwater Laboratory Analytical Result Summary

Well ID:	Date:	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphthalene	TAA	TAME	TBA
MW-17	4/2/2014	280	5100	450	13000	50	850	2200	500	5000
	11/12/2014	32	3000	450	8300	<10	690	270	<100	<1000
	5/28/2015	210	7500	480	12000	<50	830	2200	<500	<5000
	11/4/2015	280	10000	660	13000	<100	720	<10000	<1000	<10000
	5/15/2016	Not Sampled due to Obstruction								
	10/20/2016	<100	5500	510	11000	<100	560	<10000	<1000	<10000
	6/27/2017	10	5.8	190	26	<1	190	<100	<10	<100
	1/22/2018	35	13	430	150	<1	440	70 J	<10	<100
	2/21/2019	8.3	20	72	150	<1.0	50	59 J	<10	<100
MW-18	4/2/2014	1900	7200	630	8300	340	370	4900	70	5000
	11/12/2014	3100	11000	560	8700	510	290	12000	<1000	<10000
	5/28/2015	970	2500	180	4100	230	180	3000	33	<100
	11/3/2015	990	5800	600	8900	93	260	<10000	<1000	<10000
	5/15/2016	260	1900	220	4900	20	220	690	<10	<100
	10/20/2016	510	2400	230	3700	68	120	5500	48	1100
	6/27/2017	310	1800	300	4100	6.3	140	190	<10	<100
	1/24/2018	1800	11000	1400	12000	49	560	3300	<200	<2000
	2/21/2019	360	1100	120	2500	<1.0	73	1400	<10	<100
MW-19	4/3/2014	300	1800	490	12000	50	900	610	500	5000
	11/13/2014	1400	2800	1600	24000	<50	1400	1300	<50	<5000
	5/28/2015	2100	17000	330	16000	<50	1200	6200	<500	<5000
	11/3/2015	2900	19000	720	17000	<100	1100	5400	<1000	<10000
	5/18/2016	2900	19000	1100	22000	200	1400	4300 J	<500	<5000
	10/21/2016	2500	18000	1200	19000	<500	1200 J	<50000	<5000	<50000
	6/27/2017	3200	21000	1100	20000	130	950	6700 J	<1000	<10000
	1/24/2018	3100	23000	1100	17000	<500	770 J	<50000	<5000	<50000
	2/21/2019	2100	19000	1300	19000	<500	2500 J	<50000	<5000	<50000
MW-20	4/3/2014	1800	11000	460	11000	50	960	3100	65	5000
	11/13/2014	1400	12000	500	14000	120	1100	<10000	<1000	<10000
	5/29/2015	0.06-Feet of Free Product								
	11/3/2015	930	11000	1000	17000	<50	1400	<5000	<500	<5000
	5/15/2016	690	10000	2100	23000	<50	1600	<5000	<500	<5000
	10/21/2016	490	7000	1600	20000	<50	1200	4200 J	<500	<5000
	6/27/2017	390	10000	2000	26000	<50	1500	2500 J	<500	<5000
	2/21/2019	1900	6200	1300	19000	<50	1100	1700 J	<500	<5000
MW-22	4/3/2014	5700	12000	880	23000	50	990	3600	500	5000
	11/11/2014	6300	23000	700	21000	<20	1200	9600	<20	<140
	6/5/2015	4800	16000	760	26000	<100	840	<10000	<1000	<10000
	11/3/2015	6400	20000	740	24000	<100	1000	3900	<1000	<10000
	5/15/2016	1900	11000	1500	28000	<50	1400	<5000	<500	<5000
	10/21/2016	3400	20000	1600	20000	<500	720 J	<50000	<5000	<50000
	6/27/2017	2100	13000	1100	15000	<500	<2500	<50000	<5000	<50000
	1/24/2018	2500	18000	1600	29000	<100	850	2900 J	<1000	<10000
	2/21/2019	2800	7400	170	20000	<50	960	2300 J	<500	<5000
MW-23	4/3/2014	4200	16000	880	19000	120	1100	5900	500.000	5000
	11/13/2014	890	3600	450	16000	<50	1200	1500	<50	<340
	5/28/2015	570	1500	89	8300	<50	660	<5000	<500	<5000
	11/3/2015	2.9	8.5	1.5	190	<1	52	<100	<10	<100
	5/18/2016	280	990	110	4200	7.3	470	520	<10	<100
	10/21/2016	600	1900	130	4600	18	390	4000	<10	<100
	6/27/2017	400	1500	120	3800	6.3	370	1000	<10	<100
	1/24/2018	1100	4700	300	8500	11	1200	2700	11	<100
	2/21/2019	1500	6700	400	6600	<50	720	1600 J	<500	<5000
MW-25	4/1/2014	5.5	200	320	4400	<1	1300	170	<10	<100
	11/10/2014	38	140	200	2600	1.9	490	2800	<10	<100
	5/28/2015	29	140	190	3000	<1	560	430	<10	<100
	11/3/2015	14	150	200	2600	<1	340	390	<10	<100
	5/15/2016	Unable to Locate								
	10/19/2016	8.8	120	230	3400	<1	450	<100	<10	<100
	6/26/2017	Unable to Locate								
	1/24/2018	10	200	270	4700	<1	520	680	<10	<100
	2/20/2019	Unable to Locate								

Table 2

Facility Name: Handy Pantry #65 / University Mart & Clouds Chevron — UST — 07584 / 07777 / 12352

Address: 2367 Taylor Street Columbia, South Carolina — Crawford Project No. — 7.0547

Groundwater Laboratory Analytical Result Summary

Well ID:	Date:	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphthalene	TAA	TAME	TBA
MW-26	4/3/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/11/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/2/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/17/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/19/2016	Not Sampled due to Obstruction								
	6/28/2017	<1	<1	<1	<1	<1	1.1 J	<100	<10	<100
	1/22/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-27	4/1/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/13/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/28/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/3/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/17/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/19/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/24/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-28	4/1/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/13/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/28/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/3/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/17/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/19/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/24/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-29	4/1/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/13/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/29/2015	0.01-Feet of Free Product								
	11/3/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/17/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/19/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/24/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-30	4/1/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/10/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/28/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/3/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/15/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/19/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/24/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-31	4/2/2014	0.9	<1	<1	<1	2.7	<5	59	<10	<100
	11/12/2014	30	9.8	310	9.3	4.1	160	460	<10	<100
	5/29/2015	0.01-Feet of Free Product								
	11/3/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/17/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/20/2016	7.9	<1	6.1	<1	<1	130	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/23/2018	8.5	<1	6.9	<1	<1	130	130	<10	<100
	2/21/2019	<1.0	<1.0	<1.0	<1.0	<1.0	2.8 J	<100	<10	<100
MW-32	4/2/2014	0.94	<1	1.9	2.4	<1	6.6	170	<10	<100
	11/12/2014	4	13	72	10	<1	45	<100	<10	<100
	5/28/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/3/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/17/2016	<1	<1	<1	<1	<1	2.8 J	<100	<10	<100
	10/19/2016	Not Sampled due to Obstruction								
	6/27/2017	<1	<1	<1	<1	<1	1.4 J	<100	<10	<100
	1/24/2018	2.5	0.41 J	1.9	1.2	<1	28	<100	<10	<100
MW-33	4/1/2014	560	5200	2500	6900	50	670	4100	500.000	5000
	11/12/2014	130	410	210	550	1.2	71	1000	<10	<100
	5/28/2015	<1	<1	<1	<1	<1	<5	29	<10	<100
	11/3/2015	240	7500	1600	11000	<50	430	<5000	<500	<5000
	5/15/2016	260	3200	1400	4700	4.3	390	210	<10	<100
	10/19/2016	120	620	480	1700	<1	95	980	<10	<100
	6/27/2017	80	250	100	1400	<1	210	860	<10	<100
	1/23/2018	310	4100	2100	11000	<1	940	3600	<10	<100
	2/21/2019	61	2100	920	4800	<1.0	370	620	<10	<100

Table 2

Facility Name: Handy Pantry #65 / University Mart & Clouds Chevron — UST — 07584 / 07777 / 12352

Address: 2367 Taylor Street Columbia, South Carolina — Crawford Project No. — 7.0547

Groundwater Laboratory Analytical Result Summary

Well ID:	Date:	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphthalene	TAA	TAME	TBA
MW-34	4/1/2014	<1	<1	<1	<1	<1	<5	39	<10	<100
	11/12/2014	<1	<1	<1	<1	<1	<5	39	<10	<100
	5/28/2015	<1	1.1	<1	<1	<1	<5	<100	<10	<100
	11/3/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/15/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/19/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/24/2018	<1	<1	0.26 J	<1	<1	<5	<100	<10	<100
MW-35	4/1/2014	3700	4300	2000	6200	160	550	5600	54	5000
	11/12/2014	6000	7200	2800	7400	330	700	4700	76	<100
	5/28/2015	3300	5100	1500	4700	<50	640	4400	<500	<5000
	11/3/2015	1900	2200	1100	3300	84	530	2300	28	<100
	5/16/2016	130	130	23	490	4.6	46	120	<10	<100
	10/20/2016	2200	3300	1300	4100	64	360	5800	63	<100
	6/27/2017	3100	3800	2400	4700	56	780	3000	29	<100
	1/24/2018	3600	6300	2900	6600	62	850	4100	<200	<2000
	2/21/2019	1100	2400	1500	3600	17	670	1800	<10	<100
MW-36	4/1/2014	5.1	<1	38	<1	<1	55	96	<10	<100
	11/12/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/28/2015	<1	1.3	<1	2.3	<1	<5	<100	<10	<100
	11/3/2015	0.74	<1	1.6	<1	<1	16	<100	<10	<100
	5/15/2016	1	<1	14	0.47 J	<1	54	<100	<10	<100
	10/19/2016	1.8	<1	25	<1	<1	14	<100	<10	<100
	6/27/2017	1	<1	<1	<1	<1	47	<100	<10	<100
	1/23/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-37	4/1/2014	<1	<1	<1	<1	<1	3.7	<100	<10	<100
	11/12/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/28/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/3/2015	3.5	<1	<1	5.4	<1	5.5	77	<10	<100
	5/16/2016	<1	<1	<1	<1	<1	0.95 J	<100	<10	<100
	10/20/2016	<1	<1	<1	<1	<1	1.0 J	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/23/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100
	2/21/2019	<1.0	<1.0	<1.0	<1.0	<1.0	2.6 J	<100	<10	<100
MW-38	4/1/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/12/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/2/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/3/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/16/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/20/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/23/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-39	4/2/2014	<1	3.2	2.2	14	<1	3.3	<100	<10	<100
	11/12/2014	11	1500	1000	3700	<1	340	220	<10	<100
	6/2/2015	1.3	160	140	1100	<1	160	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/16/2016	<1	1.2	1.9	4.9	<1	<5	<100	<10	<100
	10/20/2016	1.5	390	780	2300	<1	320	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/23/2018	0.48 J	220	480	2000	<1	370	56 J	<10	<100
	2/20/2019	Unable to Locate								
MW-40	4/2/2014	5.8	14	2	580	<1	24	<100	<10	<100
	11/12/2014	140	970	300	2900	12	150	600	<10	<100
	6/2/2015	5.2	47	3.9	590	<1	38	<100	<10	<100
	11/4/2015	0.51	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	<1	<1	1.4	<1	<1	<5	<100	<10	<100
	10/20/2016	<1	<1	1.4	<1	<1	<5	<100	<10	<100
	6/27/2017	22	5.1	600	98	<1	480	<100	<10	<100
	1/23/2018	1.5	<1	9.8	<1	<1	6.1	<100	<10	<100
	2/21/2019	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<100	<10	<100

Table 2

Facility Name: Handy Pantry #65 / University Mart & Clouds Chevron | UST | 07584 / 07777 / 12352

Address: 2367 Taylor Street Columbia, South Carolina | Crawford Project No. | 7.0547

Groundwater Laboratory Analytical Result Summary

Well ID:	Date:	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphthalene	TAA	TAME	TBA
MW-41	4/1/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/11/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/2/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/20/2016	26	3.2	510	15	<1	340	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/23/2018	10	330	210	680	<1	110	65 J	<10	<100
	2/21/2019	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<100	<10	<100
MW-42	4/1/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/12/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/2/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	<1	<1	0.31 J	<1	<1	<5	<100	<10	<100
	10/20/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	3.8	5.4	<1	4.9	<100	<10	<100
	1/23/2018	<1	0.41 J	57	48	<1	64	<100	<10	<100
MW-43	4/2/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/11/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/28/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/20/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/23/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-44	4/1/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/11/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/28/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/20/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/23/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-45	4/1/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/11/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/28/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/20/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/23/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-46	4/1/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/11/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/28/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/16/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/20/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/23/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-48	4/2/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/11/2014	Unable to Access - Locked Gate								
	5/29/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/3/2015	Unable to Access - Locked Gate								
	5/18/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/25/2016	Unable to Access - Locked Gate								
	6/26/2017	Unable to Access - Locked Gate								
	1/22/2018	Unable to Access - Locked Gate								
MW-49	4/2/2014	Unable to Access - Locked Gate								
	11/11/2014									
	5/29/2015									
	11/3/2015									
	5/15/2016									
	10/19/2016									
	6/26/2017									
	1/24/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100

Table 2

Facility Name: Handy Pantry #65 / University Mart & Clouds Chevron | UST | 07584 / 07777 / 12352

Address: 2367 Taylor Street Columbia, South Carolina | Crawford Project No. | 7.0547

Groundwater Laboratory Analytical Result Summary

Well ID:	Date:	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphthalene	TAA	TAME	TBA
MW-50	4/2/2014	Unable to Access - Locked Gate								
	11/11/2014									
	5/29/2015									
	11/3/2015									
	5/15/2016									
	10/19/2016									
	6/26/2017									
	1/24/2018									
MW-51	4/2/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/11/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/29/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/20/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/24/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-53	4/3/2014	<1	<1	<1	<1	<1	4.1	<100	<10	<100
	11/11/2014	<1	<1	<1	<1	<1	4.1	<100	<10	<100
	5/28/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/15/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/21/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/22/2018	<1	<1	0.36 J	<1	<1	<5	<100	<10	<100
MW-54	4/1/2014	<1	<1	<1	<1	9.6	<5	<100	6.700	<100
	11/11/2014	Unable to Locate								
	5/28/2015	<1	<1	<1	<1	6.4	<5	140	<10	<100
	11/4/2015	<1	<1	<1	<1	1.5	<5	<100	<10	<100
	5/18/2016	0.60 J	<1	<1	<1	5.0	<5	60 J	<10	<100
	10/20/2016	<1	<1	<1	<1	2.0	<5	130	<10	<100
	6/26/2017	Destroyed - Paved Over								
	1/23/2018	Destroyed - Paved Over								
	2/20/2019	Destroyed - Paved Over								
MW-55	4/3/2014	10	1	3.5	<1	24	3.9	98	6.400	<100
	11/11/2014	Unable to Locate								
	5/28/2015	1000	40	410	260	190	180	1700	15	<100
	11/4/2015	640	64	200	230	160	120	1200	11	56
	5/18/2016	950	44	320	210	220	130	2600	15	<100
	10/21/2016	1500	310	860	1100	210	240	6000	43	370
	6/27/2017	200	2.9	53	20	100	50	2000	15	<100
	1/22/2018	720	100	710	880	130	300	2800	11	<100
MW-56	4/3/2014	<1	<1	<1	<1	<1	<5	50	<10	<100
	11/11/2014	Unable to Locate								
	5/28/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/21/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/22/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-58	4/2/2014	Abandoned								
	11/11/2014									
	5/29/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/15/2016	Not Sampled due to Obstruction								
	10/19/2016									
	6/27/2017									
	1/24/2018									
	2/20/2019									
MW-59	4/2/2014	28	2.8	300	6.4	130	45	2600	42	160
	11/11/2014	81	3.6	730	14	91	96	4500	27	<100
	5/28/2015	1400	23	1100	620	89	290	3900	34	<100
	11/4/2015	1300	48	440	850	58	250	2800	19	<100
	5/18/2016	1900	51	950	760	96	260	4300	28	<100
	10/20/2016	2400	61	1400	2300	62	390	10000	63	300
	6/28/2017	2400	77	2000	3400	43	490	3600	32	<100
	1/22/2018	2500	130	1800	3100	35	530	4700	21	<100

Table 2

Facility Name: Handy Pantry #65 / University Mart & Clouds Chevron — UST — 07584 / 07777 / 12352

Address: 2367 Taylor Street Columbia, South Carolina — Crawford Project No. — 7.0547

Groundwater Laboratory Analytical Result Summary

Well ID:	Date:	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphthalene	TAA	TAME	TBA
MW-60	4/2/2014	Unable to Locate								
	11/11/2014									
	5/29/2015									
	11/3/2015									
	5/15/2016									
	10/19/2016									
	6/26/2017									
	1/22/2018									
MW-62	4/1/2014	0.86	<1	<1	<1	3	3.3	260	<10	<100
	11/12/2014	51	<1	<1	0.93	2.6	65	730	<10	<100
	5/29/2015	1.50-Feet of Free Product								
	12/17/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/15/2016	Not Sampled due to Obstruction								
	10/19/2016	Not Sampled due to Obstruction								
	6/27/2017	1.6	<1	<1	<1	0.69 J	2.4 J	93 J	<10	<100
	1/23/2018	33	<1	<1	<1	2.4	46	770	<10	<100
MW-63	4/2/2014	<1	<1	<1	<1	<1	5	120	<10	<100
	11/12/2014	Unable to Locate								
	5/29/2015	0.01-Feet of Free Product								
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/20/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/23/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-65	4/2/2014	Unable to Locate - Paved over								
	11/11/2014									
	5/29/2015									
	11/3/2015									
	5/15/2016									
	10/19/2016									
	6/26/2017									
	1/22/2018									
	2/20/2019									
MW-67	4/1/2014	<1	<1	<1	<1	<1	5	<100	<10	<100
	11/12/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/2/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/20/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/23/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-70	4/2/2014	<1	<1	<1	<1	<1	5	<100	<10	<100
	11/11/2014	<1	<1	<1	<1	<1	1.5	<100	<10	<100
	5/28/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	<1	<1	<1	0.44 J	<1	<5	<100	<10	<100
	10/20/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/23/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-5AR	4/1/2014	12000	13000	2400	13000	70	1000	<5000	160.000	<5000
	11/13/2014	830	180	98	670	13	130	<100	13.000	<100
	5/28/2015	2500	1200	280	1300	43	460	650	52.000	<100
	11/3/2015	5200	10000	810	5300	<100	580	<10000	<1000	<10000
	5/15/2016	7000	6400	1200	8000	<100	890	<10000	<1000	<10000
	10/21/2016	6300	3000	1100	7200	<50	1100	<5000	<500	<5000
	6/27/2017	1900	92	330	1400	2.3	390	220	13	<100
	1/24/2018	7000	320	960	2700	19	1100	2700	49	<100
	2/21/2019	3200	240	1000	4500	<1.0	650	250	26	<100
PW-1R	4/3/2014	460	3400	320	9200	<50	<250	710	<500	<5000
	11/13/2014	850	6900	580	18000	<50	1300	<5000	<500	<5000
	5/29/2015	0.01-Feet of Free Product								
	11/3/2015	830	20000	1200	14000	<500	600	<50000	<5000	<50000
	5/18/2016	210	1200	170	3200	6.8	200	380	<10	<100
	10/21/2016	410	5900	440	7200	<20	320	1900 J	<200	<2000
	6/28/2017	380	7900	510	9100	<50	320	<5000	<500	<5000
	1/24/2018	370	4300	480	13000	<100	340 J	<10000	<1000	<10000
	2/21/2019	200	2600	310	8100	<50	440	<5000	<500	<5000

Table 2

Facility Name: Handy Pantry #65 / University Mart & Clouds Chevron — UST — 07584 / 07777 / 12352

Address: 2367 Taylor Street Columbia, South Carolina — Crawford Project No. — 7.0547

Groundwater Laboratory Analytical Result Summary

Well ID:	Date:	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphthalene	TAA	TAME	TBA
DW-1	4/2/2014	0.45	1.2	1.7	7.2	<1.0	<5.0	<100	<10	<100
	11/10/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/29/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/16/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/21/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/28/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/22/2018	<1	<1	<1	<1	<1	1.4 J	<100	<10	<100
DW-2	4/2/2014	<1.0	<1.0	<1.0	<1.0	7.1	4.1	<100	<10	<100
	11/11/2014	<1	<1	<1	<1	10	<5	<100	<10	<100
	5/29/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	8.7	<5	<100	<10	<100
	5/16/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/21/2016	<1	<1	<1	<1	2.9	<5	<100	<10	<100
	6/28/2017	<1	<1	<1	<1	2.4	<5	<100	<10	<100
	1/22/2018	<1	<1	<1	<1	3.7	<5	<100	<10	<100
DW-3	4/3/2014	9800	22000	3700	17000	990	780	10000	190	<5000
	11/13/2014	2000	20000	2800	10000	23	650	2700	<20	<140
	5/28/2015	310	4000	79	3100	6.5	130	750	<10	<100
	11/3/2015	4300	16000	2300	11000	230	800	2600	50	<2000
	5/18/2016	2600	10000	1400	8200	160	410	<5000	<500	<5000
	10/21/2016	4200	8300	1800	5200	240	450 J	8200 J	<1000	<10000
	6/28/2017	3400	8600	1600	5200	120	310	3400 J	370 J	<5000
	1/24/2018	700	960	210	410	44	68	790	10	<100
	2/21/2019	540	3300	1300	5200	<1.0	410	1100	<10	<100
DW-4	4/3/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/13/2014	<1	1	<1	<1	<1	<5	<100	<10	<100
	6/2/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/3/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/21/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/28/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/24/2018	5.6	1.4	<1	<1	<1	<5	<100	<10	<100
DW-5	4/1/2014	3300	68	37	1000	940	81	4300	83	<100
	11/12/2014	6700	380	240	3100	1400	190	5300	110	<100
	5/28/2015	6900	660	420	3800	1200	290	6300	<500	<5000
	11/4/2015	5900	490	200	1800	1100	170	4800	89	<100
	5/16/2016	9200	1600	750	5300	1400	470	4300	95 J	<100
	10/25/2016	5700	1200	460	2800	1000	200 J	17000	<1000	<10000
	6/28/2017	5200	1400	380	2400	890	130 J	7200	390 J	<5000
	1/24/2018	9400	3300	970	5300	1000	340	10000	<500	<5000
DW-6	4/1/2014	8.5	1.2	1.6	7.2	3	5	<100	<10	<100
	11/12/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/2/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/25/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/28/2017	<1	<1	0.37 J	<1	<1	<5	<100	<10	<100
	1/23/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100
DW-7	4/3/2014	0.52	0.46	<1.0	1.4	2.6	4.2	<100	<10	<100
	11/11/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/28/2015	<1	<1	<1	<1	1.2	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/21/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/26/2017	Destroyed - Paved Over								
	1/24/2017	Destroyed - Paved Over								
DW-8	4/2/2014	Abandoned								
	11/11/2014									
	5/29/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	Not Sampled due to Obstruction								
	10/21/2016	Not Sampled due to Obstruction								
	6/26/2017	Not Sampled due to Obstruction								
	1/24/2018	Not Sampled due to Obstruction								

Table 2

Facility Name: Handy Pantry #65 / University Mart & Clouds Chevron — UST — 07584 / 07777 / 12352

Address: 2367 Taylor Street Columbia, South Carolina — Crawford Project No. — 7.0547

Groundwater Laboratory Analytical Result Summary

Well ID:	Date:	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphthalene	TAA	TAME	TBA
DW-9	4/2/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/11/2014	<1	2.8	<1	<1	<1	<5	<100	<10	<100
	5/28/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	<1	42	<1	<1	<1	<5	<100	<10	<100
	10/21/2016	<1	<1	<1	<1	3.1	<5	<100	<10	<100
	6/28/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/22/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100
SW-1	4/2/2014	180	8.4	30	53	42	6.5	350	9.500	100
	11/12/2014	Unable to Access - Overgrown Brush								
	5/28/2015	230	18	89	160	30	24	590	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	44	<10	<100
	5/18/2016	130	18	53	92	12	16	430	<10	<100
	10/19/2016	Unable to Access - Overgrown Brush								
	2/21/2019	80	1.0	61	26	3.5	12	240	<10	<100
QUALITY CONTROL DATA										
Dup 1 (MW-15)	2/20/2019	<10	7.2 J	18	1500	<10	300	<1000	<100	<1000
Dup 2 (MW-31)	2/21/2019	<1.0	<1.0	<1.0	<1.0	<1.0	2.6 J	<100	<10	<100
Trip Blank	2/20/2019	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<100	<10	<100

BDL= Below Detectable Limit

RBSL= Risk Based Screening Levels

NE= Not Established

CRAWFORD ENVIRONMENTAL SERVICES

1,2 DCA = 1,2 Dichloroethane

J = Estimated value detected below reporting limit

Table 3

Facility Name:	Handy Pantry #65 / University Mart & Clouds Chevron	UST	07584 / 07777 / 12352
Address:	2367 Taylor Street Columbia, South Carolina	Crawford Project No.	7.0547

Site Specific Target Level Summary

Well ID:	Item	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphth	TAA	TAME	TBA	Total	Notes
MW-2	Initial	140.0	280.0	56.0	460.0	380.0	54.0	200.0	9.2	140.0	1719.2	
	SSTL	77.0	280.0	56.0	460.0	380.0	54.0	200.0	9.2	140.0	1656.2	
	Initial > SSTL	63.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63.0	
	Subsequent	120	4.6	180	290	110	120	73	10	100	1007.6	
	SSTL	77.0	280.0	56.0	460.0	380.0	54.0	200.0	9.2	140.0	1656.2	
	Subsequent > SSTL	43.0	0.0	124.0	0.0	0.0	66.0	0.0	0.8	0.0	233.8	
MW-3	Initial	3000.0	7400.0	260.0	4500.0	3300.0	260.0	2000.0	340.0	1300.0	22360.0	
	SSTL	111.0	7400.0	260.0	4500.0	1976.0	108.0	2000.0	340.0	1300.0	17995.0	
	Initial > SSTL	2889.0	0.0	0.0	0.0	1324.0	152.0	0.0	0.0	0.0	4365.0	
	Subsequent	5390	21000	1500	17000	520	1500	50000	5000	50000	151926.5	
	SSTL	111.0	7400.0	260.0	4500.0	1976.0	108.0	2000.0	340.0	1300.0	17995.0	
	Subsequent > SSTL	5189.0	13600.0	1240.0	12500.0	0.0	1492.0	48000.0	4660.0	48700.0	135381.0	
MW-5	Initial	50.0	50.0	50.0	30.5	946.0	50.0	1000.0	100.0	1000.0	3276.5	Dry February 2019 - Results from 5/18/2016
	SSTL	50.0	50.0	50.0	30.5	946.0	50.0	1000.0	100.0	1000.0	3276.5	
	Initial > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Subsequent	0.29	1.0	1.0	1.0	1.0	5.0	100.0	10.0	100.0	219.3	
	SSTL	50.0	50.0	50.0	30.5	946.0	50.0	1000.0	100.0	1000.0	3276.5	
	Subsequent > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MW-9	Initial	4100.0	27000.0	2500.0	19000.0	150.0	960.0	1800.0	2000.0	20000.0	77310.0	
	SSTL	35.0	7134.0	2500.0	19000.0	150.0	68.0	809.0	270.0	15628.0	45694.0	
	Initial > SSTL	4065.0	19866.0	0.0	0.0	0.0	892.0	791.0	1730.0	4372.0	31716.0	
	Subsequent	130	2100	720	5700	1.0	340	280	10	100	9381.0	
	SSTL	35.0	7134.0	2500.0	19000.0	150.0	68.0	809.0	270.0	15628.0	45694.0	
	Subsequent > SSTL	95.0	0.0	0.0	0.0	0.0	272.0	0.0	0.0	0.0	367.0	
MW-10	Initial	740.0	7800.0	2500.0	15000.0	2500.0	950.0	50000.0	5000.0	50000.0	134490.0	
	SSTL	24.0	7800.0	2500.0	15000.0	294.0	53.0	793.0	707.0	11042.0	38213.0	
	Initial > SSTL	716.0	0.0	0.0	0.0	2206.0	897.0	49207.0	4293.0	38958.0	96277.0	
	Subsequent	19	5.3	120	420	1.0	170	190	10	100	945.3	
	SSTL	24.0	7800.0	2500.0	15000.0	294.0	53.0	793.0	707.0	11042.0	38213.0	
	Subsequent > SSTL	0.0	0.0	0.0	0.0	0.0	117.0	0.0	0.0	0.0	117.0	
MW-12	Initial	1.7	5.0	11.0	5.0	5.6	4.7	370.0	1.5	19.0	423.5	NS February 2019 - Results from 10/20/2016
	SSTL	1.7	5.0	11.0	5.0	5.6	4.7	370.0	1.5	19.0	423.5	
	Initial > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	
	Subsequent	180	18	420	300	13	110	4000	10	100	5151.0	
	SSTL	1.7	5.0	11.0	5.0	5.6	4.7	370.0	1.5	19.0	423.5	
	Subsequent > SSTL	179.3	13.0	409.0	295.0	7.4	105.3	3630.0	8.5	81.0	4727.5	
MW-16	Initial	Free Product										
	SSTL	16.9	3198.0	3700.0	21680.0	730.0	45.0	492.0	198.0	5838.0	36898.0	
	Initial > SSTL											
	Subsequent	10	9.8	30	1700	10	380	1000	100	1000	4239.8	
	SSTL	16.9	3198.0	3700.0	21680.0	730.0	45.0	492.0	198.0	5838.0	36898.0	
	Subsequent > SSTL	0.0	0.0	0.0	0.0	0.0	335.0	508.0	0.0	0.0	843.0	

Table 3

Facility Name:	Handy Pantry #65 / University Mart & Clouds Chevron	UST	07584 / 07777 / 12352
Address:	2367 Taylor Street Columbia, South Carolina	Crawford Project No.	7.0547

Site Specific Target Level Summary

Well ID:	Item	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphth	TAA	TAME	TBA	Total	
MW-17	Initial	1400.0	26900.0	2590.0	23000.0	1000.0	1000.0	9400.0	2000.0	20000.0	86390.0	
	SSTL	32.0	6631.0	2590.0	21680.0	1000.0	86.0	773.0	263.0	14286.0	47231.0	
	Initial > SSTL	1368.0	19369.0	0.0	1320.0	0.0	934.0	8627.0	1737.0	5714.0	39069.0	
	Subsequent	8.3	20	72	150	1.0	50	59	10	100	470.3	
	SSTL	32.0	6631.0	2590.0	21680.0	1000.0	86.0	773.0	263.0	14286.0	47231.0	
	Subsequent > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MW-18	Initial	1900.0	7200.0	830.0	8900.0	340.0	370.0	4900.0	70.0	5000.0	28710.0	
	SSTL	40.0	19326.0	3700.0	21680.0	4260.0	348.0	938.0	4589.0	54462.0	109743.0	
	Initial > SSTL	1860.0	0.0	0.0	0.0	0.0	22.0	3962.0	0.0	0.0	5844.0	
	Subsequent	360	1100	120	2500	1.0	73	1400	10	100	5884.0	
	SSTL	40.0	19326.0	3700.0	21680.0	4260.0	348.0	938.0	4589.0	54462.0	109743.0	
	Subsequent > SSTL	320.0	0.0	0.0	0.0	0.0	0.0	462.0	0.0	0.0	782.0	
MW-19	Initial	300.0	1800.0	480.0	12000.0	50.0	800.0	610.0	500.0	5000.0	21650.0	
	SSTL	64.9	11081.0	3700.0	21680.0	16080.0	86.0	1065.0	320.0	26814.0	80890.0	
	Initial > SSTL	246.0	0.0	0.0	0.0	0.0	814.0	0.0	180.0	0.0	1240.0	
	Subsequent	2100	19000	1300	19000	500	2500	50000	5000	50000	149400.0	
	SSTL	64.9	11081.0	3700.0	21680.0	16080.0	86.0	1065.0	320.0	26814.0	80890.0	
	Subsequent > SSTL	2046.0	7919.0	0.0	0.0	0.0	2414.0	48935.0	4680.0	23186.0	89180.0	
MW-20	Initial	412.0	2930.0	728.0	9820.0	88.7	817.0	2959.0	200.0	2000.0	19845.7	
	SSTL	83.0	2830.0	728.0	8820.0	88.7	108.0	1403.0	200.0	2000.0	16360.7	
	Initial > SSTL	329.0	0.0	0.0	0.0	0.0	709.0	1447.0	0.0	0.0	2485.0	
	Subsequent	1900	6200	1300	19000	50	1100	1700	500	5000	36750.0	
	SSTL	83.0	2830.0	728.0	8820.0	88.7	108.0	1403.0	200.0	2000.0	16360.7	
	Subsequent > SSTL	1817.0	3270.0	572.0	10180.0	0.0	992.0	297.0	300.0	3000.0	20428.0	
MW-22	Initial	3300.0	17000.0	2590.0	20000.0	1000.0	640.0	6200.0	130.0	20000.0	71170.0	
	SSTL	90.0	17000.0	2590.0	20000.0	1000.0	112.0	1469.0	130.0	20000.0	62701.0	
	Initial > SSTL	3210.0	0.0	0.0	0.0	0.0	528.0	4731.0	0.0	0.0	8469.0	
	Subsequent	2800	7400	170	20000	50	960	2300	500	5000	39180.0	
	SSTL	90.0	17000.0	2590.0	20000.0	1000.0	112.0	1469.0	130.0	20000.0	62701.0	
	Subsequent > SSTL	2710.0	0.0	0.0	0.0	0.0	848.0	831.0	370.0	0.0	4759.0	
MW-23	Initial	4200.0	16000.0	880.0	19000.0	120.0	1100.0	5900.0	500.0	5000.0	52700.0	
	SSTL	72.9	14880.0	3700.0	21680.0	33368.0	100.0	1279.0	359.0	38475.0	113913.0	
	Initial > SSTL	4128.0	1120.0	0.0	0.0	0.0	1000.0	4621.0	141.0	0.0	11010.0	
	Subsequent	1600	6700	400	6800	50	720	1800	600	6000	23870.0	
	SSTL	72.9	14880.0	3700.0	21680.0	33368.0	100.0	1279.0	359.0	38475.0	113913.0	
	Subsequent > SSTL	1428.0	0.0	0.0	0.0	0.0	620.0	321.0	141.0	0.0	2510.0	
MW-25	Initial	5000.0	3000.0	1900.0	23000.0	5000.0	5000.0	100000.0	10000.0	100000.0	252900.0	
	SSTL	104.0	3000.0	1900.0	23000.0	5000.0	121.0	1612.0	415.0	60494.0	95646.0	
	Initial > SSTL	4896.0	0.0	0.0	0.0	0.0	4879.0	98388.0	9585.0	39506.0	157254.0	N5 February 2018 - Results from 10/18/2016
	Subsequent	10	200	270	4700	1	520	680	10	100	6491.0	
	SSTL	104.0	3000.0	1900.0	23000.0	5000.0	121.0	1612.0	415.0	60494.0	95646.0	
	Subsequent > SSTL	0.0	0.0	0.0	0.0	0.0	399.0	0.0	0.0	0.0	399.0	

Table 3

Facility Name:	Handy Pantry #65 / University Mart & Clouds Chevron	UST	07584 / 07777 / 12352
Address:	2367 Taylor Street Columbia, South Carolina	Crawford Project No.	7.0547

Site Specific Target Level Summary

Well ID:	Item	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphth	TAA	TAME	TBA	Total	
MW-31	Initial	57.0	90.0	620.0	260.0	12.0	210.0	610.0	50.0	500.0	2199.0	
	SSTL	61.0	90.0	620.0	260.0	12.0	210.0	610.0	50.0	500.0	2193.0	
	Initial > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	
	Subsequent	1.0	1.0	1.0	1.0	1.0	2.8	100	10	100	217.8	
	SSTL	61.0	90.0	620.0	260.0	12.0	210.0	610.0	50.0	500.0	2193.0	
	Subsequent > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MW-33	Initial	520.0	7200.0	1590.0	7200.0	500.0	410.0	3200.0	1000.0	10000.0	31530.0	
	SSTL	53.0	7200.0	1590.0	7200.0	500.0	410.0	1136.0	1000.0	10000.0	28999.0	
	Initial > SSTL	467.0	0.0	0.0	0.0	0.0	0.0	2064.0	0.0	0.0	2531.0	
	Subsequent	61	2100	920	4800	1.0	370	620	10	100	8882.0	
	SSTL	53.0	7200.0	1590.0	7200.0	500.0	410.0	1136.0	1000.0	10000.0	28999.0	
	Subsequent > SSTL	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	
MW-35	Initial	4400.0	2000.0	1790.0	3600.0	390.0	580.0	5300.0	51.0	5000.0	22831.0	
	SSTL	56.0	2000.0	1790.0	3600.0	390.0	542.0	1181.0	51.0	5000.0	14330.0	
	Initial > SSTL	4344.0	0.0	0.0	0.0	0.0	38.0	4119.0	0.0	0.0	8501.0	
	Subsequent	1100	2400	1560	3800	17	670	1900	10	100	11197.0	
	SSTL	56.0	2000.0	1790.0	3600.0	390.0	542.0	1181.0	51.0	5000.0	14330.0	
	Subsequent > SSTL	1044.0	400.0	0.0	100.0	0.0	128.0	619.0	0.0	0.0	2291.0	
MW-37	Initial	240.0	34.0	270.0	240.0	11.0	220.0	850.0	50.0	44.0	1959.0	
	SSTL	90.0	34.0	270.0	240.0	11.0	220.0	850.0	50.0	44.0	1809.0	
	Initial > SSTL	150.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	150.0	
	Subsequent	1.0	1.0	1.0	1.0	1.0	2.8	100	10	100	217.8	
	SSTL	90.0	34.0	270.0	240.0	11.0	220.0	850.0	50.0	44.0	1809.0	
	Subsequent > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	56.0	56.0	
MW-39	Initial	13.0	1300.0	480.0	4200.0	250.0	330.0	5000.0	500.0	5000.0	17053.0	
	SSTL	13.0	1300.0	480.0	4200.0	250.0	330.0	1607.0	500.0	5000.0	13660.0	
	Initial > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	3393.0	0.0	0.0	3393.0	NS February 2019 - Results from 1/23/2019
	Subsequent	0.48	220	480	2000	1	370	56	10	100	3237.5	
	SSTL	13.0	1300.0	480.0	4200.0	250.0	330.0	1607.0	500.0	5000.0	13660.0	
	Subsequent > SSTL	0.0	0.0	20.0	0.0	0.0	40.0	0.0	0.0	0.0	60.0	
MW-40	Initial	290.0	2900.0	850.0	7100.0	590.0	530.0	10000.0	1000.0	10000.0	32970.0	
	SSTL	113.0	2900.0	660.0	7100.0	590.0	530.0	1876.0	1000.0	10000.0	24669.0	
	Initial > SSTL	177.0	0.0	0.0	0.0	0.0	0.0	8124.0	0.0	0.0	8301.0	
	Subsequent	1.0	1.0	1.0	1.0	1.0	5.0	100	10	100	220.0	
	SSTL	113.0	2900.0	850.0	7100.0	590.0	530.0	1876.0	1000.0	10000.0	24669.0	
	Subsequent > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MW-41	Initial	260.0	1000.0	1100.0	1000.0	1000.0	420.0	20000.0	2000.0	20000.0	46780.0	
	SSTL	257.0	1000.0	1100.0	1000.0	1000.0	420.0	3234.0	2000.0	20000.0	30011.0	
	Initial > SSTL	3.0	0.0	0.0	0.0	0.0	0.0	16766.0	0.0	0.0	16769.0	
	Subsequent	1.0	1.0	1.0	1.0	1.0	5.0	100	10	100	220.0	
	SSTL	257.0	1000.0	1100.0	1000.0	1000.0	420.0	3234.0	2000.0	20000.0	30011.0	
	Subsequent > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

Table 3

Facility Name:	Handy Pantry #65 / University Mart & Clouds Chevron	UST	07584 / 07777 / 12352
Address:	2367 Taylor Street Columbia, South Carolina	Crawford Project No.	7.0547

Site Specific Target Level Summary

Well ID:	Item	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphth	TAA	TAME	TBA	Total	
MW-54	Initial	5.0	5.0	5.0	5.0	5.0	5.0	100.0	10.0	100.0	240.0	NS February 2019 - Results from 10/20/2016
	SSTL	5.0	5.0	5.0	5.0	5.0	5.0	110.0	2.0	14.0	156.0	
	Initial > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	86.0	94.0	
	Subsequent	1	1	1	1	2	5	130	10	100	251.0	
	SSTL	5.0	5.0	5.0	5.0	5.0	5.0	110.0	2.0	14.0	156.0	
	Subsequent > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	20.0	8.0	86.0	114.0	
MW-58	Initial	4.8	25.0	29.0	25.0	93.0	11.0	1800.0	15.0	100.0	2083.8	NS February 2019 - Results from 11/4/2015
	SSTL	4.8	25.0	29.0	25.0	51.0	11.0	279.0	15.0	100.0	539.8	
	Initial > SSTL	0.0	0.0	0.0	0.0	42.0	0.0	1521.0	0.0	0.0	0.0	
	Subsequent	1	1	1	1	1	5	100	10	100	220.0	
	SSTL	1.0	1.0	1.0	1.0	1.0	5.0	100.0	10.0	100.0	220.0	
	Subsequent > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MW-85	Initial	420.0	398.0	234.0	262.0	16.4	168.0	648.0	50.0	500.0	2895.4	Unable to Locate - Paved Over
	SSTL	326.0	398.0	234.0	262.0	16.4	168.0	648.0	50.0	500.0	2602.4	
	Initial > SSTL	94.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Subsequent	Unable to Locate - Paved Over										
	SSTL	326.0	398.0	234.0	262.0	16.4	168.0	648.0	50.0	500.0	2602.4	
	Subsequent > SSTL	Unable to Locate - Paved Over										
MW-SAR	Initial	9200.0	1000.0	1400.0	4400.0	160.0	810.0	1300.0	1000.0	10000.0	29270.0	
	SSTL	83.0	1000.0	1400.0	4400.0	160.0	108.0	1300.0	381.0	10000.0	18832.0	
	Initial > SSTL	9117.0	0.0	0.0	0.0	0.0	702.0	0.0	619.0	0.0	10438.0	
	Subsequent	3200	240	1000	4500	1.0	650	250	26	100	9967.0	
	SSTL	83.0	1000.0	1400.0	4400.0	160.0	108.0	1300.0	381.0	10000.0	18832.0	
	Subsequent > SSTL	3117.0	0.0	0.0	100.0	0.0	542.0	0.0	0.0	0.0	3759.0	
PW-1R	Initial	460.0	3400.0	320.0	9200.0	50.0	250.0	710.0	500.0	5000.0	19890.0	
	SSTL	58.0	11928.0	3700.0	21680.0	290.0	19236.0	1114.0	330.0	29344.0	87742.0	
	Initial > SSTL	402.0	0.0	0.0	0.0	0.0	0.0	0.0	170.0	0.0	572.0	
	Subsequent	200	2800	310	8100	50	440	9000	800	8000	22200.0	
	SSTL	58.0	11928.0	3700.0	21680.0	290.0	19236.0	1114.0	330.0	29344.0	87742.0	
	Subsequent > SSTL	142.0	0.0	0.0	0.0	0.0	0.0	3896.0	170.0	0.0	4196.0	
DW-3	Initial	2600.0	19000.0	2200.0	10000.0	1000.0	620.0	3600.0	2000.0	20000.0	61020.0	
	SSTL	45.0	8470.0	2200.0	10000.0	1000.0	620.0	3600.0	2000.0	20000.0	47935.0	
	Initial > SSTL	2555.0	10530.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13085.0	
	Subsequent	540	3300	1300	5200	1.0	410	1100	10	100	11961.0	
	SSTL	45.0	8470.0	2200.0	10000.0	1000.0	620.0	3600.0	2000.0	20000.0	47935.0	
	Subsequent > SSTL	495.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	495.0	
SW-1	Initial	130.0	2.8	23.0	36.0	17.0	6.5	340.0	2.8	23.0	580.9	
	SSTL	5.0	2.8	23.0	36.0	17.0	6.5	240.0	2.8	23.0	365.9	
	Initial > SSTL	125.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	225.0	
	Subsequent	60	1.0	61	28	3.5	12	240	10	100	533.5	
	SSTL	5.0	2.8	23.0	36.0	17.0	6.5	240.0	2.8	23.0	365.9	
	Subsequent > SSTL	75.0	0.0	38.0	0.0	0.0	5.5	0.0	7.4	77.0	202.9	

SSTL = Site Specific Target Level
RBSL= Risk Based Screening Levels
MtBE= Methyl Tert-Butyl Ether
n/a = not applicable
0.0 - Excluded from Calculations

CRAWFORD ENVIRONMENTAL SERVICES

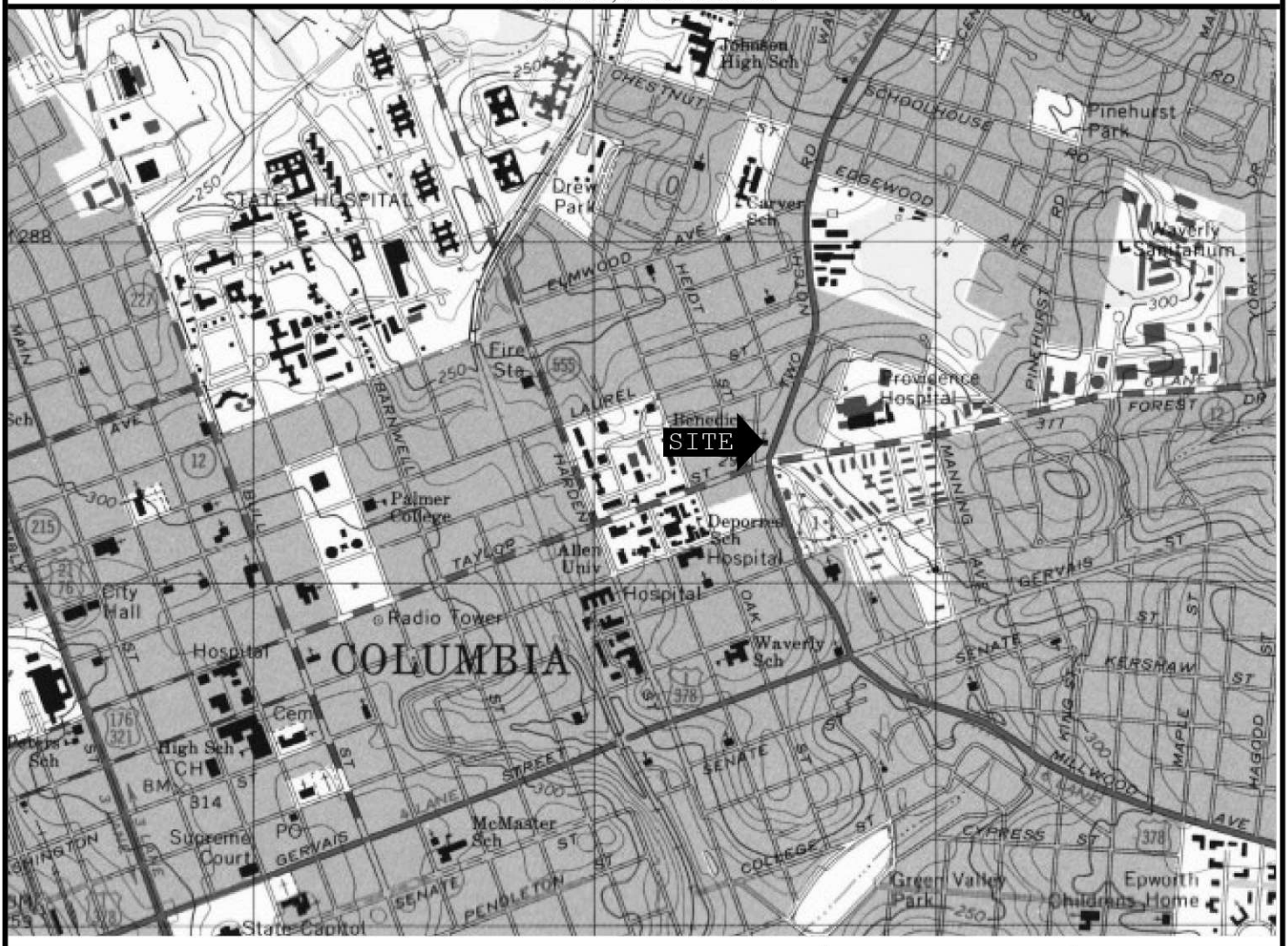
Initial>SSTL	421858.00
Subsequent>SSTL	270088.20
COC Reduction	35.98%

Figures

Figure 1: Topographic Map
Figure 2: Site Facility Base Map
Figure 3: Chemicals of Concern Map
Figure 4: Groundwater Elevation Map

FIGURE 1

Site Location Map
Handy Pantry #65 / University Mart / Clouds Chevron
Intersection of Taylor Street and Two Notch Road
Columbia, South Carolina



CRAWFORD ENVIRONMENTAL SERVICES

1701 Shenandoah Avenue, NW
Roanoke Virginia, 24017

540-343-6256 (office) 540-343-6259 (fax)

NORTH COLUMBIA, SOUTH CAROLINA

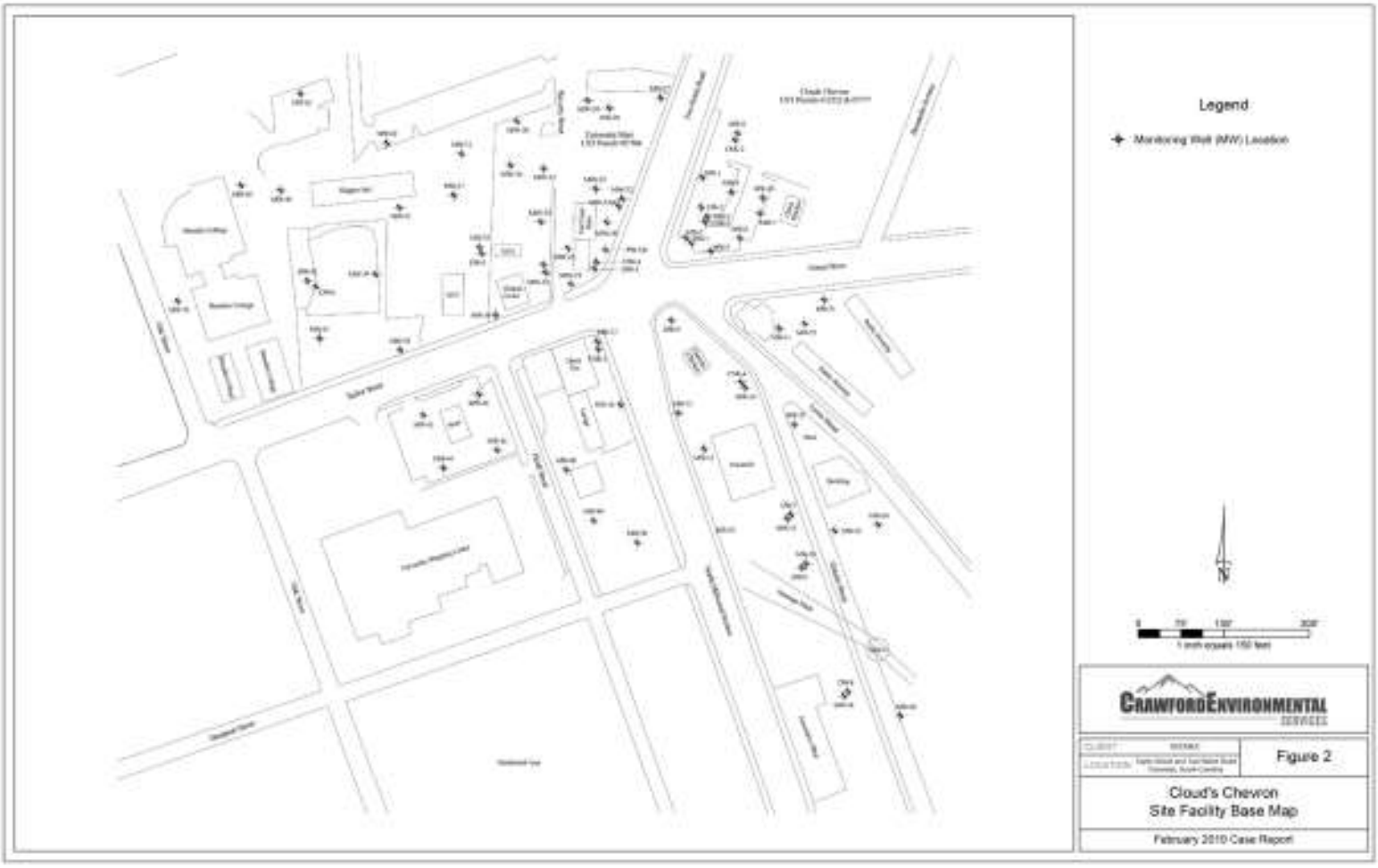
Source: U.S.G.S. Topographic Map of the Columbia North Quadrangle, Virginia, 7.5 Minute Series (1977, revised 1988)
Scale: 1:24,000 Contour Interval: 20 Feet
Vertical Datum: National Geodetic Vertical Datum 1929
Horizontal Datum: North American Datum1927

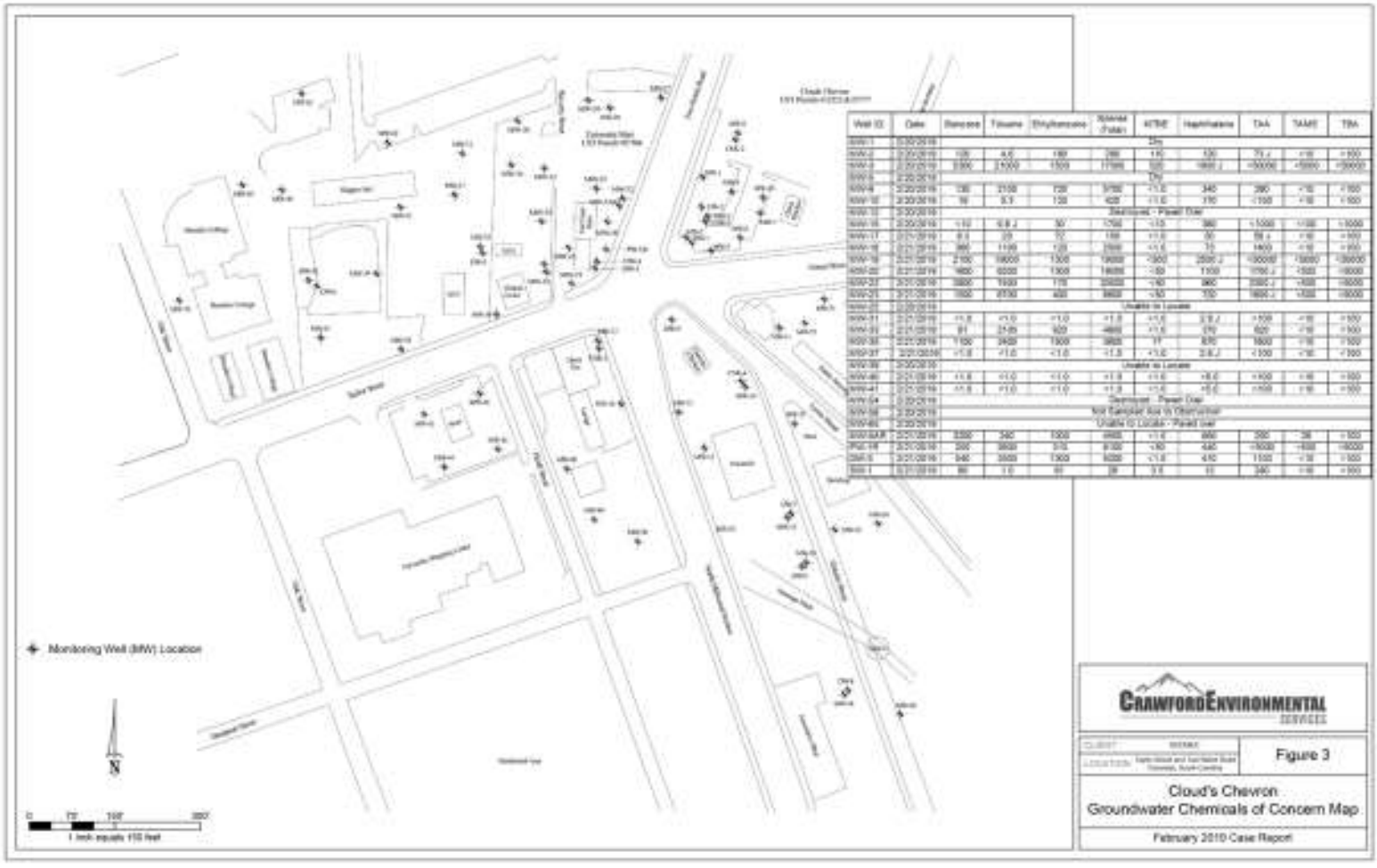
Project: February 2019 CASE Report

Client: SCDHEC

CES Job #: 7.0547

Latitude: 034°00'42.72"N
Longitude: 081°01'00.13"W


Legend
Monitoring Well (MW) Location
N
1 inch equals 150 feet
CRAWFORD ENVIRONMENTAL SERVICES
Figure 2
Cloud's Chevron
Site Facility Base Map
February 2010 Case Report



Well ID	Date	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphthalene	TAA	TAME	TBA
MW-1	2/20/2019	Dry								
MW-2	2/20/2019	120	4.6	180	280	1.0	120	72 J	<10	<100
MW-3	2/20/2019	2,000	2,500	1,500	11,000	520	1,600 J	<50,000	<5,000	<50,000
MW-4	2/20/2019	Dry								
MW-5	2/20/2019	130	2,100	720	3,700	<1.0	340	280	<10	<100
MW-10	2/20/2019	16	5.3	120	420	<1.0	370	<100	<10	<100
MW-12	2/20/2019	Destroyed - Paved Over								
MW-16	2/20/2019	<10	10 J	30	1,700	<10	360	<1,000	<100	<1,000
MW-17	2/21/2019	8.6	23	72	130	<1.0	50	58 J	<10	<100
MW-18	2/21/2019	360	1100	120	2500	<1.0	10	1400	<10	<100
MW-19	2/21/2019	2100	19000	1300	19000	<200	2500 J	<20000	<2000	<20000
AW-22	2/21/2019	1400	6000	1300	14000	<50	1100	1700 J	<500	<5000
MW-23	2/21/2019	3800	7100	170	22000	<40	960	2300 J	<400	<4000
MW-25	2/21/2019	1500	6700	400	9900	<40	720	1600 J	<400	<4000
MW-27	2/20/2019	Unable to Locate								
MW-31	2/21/2019	<1.0	<1.0	<1.0	<1.0	<1.0	2.6 J	<100	<10	<100
MW-33	2/21/2019	91	21.00	920	4800	<1.0	670	820	<10	<100
MW-35	2/21/2019	1,100	3400	1300	3800	17	830	1800	<10	<100
MW-37	2/21/2019	<1.0	<1.0	<1.0	<1.0	<1.0	2.6 J	<100	<10	<100
MW-39	2/20/2019	Unable to Locate								
MW-40	2/21/2019	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<100	<10	<100
MW-41	2/21/2019	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<100	<10	<100
MW-54	2/20/2019	Destroyed - Paved Over								
MW-58	2/20/2019	Not Sampled due to Obstruction								
MW-60	2/20/2019	Unable to Locate - Paved over								
DW-SAR	2/21/2019	2,500	240	1300	4900	<1.0	660	200	28	<100
PW-1R	2/21/2019	200	3800	370	8100	<50	430	<5000	<500	<5000
DW-5	2/21/2019	940	3900	1300	9200	<1.0	410	1100	<10	<100
SW-1	2/21/2019	80	1.0	60	28	3.6	11	280	<10	<100

CRAWFORD ENVIRONMENTAL SERVICES

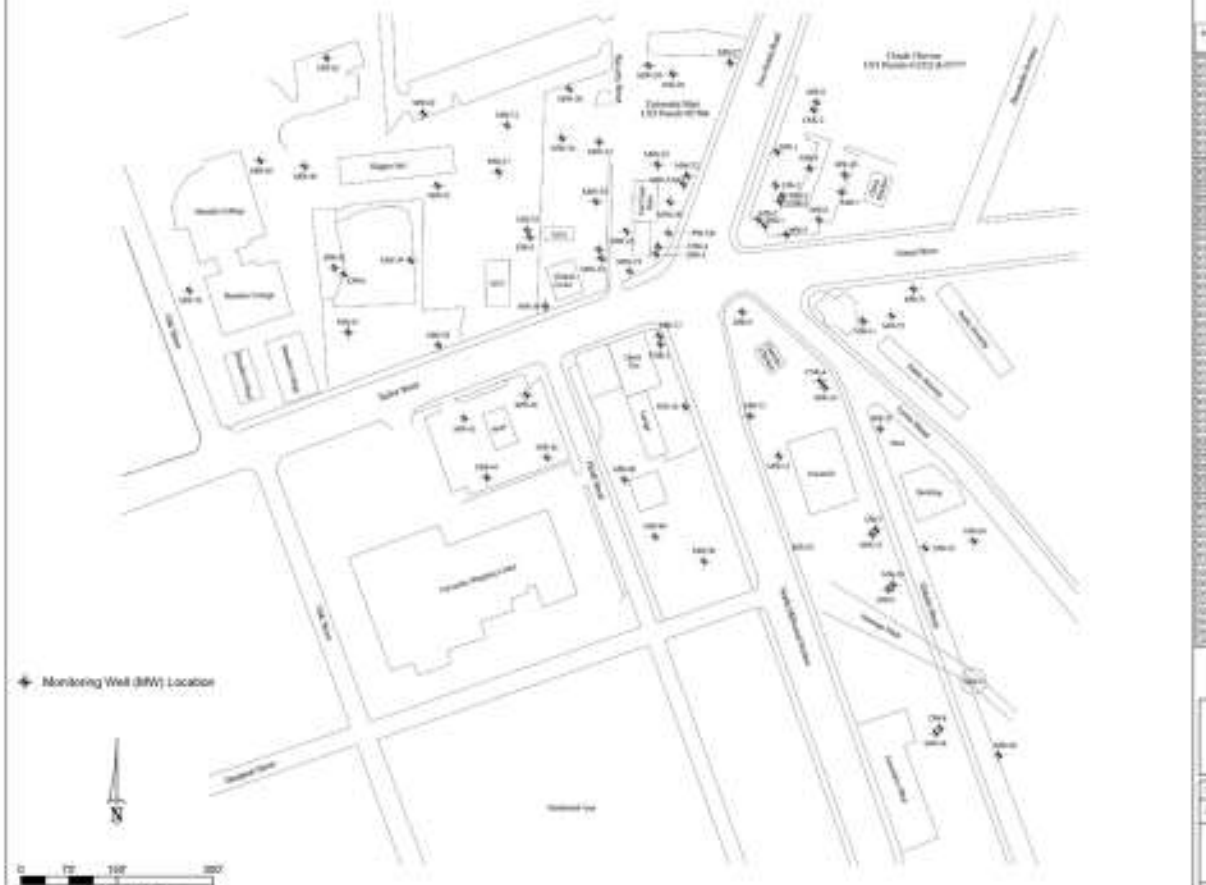
CLIENT: Cloud's Chevron

LOCATION: 1301 Wood and Sanitation Road, Conway, South Carolina

Figure 3

Cloud's Chevron
Groundwater Chemicals of Concern Map

February 2019 Case Report


Monitoring Well (MW) Location
N
0
75'
150'
300'
1 inch equals 150 feet

Appendix A

Groundwater Laboratory Analytical Report

&

Chain-of-Custody Documentation

ACCESS ANALYTICAL, INC.

ANALYTICAL REPORT

CLIENT

Crawford Environmental Services
1701 Shenandoah Ave
Roanoke VA 24011

ATTENTION
Dan Fisher

PROJECT ID
Clouds Exxon

LABORATORY REPORT NUMBER
1902N48

DATE
March 04, 2019

Primary Data Review By

Chris Pafford
Project Manager, AES

Secondary Data Review By

Ashley Amick
Project Manager, Access Analytical
aamick@axs-inc.com

PLEASE NOTE:

- **Unless otherwise noted, all analysis on this report performed at Analytical Environmental Services Inc. (AES Inc), 3080 Presidential Drive, Atlanta, GA 30340.**
- **AES is SCDHEC certified laboratory # 98016, NCDENR certified lab # 562, GA certified lab # FL-E87582, NELAP certified laboratory # E87582**
- **AIHA-LAP,LLC Laboratory ID:100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination.**
- Local support services for this project are provided by Access Analytical, Inc. Access Analytical is a representative of AES serving client in the SC/NC/GA areas. All questions regarding this report should be directed to your local Access Analytical representative at 803.781.4243 or toll fee at 883.315.4243

Access Lab Report #: _____

Sub Lab (if applicable): _____ / Sub Report #: _____

PO#: _____

ACCESS ANALYTICAL, INC.

15 Thames Valley Rd.
Irmo, SC 29063
Phone: 803-781-4243
Web: www.axs-inc.com

1902N48

Chain of Custody Record

Client:	CRAWFORD ENVIRO	Preservatives (see codes):	1
Attn:	DAN Fisher	Bottle Types (see codes):	6
Address:	701 Shenandoah AVE		
City:	Roanoke	State: VA	Zip Code: 24017
Phone:		Fax:	
Email:	DFisher@CrawFord Enviro mail		
Project ID:	Clouds Exxon		
Sampled By:	Billy Emery		

Preservation Codes / Bottle Types:

*Preservative Codes:
0 = None, 1 = HCL, 2 = HNO_3, 3 = H_2SO_4, 4 = NaOH, 5 = $Na_2S_2O_3$, 6 = Method 5035 set w/ $NaHSO_4$ & CH_3OH, 7 = NaOH/ZnOAC, 8 = H_3PO_4, 9 = cooled to 58°C, 10 = cooled to 530°C, 11 = Amm.Cl, 12 = Ascorbic Acid / HCL, 13 = EDA

*Matrix Codes:
GW = ground water, WW = waste water, DW = drinking water, SW = surface/storm water, S = soil, SL = sludge, A = air, IW = industrial waste, O = other (specify in comments section)
NA = for non-regulatory samples

*Program Area Codes:
CWA = Clean Water Act (for wastewaters), SDWA = Safe Drinking Water Act (for drinking water), SHW = Solid and Hazardous Wastes (for soils, ground waters and waste samples)

*Container Type: G = Glass, P = Plastic

Lab ID:	Sample Name:	Date Collected:	Time Collected:	U-Grab Cr Cores	Matrix (see codes)	Program Area (see codes)	Total # Containers	REQUESTED LAB ANALYSIS	BTEX/N/m/pva/dry							Notes / Comments
	mw 2	2-20-19	1345	G	GW	UST	3	# Containers per Test >>	3							
	mw 3		1355					# Containers per Test >>								
	mw 9		1410					# Containers per Test >>								
	mw 10		1420					# Containers per Test >>								
	mw 15		1430					# Containers per Test >>								
	Dup1		1435					# Containers per Test >>								
	mw 22	2-21-19	800					# Containers per Test >>								
	mw 5AR		810					# Containers per Test >>								
	mw-20		820					# Containers per Test >>								
	PW-1R		835					# Containers per Test >>								

Auto Sampler Data (composite samples only):

Date/Time On: _____ by whom: _____ Meter Reading Before: _____ Meter Reading After: _____ Difference: _____

Date/Time Off: _____ by whom: _____ X _____ (factor): _____

Turnaround Time Requested:		Project Location		Relinquished By:	Received By:	Date:	Time (24hr):	Samples Received on Ice:
Standard	X	SC	X	William Emery	[signature]	2/22/19	1120	X Y N N/A
*Date Required		NC		MEV	Fedex	2/25/19	1700	Y N N/A
Rush data emailed/faxed by the end of business day on date required. Standard TAT is 7-10 business days.		Other (Specify):		Fedex				Y N N/A
				Received in lab by: Essence Moore	(4.3°C)	2/26	10:09	Y N N/A

Chain of Custody Page 1 of 3

Sample Temp. Upon Receipt in Lab: 3.0 °(C)

White Copy: Lab original / Canary Copy: File Copy / Pink Copy: Client Copy

NOTE: Relinquishing samples via this Chain of Custody document constitutes client acceptance of Access Analytical terms and conditions.

Access Lab Report #: _____

Sub Lab (if applicable): _____ / Sub Report #: _____

PO#: _____

ACCESS ANALYTICAL, INC.

15 Thames Valley Rd.
Irmo, SC 29063
Phone: 803-781-4243
Web: www.axs-inc.com

1902N48

Chain of Custody Record

Client:	CRAWFORD ENVIRO	Preservatives (see codes):	
Attn:	Dan Fisher	Bottle Types (see codes):	
Address:	1701 Stonewood Ave		
City:	Roanoke	State: VA	Zip Code: 24017
Phone:		Fax:	
Email:	DAsh@crawfordenviro.com		
Project ID:	Clouds Exxon		
Sampled By:	Billy Ewing		

REQUESTED LAB ANALYSIS: BTEX/N/M/Ra/Ag/Cd

Preservation Codes / Bottle Types:

*Preservative Codes:
0 = None, 1 = HCL, 2 = HNO_3, 3 = H_2SO_4, 4 = NaOH, 5 = $Na_2S_2O_3$, 6 = Method 5035 set w/ $NaHSO_4$ & CH_3OH, 7 = $NaOH/ZnOAc$, 8 = H_3PO_4, 9 = cooled to 6°C, 10 = cooled to ≤10°C, 11 = Amm.Cl., 12 = Ascorbic Acid / HCL, 13 = EDA

*Matrix Codes:
GW = ground water, WW = waste water, DW = drinking water, SW = surface/storm water, S = soil, SL = sludge, A = air, IW = industrial waste, O = other (specify in comments section) NA = for non-regulatory samples

*Program Area Codes:
CWA = Clean Water Act (for wastewaters), SDWA = Safe Drinking Water Act (for drinking water), SMW = Solid and Hazardous Wastes (for soils, ground waters and waste samples)

*Container Type: G = Glass, P = Plastic

Lab ID	Sample Name	Date Collected	Time Collected	G-Grab CnCorrs	Matrix (see codes)	Program Area (see codes)	Total # Containers	REQUESTED LAB ANALYSIS	BTEX/N/M/Ra/Ag/Cd								Notes / Comments
	DW3	2-21-19	0855	G	GW	USS	3	# Containers per Test >>	3								
	MW19		900					# Containers per Test >>									
	MW23		910					# Containers per Test >>									
	MW18		920					# Containers per Test >>									
	MW33		930					# Containers per Test >>									
	MW35		940					# Containers per Test >>									
	MW37		950					# Containers per Test >>									
	MW31		1000					# Containers per Test >>									
	DUP2		1005					# Containers per Test >>									
	MW41		1015					# Containers per Test >>									

Auto Sampler Data (composite samples only):

Date/Time On: _____ by whom: _____ Meter Reading Before: _____ Meter Reading After: _____ Difference: _____

Date/Time Off: _____ by whom: _____ X _____ (factor): _____

Turnaround Time Requested:				Project Location:		Relinquished By:	Received By:	Date:	Time (24hr):	Samples Received on Ice
Standard	X	Rush *		SC	X	William Ewing	[signature]	2/22/19	1120	X Y N N/A
*Date Required				NC		MEV	Fedex	2/25/19	1700	Y N N/A
Rush data emailed/faxed by the end of business day on date required. Standard TAT is 7-10 business days.				Other (Specify):						Y N N/A
						Received in lab by: Essence Moore (4.3°C)		2/26	10:09	Y N N/A

Chain of Custody Page 2 of 3

Sample Temp. Upon Receipt in Lab: 3.0 °(C)

White Copy: Lab original / Canary Copy: File Copy / Pink Copy: Client Copy

NOTE: Relinquishing samples via this Chain of Custody document constitutes client acceptance of Access Analytical terms and conditions.

Access Lab Report #: _____
Sub Lab (if applicable): _____ / Sub Report #: _____

PO#: _____

Access Analytical, Inc.
15 Thames Valley Rd.
Irmo, SC 29063
Phone: 803-781-4243
Web: www.axs-inc.com

1902N49

Chain of Custody Record

| | | |

Analytical Environmental Services, Inc

Date: 5-Mar-19

Client: Crawford Environmental Services
Project: Clouds Exxon
Lab ID: 1902N48

Case Narrative

Sample Receiving Nonconformance:

A Trip Blank was provided but not listed on the Chain of Custody.

2 of 3 vials for 1902N48-005 were received with headspace present as signified by >1/4 inch bubble present. The laboratory proceeded with analysis using the remaining vial.

Volatiles Organic Compounds Analysis by Method 8260D:

Due to sample matrix, samples 1902N48-002, -005, -006, -007, -009 ,-010, -012, & -013 required dilution during preparation and/or analysis resulting in elevated reporting limits.

Analytical Environmental Services, Inc **Date:** 4-Mar-19

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 2
Project Name:	Clouds Exxon	**Collection Date:**	2/20/2019 1:45:00 PM
Lab ID:	1902N48-001	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260D					**(SW5030B)**				
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	275120	1	02/28/2019 03:37	NP
Benzene	120		0.37	1.0	ug/L	275120	1	02/28/2019 03:37	NP
Ethylbenzene	180		0.26	1.0	ug/L	275120	1	02/28/2019 03:37	NP
Methyl tert-butyl ether	110		0.45	1.0	ug/L	275120	1	02/28/2019 03:37	NP
Naphthalene	120		0.93	5.0	ug/L	275120	1	02/28/2019 03:37	NP
Toluene	4.6		0.39	1.0	ug/L	275120	1	02/28/2019 03:37	NP
Xylenes, Total	290		0.77	1.0	ug/L	275120	1	02/28/2019 03:37	NP
Surr: 4-Bromofluorobenzene	111		0	70-130	%REC	275120	1	02/28/2019 03:37	NP
Surr: Dibromofluoromethane	109		0	70-130	%REC	275120	1	02/28/2019 03:37	NP
Surr: Toluene-d8	107		0	70-130	%REC	275120	1	02/28/2019 03:37	NP
Oxygenates SW8260D					**(SW5030B)**				
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	275120	1	02/28/2019 03:37	NP
Ethanol	BRL		43	100	ug/L	275120	1	02/28/2019 03:37	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	275120	1	02/28/2019 03:37	NP
Isopropyl ether	8.6	J	3.8	10	ug/L	275120	1	02/28/2019 03:37	NP
tert-Amyl alcohol	73	J	28	100	ug/L	275120	1	02/28/2019 03:37	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	275120	1	02/28/2019 03:37	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	275120	1	02/28/2019 03:37	NP
tert-Butyl formate	BRL		13	100	ug/L	275120	1	02/28/2019 03:37	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 4-Mar-19

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 3
Project Name:	Clouds Exxon	**Collection Date:**	2/20/2019 1:55:00 PM
Lab ID:	1902N48-002	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260D					**(SW5030B)**				
1,2-Dichloroethane	BRL		190	500	ug/L	275120	500	02/27/2019 17:14	NP
Benzene	5300		190	500	ug/L	275120	500	02/27/2019 17:14	NP
Ethylbenzene	1500		130	500	ug/L	275120	500	02/27/2019 17:14	NP
Methyl tert-butyl ether	520		220	500	ug/L	275120	500	02/27/2019 17:14	NP
Naphthalene	1600	J	460	2500	ug/L	275120	500	02/27/2019 17:14	NP
Toluene	21000		200	500	ug/L	275120	500	02/27/2019 17:14	NP
Xylenes, Total	17000		380	500	ug/L	275120	500	02/27/2019 17:14	NP
Surr: 4-Bromofluorobenzene	112		0	70-130	%REC	275120	500	02/27/2019 17:14	NP
Surr: Dibromofluoromethane	110		0	70-130	%REC	275120	500	02/27/2019 17:14	NP
Surr: Toluene-d8	104		0	70-130	%REC	275120	500	02/27/2019 17:14	NP
Oxygenates SW8260D					**(SW5030B)**				
3,3-Dimethyl-1-butanol	BRL		12000	50000	ug/L	275120	500	02/27/2019 17:14	NP
Ethanol	BRL		22000	50000	ug/L	275120	500	02/27/2019 17:14	NP
Ethyl tert-butyl ether	BRL		1800	50000	ug/L	275120	500	02/27/2019 17:14	NP
Isopropyl ether	BRL		1900	5000	ug/L	275120	500	02/27/2019 17:14	NP
tert-Amyl alcohol	BRL		14000	50000	ug/L	275120	500	02/27/2019 17:14	NP
tert-Amyl methyl ether	BRL		1700	5000	ug/L	275120	500	02/27/2019 17:14	NP
tert-Butyl Alcohol	BRL		6700	50000	ug/L	275120	500	02/27/2019 17:14	NP
tert-Butyl formate	BRL		6500	50000	ug/L	275120	500	02/27/2019 17:14	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 4-Mar-19

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 9
Project Name:	Clouds Exxon	**Collection Date:**	2/20/2019 2:10:00 PM
Lab ID:	1902N48-003	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260D (SW5030B)									
1,2-Dichloroethane	3.5		0.37	1.0	ug/L	275120	1	02/28/2019 16:59	NP
Benzene	130		0.37	1.0	ug/L	275120	1	02/28/2019 16:59	NP
Ethylbenzene	720		13	50	ug/L	275120	50	02/27/2019 23:53	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	275120	1	02/28/2019 16:59	NP
Naphthalene	340		46	250	ug/L	275120	50	02/27/2019 23:53	NP
Toluene	2100		20	50	ug/L	275120	50	02/27/2019 23:53	NP
Xylenes, Total	5700		38	50	ug/L	275120	50	02/27/2019 23:53	NP
Surr: 4-Bromofluorobenzene	110		0	70-130	%REC	275120	50	02/27/2019 23:53	NP
Surr: 4-Bromofluorobenzene	108		0	70-130	%REC	275120	1	02/28/2019 16:59	NP
Surr: Dibromofluoromethane	110		0	70-130	%REC	275120	50	02/27/2019 23:53	NP
Surr: Dibromofluoromethane	107		0	70-130	%REC	275120	1	02/28/2019 16:59	NP
Surr: Toluene-d8	105		0	70-130	%REC	275120	50	02/27/2019 23:53	NP
Surr: Toluene-d8	105		0	70-130	%REC	275120	1	02/28/2019 16:59	NP
Oxygenates SW8260D (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	275120	1	02/28/2019 16:59	NP
Ethanol	BRL		43	100	ug/L	275120	1	02/28/2019 16:59	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	275120	1	02/28/2019 16:59	NP
Isopropyl ether	BRL		3.8	10	ug/L	275120	1	02/28/2019 16:59	NP
tert-Amyl alcohol	280		28	100	ug/L	275120	1	02/28/2019 16:59	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	275120	1	02/28/2019 16:59	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	275120	1	02/28/2019 16:59	NP
tert-Butyl formate	BRL		13	100	ug/L	275120	1	02/28/2019 16:59	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 4-Mar-19

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 10
Project Name:	Clouds Exxon	**Collection Date:**	2/20/2019 2:20:00 PM
Lab ID:	1902N48-004	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260D (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	275120	1	02/28/2019 04:27	NP
Benzene	19		0.37	1.0	ug/L	275120	1	02/28/2019 04:27	NP
Ethylbenzene	120		0.26	1.0	ug/L	275120	1	02/28/2019 04:27	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	275120	1	02/28/2019 04:27	NP
Naphthalene	170		0.93	5.0	ug/L	275120	1	02/28/2019 04:27	NP
Toluene	5.3		0.39	1.0	ug/L	275120	1	02/28/2019 04:27	NP
Xylenes, Total	420		0.77	1.0	ug/L	275120	1	02/28/2019 04:27	NP
Surr: 4-Bromofluorobenzene	114		0	70-130	%REC	275120	1	02/28/2019 04:27	NP
Surr: Dibromofluoromethane	112		0	70-130	%REC	275120	1	02/28/2019 04:27	NP
Surr: Toluene-d8	106		0	70-130	%REC	275120	1	02/28/2019 04:27	NP
Oxygenates SW8260D (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	275120	1	02/28/2019 04:27	NP
Ethanol	BRL		43	100	ug/L	275120	1	02/28/2019 04:27	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	275120	1	02/28/2019 04:27	NP
Isopropyl ether	BRL		3.8	10	ug/L	275120	1	02/28/2019 04:27	NP
tert-Amyl alcohol	BRL		28	100	ug/L	275120	1	02/28/2019 04:27	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	275120	1	02/28/2019 04:27	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	275120	1	02/28/2019 04:27	NP
tert-Butyl formate	BRL		13	100	ug/L	275120	1	02/28/2019 04:27	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 4-Mar-19

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 15
Project Name:	Clouds Exxon	**Collection Date:**	2/20/2019 2:30:00 PM
Lab ID:	1902N48-005	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260D					**(SW5030B)**				
1,2-Dichloroethane	BRL		3.7	10	ug/L	275120	10	02/28/2019 16:09	NP
Benzene	BRL		3.7	10	ug/L	275120	10	02/28/2019 16:09	NP
Ethylbenzene	30		2.6	10	ug/L	275120	10	02/28/2019 16:09	NP
Methyl tert-butyl ether	BRL		4.5	10	ug/L	275120	10	02/28/2019 16:09	NP
Naphthalene	380		9.3	50	ug/L	275120	10	02/28/2019 16:09	NP
Toluene	9.8	J	3.9	10	ug/L	275120	10	02/28/2019 16:09	NP
Xylenes, Total	1700		7.7	10	ug/L	275120	10	02/28/2019 16:09	NP
Surr: 4-Bromofluorobenzene	106		0	70-130	%REC	275120	10	02/28/2019 16:09	NP
Surr: Dibromofluoromethane	106		0	70-130	%REC	275120	10	02/28/2019 16:09	NP
Surr: Toluene-d8	104		0	70-130	%REC	275120	10	02/28/2019 16:09	NP
Oxygenates SW8260D					**(SW5030B)**				
3,3-Dimethyl-1-butanol	BRL		240	1000	ug/L	275120	10	02/28/2019 16:09	NP
Ethanol	BRL		430	1000	ug/L	275120	10	02/28/2019 16:09	NP
Ethyl tert-butyl ether	BRL		36	1000	ug/L	275120	10	02/28/2019 16:09	NP
Isopropyl ether	BRL		38	100	ug/L	275120	10	02/28/2019 16:09	NP
tert-Amyl alcohol	BRL		280	1000	ug/L	275120	10	02/28/2019 16:09	NP
tert-Amyl methyl ether	BRL		34	100	ug/L	275120	10	02/28/2019 16:09	NP
tert-Butyl Alcohol	BRL		130	1000	ug/L	275120	10	02/28/2019 16:09	NP
tert-Butyl formate	BRL		130	1000	ug/L	275120	10	02/28/2019 16:09	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 4-Mar-19

Client:	Crawford Environmental Services	**Client Sample ID:**	DUP 1
Project Name:	Clouds Exxon	**Collection Date:**	2/20/2019 2:35:00 PM
Lab ID:	1902N48-006	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260D					**(SW5030B)**				
1,2-Dichloroethane	BRL		3.7	10	ug/L	275120	10	02/28/2019 16:34	NP
Benzene	BRL		3.7	10	ug/L	275120	10	02/28/2019 16:34	NP
Ethylbenzene	18		2.6	10	ug/L	275120	10	02/28/2019 16:34	NP
Methyl tert-butyl ether	BRL		4.5	10	ug/L	275120	10	02/28/2019 16:34	NP
Naphthalene	300		9.3	50	ug/L	275120	10	02/28/2019 16:34	NP
Toluene	7.2	J	3.9	10	ug/L	275120	10	02/28/2019 16:34	NP
Xylenes, Total	1500		7.7	10	ug/L	275120	10	02/28/2019 16:34	NP
Surr: 4-Bromofluorobenzene	110		0	70-130	%REC	275120	10	02/28/2019 16:34	NP
Surr: Dibromofluoromethane	106		0	70-130	%REC	275120	10	02/28/2019 16:34	NP
Surr: Toluene-d8	105		0	70-130	%REC	275120	10	02/28/2019 16:34	NP
Oxygenates SW8260D					**(SW5030B)**				
3,3-Dimethyl-1-butanol	BRL		240	1000	ug/L	275120	10	02/28/2019 16:34	NP
Ethanol	BRL		430	1000	ug/L	275120	10	02/28/2019 16:34	NP
Ethyl tert-butyl ether	BRL		36	1000	ug/L	275120	10	02/28/2019 16:34	NP
Isopropyl ether	BRL		38	100	ug/L	275120	10	02/28/2019 16:34	NP
tert-Amyl alcohol	BRL		280	1000	ug/L	275120	10	02/28/2019 16:34	NP
tert-Amyl methyl ether	BRL		34	100	ug/L	275120	10	02/28/2019 16:34	NP
tert-Butyl Alcohol	BRL		130	1000	ug/L	275120	10	02/28/2019 16:34	NP
tert-Butyl formate	BRL		130	1000	ug/L	275120	10	02/28/2019 16:34	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 4-Mar-19

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 22
Project Name:	Clouds Exxon	**Collection Date:**	2/21/2019 8:00:00 AM
Lab ID:	1902N48-007	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260D					**(SW5030B)**				
1,2-Dichloroethane	BRL		19	50	ug/L	275120	50	02/28/2019 13:39	NP
Benzene	2800		19	50	ug/L	275120	50	02/28/2019 13:39	NP
Ethylbenzene	170		13	50	ug/L	275120	50	02/28/2019 13:39	NP
Methyl tert-butyl ether	BRL		22	50	ug/L	275120	50	02/28/2019 13:39	NP
Naphthalene	960		46	250	ug/L	275120	50	02/28/2019 13:39	NP
Toluene	7400		20	50	ug/L	275120	50	02/28/2019 13:39	NP
Xylenes, Total	20000		38	50	ug/L	275120	50	02/28/2019 13:39	NP
Surr: 4-Bromofluorobenzene	108		0	70-130	%REC	275120	50	02/28/2019 13:39	NP
Surr: Dibromofluoromethane	110		0	70-130	%REC	275120	50	02/28/2019 13:39	NP
Surr: Toluene-d8	103		0	70-130	%REC	275120	50	02/28/2019 13:39	NP
Oxygenates SW8260D					**(SW5030B)**				
3,3-Dimethyl-1-butanol	BRL		1200	5000	ug/L	275120	50	02/28/2019 13:39	NP
Ethanol	BRL		2200	5000	ug/L	275120	50	02/28/2019 13:39	NP
Ethyl tert-butyl ether	BRL		180	5000	ug/L	275120	50	02/28/2019 13:39	NP
Isopropyl ether	BRL		190	500	ug/L	275120	50	02/28/2019 13:39	NP
tert-Amyl alcohol	2300	J	1400	5000	ug/L	275120	50	02/28/2019 13:39	NP
tert-Amyl methyl ether	BRL		170	500	ug/L	275120	50	02/28/2019 13:39	NP
tert-Butyl Alcohol	BRL		670	5000	ug/L	275120	50	02/28/2019 13:39	NP
tert-Butyl formate	BRL		650	5000	ug/L	275120	50	02/28/2019 13:39	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 4-Mar-19

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 5AR
Project Name:	Clouds Exxon	**Collection Date:**	2/21/2019 8:10:00 AM
Lab ID:	1902N48-008	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260D					**(SW5030B)**				
1,2-Dichloroethane	50		0.37	1.0	ug/L	275120	1	02/28/2019 17:23	NP
Benzene	3200		19	50	ug/L	275120	50	02/28/2019 00:18	NP
Ethylbenzene	1000		13	50	ug/L	275120	50	02/28/2019 00:18	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	275120	1	02/28/2019 17:23	NP
Naphthalene	650		46	250	ug/L	275120	50	02/28/2019 00:18	NP
Toluene	240		20	50	ug/L	275120	50	02/28/2019 00:18	NP
Xylenes, Total	4500		38	50	ug/L	275120	50	02/28/2019 00:18	NP
Surr: 4-Bromofluorobenzene	110		0	70-130	%REC	275120	50	02/28/2019 00:18	NP
Surr: 4-Bromofluorobenzene	106		0	70-130	%REC	275120	1	02/28/2019 17:23	NP
Surr: Dibromofluoromethane	110		0	70-130	%REC	275120	50	02/28/2019 00:18	NP
Surr: Dibromofluoromethane	110		0	70-130	%REC	275120	1	02/28/2019 17:23	NP
Surr: Toluene-d8	105		0	70-130	%REC	275120	50	02/28/2019 00:18	NP
Surr: Toluene-d8	93.8		0	70-130	%REC	275120	1	02/28/2019 17:23	NP
Oxygenates SW8260D					**(SW5030B)**				
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	275120	1	02/28/2019 17:23	NP
Ethanol	BRL		43	100	ug/L	275120	1	02/28/2019 17:23	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	275120	1	02/28/2019 17:23	NP
Isopropyl ether	85		3.8	10	ug/L	275120	1	02/28/2019 17:23	NP
tert-Amyl alcohol	250		28	100	ug/L	275120	1	02/28/2019 17:23	NP
tert-Amyl methyl ether	26		3.4	10	ug/L	275120	1	02/28/2019 17:23	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	275120	1	02/28/2019 17:23	NP
tert-Butyl formate	BRL		13	100	ug/L	275120	1	02/28/2019 17:23	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 4-Mar-19

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 20
Project Name:	Clouds Exxon	**Collection Date:**	2/21/2019 8:20:00 AM
Lab ID:	1902N48-009	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260D					**(SW5030B)**				
1,2-Dichloroethane	46	J	19	50	ug/L	275120	50	02/28/2019 14:04	NP
Benzene	1900		19	50	ug/L	275120	50	02/28/2019 14:04	NP
Ethylbenzene	1300		13	50	ug/L	275120	50	02/28/2019 14:04	NP
Methyl tert-butyl ether	BRL		22	50	ug/L	275120	50	02/28/2019 14:04	NP
Naphthalene	1100		46	250	ug/L	275120	50	02/28/2019 14:04	NP
Toluene	6200		20	50	ug/L	275120	50	02/28/2019 14:04	NP
Xylenes, Total	19000		38	50	ug/L	275120	50	02/28/2019 14:04	NP
Surr: 4-Bromofluorobenzene	109		0	70-130	%REC	275120	50	02/28/2019 14:04	NP
Surr: Dibromofluoromethane	109		0	70-130	%REC	275120	50	02/28/2019 14:04	NP
Surr: Toluene-d8	104		0	70-130	%REC	275120	50	02/28/2019 14:04	NP
Oxygenates SW8260D					**(SW5030B)**				
3,3-Dimethyl-1-butanol	BRL		1200	5000	ug/L	275120	50	02/28/2019 14:04	NP
Ethanol	BRL		2200	5000	ug/L	275120	50	02/28/2019 14:04	NP
Ethyl tert-butyl ether	BRL		180	5000	ug/L	275120	50	02/28/2019 14:04	NP
Isopropyl ether	BRL		190	500	ug/L	275120	50	02/28/2019 14:04	NP
tert-Amyl alcohol	1700	J	1400	5000	ug/L	275120	50	02/28/2019 14:04	NP
tert-Amyl methyl ether	BRL		170	500	ug/L	275120	50	02/28/2019 14:04	NP
tert-Butyl Alcohol	BRL		670	5000	ug/L	275120	50	02/28/2019 14:04	NP
tert-Butyl formate	BRL		650	5000	ug/L	275120	50	02/28/2019 14:04	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 4-Mar-19

Client:	Crawford Environmental Services	**Client Sample ID:**	PW-1R
Project Name:	Clouds Exxon	**Collection Date:**	2/21/2019 8:35:00 AM
Lab ID:	1902N48-010	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260D					**(SW5030B)**				
1,2-Dichloroethane	BRL		19	50	ug/L	275120	50	02/28/2019 00:43	NP
Benzene	200		19	50	ug/L	275120	50	02/28/2019 00:43	NP
Ethylbenzene	310		13	50	ug/L	275120	50	02/28/2019 00:43	NP
Methyl tert-butyl ether	BRL		22	50	ug/L	275120	50	02/28/2019 00:43	NP
Naphthalene	440		46	250	ug/L	275120	50	02/28/2019 00:43	NP
Toluene	2600		20	50	ug/L	275120	50	02/28/2019 00:43	NP
Xylenes, Total	8100		38	50	ug/L	275120	50	02/28/2019 00:43	NP
Surr: 4-Bromofluorobenzene	111		0	70-130	%REC	275120	50	02/28/2019 00:43	NP
Surr: Dibromofluoromethane	110		0	70-130	%REC	275120	50	02/28/2019 00:43	NP
Surr: Toluene-d8	106		0	70-130	%REC	275120	50	02/28/2019 00:43	NP
Oxygenates SW8260D					**(SW5030B)**				
3,3-Dimethyl-1-butanol	BRL		1200	5000	ug/L	275120	50	02/28/2019 00:43	NP
Ethanol	BRL		2200	5000	ug/L	275120	50	02/28/2019 00:43	NP
Ethyl tert-butyl ether	BRL		180	5000	ug/L	275120	50	02/28/2019 00:43	NP
Isopropyl ether	BRL		190	500	ug/L	275120	50	02/28/2019 00:43	NP
tert-Amyl alcohol	BRL		1400	5000	ug/L	275120	50	02/28/2019 00:43	NP
tert-Amyl methyl ether	BRL		170	500	ug/L	275120	50	02/28/2019 00:43	NP
tert-Butyl Alcohol	BRL		670	5000	ug/L	275120	50	02/28/2019 00:43	NP
tert-Butyl formate	BRL		650	5000	ug/L	275120	50	02/28/2019 00:43	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 4-Mar-19

Client:	Crawford Environmental Services	**Client Sample ID:**	DW 3
Project Name:	Clouds Exxon	**Collection Date:**	2/21/2019 8:55:00 AM
Lab ID:	1902N48-011	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260D					**(SW5030B)**				
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	275120	1	02/28/2019 05:17	NP
Benzene	540		3.7	10	ug/L	275120	10	02/28/2019 05:42	NP
Ethylbenzene	1300		2.6	10	ug/L	275120	10	02/28/2019 05:42	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	275120	1	02/28/2019 05:17	NP
Naphthalene	410		9.3	50	ug/L	275120	10	02/28/2019 05:42	NP
Toluene	3300		7.9	20	ug/L	275120	20	02/28/2019 12:49	NP
Xylenes, Total	5200		7.7	10	ug/L	275120	10	02/28/2019 05:42	NP
Surr: 4-Bromofluorobenzene	110		0	70-130	%REC	275120	20	02/28/2019 12:49	NP
Surr: 4-Bromofluorobenzene	107		0	70-130	%REC	275120	1	02/28/2019 05:17	NP
Surr: 4-Bromofluorobenzene	107		0	70-130	%REC	275120	10	02/28/2019 05:42	NP
Surr: Dibromofluoromethane	109		0	70-130	%REC	275120	20	02/28/2019 12:49	NP
Surr: Dibromofluoromethane	106		0	70-130	%REC	275120	10	02/28/2019 05:42	NP
Surr: Dibromofluoromethane	109		0	70-130	%REC	275120	1	02/28/2019 05:17	NP
Surr: Toluene-d8	104		0	70-130	%REC	275120	20	02/28/2019 12:49	NP
Surr: Toluene-d8	103		0	70-130	%REC	275120	10	02/28/2019 05:42	NP
Surr: Toluene-d8	105		0	70-130	%REC	275120	1	02/28/2019 05:17	NP
Oxygenates SW8260D					**(SW5030B)**				
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	275120	1	02/28/2019 05:17	NP
Ethanol	BRL		43	100	ug/L	275120	1	02/28/2019 05:17	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	275120	1	02/28/2019 05:17	NP
Isopropyl ether	10		3.8	10	ug/L	275120	1	02/28/2019 05:17	NP
tert-Amyl alcohol	1100		28	100	ug/L	275120	1	02/28/2019 05:17	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	275120	1	02/28/2019 05:17	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	275120	1	02/28/2019 05:17	NP
tert-Butyl formate	BRL		13	100	ug/L	275120	1	02/28/2019 05:17	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 4-Mar-19

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 19
Project Name:	Clouds Exxon	**Collection Date:**	2/21/2019 9:00:00 AM
Lab ID:	1902N48-012	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260D					**(SW5030B)**				
1,2-Dichloroethane	BRL		190	500	ug/L	275120	500	02/27/2019 18:29	NP
Benzene	2100		190	500	ug/L	275120	500	02/27/2019 18:29	NP
Ethylbenzene	1300		130	500	ug/L	275120	500	02/27/2019 18:29	NP
Methyl tert-butyl ether	BRL		220	500	ug/L	275120	500	02/27/2019 18:29	NP
Naphthalene	2500	J	460	2500	ug/L	275120	500	02/27/2019 18:29	NP
Toluene	19000		200	500	ug/L	275120	500	02/27/2019 18:29	NP
Xylenes, Total	19000		380	500	ug/L	275120	500	02/27/2019 18:29	NP
Surr: 4-Bromofluorobenzene	109		0	70-130	%REC	275120	500	02/27/2019 18:29	NP
Surr: Dibromofluoromethane	110		0	70-130	%REC	275120	500	02/27/2019 18:29	NP
Surr: Toluene-d8	104		0	70-130	%REC	275120	500	02/27/2019 18:29	NP
Oxygenates SW8260D					**(SW5030B)**				
3,3-Dimethyl-1-butanol	BRL		12000	50000	ug/L	275120	500	02/27/2019 18:29	NP
Ethanol	BRL		22000	50000	ug/L	275120	500	02/27/2019 18:29	NP
Ethyl tert-butyl ether	BRL		1800	50000	ug/L	275120	500	02/27/2019 18:29	NP
Isopropyl ether	BRL		1900	5000	ug/L	275120	500	02/27/2019 18:29	NP
tert-Amyl alcohol	BRL		14000	50000	ug/L	275120	500	02/27/2019 18:29	NP
tert-Amyl methyl ether	BRL		1700	5000	ug/L	275120	500	02/27/2019 18:29	NP
tert-Butyl Alcohol	BRL		6700	50000	ug/L	275120	500	02/27/2019 18:29	NP
tert-Butyl formate	BRL		6500	50000	ug/L	275120	500	02/27/2019 18:29	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 4-Mar-19

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 23
Project Name:	Clouds Exxon	**Collection Date:**	2/21/2019 9:10:00 AM
Lab ID:	1902N48-013	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260D					**(SW5030B)**				
1,2-Dichloroethane	35	J	19	50	ug/L	275120	50	02/28/2019 01:08	NP
Benzene	1500		19	50	ug/L	275120	50	02/28/2019 01:08	NP
Ethylbenzene	400		13	50	ug/L	275120	50	02/28/2019 01:08	NP
Methyl tert-butyl ether	BRL		22	50	ug/L	275120	50	02/28/2019 01:08	NP
Naphthalene	720		46	250	ug/L	275120	50	02/28/2019 01:08	NP
Toluene	6700		20	50	ug/L	275120	50	02/28/2019 01:08	NP
Xylenes, Total	6600		38	50	ug/L	275120	50	02/28/2019 01:08	NP
Surr: 4-Bromofluorobenzene	111		0	70-130	%REC	275120	50	02/28/2019 01:08	NP
Surr: Dibromofluoromethane	108		0	70-130	%REC	275120	50	02/28/2019 01:08	NP
Surr: Toluene-d8	104		0	70-130	%REC	275120	50	02/28/2019 01:08	NP
Oxygenates SW8260D					**(SW5030B)**				
3,3-Dimethyl-1-butanol	BRL		1200	5000	ug/L	275120	50	02/28/2019 01:08	NP
Ethanol	BRL		2200	5000	ug/L	275120	50	02/28/2019 01:08	NP
Ethyl tert-butyl ether	BRL		180	5000	ug/L	275120	50	02/28/2019 01:08	NP
Isopropyl ether	BRL		190	500	ug/L	275120	50	02/28/2019 01:08	NP
tert-Amyl alcohol	1600	J	1400	5000	ug/L	275120	50	02/28/2019 01:08	NP
tert-Amyl methyl ether	BRL		170	500	ug/L	275120	50	02/28/2019 01:08	NP
tert-Butyl Alcohol	BRL		670	5000	ug/L	275120	50	02/28/2019 01:08	NP
tert-Butyl formate	BRL		650	5000	ug/L	275120	50	02/28/2019 01:08	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 4-Mar-19

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 18
Project Name:	Clouds Exxon	**Collection Date:**	2/21/2019 9:20:00 AM
Lab ID:	1902N48-014	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260D					**(SW5030B)**				
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	275120	1	02/28/2019 14:29	NP
Benzene	360		3.7	10	ug/L	275120	10	02/28/2019 14:54	NP
Ethylbenzene	120		0.26	1.0	ug/L	275120	1	02/28/2019 14:29	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	275120	1	02/28/2019 14:29	NP
Naphthalene	73		0.93	5.0	ug/L	275120	1	02/28/2019 14:29	NP
Toluene	1100		3.9	10	ug/L	275120	10	02/28/2019 14:54	NP
Xylenes, Total	2500		7.7	10	ug/L	275120	10	02/28/2019 14:54	NP
Surr: 4-Bromofluorobenzene	107		0	70-130	%REC	275120	1	02/28/2019 14:29	NP
Surr: 4-Bromofluorobenzene	109		0	70-130	%REC	275120	10	02/28/2019 14:54	NP
Surr: Dibromofluoromethane	105		0	70-130	%REC	275120	10	02/28/2019 14:54	NP
Surr: Dibromofluoromethane	108		0	70-130	%REC	275120	1	02/28/2019 14:29	NP
Surr: Toluene-d8	104		0	70-130	%REC	275120	1	02/28/2019 14:29	NP
Surr: Toluene-d8	103		0	70-130	%REC	275120	10	02/28/2019 14:54	NP
Oxygenates SW8260D					**(SW5030B)**				
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	275120	1	02/28/2019 14:29	NP
Ethanol	BRL		43	100	ug/L	275120	1	02/28/2019 14:29	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	275120	1	02/28/2019 14:29	NP
Isopropyl ether	11		3.8	10	ug/L	275120	1	02/28/2019 14:29	NP
tert-Amyl alcohol	1400		28	100	ug/L	275120	1	02/28/2019 14:29	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	275120	1	02/28/2019 14:29	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	275120	1	02/28/2019 14:29	NP
tert-Butyl formate	BRL		13	100	ug/L	275120	1	02/28/2019 14:29	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 4-Mar-19

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 33
Project Name:	Clouds Exxon	**Collection Date:**	2/21/2019 9:30:00 AM
Lab ID:	1902N48-015	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260D					(SW5030B)				
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	275120	1	02/28/2019 15:19	NP
Benzene	61		0.37	1.0	ug/L	275120	1	02/28/2019 15:19	NP
Ethylbenzene	920		2.6	10	ug/L	275120	10	02/28/2019 15:44	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	275120	1	02/28/2019 15:19	NP
Naphthalene	370		9.3	50	ug/L	275120	10	02/28/2019 15:44	NP
Toluene	2100		39	100	ug/L	275120	100	02/27/2019 23:28	NP
Xylenes, Total	4800		7.7	10	ug/L	275120	10	02/28/2019 15:44	NP
Surr: 4-Bromofluorobenzene	97.7		0	70-130	%REC	275120	1	02/28/2019 15:19	NP
Surr: 4-Bromofluorobenzene	106		0	70-130	%REC	275120	10	02/28/2019 15:44	NP
Surr: 4-Bromofluorobenzene	109		0	70-130	%REC	275120	100	02/27/2019 23:28	NP
Surr: Dibromofluoromethane	106		0	70-130	%REC	275120	1	02/28/2019 15:19	NP
Surr: Dibromofluoromethane	106		0	70-130	%REC	275120	10	02/28/2019 15:44	NP
Surr: Dibromofluoromethane	111		0	70-130	%REC	275120	100	02/27/2019 23:28	NP
Surr: Toluene-d8	105		0	70-130	%REC	275120	1	02/28/2019 15:19	NP
Surr: Toluene-d8	104		0	70-130	%REC	275120	10	02/28/2019 15:44	NP
Surr: Toluene-d8	105		0	70-130	%REC	275120	100	02/27/2019 23:28	NP
Oxygenates SW8260D					(SW5030B)				
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	275120	1	02/28/2019 15:19	NP
Ethanol	BRL		43	100	ug/L	275120	1	02/28/2019 15:19	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	275120	1	02/28/2019 15:19	NP
Isopropyl ether	BRL		3.8	10	ug/L	275120	1	02/28/2019 15:19	NP
tert-Amyl alcohol	620		28	100	ug/L	275120	1	02/28/2019 15:19	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	275120	1	02/28/2019 15:19	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	275120	1	02/28/2019 15:19	NP
tert-Butyl formate	BRL		13	100	ug/L	275120	1	02/28/2019 15:19	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 4-Mar-19

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 35
Project Name:	Clouds Exxon	**Collection Date:**	2/21/2019 9:40:00 AM
Lab ID:	1902N48-016	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260D					**(SW5030B)**				
1,2-Dichloroethane	22		0.37	1.0	ug/L	275120	1	02/28/2019 17:48	NP
Benzene	1100		19	50	ug/L	275120	50	02/28/2019 01:33	NP
Ethylbenzene	1500		13	50	ug/L	275120	50	02/28/2019 01:33	NP
Methyl tert-butyl ether	17		0.45	1.0	ug/L	275120	1	02/28/2019 17:48	NP
Naphthalene	670		46	250	ug/L	275120	50	02/28/2019 01:33	NP
Toluene	2400		20	50	ug/L	275120	50	02/28/2019 01:33	NP
Xylenes, Total	3600		38	50	ug/L	275120	50	02/28/2019 01:33	NP
Surr: 4-Bromofluorobenzene	111		0	70-130	%REC	275120	50	02/28/2019 01:33	NP
Surr: 4-Bromofluorobenzene	105		0	70-130	%REC	275120	1	02/28/2019 17:48	NP
Surr: Dibromofluoromethane	109		0	70-130	%REC	275120	50	02/28/2019 01:33	NP
Surr: Dibromofluoromethane	105		0	70-130	%REC	275120	1	02/28/2019 17:48	NP
Surr: Toluene-d8	102		0	70-130	%REC	275120	50	02/28/2019 01:33	NP
Surr: Toluene-d8	106		0	70-130	%REC	275120	1	02/28/2019 17:48	NP
Oxygenates SW8260D					**(SW5030B)**				
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	275120	1	02/28/2019 17:48	NP
Ethanol	BRL		43	100	ug/L	275120	1	02/28/2019 17:48	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	275120	1	02/28/2019 17:48	NP
Isopropyl ether	41		3.8	10	ug/L	275120	1	02/28/2019 17:48	NP
tert-Amyl alcohol	1800		28	100	ug/L	275120	1	02/28/2019 17:48	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	275120	1	02/28/2019 17:48	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	275120	1	02/28/2019 17:48	NP
tert-Butyl formate	BRL		13	100	ug/L	275120	1	02/28/2019 17:48	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 4-Mar-19

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 37
Project Name:	Clouds Exxon	**Collection Date:**	2/21/2019 9:50:00 AM
Lab ID:	1902N48-017	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260D (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	275120	1	02/28/2019 02:47	NP
Benzene	BRL		0.37	1.0	ug/L	275120	1	02/28/2019 02:47	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	275120	1	02/28/2019 02:47	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	275120	1	02/28/2019 02:47	NP
Naphthalene	2.6	J	0.93	5.0	ug/L	275120	1	02/28/2019 02:47	NP
Toluene	BRL		0.39	1.0	ug/L	275120	1	02/28/2019 02:47	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	275120	1	02/28/2019 02:47	NP
Surr: 4-Bromofluorobenzene	110		0	70-130	%REC	275120	1	02/28/2019 02:47	NP
Surr: Dibromofluoromethane	109		0	70-130	%REC	275120	1	02/28/2019 02:47	NP
Surr: Toluene-d8	105		0	70-130	%REC	275120	1	02/28/2019 02:47	NP
Oxygenates SW8260D (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	275120	1	02/28/2019 02:47	NP
Ethanol	BRL		43	100	ug/L	275120	1	02/28/2019 02:47	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	275120	1	02/28/2019 02:47	NP
Isopropyl ether	BRL		3.8	10	ug/L	275120	1	02/28/2019 02:47	NP
tert-Amyl alcohol	BRL		28	100	ug/L	275120	1	02/28/2019 02:47	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	275120	1	02/28/2019 02:47	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	275120	1	02/28/2019 02:47	NP
tert-Butyl formate	BRL		13	100	ug/L	275120	1	02/28/2019 02:47	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 4-Mar-19

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 31
Project Name:	Clouds Exxon	**Collection Date:**	2/21/2019 10:00:00 AM
Lab ID:	1902N48-018	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260D (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	275120	1	02/28/2019 13:14	NP
Benzene	BRL		0.37	1.0	ug/L	275120	1	02/28/2019 13:14	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	275120	1	02/28/2019 13:14	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	275120	1	02/28/2019 13:14	NP
Naphthalene	2.8	J	0.93	5.0	ug/L	275120	1	02/28/2019 13:14	NP
Toluene	BRL		0.39	1.0	ug/L	275120	1	02/28/2019 13:14	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	275120	1	02/28/2019 13:14	NP
Surr: 4-Bromofluorobenzene	109		0	70-130	%REC	275120	1	02/28/2019 13:14	NP
Surr: Dibromofluoromethane	110		0	70-130	%REC	275120	1	02/28/2019 13:14	NP
Surr: Toluene-d8	104		0	70-130	%REC	275120	1	02/28/2019 13:14	NP
Oxygenates SW8260D (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	275120	1	02/28/2019 06:07	NP
Ethanol	BRL		43	100	ug/L	275120	1	02/28/2019 06:07	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	275120	1	02/28/2019 06:07	NP
Isopropyl ether	BRL		3.8	10	ug/L	275120	1	02/28/2019 06:07	NP
tert-Amyl alcohol	BRL		28	100	ug/L	275120	1	02/28/2019 06:07	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	275120	1	02/28/2019 06:07	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	275120	1	02/28/2019 06:07	NP
tert-Butyl formate	BRL		13	100	ug/L	275120	1	02/28/2019 06:07	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 4-Mar-19

Client:	Crawford Environmental Services	**Client Sample ID:**	DUP 2
Project Name:	Clouds Exxon	**Collection Date:**	2/21/2019 10:05:00 AM
Lab ID:	1902N48-019	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260D					**(SW5030B)**				
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	275120	1	02/28/2019 06:57	NP
Benzene	BRL		0.37	1.0	ug/L	275120	1	02/28/2019 06:57	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	275120	1	02/28/2019 06:57	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	275120	1	02/28/2019 06:57	NP
Naphthalene	2.6	J	0.93	5.0	ug/L	275120	1	02/28/2019 06:57	NP
Toluene	BRL		0.39	1.0	ug/L	275120	1	02/28/2019 06:57	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	275120	1	02/28/2019 06:57	NP
Surr: 4-Bromofluorobenzene	106		0	70-130	%REC	275120	1	02/28/2019 06:57	NP
Surr: Dibromofluoromethane	108		0	70-130	%REC	275120	1	02/28/2019 06:57	NP
Surr: Toluene-d8	102		0	70-130	%REC	275120	1	02/28/2019 06:57	NP
Oxygenates SW8260D					**(SW5030B)**				
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	275120	1	02/28/2019 06:57	NP
Ethanol	BRL		43	100	ug/L	275120	1	02/28/2019 06:57	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	275120	1	02/28/2019 06:57	NP
Isopropyl ether	BRL		3.8	10	ug/L	275120	1	02/28/2019 06:57	NP
tert-Amyl alcohol	BRL		28	100	ug/L	275120	1	02/28/2019 06:57	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	275120	1	02/28/2019 06:57	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	275120	1	02/28/2019 06:57	NP
tert-Butyl formate	BRL		13	100	ug/L	275120	1	02/28/2019 06:57	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 4-Mar-19

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 41
Project Name:	Clouds Exxon	**Collection Date:**	2/21/2019 10:15:00 AM
Lab ID:	1902N48-020	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260D (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	275120	1	02/28/2019 07:47	NP
Benzene	BRL		0.37	1.0	ug/L	275120	1	02/28/2019 07:47	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	275120	1	02/28/2019 07:47	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	275120	1	02/28/2019 07:47	NP
Naphthalene	BRL		0.93	5.0	ug/L	275120	1	02/28/2019 07:47	NP
Toluene	BRL		0.39	1.0	ug/L	275120	1	02/28/2019 07:47	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	275120	1	02/28/2019 07:47	NP
Surr: 4-Bromofluorobenzene	111		0	70-130	%REC	275120	1	02/28/2019 07:47	NP
Surr: Dibromofluoromethane	109		0	70-130	%REC	275120	1	02/28/2019 07:47	NP
Surr: Toluene-d8	104		0	70-130	%REC	275120	1	02/28/2019 07:47	NP
Oxygenates SW8260D (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	275120	1	02/28/2019 07:47	NP
Ethanol	BRL		43	100	ug/L	275120	1	02/28/2019 07:47	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	275120	1	02/28/2019 07:47	NP
Isopropyl ether	BRL		3.8	10	ug/L	275120	1	02/28/2019 07:47	NP
tert-Amyl alcohol	BRL		28	100	ug/L	275120	1	02/28/2019 07:47	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	275120	1	02/28/2019 07:47	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	275120	1	02/28/2019 07:47	NP
tert-Butyl formate	BRL		13	100	ug/L	275120	1	02/28/2019 07:47	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 4-Mar-19

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 40
Project Name:	Clouds Exxon	**Collection Date:**	2/21/2019 10:25:00 AM
Lab ID:	1902N48-021	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260D (SW5030B)									
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	275122	1	02/28/2019 03:12	NP
Benzene	BRL		0.37	1.0	ug/L	275122	1	02/28/2019 03:12	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	275122	1	02/28/2019 03:12	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	275122	1	02/28/2019 03:12	NP
Naphthalene	BRL		0.93	5.0	ug/L	275122	1	02/28/2019 03:12	NP
Toluene	BRL		0.39	1.0	ug/L	275122	1	02/28/2019 03:12	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	275122	1	02/28/2019 03:12	NP
Surr: 4-Bromofluorobenzene	109		0	70-130	%REC	275122	1	02/28/2019 03:12	NP
Surr: Dibromofluoromethane	110		0	70-130	%REC	275122	1	02/28/2019 03:12	NP
Surr: Toluene-d8	103		0	70-130	%REC	275122	1	02/28/2019 03:12	NP
Oxygenates SW8260D (SW5030B)									
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	275122	1	02/28/2019 03:12	NP
Ethanol	BRL		43	100	ug/L	275122	1	02/28/2019 03:12	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	275122	1	02/28/2019 03:12	NP
Isopropyl ether	BRL		3.8	10	ug/L	275122	1	02/28/2019 03:12	NP
tert-Amyl alcohol	BRL		28	100	ug/L	275122	1	02/28/2019 03:12	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	275122	1	02/28/2019 03:12	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	275122	1	02/28/2019 03:12	NP
tert-Butyl formate	BRL		13	100	ug/L	275122	1	02/28/2019 03:12	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 4-Mar-19

Client:	Crawford Environmental Services	**Client Sample ID:**	MW 17
Project Name:	Clouds Exxon	**Collection Date:**	2/21/2019 10:35:00 AM
Lab ID:	1902N48-022	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260D					**(SW5030B)**				
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	275122	1	02/27/2019 18:54	NP
Benzene	8.3		0.37	1.0	ug/L	275122	1	02/27/2019 18:54	NP
Ethylbenzene	72		0.26	1.0	ug/L	275122	1	02/27/2019 18:54	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	275122	1	02/27/2019 18:54	NP
Naphthalene	50		0.93	5.0	ug/L	275122	1	02/27/2019 18:54	NP
Toluene	20		0.39	1.0	ug/L	275122	1	02/27/2019 18:54	NP
Xylenes, Total	150		0.77	1.0	ug/L	275122	1	02/27/2019 18:54	NP
Surr: 4-Bromofluorobenzene	113		0	70-130	%REC	275122	1	02/27/2019 18:54	NP
Surr: Dibromofluoromethane	111		0	70-130	%REC	275122	1	02/27/2019 18:54	NP
Surr: Toluene-d8	104		0	70-130	%REC	275122	1	02/27/2019 18:54	NP
Oxygenates SW8260D					**(SW5030B)**				
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	275122	1	02/27/2019 18:54	NP
Ethanol	BRL		43	100	ug/L	275122	1	02/27/2019 18:54	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	275122	1	02/27/2019 18:54	NP
Isopropyl ether	BRL		3.8	10	ug/L	275122	1	02/27/2019 18:54	NP
tert-Amyl alcohol	59	J	28	100	ug/L	275122	1	02/27/2019 18:54	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	275122	1	02/27/2019 18:54	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	275122	1	02/27/2019 18:54	NP
tert-Butyl formate	BRL		13	100	ug/L	275122	1	02/27/2019 18:54	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 4-Mar-19

Client:	Crawford Environmental Services	**Client Sample ID:**	SW 1
Project Name:	Clouds Exxon	**Collection Date:**	2/21/2019 10:45:00 AM
Lab ID:	1902N48-023	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260D					**(SW5030B)**				
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	275122	1	02/28/2019 08:12	NP
Benzene	80		0.37	1.0	ug/L	275122	1	02/28/2019 08:12	NP
Ethylbenzene	61		0.26	1.0	ug/L	275122	1	02/28/2019 08:12	NP
Methyl tert-butyl ether	3.5		0.45	1.0	ug/L	275122	1	02/28/2019 08:12	NP
Naphthalene	12		0.93	5.0	ug/L	275122	1	02/28/2019 08:12	NP
Toluene	1.0		0.39	1.0	ug/L	275122	1	02/28/2019 08:12	NP
Xylenes, Total	26		0.77	1.0	ug/L	275122	1	02/28/2019 08:12	NP
Surr: 4-Bromofluorobenzene	108		0	70-130	%REC	275122	1	02/28/2019 08:12	NP
Surr: Dibromofluoromethane	108		0	70-130	%REC	275122	1	02/28/2019 08:12	NP
Surr: Toluene-d8	103		0	70-130	%REC	275122	1	02/28/2019 08:12	NP
Oxygenates SW8260D					**(SW5030B)**				
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	275122	1	02/28/2019 08:12	NP
Ethanol	BRL		43	100	ug/L	275122	1	02/28/2019 08:12	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	275122	1	02/28/2019 08:12	NP
Isopropyl ether	8.5	J	3.8	10	ug/L	275122	1	02/28/2019 08:12	NP
tert-Amyl alcohol	240		28	100	ug/L	275122	1	02/28/2019 08:12	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	275122	1	02/28/2019 08:12	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	275122	1	02/28/2019 08:12	NP
tert-Butyl formate	BRL		13	100	ug/L	275122	1	02/28/2019 08:12	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 4-Mar-19

Client:	Crawford Environmental Services	**Client Sample ID:**	TRIP BLANK
Project Name:	Clouds Exxon	**Collection Date:**	2/20/2019
Lab ID:	1902N48-024	**Matrix:**	Aqueous

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260D					**(SW5030B)**				
1,2-Dichloroethane	BRL		0.37	1.0	ug/L	275122	1	02/27/2019 15:09	NP
Benzene	BRL		0.37	1.0	ug/L	275122	1	02/27/2019 15:09	NP
Ethylbenzene	BRL		0.26	1.0	ug/L	275122	1	02/27/2019 15:09	NP
Methyl tert-butyl ether	BRL		0.45	1.0	ug/L	275122	1	02/27/2019 15:09	NP
Naphthalene	BRL		0.93	5.0	ug/L	275122	1	02/27/2019 15:09	NP
Toluene	BRL		0.39	1.0	ug/L	275122	1	02/27/2019 15:09	NP
Xylenes, Total	BRL		0.77	1.0	ug/L	275122	1	02/27/2019 15:09	NP
Surr: 4-Bromofluorobenzene	105		0	70-130	%REC	275122	1	02/27/2019 15:09	NP
Surr: Dibromofluoromethane	111		0	70-130	%REC	275122	1	02/27/2019 15:09	NP
Surr: Toluene-d8	103		0	70-130	%REC	275122	1	02/27/2019 15:09	NP
Oxygenates SW8260D					**(SW5030B)**				
3,3-Dimethyl-1-butanol	BRL		24	100	ug/L	275122	1	02/27/2019 15:09	NP
Ethanol	BRL		43	100	ug/L	275122	1	02/27/2019 15:09	NP
Ethyl tert-butyl ether	BRL		3.6	100	ug/L	275122	1	02/27/2019 15:09	NP
Isopropyl ether	BRL		3.8	10	ug/L	275122	1	02/27/2019 15:09	NP
tert-Amyl alcohol	BRL		28	100	ug/L	275122	1	02/27/2019 15:09	NP
tert-Amyl methyl ether	BRL		3.4	10	ug/L	275122	1	02/27/2019 15:09	NP
tert-Butyl Alcohol	BRL		13	100	ug/L	275122	1	02/27/2019 15:09	NP
tert-Butyl formate	BRL		13	100	ug/L	275122	1	02/27/2019 15:09	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Clear Save as

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: **Access Analytical, Inc.** AES Work Order Number: **1902N48**

2. Carrier: FedEx ■ UPS ☐ USPS ☐ Client ☐ Courier ☐ Other: _____

		Yes	No	N/A	Details	Comments
3.	Shipping container/cooler received in good condition?	⊙	○	○	damaged ☐ leaking ☐ other ☐	
4.	Custody seals present on shipping container?	○	⊙	○		
5.	Custody seals intact on shipping container?	○	○	⊙		
6.	Temperature blanks present?	○	⊙	○		
7.	Cooler temperature(s) within limits of 0-6°C? (See item 13 and 14 for temperature recordings.)	⊙	○	○	Cooling initiated for recently collected samples / ice present ☐	
8.	Chain of Custody (COC) present?	⊙	○	○		
9.	Chain of Custody signed, dated, and timed when relinquished and received?	⊙	○	○		
10.	Sampler name and/or signature on COC?	⊙	○	○		
11.	Were all samples received within holding time?	⊙	○	○		
12.	TAT marked on the COC?	⊙	○	○	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. ☐	

13. Cooler 1 Temperature 4.3 °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C

14. Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). MH 2/26/19

		Yes	No	N/A	Details	Comments
16.	Were sample containers intact upon receipt?	⊙	○	○		
17.	Custody seals present on sample containers?	○	⊙	○		
18.	Custody seals intact on sample containers?	○	○	⊙		
19.	Do sample container labels match the COC?	⊙	○	○	incomplete info ☐ illegible ☐ no label ☐ other ☐	
20.	Are analyses requested indicated on the COC?	⊙	○	○		
21.	Were all of the samples listed on the COC received?	⊙	○	○	samples received but not listed on COC ☐ samples listed on COC not received ☐	
22.	Was the sample collection date/time noted?	⊙	○	○		
23.	Did we receive sufficient sample volume for indicated analyses?	⊙	○	○		
24.	Were samples received in appropriate containers?	⊙	○	○		
25.	Were VOA samples received without headspace (< 1/4" bubble)?	○	⊙	○		
26.	Were trip blanks submitted?	⊙	○	○	listed on COC ☐ not listed on COC ■	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). MH 2/26/19

This section only applies to samples where pH can be checked at Sample Receipt.

		Yes	No	N/A	Details	Comments
28.	Have containers needing chemical preservation been checked? *	○	○	⊙		
29.	Containers meet preservation guidelines?	○	○	⊙		
30.	Was pH adjusted at Sample Receipt?	○	○	⊙		

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

I certify that I have completed sections 28-30 (dated initials). MH 2/26/19

Checklist 6.9.17 Rev 2

Locked

Client: Crawford Environmental Services
Project Name: Clouds Exxon
Workorder: 1902N48

ANALYTICAL QC SUMMARY REPORT

BatchID: 275120

Sample ID: MB-275120	Client ID:			Units: ug/L	Prep Date: 02/27/2019	Run No: 392031
SampleType: MBLK	TestCode: Volatile Organic Compounds by GC/MS SW8260D			BatchID: 275120	Analysis Date: 02/27/2019	Seq No: 8774744

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	BRL	1.0									
Benzene	BRL	1.0									
Ethylbenzene	BRL	1.0									
Methyl tert-butyl ether	BRL	1.0									
Naphthalene	BRL	5.0									
Toluene	BRL	1.0									
Xylenes, Total	BRL	1.0									
Surr: 4-Bromofluorobenzene	53.62	0	50.00		107	70	130				
Surr: Dibromofluoromethane	52.80	0	50.00		106	70	130				
Surr: Toluene-d8	51.90	0	50.00		104	70	130				

Sample ID: MB-275120	Client ID:			Units: ug/L	Prep Date: 02/27/2019	Run No: 392031
SampleType: MBLK	TestCode: Oxygenates SW8260D			BatchID: 275120	Analysis Date: 02/27/2019	Seq No: 8775048

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
3,3-Dimethyl-1-butanol	BRL	100									
Ethanol	BRL	100									
Ethyl tert-butyl ether	BRL	100									
Isopropyl ether	BRL	10									
tert-Amyl alcohol	BRL	100									
tert-Amyl methyl ether	BRL	10									
tert-Butyl Alcohol	BRL	100									
tert-Butyl formate	BRL	100									

Sample ID: LCS-275120	Client ID:			Units: ug/L	Prep Date: 02/27/2019	Run No: 392031
SampleType: LCS	TestCode: Volatile Organic Compounds by GC/MS SW8260D			BatchID: 275120	Analysis Date: 02/27/2019	Seq No: 8774743

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method Blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Crawford Environmental Services
Project Name: Clouds Exxon
Workorder: 1902N48

ANALYTICAL QC SUMMARY REPORT

BatchID: 275120

Sample ID: LCS-275120	Client ID:	Units: ug/L	Prep Date: 02/27/2019	Run No: 392031
SampleType: LCS	TestCode: Volatile Organic Compounds by GC/MS SW8260D	BatchID: 275120	Analysis Date: 02/27/2019	Seq No: 8774743

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	49.18	1.0	50.00		98.4	70	130				
Benzene	51.22	1.0	50.00		102	70	130				
Ethylbenzene	54.70	1.0	50.00		109	70	130				
Naphthalene	50.85	5.0	50.00		102	70	130				
Toluene	53.82	1.0	50.00		108	70	130				
Xylenes, Total	168.2	1.0	150.0		112	70	130				
Surr: 4-Bromofluorobenzene	55.52	0	50.00		111	70	130				
Surr: Dibromofluoromethane	52.61	0	50.00		105	70	130				
Surr: Toluene-d8	53.01	0	50.00		106	70	130				

Sample ID: LCS-275120	Client ID:	Units: ug/L	Prep Date: 02/27/2019	Run No: 392031
SampleType: LCS	TestCode: Oxygenates SW8260D	BatchID: 275120	Analysis Date: 02/27/2019	Seq No: 8775047

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
3,3-Dimethyl-1-butanol	464.8	100	500.0		93.0	70	130				
Ethanol	577.1	100	500.0		115	70	130				
Ethyl tert-butyl ether	87.30	20	100.0		87.3	70	130				
Isopropyl ether	86.65	10	100.0		86.6	70	130				
tert-Amyl alcohol	466.1	100	500.0		93.2	70	130				
tert-Amyl methyl ether	86.22	10	100.0		86.2	70	130				
tert-Butyl Alcohol	483.8	100	500.0		96.8	70	130				
tert-Butyl formate	440.2	100	500.0		88.0	70	130				

Sample ID: 1902N48-002AMS	Client ID: MW 3	Units: ug/L	Prep Date: 02/27/2019	Run No: 392031
SampleType: MS	TestCode: Volatile Organic Compounds by GC/MS SW8260D	BatchID: 275120	Analysis Date: 02/27/2019	Seq No: 8774764

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	30300	500	25000		121	67	136				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method Blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Crawford Environmental Services
Project Name: Clouds Exxon
Workorder: 1902N48

ANALYTICAL QC SUMMARY REPORT

BatchID: 275120

Sample ID: 1902N48-002AMS	Client ID: MW 3	Units: ug/L	Prep Date: 02/27/2019	Run No: 392031
SampleType: MS	TestCode: Volatile Organic Compounds by GC/MS SW8260D	BatchID: 275120	Analysis Date: 02/27/2019	Seq No: 8774764

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	33620	500	25000	5260	113	70.2	137				
Ethylbenzene	31450	500	25000	1540	120	73	135				
Naphthalene	27430	2500	25000	1615	103	57.1	136				
Toluene	50850	500	25000	20860	120	67	141				
Xylenes, Total	110400	500	75000	16630	125	77.9	138				
Surr: 4-Bromofluorobenzene	27860	0	25000		111	70	130				
Surr: Dibromofluoromethane	28480	0	25000		114	70	130				
Surr: Toluene-d8	26830	0	25000		107	70	130				

Sample ID: 1902N48-002AMS	Client ID: MW 3	Units: ug/L	Prep Date: 02/27/2019	Run No: 392031
SampleType: MS	TestCode: Oxygenates SW8260D	BatchID: 275120	Analysis Date: 02/27/2019	Seq No: 8775058

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
3,3-Dimethyl-1-butanol	251000	50000	250000		100	60.1	130				
Ethanol	307900	50000	250000		123	61.9	140				
Ethyl tert-butyl ether	53130	50000	50000		106	71.2	122				
Isopropyl ether	53310	5000	50000		107	71	133				
tert-Amyl alcohol	258300	50000	250000		103	69.7	140				
tert-Amyl methyl ether	51720	5000	50000		103	70.1	126				
tert-Butyl Alcohol	276200	50000	250000		110	67	140				
tert-Butyl formate	289400	50000	250000		116	60	134				

Sample ID: 1902N48-002AMSD	Client ID: MW 3	Units: ug/L	Prep Date: 02/27/2019	Run No: 392031
SampleType: MSD	TestCode: Volatile Organic Compounds by GC/MS SW8260D	BatchID: 275120	Analysis Date: 02/27/2019	Seq No: 8774765

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	29440	500	25000		118	67	136	30300	2.88	20	
Benzene	33680	500	25000	5260	114	70.2	137	33620	0.163	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method Blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Analytical Environmental Services, Inc Date: 4-Mar-19

Client: Crawford Environmental Services
Project Name: Clouds Exxon
Workorder: 1902N48

ANALYTICAL QC SUMMARY REPORT

BatchID: 275120

Sample ID: 1902N48-002AMSD	Client ID: MW 3	Units: ug/L	Prep Date: 02/27/2019	Run No: 392031
SampleType: MSD	TestCode: Volatile Organic Compounds by GC/MS SW8260D	BatchID: 275120	Analysis Date: 02/27/2019	Seq No: 8774765

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethylbenzene	31670	500	25000	1540	121	73	135	31450	0.713	20	
Naphthalene	29150	2500	25000	1615	110	57.1	136	27430	6.06	32.8	
Toluene	51470	500	25000	20860	122	67	141	50850	1.21	20	
Xylenes, Total	110600	500	75000	16630	125	77.9	138	110400	0.249	20	
Surr: 4-Bromofluorobenzene	27740	0	25000		111	70	130	27860	0	0	
Surr: Dibromofluoromethane	27750	0	25000		111	70	130	28480	0	0	
Surr: Toluene-d8	26490	0	25000		106	70	130	26830	0	0	

Sample ID: 1902N48-002AMSD	Client ID: MW 3	Units: ug/L	Prep Date: 02/27/2019	Run No: 392031
SampleType: MSD	TestCode: Oxygenates SW8260D	BatchID: 275120	Analysis Date: 02/27/2019	Seq No: 8775059

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
3,3-Dimethyl-1-butanol	264000	50000	250000		106	60.1	130	251000	5.06	25.3	
Ethanol	283100	50000	250000		113	61.9	140	307900	8.40	29	
Ethyl tert-butyl ether	54310	5000	50000		109	71.2	122	53130	2.20	20	
Isopropyl ether	53870	5000	50000		108	71	133	53310	1.04	20	
tert-Amyl alcohol	277500	50000	250000		111	69.7	140	258300	7.15	26.8	
tert-Amyl methyl ether	53610	5000	50000		107	70.1	126	51720	3.59	20	
tert-Butyl Alcohol	287600	50000	250000		115	67	140	276200	4.05	29.4	
tert-Butyl formate	292600	50000	250000		117	60	134	289400	1.10	18	

Qualifiers:

>	Greater than Result value	<	Less than Result value
BRL	Below reporting limit	E	Estimated (value above quantitation range)
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix
B	Analyte detected in the associated method blank		
H	Holding times for preparation or analysis exceeded		
R	RPD outside limits due to matrix		

Client: Crawford Environmental Services
Project Name: Clouds Exxon
Workorder: 1902N48

ANALYTICAL QC SUMMARY REPORT

BatchID: 275122

Sample ID: **MB-275122**	Client ID:			Units: **ug/L**	Prep Date: **02/27/2019**	Run No: **392031**
SampleType: **MBLK**	TestCode: **Volatile Organic Compounds by GC/MS SW8260D**			BatchID: **275122**	Analysis Date: **02/27/2019**	Seq No: **8774745**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	BRL	1.0									
Benzene	BRL	1.0									
Ethylbenzene	BRL	1.0									
Methyl tert-butyl ether	BRL	1.0									
Naphthalene	BRL	5.0									
Toluene	BRL	1.0									
Xylenes, Total	BRL	1.0									
Surr: 4-Bromofluorobenzene	52.29	0	50.00		105	70	130				
Surr: Dibromofluoromethane	53.45	0	50.00		107	70	130				
Surr: Toluene-d8	51.69	0	50.00		103	70	130				

Sample ID: **MB-275122**	Client ID:			Units: **ug/L**	Prep Date: **02/27/2019**	Run No: **392031**
SampleType: **MBLK**	TestCode: **Oxygenates SW8260D**			BatchID: **275122**	Analysis Date: **02/27/2019**	Seq No: **8775049**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
3,3-Dimethyl-1-butanol	BRL	100									
Ethanol	BRL	100									
Ethyl tert-butyl ether	BRL	100									
Isopropyl ether	BRL	10									
tert-Amyl alcohol	BRL	100									
tert-Amyl methyl ether	BRL	10									
tert-Butyl Alcohol	BRL	100									
tert-Butyl formate	BRL	100									

Sample ID: **LCS-275122**	Client ID:			Units: **ug/L**	Prep Date: **02/27/2019**	Run No: **392031**
SampleType: **LCS**	TestCode: **Volatile Organic Compounds by GC/MS SW8260D**			BatchID: **275122**	Analysis Date: **02/27/2019**	Seq No: **8774746**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method Blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Crawford Environmental Services
Project Name: Clouds Exxon
Workorder: 1902N48

ANALYTICAL QC SUMMARY REPORT

BatchID: 275122

Sample ID: LCS-275122	Client ID:			Units: ug/L		Prep Date: 02/27/2019		Run No: 392031	
SampleType: LCS	TestCode: Volatile Organic Compounds by GC/MS SW8260D			BatchID: 275122		Analysis Date: 02/27/2019		Seq No: 8774746	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	53.37	1.0	50.00		107	70	130				
Benzene	49.67	1.0	50.00		99.3	70	130				
Ethylbenzene	51.55	1.0	50.00		103	70	130				
Naphthalene	54.63	5.0	50.00		109	70	130				
Toluene	51.90	1.0	50.00		104	70	130				
Xylenes, Total	160.5	1.0	150.0		107	70	130				
Surr: 4-Bromofluorobenzene	52.84	0	50.00		106	70	130				
Surr: Dibromofluoromethane	53.31	0	50.00		107	70	130				
Surr: Toluene-d8	52.56	0	50.00		105	70	130				

Sample ID: LCS-275122	Client ID:			Units: ug/L		Prep Date: 02/27/2019		Run No: 392031	
SampleType: LCS	TestCode: Oxygenates SW8260D			BatchID: 275122		Analysis Date: 02/27/2019		Seq No: 8775051	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
3,3-Dimethyl-1-butanol	447.0	100	500.0		89.4	70	130				
Ethanol	486.3	100	500.0		97.3	70	130				
Ethyl tert-butyl ether	97.18	20	100.0		97.2	70	130				
Isopropyl ether	96.55	10	100.0		96.6	70	130				
tert-Amyl alcohol	450.7	100	500.0		90.1	70	130				
tert-Amyl methyl ether	96.73	10	100.0		96.7	70	130				
tert-Butyl Alcohol	455.7	100	500.0		91.1	70	130				
tert-Butyl formate	490.0	100	500.0		98.0	70	130				

Sample ID: 1902N48-022AMS	Client ID: MW 17			Units: ug/L		Prep Date: 02/27/2019		Run No: 392031	
SampleType: MS	TestCode: Volatile Organic Compounds by GC/MS SW8260D			BatchID: 275122		Analysis Date: 02/27/2019		Seq No: 8774769	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	531.6	10	500.0		106	67	136				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method Blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Crawford Environmental Services
Project Name: Clouds Exxon
Workorder: 1902N48

ANALYTICAL QC SUMMARY REPORT

BatchID: 275122

Sample ID: 1902N48-022AMS	Client ID: MW 17	Units: ug/L	Prep Date: 02/27/2019	Run No: 392031
SampleType: MS	TestCode: Volatile Organic Compounds by GC/MS SW8260D	BatchID: 275122	Analysis Date: 02/27/2019	Seq No: 8774769

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	534.1	10	500.0	8.300	105	70.2	137				
Ethylbenzene	633.2	10	500.0	66.80	113	73	135				
Naphthalene	619.3	50	500.0	68.90	110	57.1	136				
Toluene	568.5	10	500.0	19.90	110	67	141				
Xylenes, Total	1869	10	1500	132.1	116	77.9	138				
Surr: 4-Bromofluorobenzene	543.1	0	500.0		109	70	130				
Surr: Dibromofluoromethane	541.0	0	500.0		108	70	130				
Surr: Toluene-d8	525.2	0	500.0		105	70	130				

Sample ID: 1902N48-022AMS	Client ID: MW 17	Units: ug/L	Prep Date: 02/27/2019	Run No: 392031
SampleType: MS	TestCode: Oxygenates SW8260D	BatchID: 275122	Analysis Date: 02/27/2019	Seq No: 8775063

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
3,3-Dimethyl-1-butanol	4866	1000	5000		97.3	60.1	130				
Ethanol	4662	1000	5000		93.2	61.9	140				
Ethyl tert-butyl ether	1035	100	1000		104	71.2	122				
Isopropyl ether	1002	100	1000		100	71	133				
tert-Amyl alcohol	5216	1000	5000		104	69.7	140				
tert-Amyl methyl ether	1030	100	1000		103	70.1	126				
tert-Butyl Alcohol	5813	1000	5000		116	67	140				
tert-Butyl formate	4271	1000	5000		85.4	60	134				

Sample ID: 1902N48-022AMSD	Client ID: MW 17	Units: ug/L	Prep Date: 02/27/2019	Run No: 392031
SampleType: MSD	TestCode: Volatile Organic Compounds by GC/MS SW8260D	BatchID: 275122	Analysis Date: 02/27/2019	Seq No: 8774770

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	542.3	10	500.0		108	67	136	531.6	1.99	20	
Benzene	535.4	10	500.0	8.300	105	70.2	137	534.1	0.243	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method Blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Analytical Environmental Services, Inc Date: 4-Mar-19

Client: Crawford Environmental Services
Project Name: Clouds Exxon
Workorder: 1902N48

ANALYTICAL QC SUMMARY REPORT

BatchID: 275122

Sample ID: 1902N48-022AMSD	Client ID: MW 17	Units: ug/L	Prep Date: 02/27/2019	Run No: 392031
SampleType: MSD	TestCode: Volatile Organic Compounds by GC/MS SW8260D	BatchID: 275122	Analysis Date: 02/27/2019	Seq No: 8774770

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethylbenzene	640.2	10	500.0	66.80	115	73	135	633.2	1.10	20	
Naphthalene	636.6	50	500.0	68.90	114	57.1	136	619.3	2.76	32.8	
Toluene	579.5	10	500.0	19.90	112	67	141	568.5	1.92	20	
Xylenes, Total	1899	10	1500	132.1	118	77.9	138	1869	1.60	20	
Surr: 4-Bromofluorobenzene	555.5	0	500.0		111	70	130	543.1	0	0	
Surr: Dibromofluoromethane	541.4	0	500.0		108	70	130	541.0	0	0	
Surr: Toluene-d8	535.7	0	500.0		107	70	130	525.2	0	0	

Sample ID: 1902N48-022AMSD	Client ID: MW 17	Units: ug/L	Prep Date: 02/27/2019	Run No: 392031
SampleType: MSD	TestCode: Oxygenates SW8260D	BatchID: 275122	Analysis Date: 02/27/2019	Seq No: 8775064

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
3,3-Dimethyl-1-butanol	5208	1000	5000		104	60.1	130	4866	6.79	25.3	
Ethanol	5222	1000	5000		104	61.9	140	4662	11.3	29	
Ethyl tert-butyl ether	1024	100	1000		102	71.2	122	1035	1.05	20	
Isopropyl ether	985.4	100	1000		98.5	71	133	1002	1.71	20	
tert-Amyl alcohol	5450	1000	5000		109	69.7	140	5216	4.39	26.8	
tert-Amyl methyl ether	1024	100	1000		102	70.1	126	1030	0.536	20	
tert-Butyl Alcohol	6307	1000	5000		126	67	140	5813	8.16	29.4	
tert-Butyl formate	4160	1000	5000		83.2	60	134	4271	2.65	18	

Qualifiers:

>	Greater than Result value	<	Less than Result value
B	Analyte detected in the associated method Blank	BRL	Below reporting limit
E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified
R	RPD outside limits due to matrix	Rpt Lim	Reporting Limit
S	Spike Recovery outside limits due to matrix		

Appendix B

Groundwater Sampling Data Sheets

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 2- -19	Site ID #: 07584, 07777, 12352	Site Name: Clouds Exxon	Field Personnel: WF BF
County: Richland	Project Manager: DAN Fike	General Weather Conditions: Cloudy Rain	Ambient Air Temp (°F): 40

Quality Assurance

Meter Name	Serial #	Calibration			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C. Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

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

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)								
PH (s.u.)								
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								

Sampling Data

Sampled By: BF WF	Sampling Time:	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

Signature: _____

D H E C

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

Site Information

Date: 2- -19	Site ID #: 07584, 07777, 12352	Site Name: Clouds Exxon
County: Richland	Project Manager: Dan Fisher	Field Personnel: B.E. W.F

Well Gauging Information

Well ID:	Total Well Depth (ft.)	Screened Interval (ft.)	Depth to Free Product (ft.)	Depth to Ground water (ft.)	Free Product Thickness (ft.)	Confirmed with Bailer?	Photos Taken ?	Well Pad OK?	Bolts in Well Cover?	Water in Well Vault?
mw-1	27	10	-	dry at 17.45	-					
mw-2	30	10	-	22.24	-					
mw-3	29	10	-	21.43	-					
mw-4	28	10	-	21.11	-					
mw-5	26	10	-	dry at 22.25	-					
mw-6	30	10	-	22.25	-					
mw-7	30	10	-	22.65	-					
mw-8	28	9.5	-	20.08	-					
mw-9	30	10	-	22.54	-					
mw-10	28	10	-	15.01	-					
mw-11	30	unknown		17.83						
mw-12	30	unknown	-	22.70	-					
~~MW-13~~ OW-1	70	5	-	44.02	-					

Notes: _____

Signature: _____

D H E C

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

Site Information

Date: 2- -19	Site ID #: 07584, 07777, 12352	Site Name: Clouds Exxon
County: Richland	Project Manager: Dan Fisher	Field Personnel: B.E. W.F

Well Gauging Information

Well ID:	Total Well Depth (ft.)	Screened Interval (ft.)	Depth to Free Product (ft.)	Depth to Ground water (ft.)	Free Product Thickness (ft.)	Confirmed with Bailer?	Photos Taken ?	Well Pad OK?	Bolts in Well Cover?	Water in Well Vault?
mw-15	25	10	–	15.67	–					
mw-16	25	10								
mw-17	22	10								
mw-18	30	10	–	23.58	–					
mw-30	30	15	–	20.49	–					
mw-31	35	15		24.40						
mw-32	30	15		21.15						
mw-33	35	15	–	23.06	–					
mw-34	35	15	–	23.92	–					
mw-35	35	15	–	23.01	–					
mw-36	35	15	–	22.81	–					
mw-37	35	15	–	23.13	–					
mw-38	35	15	–	24.45	–					

Notes: _____

Signature: _____

D H E C

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

Site Information

Date: 2- -19	Site ID #: 07584, 07777, 12352	Site Name: Clouds Exxon
County: Richland	Project Manager: Dan Fisher	Field Personnel: B.E. W.F

Well Gauging Information

Well ID:	Total Well Depth (ft.)	Screened Interval (ft.)	Depth to Free Product (ft.)	Depth to Ground water (ft.)	Free Product Thickness (ft.)	Confirmed with Bailer?	Photos Taken ?	Well Pad OK?	Bolts in Well Cover?	Water in Well Vault?
MW-2	75	5	—	43.30	—					
MW-27	30	15	—	17.06	—					
MW-26	30	15	—	16.57	—					
MW-29	30	15	—	16.45	—					
MW-22	30	10	—	21.10	—					
MW-5AR	25	10	—	21.04	—					
MW-25	25.6	unknown								
MW-20	25	10	—	21.98	—					
MW-1R	50	5	—	22.72	—					
OW-4	110	5	—	43.26	—					
OW-3	52	5	—	25.32	—					
MW-19	30	10	—	23.31	—					
MW-23	30	10	—	23.55	—					

Notes: _____

Signature: _____

D H E C

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

Site Information

Date: 2- -19	Site ID #: 07584, 07777, 12352	Site Name: Clouds Exxon
County: Richland	Project Manager: Dan Fisher	Field Personnel: B.E. W.F

Well Gauging Information

Well ID:	Total Well Depth (ft.)	Screened Interval (ft.)	Depth to Free Product (ft.)	Depth to Ground water (ft.)	Free Product Thickness (ft.)	Confirmed with Bailer?	Photos Taken ?	Well Pad OK?	Bolts in Well Cover?	Water in Well Vault?
mw-43	40	20		23.75						
mw-44	31	15		22.02						
mw-45	30	15		21.03						
mw-46	35	15		23.38						
mw-48	30	15	Locked							
mw-49	30	15		15.93						
mw-50	30	15		13.72						
mw-51	35	15								
mw-52	N/A	N/A								
mw-53	20	15		9.67						
mw-55	14	10		2.18						
mw-56	20	15		7.35						
mw-59	17	15								

Notes: _____

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_____

_____ Signature: _____

D H E C

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

Site Information

Date: 2- -19	Site ID #: 07584, 07777, 12352	Site Name: Clouds Exxon
County: Richland	Project Manager: Dan Fisher	Field Personnel: B.E. W.F

Well Gauging Information

Well ID:	Total Well Depth (ft.)	Screened Interval (ft.)	Depth to Free Product (ft.)	Depth to Ground water (ft.)	Free Product Thickness (ft.)	Confirmed with Bailer?	Photos Taken ?	Well Pad OK?	Bolts in Well Cover?	Water in Well Vault?
mw-62	35	15		22.73						
mw-63	35	15		23.65						
mw-65	35	15								
mw-67	35	15		25.35						
mw-70	35	15		24.68						
[illegible]-DW5	70	5	-	43.26	-					
[illegible]DW-9	65	5		23.87						
mw-41	35	15	-	25.24	-					
mw 40	35	15		24.80						
[illegible]				[illegible]						
mw										
mw										
mw										

Notes: _____

_____

_____

_____ Signature: _____

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 2- -19	Site ID #: 07884, 07777, 12352	Site Name: Clouds Exxon	Field Personnel: WF BF
County: Richland	Project Manager: Dan Fike	General Weather Conditions: Cloudy Rain	Ambient Air Temp (°F): 40

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

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

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)								
PH (s.u.)								
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								

Sampling Data

Sampled By: BF WF	Sampling Time: 1045	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

_____

_____ Signature: _____

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 2-20-19	Site ID#: 07574, 07777, 12352	Site Name: Clouds Exxon	Field Personnel: WF BF
County: Richland	Project Manager: DAN Rike	General Weather Conditions: Cloudy Rain	Ambient Air Temp (°F): 40

Quality Assurance

Meter Name	Serial #	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C. Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW3	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 20 to 30 29-10		Total Well Depth (TWD) (ft.): 29
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 21.43		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	1345							
PH (s.u.)	5.92							
Specific Conductivity (uS/cm)	220							
Water Temperature (°C)	21.26							
Turbidity (NTU)	209							
Dissolved Oxygen (mg/L)	6.60							

Sampling Data

Sampled By: BF WF	Sampling Time: 1345	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

Signature: _____

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 2-20-19	Site ID #: 07884, 07777, 12352	Site Name: Clouds Exxon	Field Personnel: WF BF
County: Richland	Project Manager: DAN Fike	General Weather Conditions: Cloudy Rain	Ambient Air Temp (°F): 40

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 02	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.662	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): [illegible] to [illegible] 30-10		Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): [illegible] 22.24		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	1355							
PH (s.u.)	5.99							
Specific Conductivity (µS/cm)	258							
Water Temperature (°C)	20.75							
Turbidity (NTU)	177							
Dissolved Oxygen (mg/L)	5.24							

Sampling Data

Sampled By: BF WF	Sampling Time: 1355	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: _____

_____ Signature: _____

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 2-20-19	Site ID #: 09584, 07777, 12352	Site Name: Clouds Exxon	Field Personnel: WF BF
County: Richland	Project Manager: DAN Fike	General Weather Conditions: Cloudy Rain	Ambient Air Temp (°F): 40

Quality Assurance

Meter Name	Serial #	Calibration			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 9	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 30 to 10		Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 22.54		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	1410							
PH (s.u.)	6.12							
Specific Conductivity (µS/cm)	304							
Water Temperature (°C)	21.01							
Turbidity (NTU)	525							
Dissolved Oxygen (mg/L)	5.17							

Sampling Data

Sampled By: BF WF	Sampling Time:	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

Signature: _____

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 2-20-19	Site ID #: 07584, 07777, 12352	Site Name: Clouds Exxon	Field Personnel: WF BF
County: Richland	Project Manager: DAN Fike	General Weather Conditions: Cloudy Rain	Ambient Air Temp (°F): 40

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 10	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 28 to 10		Total Well Depth (TWD) (ft.): 28
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 15.01		Free Product Thickness (ft.)
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0	0						
Time (military)	~~1426~~	1420						
PH (s.u.)		6.62						
Specific Conductivity (µS/cm)		368						
Water Temperature (°C)	Pre Purge Bottle	17.93						
Turbidity (NTU)		>1000						
Dissolved Oxygen (mg/L)		3.56						

Sampling Data

Sampled By: BF WF	Sampling Time: 1420	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: _____

_____ Signature: _____

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 2-20-19	Site ID #: 07584, 07777, 12352	Site Name: Clouds Exxon	Field Personnel: WF BF
County: Richland	Project Manager: DAN Fisher	General Weather Conditions: Cloudy Rain	Ambient Air Temp (°F): 40

Quality Assurance

Meter Name	Serial #:	Calibration			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 15	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 25 to 10	Total Well Depth (TWD) (ft.): 25
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 15.67		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	1430							
PH (s.u.)	6.51							
Specific Conductivity (µS/cm)	273							
Water Temperature (°C)	18.80							
Turbidity (NTU)	~1000							
Dissolved Oxygen (mg/L)	4.37							

Sampling Data

Sampled By: BE WF	Sampling Time: 1430	Duplicate: Y or N	If yes, Duplicate Time: 1435

Notes: _____

_____ Signature: _____

DHEC 0423 (10/2012)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 2- -19	Site ID #: 07584, 07777, 12352	Site Name: Clouds Exxon	Field Personnel: WF BF
County: Richland	Project Manager: DAN Fike	General Weather Conditions: cloudy Rain	Ambient Air Temp (°F): 40

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C. Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 22	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 30 to 10	Total Well Depth (TWD) (ft.): 30	
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 21.10	Free Product Thickness (ft.):	
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):	3 casing volumes (3 x CV) (gals.):	

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	0800							
PH (s.u.)	5.84							
Specific Conductivity (µS/cm)	0.350							
Water Temperature (°C)	18.57							
Turbidity (NTU)	2.92							
Dissolved Oxygen (mg/L)	5.52							

Sampling Data

Sampled By: BF WF	Sampling Time: 0800	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

Signature: _____

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 2- -19	Site ID #: 09574, 07777, 12352	Site Name: Clouds Exxon	Field Personnel: WF BF
County: Richland	Project Manager: DAN Fike	General Weather Conditions: Cloudy Rain	Ambient Air Temp (°F): 40

Quality Assurance

Meter Name	Serial #	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-5AR	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 18 to 28 10		Total Well Depth (TWD) (ft.): 28
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 21.04		Free Product Thickness (ft.): —
Length of water column (LWC = TWD – DGW) (ft.): 6.96	1 casing volume (CV = LWC x C) (gals.)		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	0810							
PH (s.u.)	6.44							
Specific Conductivity (µS/cm)	0.648							
Water Temperature (°C)	20.29							
Turbidity (NTU)	178							
Dissolved Oxygen (mg/L)	4.31							

Sampling Data

Sampled By: BF WF	Sampling Time: 0810	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

_____ Signature: _____

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 2- -19	Site ID #: 09584, 07773, 12352	Site Name: Clouds Exxon	Field Personnel: WF BF
County: Richland	Project Manager: DAN Fike	General Weather Conditions: Cloudy Rain	Ambient Air Temp (°F): 40

Quality Assurance

Meter Name	Serial #	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW2D	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 25 to 10		Total Well Depth (TWD) (ft.): 23
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 21.58		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.)		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	0820							
PH (s.u.)	6.10							
Specific Conductivity (uS/cm)	0.392							
Water Temperature (°C)	21.01							
Turbidity (NTU)	13.9							
Dissolved Oxygen (mg/L)	2.71							

Sampling Data

Sampled By: BF WF	Sampling Time:	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

_____

_____ Signature: _____

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 2- - 19	Site ID#: 07584, 07777, 12352	Site Name: Clouds Exxon	Field Personnel: WF BF
County: Richland	Project Manager: DAN Fike	General Weather Conditions: Cloudy Rain	Ambient Air Temp (°F): 40

Quality Assurance

Meter Name	Serial #	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: ~~MW~~ RW-1R	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 5 to		Total Well Depth (TWD) (ft.): 50
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 22.72		Free Product Thickness (ft.): —
Length of water column (LWC = TWD – DGW) (ft.): 27.28	1 casing volume (CV = LWC x C) (gals.): 4.4		3 casing volumes (3 x CV) (gals.): 13.3

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0	4.4	8.8	13.3				
Time (military)	0830	0835	DRY					
PH (s.u.)	6.21	6.25						
Specific Conductivity (µS/cm)	15	22						
Water Temperature (°C)	22.67	22.55						
Turbidity (NTU)	279	0.0						
Dissolved Oxygen (mg/L)	2.04	4.32						

Sampling Data

Sampled By: BF WF	Sampling Time: 0835	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

Signature: _____

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 2- -19	Site ID #: 07584, 02777, 12352	Site Name: Clouds Exxon	Field Personnel: WF BF
County: Richland	Project Manager: DAN Fike	General Weather Conditions: Cloudy Rain	Ambient Air Temp (°F): 40

Quality Assurance

Meter Name	Serial #	Calibration			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: RW-3	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): to 5		Total Well Depth (TWD) (ft.): 52
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 23.32		Free Product Thickness (ft.): —
Length of water column (LWC = TWD – DGW) (ft.): 28.68	1 casing volume (CV = LWC x C) (gals.): 4.6		3 casing volumes (3 x CV) (gals.): 14

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0	4.6	9	14				
Time (military)	0840	0845	0850	0855				
PH (s.u.)	6.56	6.50	6.34	6.27				
Specific Conductivity (µS/cm)	0.115	0.126	0.199	0.208				
Water Temperature (°C)	22.05	22.83	23.01	22.88				
Turbidity (NTU)	529	495	600	225				
Dissolved Oxygen (mg/L)	7.21	5.70	4.99	5.56				

Sampling Data

Sampled By: BF WF	Sampling Time: 0855	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

Signature: _____

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 2- -19	Site ID #: 07584, 07777, 12352	Site Name: Clouds Exxon	Field Personnel: WF BF
County: Richland	Project Manager: DAN Fike	General Weather Conditions: Cloudy Rain	Ambient Air Temp (°F): 40

Quality Assurance

Meter Name	Serial #	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 19	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 30 to 10		Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 23.31		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	0900							
PH (s.u.)	5.98							
Specific Conductivity (µS/cm)	0.280							
Water Temperature (°C)	22.62							
Turbidity (NTU)	107							
Dissolved Oxygen (mg/L)	4.27							

Sampling Data

Sampled By: BF WF	Sampling Time: 0900	Duplicate: Y or N	If yes: Duplicate Time:

Notes: _____

_____ Signature: _____

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 2- -19	Site ID#: 07584, 07773, 12352	Site Name: Clouds Exxon	Field Personnel: WF BF
County: Richland	Project Manager: DAN Fike	General Weather Conditions: Cloudy Rain	Ambient Air Temp (°F): 40

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 23	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 30 to 10		Total Well Depth (TWD) (ft.): 30
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 23.55		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.)		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	0910							
PH (s.u.)	5.99							
Specific Conductivity (µS/cm)	0.336							
Water Temperature (°C)	22.35							
Turbidity (NTU)	323							
Dissolved Oxygen (mg/L)	4.15							

Sampling Data

Sampled By: BE WF	Sampling Time: 0910	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

_____ Signature: _____

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 2- -19	Site ID #: 07884, 07793, 12352	Site Name: Clouds Exxon	Field Personnel: WF BF
County: Richland	Project Manager: DAN Fike	General Weather Conditions: Cloudy Rain	Ambient Air Temp (°F): 40

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0 Y or N	pH 7.0 Y or N	pH 10.0 Y or N	S.C., Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 18	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 20 to 10		Total Well Depth (TWD) (ft.): 20
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 23.58		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Past	Sampling
Volume Purged (gallons)	0							
Time (military)	0920							
PH (s.u.)	5.53							
Specific Conductivity (µS/cm)	0.198							
Water Temperature (°C)	22.62							
Turbidity (NTU)	123							
Dissolved Oxygen (mg/L)	5.95							

Sampling Data

Sampled By: BE WF	Sampling Time: 0920	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

Signature: _____

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 2- -19	Site ID #: 07584, 07773, 12352	Site Name: Clouds Exxon	Field Personnel: WF BF
County: Richland	Project Manager: DAN Fike	General Weather Conditions: Cloudy Rain	Ambient Air Temp (°F): 40

Quality Assurance

Meter Name	Serial #	Calibration			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0 Y or N	pH 7.0 Y or N	pH 10.0 Y or N	S.C. Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 33	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 35 to 15		Total Well Depth (TWD) (ft.): 35
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 23.06		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	0930							
PH (s.u.)	5.60							
Specific Conductivity (µS/cm)	0.139							
Water Temperature (°C)	23.14							
Turbidity (NTU)	47.5							
Dissolved Oxygen (mg/L)	3.57							

Sampling Data

Sampled By: BF WF	Sampling Time: 0940	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

_____ Signature: _____

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 2- -19	Site ID #: 07584, 07777, 12352	Site Name: Clouds Exxon	Field Personnel: WF BF
County: Richland	Project Manager: DAN Fike	General Weather Conditions: cloudy Rain	Ambient Air Temp (°F): 40

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C. Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW35	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 35 to 15		Total Well Depth (TWD) (ft.): 35
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 22.01		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	0940							
PH (s.u.)	5.75							
Specific Conductivity (µS/cm)	0.154							
Water Temperature (°C)	22.50							
Turbidity (NTU)	60.7							
Dissolved Oxygen (mg/L)	4.90							

Sampling Data

Sampled By: BF WF	Sampling Time: 0940	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

_____ Signature: _____

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 2- -19	Site ID #: 07584, 07777, 12352	Site Name: Clouds Exxon	Field Personnel: WF BF
County: Richland	Project Manager: DAN Fike	General Weather Conditions: Cloudy Rain	Ambient Air Temp (°F): 40

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C. Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 37	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 35 to 15	Total Well Depth (TWD) (ft.): 35	
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 23.13	Free Product Thickness (ft.):	
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):	3 casing volumes (3 x CV) (gals.):	

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	0950							
PH (s.u.)	5.16							
Specific Conductivity (µS/cm)	0.106							
Water Temperature (°C)	22.66							
Turbidity (NTU)	244							
Dissolved Oxygen (mg/L)	9.69							

Sampling Data

Sampled By: BE WF	Sampling Time: 0950	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

Signature: _____

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 2- -19	Site ID #: 07554, 07777, 12352	Site Name: Clouds Exxon	Field Personnel: WF BF
County: Richland	Project Manager: DAN Fisher	General Weather Conditions: Cloudy Rain	Ambient Air Temp (°F): 40

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 31	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other: ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 35 to 15		Total Well Depth (TWD) (ft.): 35
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 24.40		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	1000							
PH (s.u.)	5.11							
Specific Conductivity (µS/cm)	0.088							
Water Temperature (°C)	21.23							
Turbidity (NTU)	74.5							
Dissolved Oxygen (mg/L)	4.09							

Sampling Data

Sampled By: BF WF	Sampling Time: 1000	Duplicate: Y or N	If yes, Duplicate Time: 1005

Notes: ___

Signature: ___

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 2- - 19	Site ID #: 07584, 07777, 12352	Site Name: Clouds Exxon	Field Personnel: WF BF
County: Richland	Project Manager: DAN Fike	General Weather Conditions: Cloudy Rain	Ambient Air Temp (°F): 40

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 41	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump

X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 70 to 35	Total Well Depth (TWD) (ft.): 35
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 25.24	Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):	3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	1015							
PH (s.u.)	5.61							
Specific Conductivity (µS/cm)	0.131							
Water Temperature (°C)	20.88							
Turbidity (NTU)	166							
Dissolved Oxygen (mg/L)	4.96							

Sampling Data

Sampled By: BF WF	Sampling Time: 1015	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

_____ Signature: _____

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 2- - 19	Site ID #: 07584, 07777, 12352	Site Name: Clouds Exxon	Field Personnel: WF BF
County: Richland	Project Manager: DAN Filer	General Weather Conditions: Cloudy Rain	Ambient Air Temp (°F): 40

Quality Assurance

Meter Name	Serial #	Calibration			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID:	Well Diameter (ft.):	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection
MW 40	2		X Bailer ___ Pump

X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 5 to 20	Total Well Depth (TWD) (ft.): 35
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 24.80	Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):	3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	1025							
PH (s.u.)	5.48							
Specific Conductivity (µS/cm)	0.159							
Water Temperature (°C)	20.64							
Turbidity (NTU)	199							
Dissolved Oxygen (mg/L)	5.29							

Sampling Data

Sampled By: BF WF	Sampling Time: 1025	Duplicate: Y or N	If yes, Duplicate Time:

Notes: ___

Signature: ___

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 2- -19	Site ID #: 07584, 07777, 12352	Site Name: Clouds Exxon	Field Personnel: WF BF
County: Richland	Project Manager: DAN Fike	General Weather Conditions: Cloudy Rain	Ambient Air Temp (°F): 40

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 17	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 22 to 10		Total Well Depth (TWD) (ft.): 22
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 22.08		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	~~1055~~ 1055							
PH (s.u.)	5.82							
Specific Conductivity (µS/cm)	0.676							
Water Temperature (°C)	22.29							
Turbidity (NTU)	636							
Dissolved Oxygen (mg/L)	7.12							

Sampling Data

Sampled By: BF WF	Sampling Time: 1095	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

Signature: _____

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 2- -19	Site ID #: 07584, 07777, 12352	Site Name: Clouds Exxon	Field Personnel: WF BF
County: Richland	Project Manager: DAN Fike	General Weather Conditions: Cloudy Rain	Ambient Air Temp (°F): 40

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 58	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): to	Total Well Depth (TWD) (ft.):	
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.):	Free Product Thickness (ft.):	
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):	3 casing volumes (3 x CV) (gals.):	

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)								
PH (s.u.)								
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								

Sampling Data

Sampled By: BF WF	Sampling Time:	Duplicate: Y or N	If yes, Duplicate Time:

Notes: under ~~DISPENSER~~ CAP
Broken down

Signature: _____

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 2- -19	Site ID #: 07584, 07777, 12352	Site Name: Clouds Exxon	Field Personnel: WF BF
County: Richland	Project Manager: DAN Fike	General Weather Conditions: Cloudy Rain	Ambient Air Temp (°F): 40

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 54	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): to		Total Well Depth (TWD) (ft.):
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.):		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.)		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)								
PH (s.u.)								
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								

Sampling Data

Sampled By: BE WF	Sampling Time:	Duplicate: Y or N	If yes, Duplicate Time:

Notes: PAVED OVER in new parking lot

Signature: _____

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 2- - 19	Site ID #: 07584, 07777, 12352	Site Name: Clouds Exxon	Field Personnel: WF BF
County: Richland	Project Manager: DAN Fisher	General Weather Conditions: Cloudy Rain	Ambient Air Temp (°F): 40

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 39	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): to	Total Well Depth (TWD) (ft.):
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.):		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)								
PH (s.u.)								
Specific Conductivity (uS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								

Sampling Data

Sampled By: BE WF	Sampling Time:	Duplicate: Y or N	If yes, Duplicate Time:

Notes: NOT Found ~~[illegible]~~
LOT Turned into Foot Ball Field

Signature: _____

DHEC 0423 (10/2012)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 2- - 19	Site ID #: 07584, 07777, 12352	Site Name: Clouds Exxon	Field Personnel: WF BF
County: Richland	Project Manager: DAN Fike	General Weather Conditions: cloudy Rain	Ambient Air Temp (°F): 40

Quality Assurance

Meter Name	Serial #:	Calibration			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID:	Well Diameter (ft.):	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection:
MW12	2		X Bailer ___ Pump

X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): to	Total Well Depth (TWD) (ft.):
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.):	Free Product Thickness (ft.):
Length of water column (LWC = TWD - DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):	3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)								
PH (s.u.)								
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								

Sampling Data

Sampled By: BF WF	Sampling Time:	Duplicate: Y or N	If yes, Duplicate Time:

Notes: paved over in parking lot

Signature: _____

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date	Site ID #	Site Name	Field Personnel
2- -19	07584, 07777, 12352	Clouds Exxon	WF BF

County	Project Manager	General Weather Conditions	Ambient Air Temp (°F)
Richland	DAN Fike	Cloudy Rain	40

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

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

X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.):	Total Well Depth (TWD) (ft.):
	26 to 10	26

Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.):	Free Product Thickness (ft.):
	DRY 22.25	
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):	3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)								
PH (s.u.)								
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								

Sampling Data

Sampled By: BF WF	Sampling Time:	Duplicate: Y or N	If yes, Duplicate Time:

Notes: Blocked at 22.25

Signature: _____

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 2- -19	Site ID #: 07584, 07777, 12352	Site Name: Clouds Exxon	Field Personnel: WF BF	
County: Richland	Project Manager: DAN Fike	General Weather Conditions: Cloudy Rain	Ambient Air Temp (°F): 40	

Quality Assurance

Meter Name	Serial #	Calibration			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 25	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): to	Total Well Depth (TWD) (ft.):
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.):		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.)		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)								
PH (s.u.)								
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								

Sampling Data

Sampled By: BF WF	Sampling Time:	Duplicate: Y or N	If yes, Duplicate Time:

Notes: Not Found

Signature: _____

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 2- -19	Site ID#: 09584, 07777, 12352	Site Name: Clouds EXXON	Field Personnel: WF BF
County: Richland	Project Manager: DAN Fila	General Weather Conditions: Cloudy Rain	Ambient Air Temp (°F): 40

Quality Assurance

Meter Name	Serial #	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 65	Well Diameter (ft.): 2	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): to		Total Well Depth (TWD) (ft.):
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.):		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)								
PH (s.u.)								
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								

Sampling Data

Sampled By: BE WF	Sampling Time:	Duplicate: Y or N	If yes, Duplicate Time:

Notes: @ NOT Farm pond over

Signature: _____

Appendix C

Disposal Manifest

March 20, 2019

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

Re: Purge Water Report- Development & Groundwater Sampling
Handy Pantry #65/University Mart & Cloud's Chevron
Intersection of Taylor Street and Two Notch Road
Columbia, South Carolina
UST Permit # 07584 / 07777 / 12352

Dear Project Manager;

The letter presents the certification that Crawford Environmental Services (CES) treated purge waters referenced below with a granular activated carbon unit prior to discharge. This was completed in accordance with the conditions laid out in the "Proposed Conditions for use of Portable Activated Carbon Units for the Treatment of Small Volumes of Petroleum Hydrocarbon Contaminated Groundwater" produced by the SCDHEC Bureau of Water.

A total of 30-gallons was treated on February 20 and 21, 2019 for the above referenced facility.

A record of treatment is available upon request. If you have any questions or comments please feel free to contact us at 540-798-5068.

Sincerely,

Daniel Fisher
Operations Manager
Crawford Environmental Services

Appendix D

QAPP Addendum Contractor Checklist

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

UST Programmatic QAPP Contractor Checklist				
26	Does the report include a brief discussion of the aquifer evaluation and the results?	Yes		
27	Does the report include a brief discussion of the fate & transport models used?			n/a
28	Are the site-conceptual tables included (Tier 1 risk evaluation)			n/a
29	Have the exposure pathways been analyzed (Tier 2 risk evauluation)			n/a
30	Have the SSTLs for each compound and pathway been calculated? (Tier 2 risk evaluation)	Yes		
31	Have recommendations for further action been provided and explained?			n/a
32	Has the soil analytical data for the site been provided in tabular format? (Table 5)			n/a
33	Has the potentiometric data for the site been provided in tabular format?	Yes		
34	Has the current and historical laboratory data been provided in tabular format	Yes		
35	Have the aquifer characteristics been provided and summarized on the appropriate form?			n/a
36	Have the Site conceptual model tables been included (Tier 1 risk evaluation)			n/a
37	Has the topographic map been provided with all the required elements?	Yes		
38	Has the site base map been provided with all the required elements?	Yes		
39	Have the CoC maps been provided?	Yes		
40	Have the potentiometric maps been provided?	Yes		
41	Have the geologic cross-sections been provided			n/a
42	Have maps showing the predicted migration of the CoCs through time been provided?			n/a
43	Has the site survey been provided and include all necessary elements? (Appendix A)			n/a
44	Have the sampling logs, chain of custody forms and analytical data package been included with all elements? (Appendix B)	Yes		
45	Is the laboratory performing the analyses properly certified? (Appendix B)	Yes		
46	Has the tax map been included with all necessary elements? (Appendix C)			n/a
47	Have the soil/boring field screening logs been provided? (Appendix D)			n/a
48	Have the well completion logs been provided? (Appendix E)			n/a
49	Have the aquifer evaluation forms,data, graphs, equations,etc. been provided? (Appendix F)			n/a
50	Have the disposal manifests been provided? (Appendix G)	Yes		
51	Has a copy of the local zoning regulations been provided? (Appendix H)			n/a

UST Programmatic QAPP Contractor Checklist				
52	Has all fate and transport modeling been provided? (Appendix I)			n/a
53	Have copies of all access agreements obtained by the contractor been provided? (Appendix J)			n/a
54	Has a copy of this form been attached to the final report and are explainations for any missing or incomplete data been provided?	Yes		
Comments:				

Appendix E

Revised CAPA and Cleanup Schedule

March 25, 2019

Ms. Carolyn Moores
State of South Carolina
Department of Health and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

RE: Corrective Action Plan Addendum – Revision 1
Handy Pantry #65 / University Mart / Cloud's Chevron
Intersection of Taylor Street and Two Notch Road
Columbia, South Carolina
UST Permit # 07584 / 07777 / 12352

Dear Ms. Moores:

Crawford Environmental Services, Inc. (CES) has prepared the following Corrective Action Plan Addendum (CAPA) for the Handy Pantry #65, University Mart and Cloud's Chevron facilities in Columbia, South Carolina. CES has reviewed the original Corrective Action Plan (CAP) and the remedial progress to date. Based on this review, CES has concluded that the original strategy will be an effective method to address the adsorbed- and dissolved-phase contamination. However, it has been determined that the three air sparge systems will no longer be effective. As presented in the original CAP, the existing subsurface infrastructure and injection locations will be used for chemical and biological injections. An updated corrective action timetable has been prepared and is presented below.

Description	**Start Date**	**End Date**
Injection Event Planning	04/01/19	05/01/19
Chemical and Biological Injection Event #1	05/15/19	05/25/19
Chemical and Biological Injection Event #2	08/15/19	08/25/19
Semi-Annual Confirmatory Sampling Event 1	06/01/19	06/10/19
Semi-Annual Confirmatory Sampling Event 2	11/01/19	11/10/19
Deactivation of Remedial Technology	12/01/19	
30-Day Sampling Event	01/01/20	
Post Clean-up Sampling Event 1	03/01/20	
Post Cleanup Sampling Event 2	06/01/20	
Site Restoration	08/01/20	08/15/20
Estimated completion of corrective action activities	01/01/21	

This CAPA was prepared in accordance with DHEC correspondence and is being delivered to Ms. Carolyn Moores. Should you have any questions regarding the modifications presented herein, or if additional information is required, please feel free to contact me at (540) 343-6256.

Prepare By:

James Coleman
Project Manager

Reviewed By:

Daniel Fisher
Operations Manager

Attachments

cc:

dhec
Healthy People. Healthy Communities.

APR 1 8 2019

UST DOCKETING

MR CHARLES F CRAWFORD III
CRAWFORD ENVIRONMENTAL SERVICES
15 CHURCH AVENUE SW
ROANOKE VA 24011

Re: **Corrective Action System Evaluation (CASE) Report Review**
UST Permit# 07584, College Corner, 2367 Taylor St., Columbia, SC
Release #1 reported January 30, 1991; CA# 47811
Release #2 reported April 17, 1998; CA# 47812
UST Permit # 07777, Clouds Chevron, 1600 Two Notch Rd., Columbia, SC
Release reported December 31, 1991; CA# 47813
UST Permit # 12352, Clouds Chevron, 1600 Two Notch Rd., Columbia, SC
Release reported December 30, 1991; CA# 47814
Contract #IFB-5400007095-1/30/2014-EMW; PO# 4600322226
CASE report received March 28, 2019
Richland County

Dear Mr. Crawford:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed the CASE report documenting the corrective action activities and the January 2018 groundwater sampling event. The CASE report has documented 35.98% Chemical of Concern (CoC) reduction.

The semi-annual CASE 9 report is due on or before **June 15, 2019.**

I have reviewed your Corrective Action Plan Addendum revision 1 included in Appendix E. I cannot issue a Notice to Proceed for this plan until you have a current Underground Injection Permit issued from the Bureau of Water. Your most recent permit expired April 11, 2019.

On all correspondence regarding this site, please reference UST Permit #07584, #07777, & #12352. If you have any questions regarding this correspondence, please contact me by telephone at (803) 898-2622, by fax at (803) 898-0673, or by e-mail at mooresct@dhec.sc.gov.

Sincerely,

Carolyn T Moores

Carolyn Moores, Hydrogeologist
Corrective Action & Quality Assurance Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

cc: Sylvan Food Systems, Inc., 1245 Boston Ave, West Columbia, SC 29170
Gilbert Walker, Public Housing Authority, Gonzales Gardens, P.O. Box 4307, Columbia, SC 29240
1500 Millwood Ave, LLC, 1330 Devonshire Drive, Columbia, SC 29204
John M. Suddeth, 1410 N Millwood Ave, Columbia, SC 29204
Fung Lau, 2300 Taylor St, Suite D, Columbia, SC 29204
Technical File

CRAWFORD ENVIRONMENTAL SERVICES





September 3, 2019

Bradley Baldwin

~~Ms. Carolyn Moores~~
Corrective Action Section
UST Management Division
Bureau of Land and Waste Management
South Carolina Department of Health and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

RE: Corrective Action System Evaluation – August 2019 (Sampling Date)
Handy Pantry #65/University Mart & Cloud's Chevron
Intersection of Taylor Street and Two Notch Road
Columbia, South Carolina
UST Permit # 07584 / 07777 / 12352

Dear Ms. Moores:

Enclosed please find one copy of the September 2019 Corrective Action System Evaluation (CASE) report prepared by Crawford Environmental Services, Inc. (CES) for the referenced site. In addition, CES has included an updated copy of the Corrective Action Plan Addendum / Cleanup Schedule as **Appendix E**. Should you have any questions regarding the enclosed material, or if additional information is required, please feel free to contact Charlie Crawford or myself at 540.343.6256.

Best Regards,

Daniel Fisher
Operations Manager

cc:

CRAWFORD ENVIRONMENTAL SERVICES

September 3, 2019

Ms. Carolyn Moores
Corrective Action Section
UST Management Division
Bureau of Land and Waste Management
South Carolina Department of Health and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

RE: Corrective Action System Evaluation – August 2019 (Sampling Date)
Handy Pantry #65/University Mart & Cloud's Chevron
Intersection of Taylor Street and Two Notch Road
Columbia, South Carolina
UST Permit # 07584 / 07777 / 12352

Dear Ms. Moores:

Enclosed please find one copy of the September 2019 Corrective Action System Evaluation (CASE) report prepared by Crawford Environmental Services, Inc. (CES) for the referenced site. In addition, CES has included an updated copy of the Corrective Action Plan Addendum / Cleanup Schedule as **Appendix E**. Should you have any questions regarding the enclosed material, or if additional information is required, please feel free to contact Charlie Crawford or myself at 540.343.6256.

Best Regards,

Daniel Fisher
Operations Manager

cc:

CRAWFORD ENVIRONMENTAL SERVICES

Corrective Action System Evaluation Report
August 2019
Handy Pantry #65/University Mart & Cloud's Chevron
Intersection of Taylor Street and Two Notch Road
Columbia, South Carolina
UST Permit # 07584 / 07777 / 12352
September 3, 2019
Revision 0

CORRECTIVE ACTION SYSTEM EVALUATION REPORT

Handy Pantry #65/University Mart & Cloud's Chevron
Intersection of Taylor Street and Two Notch Road
Columbia, South Carolina
York County
UST Permit #: 07584/07777/12352
CES Job #: 7.0547

PREPARED BY:
Crawford Environmental Services, Inc.
1701 Shenandoah Avenue, NW
Roanoke, Virginia 24017
Phone: 540-343-6256; Fax: 540-343-6259
dfisher@crawfordenvironmental.com

PREPARED FOR:
South Carolina Department of Health & Environmental Control
Ms. Carolyn Moores
South Carolina Department of Health and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

SUBMITTED TO:
South Carolina Department of Health & Environmental Control
Ms. Carolyn Moores
South Carolina Department of Health and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

CRAWFORD ENVIRONMENTAL SERVICES

Title: *Corrective Action System Evaluation Report, Handy Pantry/University Mart and Cloud's Chevron, Site (Site No. 07584/07777/12352), Columbia, South Carolina, August 2019.*

Written By:

Rachel Raines

Rachel Raines
Environmental Scientist/Primary Author

3 September 2019
Date Reviewed

Reviewed By:

Daniel J. Fisher
Senior Project Manager/Technical Reviewer

3 September 2019
Date Reviewed

Reviewed By:

BRIAN L. HAYES REGISTERED No. 2205 PROFESSIONAL GEOLOGIST SOUTH CAROLINA

Brian L. Hayes

Brian L. Hayes, P.G.
Senior Project Geologist/Technical Reviewer
Registered South Carolina P.G. No. 2205

3 September 2019
Date Reviewed

Approved By:

Chas F. Crawford

Charles F. Crawford
President/Chief Executive Officer, Technical Reviewer

4 September 2019
Date Reviewed

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Appendix B: Groundwater Sampling Data Sheets
Appendix C: Purge Water Disposal Manifest
Appendix D: QAPP Addendum Contractor Checklist
Appendix E: Revised CAPA and Cleanup Schedule

1.0 Project Information

1.1 Introduction

Crawford Environmental Services Inc., (CES) has completed a Corrective Action System Evaluation (CASE) report for the Handy Pantry #65/University Mart and former Cloud's Chevron site. The report describes assessment activities conducted at the site in general accordance with the scope of work as defined in the QAPP Addendum Approval, dated March 20, 2014. The subject property is in a primarily commercial area of Columbia, South Carolina (**Figure 1**). The subject sites, operating as Handy Pantry #65/University Mart and former Cloud's Chevron, is bordered by light commercial properties in all directions. A site plan depicting pertinent features of the subject property is provided as **Figure 2**.

1.2 Facility Information

1.2.1 Site Address

Handy Pantry #65 / University Mart / Clouds Chevron
2367 Taylor Street
Columbia, South Carolina

1.2.2 Property Owner Information

Mr. Mahesh Patel
2367 Taylor Street
Columbia, South Carolina

Mr. Andrew Diggins
1600 Block Two Notch Road
Columbia, South Carolina

1.2.3 Contractor Information

Crawford Environmental Services
1701 Shenandoah Avenue, NW
Roanoke, Virginia 24017
1 (540) 343-6256
Contractor Number: UCC-0388

1.2.4 Laboratory Information

Shealy Environmental Services, Inc. (Shealy)
106 Vantage Point Drive
West Columbia, SC 29172
1 (803) 791-9700
SC Certification: 32010001

2.0 Corrective Action Activities

Corrective Action activities at the facility for this phase of work included the following:

-Semi-Annual Sampling Event

2.1 Groundwater Sampling Event

A comprehensive groundwater sampling event, including; recording equilibrated static water levels, product thicknesses, and the collection of chemical samples was completed by CES personnel between August 22 - 23, 2019. CES personnel utilized an electronic water level indicator for water level measurements and an oil/water interface probe for free phase product measurements. Samples for the shallow wells were collected utilizing disposable polyethylene bailers. Shallow wells that exhibited groundwater above the screened bracket were purged of at least three well volumes or purged till dry before sample collection. Deep and intermediate wells exhibiting groundwater above the screened bracket were purged utilizing submersible pumps with dedicated tubing. For sample collection, disposable polyethylene bailers were lowered slowly to the top of the water column (after purging in some cases) allowed to fill one volume, then removed. Disposal records for the 23.6-gallons of purge water generated are included as **Appendix A**. Groundwater was then transferred to the appropriate sampling containers and was then placed in coolers, maintaining 4˚C, and delivered to an independent laboratory. Groundwater chemical samples were submitted to Shealy Environmental Services, Inc., {SC Certification: 32010001} for analysis.

2.1.1 Groundwater Sampling

Equilibrated static water levels and free-product thicknesses were recorded for monitoring wells MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, MW-8, MW-9, MW-10, MW-11, MW-15, MW-16, MW-17, MW-18, MW-19, MW-20, MW-22, MW-23, MW-25, MW-27, MW-28, MW-29, MW-30, MW-31, MW-32, MW-33, MW-34, MW-35, MW-36, MW-37, MW-38, MW-40, MW-41, MW-43, MW-44, MW-45, MW-46, MW-49, MW-50, MW-53, MW-55, MW-56, MW-63, MW-67, MW-70, MW-5AR, PW-1R, DW-1, DW-2, DW-3, DW-4, DW-5, and DW-9. Groundwater sampling data sheets are included as **Appendix B**.

During the referenced sampling event, CES was unable to access monitoring well MW-48 due to a locked gate and monitoring wells MW-26, MW-39, MW-42, MW-51, and MW-60 were unable to be located. CES also utilized a metal detector to locate the wells, however, the overgrown site conditions did not permit the location of the aforementioned monitoring wells. Due to obstructions (vehicle) covering the wells, monitoring wells MW-58, MW-62, and DW-8 were not able to be sampled. Monitoring wells MW-12, MW-13, MW-54, MW-65 and DW-7 have been paved over following recent construction and presumed destroyed.

CES sampled the monitoring wells, as part of the August 2019 sampling event, for the following chemical analyses:
Benzene/Toluene/Ethylbenzene/Xylenes (BTEX), naphthalene, Methyl Tert-Butyl Ether (MTBE), Tert-Amyl Methyl Ether (TAME), Tert-Butyl Alcohol (TBA), and Tert-Amyl Alcohol (TAA).

During the sampling event CES collected duplicate samples of monitoring wells MW-23, MW-31, DW-3, and PW-1R. Review of the duplicate samples collected from aforementioned monitoring well samples did not yield significant data gaps.

In addition to duplicate samples, CES also collected daily field blank samples at the conclusion of the sample events. The samples were collected at the conclusion of the day to be representative of all samples that were collected during that day. Sealed trip blank samples were also stored with samples during each day of the sampling event.

Table 2 presents the laboratory data for the submitted groundwater samples collected as part of this assessment. The groundwater concentration maps are included as **Figure 3**. The groundwater elevation map is included as **Figure 4**.

3.0 Summary

During the corrective action activities performed at the subject property, CES conducted a comprehensive groundwater monitoring event, to determine the effectiveness of the current corrective action plan. The qualitative and quantitative data collected from recent assessment activities indicates the following regarding current site conditions;

1. During this sampling event, groundwater from monitoring wells MW-2, MW-3, MW-9, MW-10, MW-12, MW-17, MW-18, MW-19, MW-20, MW-22, MW-23, MW-31, MW-35, MW-39, MW-54, MW-5AR, PW-1R, DW-3, and SW-1 exhibited hydrocarbon constituent concentrations above the SSTLs for the chemicals of concern.

2. CES calculated a COC reduction of 76.25 percent during this phase of work.
3. Free-phase petroleum was not observed during the August 2019 sampling event.

4.0 Conclusion

Based on the results of the comprehensive sampling event, CES estimates that the historical remedial injects have been successful in targeting source area and contaminants. CES estimates that decreases in the COC reduction percentage observed during this period are based upon a significant number of wells being unable to be sampled and the reduction of free-phase petroleum during sampling event. A Revised CAPA and schedule for cleanup is included as **Appendix E**.

5.0 Limitations

This report is based upon a specific scope of work requested by SCDHEC. This report is intended only for the use of CES's client and anyone else specifically listed on this report. Some data contained within this report was previously collected by other consultants and is assumed to be correct. CES will not and cannot be liable for the unauthorized release by any third party. Other than as contained in this paragraph, CES makes no expressed or implied warranty as to the contents of this report.

Tables

Table 1: Well Construction and Historical Groundwater Elevation Summary
Table 2: Groundwater Laboratory Analytical Result Summary
Table 3: Site Specific Target Levels

Table 1

Facility Name: Handy Pantry #65 / University Mart & Clouds Chevron — UST Permit ID: 07584 / 07777 / 12352

Address: 2367 Taylor Street Columbia, South Carolina — CES Project Number: 7.0547

Well Construction and Historical Groundwater Elevation Summary

Monitor Well	Well Depth (ft)	Screened Interval		Top of Casing (ft)	Date Measured	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Product Elevation (ft)	Groundwater Elevation (ft)
MW-1	27	17	27	93.89	8/22/2019	NA	Dry	NA	NA	Dry
					2/20/2019	NA	DRY	NA	NA	DRY
					1/24/2018	NA	DRY	NA	NA	DRY
					6/26/2017	NA	DRY	NA	NA	DRY
					10/19/2016	NA	DRY	NA	NA	DRY
					5/15/2016	NA	DRY	NA	NA	DRY
					11/3/2015	NA	DRY	NA	NA	DRY
					5/29/2015	NA	DRY	NA	NA	DRY
					11/11/2014	NA	DRY	NA	NA	DRY
					4/2/2014	NA	DRY	NA	NA	DRY
MW-2	30	20	30	94.70	8/22/2019	NA	22.75	NA	NA	71.95
					2/20/2019	NA	22.24	NA	NA	72.46
					1/22/2018	NA	24.04	NA	NA	70.66
					6/27/2017	NA	21.51	NA	NA	73.19
					10/19/2016	NA	21.17	NA	NA	73.53
					5/16/2016	NA	20.08	NA	NA	74.62
					11/3/2015	NA	20.32	NA	NA	74.38
					5/29/2015	22.56	22.57	0.01	72.14	72.13
					11/4/2014	NA	23.03	NA	NA	71.67
					4/2/2014	NA	21.12	NA	NA	73.58
MW-3	29	19	29	94.45	8/22/2019	NA	22.27	NA	NA	72.18
					2/20/2019	NA	21.43	NA	NA	73.02
					1/22/2018	NA	23.42	NA	NA	71.03
					6/27/2017	NA	20.98	NA	NA	73.47
					10/19/2016	NA	20.18	NA	NA	74.27
					5/16/2016	NA	19.84	NA	NA	74.61
					11/3/2015	NA	23.29	NA	NA	71.16
					5/29/2015	23.2	23.29	0.09	71.25	71.16
					4/2/2014	NA	21.40	NA	NA	73.05
					11/12/2014	NA	23.16	NA	NA	71.29
MW-4	28	18	28	94.85	8/22/2019	NA	21.27	NA	NA	73.58
					2/20/2019	NA	21.11	NA	NA	73.74
					1/22/2018	NA	22.19	NA	NA	72.66
					6/27/2017	NA	20.55	NA	NA	74.30
					10/19/2016	NA	20.42	NA	NA	74.43
					5/16/2016	NA	19.20	NA	NA	75.65
					11/3/2015	NA	20.35	NA	NA	74.50
					5/29/2015	NA	21.52	NA	NA	73.33
					11/11/2014	NA	21.76	NA	NA	73.09
					4/2/2014	NA	21.31	NA	NA	73.54
MW-5	26	16	26	95.26	8/22/2019	NA	19.20	NA	NA	76.06
					2/20/2019	NA	DRY	NA	NA	DRY
					1/22/2018	NA	DRY	NA	NA	DRY
					6/26/2017	NA	DRY	NA	NA	DRY
					10/19/2016	NA	DRY	NA	NA	DRY
					5/16/2016	NA	19.75	NA	NA	75.51
					11/3/2015	NA	DRY	NA	NA	DRY
					5/29/2015	NA	DRY	NA	NA	DRY
					11/11/2014	NA	DRY	NA	NA	DRY
					4/2/2014	NA	DRY	NA	NA	DRY
MW-6	30	20	30	94.96	8/22/2019	NA	23.03	NA	NA	71.93
					2/20/2019	NA	22.25	NA	NA	72.71
					1/22/2018	NA	24.54	NA	NA	70.42
					6/27/2017	NA	22.91	NA	NA	72.05
					10/19/2016	NA	22.04	NA	NA	72.92
					5/17/2016	NA	20.59	NA	NA	74.37
					11/3/2015	NA	21.21	NA	NA	73.75
					5/29/2015	NA	22.38	NA	NA	72.58
					11/11/2014	NA	23.98	NA	NA	70.98
					4/3/2014	NA	22.61	NA	NA	72.35
MW-7	30	20	30	95.93	8/22/2019	NA	23.37	NA	NA	72.56
					2/20/2019	NA	22.65	NA	NA	73.28
					1/22/2018	NA	24.58	NA	NA	71.35
					6/27/2017	NA	22.32	NA	NA	73.61
					10/19/2016	NA	22.20	NA	NA	73.73
					5/16/2016	NA	20.98	NA	NA	74.95
					11/3/2015	NA	21.79	NA	NA	74.14
					5/29/2015	NA	23.48	NA	NA	72.45
					11/11/2014	NA	24.12	NA	NA	71.81
					4/3/2014	NA	23.02	NA	NA	72.91

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Well Construction and Historical Groundwater Elevation Summary

Monitor Well	Well Depth (ft)	Screened Interval		Top of Casing (ft)	Date Measured	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Product Elevation (ft)	Groundwater Elevation (ft)
MW-8	28	18.5	28	94.79	8/22/2019	NA	20.62	NA	NA	74.17
					2/20/2019	NA	20.08	NA	NA	74.71
					1/22/2018	NA	21.86	NA	NA	72.93
					6/27/2017	NA	19.65	NA	NA	75.14
					10/19/2016	NA	19.70	NA	NA	75.09
					5/17/2016	NA	18.75	NA	NA	76.04
					11/3/2015	NA	19.19	NA	NA	75.60
					5/29/2015	NA	20.08	NA	NA	74.71
					11/11/2014	NA	21.43	NA	NA	73.36
					4/3/2014	NA	19.95	NA	NA	74.84
MW-9	30	20	30	92.30	8/22/2019	NA	20.96	NA	NA	71.34
					2/20/2019	NA	22.54	NA	NA	69.76
					1/22/2018	NA	22.22	NA	NA	70.08
					6/26/2017	Unable to Locate				
					10/19/2016	NA	20.30	NA	NA	72.00
					5/16/2016	NA	18.78	NA	NA	73.52
					11/3/2015	NA	20.04	NA	NA	72.26
					5/28/2015	NA	21.19	NA	NA	71.11
					11/11/2014	NA	21.69	NA	NA	70.61
					4/2/2014	NA	20.60	NA	NA	71.70
MW-10	28	18	28	85.98	8/22/2019	NA	16.42	NA	NA	69.56
					2/20/2019	NA	15.01	NA	NA	70.97
					1/22/2018	NA	17.28	NA	NA	68.70
					6/28/2017	NA	15.33	NA	NA	70.65
					10/19/2016	NA	15.75	NA	NA	70.23
					5/18/2016	NA	14.52	NA	NA	71.46
					11/3/2015	NA	14.58	NA	NA	71.40
					5/28/2015	NA	16.64	NA	NA	69.34
					11/11/2014	Interface Probe Failure - 1.25-Feet of Product Observed in Bailer				
					4/1/2014	NA	17.69	NA	NA	68.29
MW-11	30	Unknown		88.46	8/22/2019	NA	18.75	NA	NA	69.71
					2/20/2019	NA	17.83	NA	NA	70.63
					1/24/2018	NA	20.91	NA	NA	67.55
					6/27/2017	NA	17.75	NA	NA	70.71
					10/19/2016	NA	18.19	NA	NA	70.27
					5/18/2016	NA	16.66	NA	NA	71.80
					11/3/2015	NA	17.16	NA	NA	71.30
					5/29/2015	NA	18.93	NA	NA	69.53
					11/11/2014	NA	19.38	NA	NA	69.08
					4/2/2014	NA	18.61	NA	NA	69.85
MW-12	24.65	Unknown		72.80	8/22/2019	Destroyed - Paved Over				
					2/20/2019					
					1/23/2018					
					6/26/2017					
					10/19/2016	NA	3.32	NA	NA	69.48
					5/18/2016	NA	2.73	NA	NA	70.07
					11/3/2015	NA	3.15	NA	NA	69.65
					5/28/2015	NA	4.38	NA	NA	68.42
					11/11/2014	NA	4.63	NA	NA	68.17
					4/2/2014	NA	4.20	NA	NA	68.60
MW-13	30.1	Unknown		80.44	8/22/2019	Destroyed - Paved Over				
					2/20/2019					
					1/23/2018					
					6/26/2017					
					10/19/2016	NA	10.83	NA	NA	69.61
					5/16/2016	NA	9.71	NA	NA	70.73
					11/3/2015	NA	9.82	NA	NA	70.62
					5/28/2015	NA	11.71	NA	NA	68.73
					11/11/2014	NA	12.15	NA	NA	68.29
					4/1/2014	NA	11.13	NA	NA	69.31
MW-15	25	15	25	86.44	8/22/2019	NA	16.35	NA	NA	70.09
					2/20/2019	NA	15.67	NA	NA	70.77
					1/22/2018	NA	17.29	NA	NA	69.15
					6/28/2017	NA	15.36	NA	NA	71.08
					10/19/2016	15.70	15.82	0.12	70.74	70.62
					5/18/2016	14.58	15.02	0.13	71.86	71.42
					11/3/2015	14.51	14.64	0.13	71.93	71.80
					5/29/2015	16.45	16.61	0.16	69.99	69.83
					11/11/2014	Interface Probe Failure - 0.25-Feet of Product Observed in Bailer				
					4/1/2014	16.60	16.00	0.60	69.84	70.88*

Table 1

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Address: 2367 Taylor Street Columbia, South Carolina — CES Project Number: 7.0547

Well Construction and Historical Groundwater Elevation Summary

Monitor Well	Well Depth (ft)	Screened Interval		Top of Casing (ft)	Date Measured	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Product Elevation (ft)	Groundwater Elevation (ft)
MW-16	25	15	25	88.19	8/22/2019	NA	4.76	NA	NA	83.43
					1/22/2018	NA	19.36	NA	NA	68.83
					6/27/2017	NA	17.21	NA	NA	70.98
					10/19/2016	NA	17.55	NA	NA	68.89
					5/18/2016	NA	16.29	NA	NA	71.90
					11/3/2015	NA	16.29	NA	NA	70.15
					5/29/2015	Unable to Locate				
					11/12/2014	NA	18.98	NA	NA	69.21
					4/2/2014	NA	17.54	NA	NA	70.65
MW-17	22	20	30	92.45	8/22/2019	NA	22.36	NA	NA	70.09
					1/22/2018	NA	23.87	NA	NA	68.58
					6/27/2017	NA	21.62	NA	NA	70.83
					10/19/2016	NA	21.58	NA	NA	70.87
					5/18/2016	Not Sampled due to Obstruction				
					11/3/2015	NA	20.47	NA	NA	71.98
					5/28/2015	NA	22.70	NA	NA	69.75
					11/12/2014	NA	23.45	NA	NA	69.00
					4/2/2014	NA	22.00	NA	NA	70.45
MW-18	30	20	30	94.81	8/22/2019	NA	24.00	NA	NA	70.81
					2/20/2019	NA	23.58	NA	NA	71.23
					1/24/2018	NA	25.54	NA	NA	69.27
					6/26/2017	NA	23.16	NA	NA	71.35
					10/19/2016	NA	23.46	NA	NA	71.35
					5/15/2016	NA	22.04	NA	NA	72.77
					11/3/2015	NA	22.28	NA	NA	72.53
					5/28/2015	NA	24.41	NA	NA	70.40
					11/12/2014	NA	25.08	NA	NA	69.73
					4/2/2014	NA	23.68	NA	NA	71.13
MW-19	30	20	30	93.96	8/22/2019	NA	23.70	NA	NA	70.26
					2/20/2019	NA	23.31	NA	NA	70.65
					1/24/2018	NA	25.11	NA	NA	68.85
					6/27/2017	NA	22.80	NA	NA	71.16
					10/19/2016	NA	23.70	NA	NA	70.26
					5/18/2016	NA	21.76	NA	NA	72.20
					11/3/2015	NA	21.81	NA	NA	72.15
					5/28/2015	NA	24.00	NA	NA	69.96
					11/13/2014	NA	24.56	NA	NA	69.40
					4/3/2014	NA	23.33	NA	NA	70.63
MW-20	25	15	25	94.12	8/22/2019	NA	23.57	NA	NA	70.55
					2/20/2019	NA	21.98	NA	NA	72.14
					1/24/2018	NA	23.83	NA	NA	70.29
					6/27/2017	NA	21.50	NA	NA	72.62
					10/19/2016	NA	21.89	NA	NA	72.23
					5/15/2016	NA	20.41	NA	NA	73.71
					11/3/2015	NA	20.18	NA	NA	73.94
					5/28/2015	22.67	22.61	0.06	71.45	71.51
					11/13/2014	NA	23.28	NA	NA	70.84
					4/3/2014	NA	21.95	NA	NA	72.17
MW-22	30	20	30	94.25	8/22/2019	NA	21.97	NA	NA	72.28
					2/20/2019	NA	21.10	NA	NA	73.15
					1/24/2018	NA	23.19	NA	NA	71.06
					6/27/2017	NA	20.77	NA	NA	73.48
					10/19/2016	NA	21.16	NA	NA	73.09
					5/15/2016	NA	19.61	NA	NA	74.64
					11/3/2015	NA	19.01	NA	NA	75.24
					5/28/2015	NA	21.85	NA	NA	72.40
					11/11/2014	NA	22.68	NA	NA	71.57
					4/3/2014	NA	21.11	NA	NA	73.14
MW-23	30	20	30	94.43	8/22/2019	NA	23.97	NA	NA	70.46
					2/20/2019	NA	23.55	NA	NA	70.88
					1/24/2018	NA	25.35	NA	NA	69.08
					6/27/2017	NA	23.60	NA	NA	70.83
					10/19/2016	NA	23.06	NA	NA	71.37
					5/18/2016	NA	21.95	NA	NA	72.48
					11/3/2015	NA	21.95	NA	NA	72.48
					5/28/2015	NA	24.25	NA	NA	70.18
					11/13/2014	NA	24.98	NA	NA	69.45
					4/3/2014	NA	23.65	NA	NA	70.78

Table 1

Facility Name: Handy Pantry #65 / University Mart & Clouds Chevron — UST Permit ID: 07584 / 07777 / 12352

Address: 2367 Taylor Street Columbia, South Carolina — CES Project Number: 7.0547

Well Construction and Historical Groundwater Elevation Summary

Monitor Well	Well Depth (ft)	Screened Interval		Top of Casing (ft)	Date Measured	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Product Elevation (ft)	Groundwater Elevation (ft)
MW-25	25.6	Unknown		93.09	8/22/2019	NA	20.77	NA	NA	72.32
					1/24/2018	NA	22.06	NA	NA	71.03
					6/26/2017	Unable to Locate				
					10/19/2016	NA	19.96	NA	NA	73.13
					5/15/2016	Unable to Locate				
					11/3/2015	NA	17.73	NA	NA	75.36
					5/28/2015	NA	20.65	NA	NA	72.44
					11/10/2014	NA	21.60	NA	NA	71.49
					4/1/2014	NA	19.71	NA	NA	73.38
MW-26	30	Unknown		95.96	8/22/2019	Unable to Locate				
					2/20/2019	NA	22.70	NA	NA	73.26
					1/22/2018	NA	23.22	NA	NA	72.74
					6/28/2017	NA	21.44	NA	NA	74.52
					10/19/2016	Not Sampled due to Obstruction				
					5/17/2016	NA	20.24	NA	NA	75.72
					11/3/2015	NA	21.06	NA	NA	74.90
					6/5/2015	NA	22.49	NA	NA	73.47
					11/11/2014	NA	22.95	NA	NA	73.01
					4/3/2014	NA	20.01	NA	NA	75.95
MW-27	30	15	30	91.40	8/22/2019	NA	18.85	NA	NA	72.55
					2/20/2019	NA	17.06	NA	NA	74.34
					1/24/2018	NA	19.71	NA	NA	71.69
					6/27/2017	NA	17.31	NA	NA	74.09
					10/19/2016	NA	17.46	NA	NA	73.94
					5/17/2016	NA	15.62	NA	NA	75.78
					11/3/2015	NA	11.21	NA	NA	80.19
					5/28/2015	NA	17.75	NA	NA	73.65
					11/13/2014	NA	18.85	NA	NA	72.55
					4/1/2014	NA	14.65	NA	NA	76.75
MW-28	30	15	30	91.46	8/22/2019	NA	18.90	NA	NA	72.56
					2/20/2019	NA	16.57	NA	NA	74.89
					1/24/2018	NA	20.30	NA	NA	71.16
					6/27/2017	NA	16.97	NA	NA	74.49
					10/19/2016	NA	17.53	NA	NA	73.93
					5/17/2016	NA	15.90	NA	NA	75.56
					11/3/2015	NA	13.08	NA	NA	78.38
					5/28/2015	NA	17.97	NA	NA	73.49
					11/13/2014	NA	19.75	NA	NA	71.71
					4/1/2014	NA	15.63	NA	NA	75.83
MW-29	30	15	30	91.09	8/22/2019	NA	18.84	NA	NA	72.25
					2/20/2019	NA	16.45	NA	NA	74.64
					1/24/2018	NA	20.45	NA	NA	70.64
					6/27/2017	NA	16.95	NA	NA	74.14
					10/19/2016	NA	17.76	NA	NA	73.33
					5/17/2016	NA	15.88	NA	NA	75.21
					11/3/2015	NA	13.19	NA	NA	77.90
					5/28/2015	17.91	17.92	0.01	73.18	73.17
					11/13/2014	NA	19.92	NA	NA	71.17
					4/1/2014	NA	15.51	NA	NA	75.58
MW-30	30	15	30	92.77	8/22/2019	NA	27.42	NA	NA	65.35
					2/20/2019	NA	20.49	NA	NA	72.28
					1/24/2018	NA	23.22	NA	NA	69.55
					6/27/2017	NA	20.46	NA	NA	72.31
					10/19/2016	NA	29.20	NA	NA	63.57
					5/15/2016	NA	19.27	NA	NA	73.50
					11/3/2015	NA	17.43	NA	NA	75.34
					5/28/2015	NA	26.70	NA	NA	66.07
					11/10/2014	NA	22.90	NA	NA	69.87
					4/1/2014	NA	20.50	NA	NA	72.27
MW-31	35	20	35	95.20	8/22/2019	NA	25.04	NA	NA	70.16
					2/20/2019	NA	24.40	NA	NA	70.80
					1/23/2018	NA	26.61	NA	NA	68.59
					6/27/2017	NA	24.12	NA	NA	71.08
					10/19/2016	NA	24.41	NA	NA	70.79
					5/17/2016	NA	22.98	NA	NA	72.22
					11/3/2015	NA	22.53	NA	NA	72.67
					5/28/2015	25.61	25.62	0.01	69.59	69.58
					11/12/2014	NA	26.36	NA	NA	68.84
					4/2/2014	NA	24.41	NA	NA	70.79

Table 1

Facility Name: Handy Pantry #65 / University Mart & Clouds Chevron — UST Permit ID: 07584 / 07777 / 12352

Address: 2367 Taylor Street Columbia, South Carolina — CES Project Number: 7.0547

Well Construction and Historical Groundwater Elevation Summary

Monitor Well	Well Depth (ft)	Screened Interval		Top of Casing (ft)	Date Measured	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Product Elevation (ft)	Groundwater Elevation (ft)
MW-32	30	15	30	92.87	8/22/2019	NA	22.04	NA	NA	70.83
					2/20/2019	NA	21.15	NA	NA	71.72
					1/24/2018	NA	23.54	NA	NA	69.33
					6/27/2017	NA	20.01	NA	NA	72.86
					10/19/2016	Not Sampled due to Obstruction				
					5/17/2016	NA	19.75	NA	NA	73.12
					11/3/2015	NA	19.12	NA	NA	73.75
					5/28/2015	NA	22.00	NA	NA	70.87
					11/12/2014	NA	23.16	NA	NA	69.71
					4/2/2014	NA	21.28	NA	NA	71.59
MW-33	35	20	35	93.84	8/22/2019	NA	23.54	NA	NA	70.30
					2/20/2019	NA	23.05	NA	NA	70.79
					1/23/2018	NA	25.02	NA	NA	68.82
					6/27/2017	NA	22.70	NA	NA	71.14
					10/19/2016	NA	23.00	NA	NA	70.84
					5/15/2016	NA	21.57	NA	NA	72.27
					11/3/2015	NA	21.48	NA	NA	72.36
					5/28/2015	NA	23.83	NA	NA	70.01
					11/12/2014	NA	24.65	NA	NA	69.19
					4/1/2014	NA	23.18	NA	NA	70.66
MW-34	35	20	35	94.77	8/22/2019	NA	24.19	NA	NA	70.58
					2/20/2019	NA	23.92	NA	NA	70.85
					1/24/2018	NA	25.84	NA	NA	68.93
					6/27/2017	NA	25.52	NA	NA	69.25
					10/19/2016	NA	23.81	NA	NA	70.96
					5/15/2016	NA	22.38	NA	NA	72.39
					11/3/2015	NA	21.52	NA	NA	73.25
					5/28/2015	NA	24.72	NA	NA	70.05
					11/12/2014	NA	25.49	NA	NA	69.28
					4/1/2014	NA	24.06	NA	NA	70.71
MW-35	35	20	35	93.71	8/22/2019	NA	23.43	NA	NA	70.28
					2/20/2019	NA	23.01	NA	NA	70.70
					1/24/2018	NA	24.88	NA	NA	68.83
					6/27/2017	NA	22.65	NA	NA	71.06
					10/19/2016	NA	22.89	NA	NA	70.82
					5/16/2016	NA	21.48	NA	NA	72.23
					11/3/2015	NA	21.37	NA	NA	72.34
					5/28/2015	NA	23.80	NA	NA	69.91
					11/12/2014	NA	24.66	NA	NA	69.05
					4/1/2014	NA	21.35	NA	NA	72.36
MW-36	35	20	35	93.89	8/22/2019	NA	31.75	NA	NA	62.14
					2/20/2019	NA	22.81	NA	NA	71.08
					1/23/2018	NA	25.02	NA	NA	68.87
					6/27/2017	NA	22.52	NA	NA	71.37
					10/19/2016	NA	22.91	NA	NA	70.98
					5/15/2016	NA	21.36	NA	NA	72.53
					11/3/2015	NA	21.36	NA	NA	72.53
					5/28/2015	NA	23.63	NA	NA	70.26
					11/12/2014	NA	24.72	NA	NA	69.17
					4/1/2014	NA	22.84	NA	NA	71.05
MW-37	35	20	35	93.78	8/22/2019	NA	23.62	NA	NA	70.16
					2/20/2019	NA	23.13	NA	NA	70.65
					1/23/2018	NA	25.17	NA	NA	68.61
					6/27/2017	NA	22.76	NA	NA	71.02
					10/19/2016	NA	23.04	NA	NA	70.74
					5/16/2016	NA	21.61	NA	NA	72.17
					11/3/2015	NA	21.36	NA	NA	72.42
					5/28/2015	NA	23.98	NA	NA	69.80
					11/12/2014	NA	24.87	NA	NA	68.91
					4/1/2014	NA	22.24	NA	NA	71.54
MW-38	35	20	35	95.53	8/22/2019	NA	24.82	NA	NA	70.71
					2/20/2019	NA	24.45	NA	NA	71.08
					1/23/2018	NA	26.42	NA	NA	69.11
					6/27/2017	NA	24.06	NA	NA	71.47
					10/19/2016	NA	24.32	NA	NA	71.21
					5/18/2016	NA	24.83	NA	NA	70.70
					11/3/2015	NA	22.89	NA	NA	72.64
					6/2/2015	NA	25.26	NA	NA	70.27
					11/12/2014	NA	26.17	NA	NA	69.36
					4/1/2014	NA	24.61	NA	NA	70.92

Table 1

Facility Name: Handy Pantry #65 / University Mart & Clouds Chevron — UST Permit ID: 07584 / 07777 / 12352

Address: 2367 Taylor Street Columbia, South Carolina — CES Project Number: 7.0547

Well Construction and Historical Groundwater Elevation Summary

Monitor Well	Well Depth (ft)	Screened Interval		Top of Casing (ft)	Date Measured	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Product Elevation (ft)	Groundwater Elevation (ft)
MW-39	35	20	35	96.19	8/22/2019	Unable to Locate				
					1/23/2018	NA	27.68	NA	NA	68.51
					6/27/2017	NA	25.15	NA	NA	71.04
					10/19/2016	NA	25.37	NA	NA	70.82
					5/18/2016	NA	24.02	NA	NA	72.17
					11/3/2015	NA	23.79	NA	NA	72.40
					6/2/2015	NA	26.45	NA	NA	69.74
					11/12/2014	NA	27.36	NA	NA	68.83
					4/2/2014	NA	25.59	NA	NA	70.60
MW-40	35	20	35	95.69	8/22/2019	NA	25.26	NA	NA	70.43
					2/20/2019	NA	24.80	NA	NA	70.89
					1/23/2018	NA	26.88	NA	NA	68.81
					6/27/2017	NA	24.47	NA	NA	71.22
					10/19/2016	NA	25.04	NA	NA	70.65
					5/18/2016	NA	25.25	NA	NA	70.44
					11/3/2015	NA	23.43	NA	NA	72.26
					6/2/2015	NA	26.12	NA	NA	69.57
					11/12/2014	NA	27.01	NA	NA	68.68
					4/2/2014	NA	25.29	NA	NA	70.40
MW-41	35	20	35	94.85	8/22/2019	NA	25.65	NA	NA	69.20
					2/20/2019	NA	25.24	NA	NA	69.61
					1/23/2018	NA	27.31	NA	NA	67.54
					6/27/2017	NA	24.91	NA	NA	69.94
					10/19/2016	NA	24.45	NA	NA	70.40
					5/18/2016	NA	23.71	NA	NA	71.14
					11/3/2015	NA	22.77	NA	NA	72.08
					6/2/2015	NA	25.69	NA	NA	69.16
					11/11/2014	NA	26.99	NA	NA	67.86
					4/1/2014	NA	24.70	NA	NA	70.15
MW-42	35	20	35	95.81	8/22/2019	Unable to Locate				
					1/23/2018	NA	27.42	NA	NA	68.39
					6/27/2017	NA	25.00	NA	NA	70.81
					10/19/2016	NA	25.08	NA	NA	70.73
					5/18/2016	NA	23.73	NA	NA	72.08
					11/3/2015	NA	23.46	NA	NA	72.35
					6/2/2015	NA	26.25	NA	NA	69.56
					11/12/2014	NA	27.22	NA	NA	68.59
					4/1/2014	NA	25.35	NA	NA	70.46
MW-43	40	20	40	95.15	8/22/2019	NA	23.11	NA	NA	72.04
					2/20/2019	NA	23.75	NA	NA	71.40
					1/23/2018	NA	25.84	NA	NA	69.31
					6/27/2017	NA	23.32	NA	NA	71.83
					10/19/2016	NA	23.70	NA	NA	71.45
					5/18/2016	NA	22.04	NA	NA	73.11
					11/3/2015	NA	22.21	NA	NA	72.94
					5/28/2015	NA	24.66	NA	NA	70.49
					11/11/2014	NA	25.61	NA	NA	69.54
					4/2/2014	NA	24.00	NA	NA	71.15
MW-44	31	16	31	94.57	8/22/2019	NA	22.53	NA	NA	72.04
					2/20/2019	NA	22.02	NA	NA	72.55
					1/23/2018	NA	24.42	NA	NA	70.15
					6/27/2017	NA	21.57	NA	NA	73.00
					10/19/2016	NA	22.16	NA	NA	72.41
					5/18/2016	NA	20.11	NA	NA	74.46
					11/3/2015	NA	20.33	NA	NA	74.24
					5/28/2015	NA	22.70	NA	NA	71.87
					11/11/2014	NA	24.23	NA	NA	70.34
					4/1/2014	NA	24.42	NA	NA	70.15
MW-45	30	15	30	92.51	8/22/2019	NA	21.84	NA	NA	70.67
					2/20/2019	NA	21.03	NA	NA	71.48
					1/23/2018	NA	22.94	NA	NA	69.57
					6/27/2017	NA	20.56	NA	NA	71.95
					10/19/2016	NA	20.99	NA	NA	71.52
					5/18/2016	NA	19.43	NA	NA	73.08
					11/3/2015	NA	19.45	NA	NA	73.06
					5/28/2015	NA	21.75	NA	NA	70.76
					11/11/2014	NA	22.63	NA	NA	69.88
					4/1/2014	NA	21.22	NA	NA	71.29

Table 1

Facility Name: Handy Pantry #65 / University Mart & Clouds Chevron — UST Permit ID: 07584 / 07777 / 12352

Address: 2367 Taylor Street Columbia, South Carolina — CES Project Number: 7.0547

Well Construction and Historical Groundwater Elevation Summary

Monitor Well	Well Depth (ft)	Screened Interval		Top of Casing (ft)	Date Measured	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Product Elevation (ft)	Groundwater Elevation (ft)
MW-46	35	20	35	94.50	8/22/2019	NA	28.80	NA	NA	65.70
					2/20/2019	NA	23.38	NA	NA	71.12
					1/23/2018	NA	25.26	NA	NA	69.24
					6/27/2017	NA	22.82	NA	NA	71.68
					10/19/2016	NA	23.25	NA	NA	71.25
					5/16/2016	NA	21.70	NA	NA	72.80
					11/3/2015	NA	21.84	NA	NA	72.66
					5/28/2015	NA	24.19	NA	NA	70.31
					11/11/2014	NA	24.95	NA	NA	69.55
					4/1/2014	NA	23.55	NA	NA	70.95
MW-48	30	15	30	89.95	8/22/2019	Unable to Access - Locked Gate				
					2/20/2019					
					1/22/2018					
					6/26/2017					
					10/19/2016					
					5/18/2016	NA	18.21	NA	NA	71.74
					11/3/2015	Unable to Access - Locked Gate				
					5/29/2015	NA	19.63	NA	NA	70.32
					11/11/2014	Unable to Access - Locked Gate				
					4/2/2014	NA	19.70	NA	NA	70.25
MW-49	30	15	30	88.18	8/22/2019	NA	17.00	NA	NA	71.18
					2/20/2019	NA	15.93	NA	NA	72.25
					1/24/2018	NA	17.83	NA	NA	70.35
					6/26/2017	Unable to Access - Locked Gate				
					10/19/2016					
					5/15/2016					
					11/3/2015					
					5/29/2015					
					11/11/2014					
					4/2/2014					
MW-50	30	15	30	84.09	8/22/2019	NA	13.69	NA	NA	70.40
					2/20/2019	NA	13.72	NA	NA	70.37
					1/24/2018	Unable to Access - Locked Gate				
					6/26/2017					
					10/19/2016					
					5/15/2016					
					11/3/2015					
					5/29/2015					
					11/11/2014					
					4/2/2014					
MW-51	35	20	35	93.91	8/22/2019	Unable to Locate				
					1/22/2018	NA	24.82	NA	NA	69.09
					6/27/2017	NA	22.51	NA	NA	71.40
					10/19/2016	NA	22.78	NA	NA	71.13
					5/18/2016	NA	20.76	NA	NA	73.15
					11/3/2015	NA	21.87	NA	NA	72.04
					5/29/2015	NA	23.72	NA	NA	70.19
					11/11/2014	NA	24.29	NA	NA	69.62
					4/2/2014	NA	21.23	NA	NA	72.68
MW-53	20	5	20	79.60	8/22/2019	NA	10.36	NA	NA	69.24
					2/20/2019	NA	9.67	NA	NA	69.93
					1/22/2018	NA	11.32	NA	NA	68.28
					6/27/2017	NA	9.49	NA	NA	70.11
					10/19/2016	Unable to Locate- Overgrown Field				
					5/15/2016	Unable to Locate- Overgrown Field				
					11/3/2015	NA	8.49	NA	NA	71.11
					5/28/2015	NA	10.50	NA	NA	69.10
					11/11/2014	NA	11.02	NA	NA	68.58
					4/3/2014	NA	9.60	NA	NA	70.00
MW-54	20	5	20	77.58	8/22/2019	Destroyed - Paved Over				
					2/20/2019					
					1/23/2018					
					6/26/2017					
					10/19/2016	NA	10.66	NA	NA	66.92
					5/18/2016	NA	10.15	NA	NA	67.43
					11/3/2015	NA	9.83	NA	NA	67.75
					5/28/2015	NA	11.27	NA	NA	66.31
					11/11/2014	Unable to Locate - Overgrown Field				
					4/1/2014	NA	11.31	NA	NA	66.27

Table 1

Facility Name: Handy Pantry #65 / University Mart & Clouds Chevron — UST Permit ID: 07584 / 07777 / 12352
Address: 2367 Taylor Street Columbia, South Carolina — CES Project Number: 7.0547

Well Construction and Historical Groundwater Elevation Summary

Monitor Well	Well Depth (ft)	Screened Interval		Top of Casing (ft)	Date Measured	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Product Elevation (ft)	Groundwater Elevation (ft)
MW-55	14	4	14	71.22	8/22/2019	NA	8.01	NA	NA	63.21
					2/20/2019	NA	2.18	NA	NA	69.04
					1/22/2018	NA	3.51	NA	NA	67.71
					6/27/2017	NA	2.10	NA	NA	69.12
					10/19/2016	NA	4.26	NA	NA	66.96
					5/18/2016	NA	1.55	NA	NA	69.67
					11/3/2015	NA	1.19	NA	NA	70.03
					5/28/2015	NA	3.83	NA	NA	67.39
					11/11/2014	Unable to Locate - Overgrown Field				
					4/3/2014	NA	2.51	NA	NA	68.71
MW-56	20	5	20	76.39	8/22/2019	NA	12.35	NA	NA	64.04
					2/20/2019	NA	7.35	NA	NA	69.04
					1/22/2018	NA	8.69	NA	NA	67.70
					6/27/2017	NA	7.20	NA	NA	69.19
					10/19/2016	NA	7.45	NA	NA	68.94
					5/18/2016	NA	6.76	NA	NA	69.63
					11/3/2015	NA	6.40	NA	NA	69.99
					5/28/2015	NA	8.22	NA	NA	68.17
					11/11/2014	Unable to Locate - Overgrown Field				
					4/3/2014	NA	5.12	NA	NA	71.27
MW-58	19	4	19	76.37	8/22/2019	Not Sampled due to Obstruction				
					2/20/2019					
					1/24/2018					
					6/26/2017					
					10/19/2016					
					5/18/2016					
					11/3/2015	NA	4.52	NA	NA	71.85
					5/29/2015	NA	6.85	NA	NA	69.52
					11/11/2014	Abandoned				
					4/2/2014					
MW-59	17	2	17	68.02	8/22/2019	Unable to Locate				
					1/22/2018	NA	6.55	NA	NA	61.47
					6/28/2017	NA	5.65	NA	NA	62.37
					10/19/2016	NA	5.84	NA	NA	62.18
					5/18/2016	NA	5.46	NA	NA	62.56
					11/3/2015	NA	5.04	NA	NA	62.98
					5/28/2015	NA	6.46	NA	NA	61.56
					11/11/2014	NA	6.69	NA	NA	61.33
					4/2/2014	NA	6.05	NA	NA	61.97
MW-60	14	4	14	67.94	8/22/2019	Unable to Locate				
					2/20/2019					
					1/22/2018					
					6/26/2017					
					10/19/2016					
					5/18/2016					
					11/3/2015					
					5/28/2015					
					11/11/2014					
					4/2/2014					
MW-62	35	20	35	94.05	8/22/2019	Blocked by Vehicle				
					2/20/2019	NA	22.73	NA	NA	71.32
					1/23/2018	NA	24.18	NA	NA	69.87
					6/27/2017	NA	22.44	NA	NA	71.61
					10/19/2016	NA	22.64	NA	NA	71.41
					5/18/2016	Not Sampled due to Obstruction				
					11/3/2015	22.15	22.67	0.52	71.90	71.38
					5/28/2015	22.21	23.71	1.5	71.84	70.34
					11/12/2014	NA	24.75	NA	NA	69.30
					4/1/2014	NA	22.32	NA	NA	71.73
MW-63	35	20	35	94.65	8/22/2019	NA	23.84	NA	NA	70.81
					2/20/2019	NA	23.05	NA	NA	71.60
					1/23/2018	NA	25.45	NA	NA	69.20
					6/27/2017	NA	22.81	NA	NA	71.84
					10/19/2016	NA	22.84	NA	NA	71.81
					5/18/2016	NA	21.66	NA	NA	72.99
					11/3/2015	NA	24.05	NA	NA	70.60
					5/28/2015	24.04	24.05	0.01	70.61	70.60
					11/12/2015	Unable to Locate				
					4/2/2014	NA	23.07	NA	NA	71.58

Table 1

Facility Name: Handy Pantry #65 / University Mart & Clouds Chevron — UST Permit ID: 07584 / 07777 / 12352

Address: 2367 Taylor Street Columbia, South Carolina — CES Project Number: 7.0547

Well Construction and Historical Groundwater Elevation Summary

Monitor Well	Well Depth (ft)	Screened Interval		Top of Casing (ft)	Date Measured	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Product Elevation (ft)	Groundwater Elevation (ft)
MW-65	35	20	35	94.04	8/22/2019	Unable to Locate - Paved over				
					2/20/2019					
					1/22/2018					
					6/26/2017					
					10/19/2016					
					5/15/2016					
					11/3/2015					
					5/28/2015					
					11/11/2014					
					4/2/2014					
MW-67	35	20	35	96.10	8/22/2019	NA	23.80	NA	NA	72.30
					2/20/2019	NA	25.35	NA	NA	70.75
					1/23/2018	NA	27.44	NA	NA	68.66
					6/27/2017	NA	25.42	NA	NA	70.68
					10/19/2016	NA	25.18	NA	NA	70.92
					5/18/2016	NA	23.73	NA	NA	72.37
					11/3/2015	NA	23.52	NA	NA	72.58
					6/2/2015	NA	26.29	NA	NA	69.81
					11/12/2014	NA	27.28	NA	NA	68.82
					4/1/2014	NA	24.44	NA	NA	71.66
MW-70	35	20	35	95.49	8/22/2019	NA	25.07	NA	NA	70.42
					2/20/2019	NA	24.68	NA	NA	70.81
					1/23/2018	NA	26.36	NA	NA	69.13
					6/27/2017	NA	24.51	NA	NA	70.98
					10/19/2016	NA	24.43	NA	NA	71.06
					5/18/2016	NA	23.11	NA	NA	72.38
					11/3/2015	NA	22.89	NA	NA	72.60
					5/28/2015	NA	25.60	NA	NA	69.89
					11/11/2014	NA	26.22	NA	NA	69.27
					4/2/2014	NA	24.70	NA	NA	70.79
MW-5AR	28	18	28	94.18	8/22/2019	NA	21.89	NA	NA	72.29
					2/20/2019	NA	21.04	NA	NA	73.14
					1/24/2018	NA	23.16	NA	NA	71.02
					6/27/2017	NA	21.61	NA	NA	72.57
					10/19/2016	NA	21.04	NA	NA	73.14
					5/15/2016	NA	19.59	NA	NA	74.59
					11/3/2015	NA	16.39	NA	NA	77.79
					5/28/2015	NA	20.91	NA	NA	73.27
					11/13/2014	NA	22.64	NA	NA	71.54
					4/1/2014	NA	21.24	NA	NA	72.94
PW-1R	50	45	50	93.75	8/22/2019	NA	23.16	NA	NA	70.59
					2/20/2019	NA	22.72	NA	NA	71.03
					1/24/2018	NA	24.43	NA	NA	69.32
					6/28/2017	NA	22.16	NA	NA	71.59
					10/19/2016	NA	22.36	NA	NA	71.39
					5/18/2016	NA	21.03	NA	NA	72.72
					11/3/2015	NA	21.43	NA	NA	72.32
					5/29/2015	23.19	23.20	0.01	70.56	70.55
					11/13/2014	NA	23.92	NA	NA	69.83
					4/3/2014	NA	23.11	NA	NA	70.64
DW-1	70	65	70	94.66	8/22/2019	NA	44.17	NA	NA	50.49
					2/20/2019	NA	44.02	NA	NA	50.64
					1/22/2018	NA	43.95	NA	NA	50.71
					6/28/2017	NA	42.91	NA	NA	51.75
					10/19/2016	NA	42.32	NA	NA	52.34
					5/16/2016	NA	42.71	NA	NA	51.95
					11/3/2015	NA	46.28	NA	NA	48.38
					5/29/2015	NA	46.28	NA	NA	48.38
					11/10/2014	NA	45.42	NA	NA	49.24
					4/2/2014	NA	45.00	NA	NA	49.66
DW-2	75	70	75	94.02	8/22/2019	NA	43.50	NA	NA	50.52
					2/20/2019	NA	43.30	NA	NA	50.72
					1/22/2018	NA	43.23	NA	NA	50.79
					6/28/2017	NA	42.21	NA	NA	51.81
					10/19/2016	NA	43.05	NA	NA	50.97
					5/16/2016	NA	41.99	NA	NA	52.03
					11/3/2015	NA	43.07	NA	NA	50.95
					11/11/2014	NA	44.88	NA	NA	49.14
					4/2/2014	NA	44.34	NA	NA	49.68

Table 1

Facility Name: Handy Pantry #65 / University Mart & Clouds Chevron — UST Permit ID: 07584 / 07777 / 12352
Address: 2367 Taylor Street Columbia, South Carolina — CES Project Number: 7.0547

Well Construction and Historical Groundwater Elevation Summary

Monitor Well	Well Depth (ft)	Screened Interval		Top of Casing (ft)	Date Measured	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Product Elevation (ft)	Groundwater Elevation (ft)
DW-3	52	47	52	93.75	8/22/2019	NA	23.66	NA	NA	70.09
					2/20/2019	NA	23.32	NA	NA	70.43
					1/24/2018	NA	25.11	NA	NA	68.64
					6/28/2017	NA	22.85	NA	NA	70.90
					10/19/2016	NA	23.07	NA	NA	70.68
					5/18/2016	NA	21.70	NA	NA	72.05
					11/3/2015	NA	21.29	NA	NA	72.46
					5/28/2015	NA	23.93	NA	NA	69.82
					11/13/2014	NA	24.42	NA	NA	69.33
					4/3/2014	NA	24.40	NA	NA	69.35
DW-4	110	105	110	93.79	8/22/2019	NA	43.91	NA	NA	49.88
					2/20/2019	NA	43.26	NA	NA	50.53
					1/24/2018	NA	43.33	NA	NA	50.46
					6/28/2017	NA	38.96	NA	NA	54.83
					10/19/2016	NA	42.79	NA	NA	51.00
					5/18/2016	NA	42.31	NA	NA	51.48
					11/3/2015	NA	43.34	NA	NA	50.45
					5/28/2015	NA	44.51	NA	NA	49.28
					11/13/2014	NA	3.45	NA	NA	90.34
					4/3/2014	NA	44.60	NA	NA	49.19
DW-5	70	65	70	93.74	8/22/2019	NA	43.59	NA	NA	50.15
					2/20/2019	NA	43.26	NA	NA	50.48
					1/24/2018	NA	43.46	NA	NA	50.28
					6/28/2017	NA	42.34	NA	NA	51.40
					10/19/2016	NA	42.51	NA	NA	51.23
					5/16/2016	NA	42.12	NA	NA	51.62
					11/3/2015	NA	42.89	NA	NA	50.85
					5/28/2015	NA	44.45	NA	NA	49.29
					11/12/2014	NA	44.75	NA	NA	48.99
					4/1/2014	NA	44.22	NA	NA	49.52
DW-6	70	65	70	95.90	8/22/2019	Unable to Locate				
					1/23/2018	NA	45.51	NA	NA	50.39
					6/28/2017	NA	44.31	NA	NA	51.59
					10/19/2016	NA	44.54	NA	NA	51.36
					5/18/2016	NA	44.10	NA	NA	51.80
					11/3/2015	NA	44.59	NA	NA	51.31
					6/2/2015	NA	46.16	NA	NA	49.74
					11/12/2014	NA	46.64	NA	NA	49.26
					4/1/2014	NA	45.86	NA	NA	50.04
DW-7	55	50	55	72.79	8/22/2019	Destroyed - Paved Over				
					2/20/2019					
					1/24/2018					
					6/26/2017					
					10/19/2016	NA	22.24	NA	NA	50.55
					5/18/2016	NA	21.82	NA	NA	50.97
					11/3/2015	NA	22.97	NA	NA	49.82
					5/28/2015	NA	24.32	NA	NA	48.47
					11/11/2014	NA	24.75	NA	NA	48.04
					4/3/2014	NA	24.00	NA	NA	48.79
DW-8	55	50	55	68.63	8/22/2019	Not Sampled due to Obstruction				
					2/20/2019					
					1/24/2018					
					6/26/2017					
					10/19/2016					
					5/18/2016					
					11/3/2015	NA	19.43	NA	NA	49.20
					5/29/2015	NA	5.37	NA	NA	63.26
					11/11/2014	Abandoned				
					4/2/2014					
DW-9	65	60	65	76.47	8/22/2019	NA	24.00	NA	NA	52.47
					2/20/2019	NA	23.87	NA	NA	52.60
					1/22/2018	NA	23.73	NA	NA	52.74
					6/28/2017	NA	22.73	NA	NA	53.74
					10/19/2016	NA	22.87	NA	NA	53.60
					5/18/2016	NA	22.42	NA	NA	54.05
					11/3/2015	NA	23.62	NA	NA	52.85
					5/28/2015	NA	24.90	NA	NA	51.57
					11/11/2014	NA	24.44	NA	NA	52.03
					4/2/2014	NA	25.00	NA	NA	51.47

INA = Information not available

* = GW Elevation Corrected for The Presence of Free Product

n/a = not applicable

CRAWFORD ENVIRONMENTAL SERVICES

Table 2

Facility Name: Handy Pantry #65 / University Mart & Clouds Chevron | UST | 07584 / 07777 / 12352

Address: 2367 Taylor Street Columbia, South Carolina | Crawford Project No. | 7.0547

Groundwater Laboratory Analytical Result Summary

Well ID:	Date:	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphthalene	TAA	TAME	TBA
MW-1	4/2/2014	Dry								
	11/11/2014									
	5/29/2015									
	11/3/2015									
	5/15/2016									
	10/16/2016									
	6/26/2017									
	1/22/2018									
	2/20/2019									
	8/22/2019									
MW-2	4/2/2014	170	41	200	960	320	150	230	1	6.8
	11/4/2014	140	300	220	1300	410	160	210	<10	<100
	5/29/2015	0.01-Feet of Free Product								
	11/4/2015	0.61	0.48	1.4	5.5	<1	2.6	<100	<10	<100
	5/16/2016	11	0.83 J	0.98 J	49	18	12	<100	<10	<100
	10/21/2016	34	4.9	23	60	56	18	68 J	<10	47 J
	6/27/2017	190	5.6	140	640	370	140	190	14	<100
	1/22/2018	450	10	270	960	520	190	430	23	<100
	2/20/2019	120	4.6	180	290	110	120	73 J	<10	<100
	8/22/2019	100	4.8 J	220	340	180	160	95	5.7 J	68
MW-3	4/2/2014	6900	18000	1200	16000	1800	600	980	560.000	340
	11/12/2014	4600	11000	620	8700	1300	280	<5000	310.000	<5000
	5/29/2015	0.09-Feet of Free Product								
	11/4/2015	3000	8700	600	7200	720	360	<2000	140	<2000
	5/16/2016	7800	22000	1800	21000	2500	870	<5000	410 J	<5000
	10/21/2016	480	1000	76	2100	67	61	210	29	330
	6/27/2017	3900	13000	1100	10000	370	560	<1000	210	<1000
	1/22/2018	8400	29000	2400	29000	1500	740	<1000	370 J	<10000
	2/20/2019	5300	21000	1500	17000	520	1600 J	<50000	<5000	<50000
	8/22/2019	4,300	20,000	1,400	15,000	520 J	610 J	<1,600	220 J	<1,600
MW-4	4/2/2014	<1	<1	<1	<1	3.5	<5	<100	10.000	<100
	11/11/2014	<1	<1	<1	<1	1.6	<5	<100	<10	<100
	5/29/2015	<1	<1	<1	<1	1.9	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	1.9	<5	<100	<10	<100
	5/16/2016	<1	<1	<1	<1	0.87 J	<5	<100	<10	<100
	10/21/2016	<1	<1	<1	<1	1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	0.73 J	<5	<100	<10	<100
	1/22/2018	<1	<1	<1	<1	2.2	<5	<100	<10	<100
MW-5	4/2/2014	Dry								
	11/11/2014									
	5/29/2015									
	11/3/2015									
	5/16/2016	0.29 J	<1	<1	<1	<1	<5	<100	<10	<100
	10/19/2016	Dry								
	6/26/2017	Dry								
	1/22/2018	Dry								
	2/20/2019	Dry								
MW-6	4/3/2014	2.6	<1	2.4	10	2.5	4.2	<100	<10	<100
	11/11/2014	<1	<1	<1	<1	0.8	<5	<100	<10	<100
	5/29/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/17/2016	<1	<1	<1	<1	1.7	<5	<100	<10	<100
	10/21/2016	<1	<1	<1	<1	<1	1.9 J	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	1.9	<5	<100	<10	<100
	1/22/2018	<1	<1	<1	<1	13	<5	<100	<10	<100
MW-7	4/3/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/11/2014	0.71	<1	<1	<1	<1	<5	<100	<10	<100
	5/29/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/16/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/21/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	1.3 J	<100	<10	<100
	1/22/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100

Table 2

Facility Name: Handy Pantry #65 / University Mart & Clouds Chevron — UST — 07584 / 07777 / 12352

Address: 2367 Taylor Street Columbia, South Carolina — Crawford Project No. — 7.0547

Groundwater Laboratory Analytical Result Summary

Well ID:	Date:	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphthalene	TAA	TAME	TBA
MW-8	4/3/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/11/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/29/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/17/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/21/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/22/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-9	4/2/2014	830	7500	1700	14000	50	590	1700	5000	5000
	11/11/2014	380	11000	1900	13000	5	650	1100	<10	<100
	5/28/2015	250	5700	1200	8200	<50	480	<5000	<500	<5000
	11/4/2015	520	6200	1100	8600	<50	470	3000	<500	<5000
	5/16/2016	78	1900	1000	4300	<1	440	200	<10	<100
	10/21/2016	60	1500	730	3800	<1	210	550	<10	<100
	6/26/2017	Unable to Locate								
	1/22/2018	150	5400	1700	13000	<50	680	<5000	<500	<5000
	2/20/2019	130	2100	720	5700	<1.0	340	280	<10	<100
	8/22/2019	38 J	920	330	1,900	<4.0	92	300	<4.2	<80
MW-10	4/1/2014	1800	5700	350	8500	50	690	5000	500	5000
	11/11/2014	1.25-Feet of Free Product								
	5/28/2015	66	76	67	860	<1	370	<100	<10	<100
	11/4/2015	10	18	4.5	120	<1	46	<100	<10	<100
	5/18/2016	88	11	22	97	<1	170	<100	<10	<100
	10/21/2016	27	7.1	11	93	<1	47	<100	<10	<100
	6/28/2017	27	3.3	17	59	<1	120	<100	<10	<100
	1/22/2018	40	15	94	690	<1	120	42 J	<10	<100
	2/20/2019	19	5.3	120	420	<1.0	170	<100	<10	<100
	8/23/2019	11 J	12 J	150	510	<4.0	170	<80	<4.2	<80
MW-11	4/2/2014	2.3	4.1	11	4.1	<1	4.4	120	<10	<100
	11/11/2014	0.53	<1	<1	<1	<1	<5	80	<10	58
	5/29/2015	0.51	<1	<1	3.8	<1	6.6	50	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/21/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/24/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-12	4/2/2014	2.9	0.67	1.6	0.91	18	4.7	630	9	<100
	11/11/2014	990	19	910	140	21	180	3600	14	<100
	5/28/2015	53	2.7	430	14	22	44	2300	<10	<100
	11/4/2015	110	2	53	25	<1	10	1800	8	<100
	5/18/2016	260	83	710	330	17	190	1300	<10	<100
	10/20/2016	180	18	420	300	13	110	4000	<10	<100
	6/26/2017	Destroyed - Paved Over								
	1/23/2018	Destroyed - Paved Over								
	2/20/2019	Destroyed - Paved Over								
	8/22/2019	Destroyed - Paved Over								
MW-13	4/1/2014	0.62	8.8	4.5	86	<1	31	10	<10	<100
	11/11/2014	<1	<1	<	<1	<1	<5	<100	<10	<100
	5/28/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<1	<100	<10	<100
	5/16/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/20/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/26/2017	Destroyed - Paved Over								
	1/23/2018	Destroyed - Paved Over								
	8/22/2019	Destroyed - Paved Over								
MW-15	4/1/2014	0.60-Feet of Free Product								
	11/11/2014	0.25-Feet of Free Product								
	5/29/2015	0.16-Feet of Free Product								
	11/3/2015	0.14-Feet of Free Product								
	5/15/2016	0.44-Feet of Free Product								
	10/19/2016	0.60-Feet of Free Product								
	6/28/2017	<1	300	320	7,500	<1	880	<100	<10	<100
	1/22/2018	0.74 J	490	250	6500	<1	<100	<100	<10	<100
	2/20/2019	<10	9.8 J	30	1700	<10	380	<1000	<100	<1000
	8/22/2019	<0.40	0.77 J	1.5 J	69	<0.40	15	<8.0	<0.42	<8.0

Table 2

Facility Name: Handy Pantry #65 / University Mart & Clouds Chevron — UST — 07584 / 07777 / 12352

Address: 2367 Taylor Street Columbia, South Carolina — Crawford Project No. — 7.0547

Groundwater Laboratory Analytical Result Summary

Well ID:	Date:	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphthalene	TAA	TAME	TBA
MW-16	4/2/2014	<1	<1	<1	<1	<1	3.4	<100	<10	<100
	11/12/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/29/2015	Unable to Locate								
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/20/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/22/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-17	4/2/2014	280	5100	450	13000	50	850	2200	500	5000
	11/12/2014	32	3000	450	8300	<10	690	270	<100	<1000
	5/28/2015	210	7500	480	12000	<50	830	2200	<500	<5000
	11/4/2015	280	10000	660	13000	<100	720	<10000	<1000	<10000
	5/15/2016	Not Sampled due to Obstruction								
	10/20/2016	<100	5500	510	11000	<100	560	<10000	<1000	<10000
	6/27/2017	10	5.8	190	26	<1	190	<100	<10	<100
	1/22/2018	35	13	430	150	<1	440	70 J	<10	<100
	2/21/2019	8.3	20	72	150	<1.0	50	59 J	<10	<100
	8/22/2019	12 J	1,100	140	3,700	<8.0	270	210 J	<8.4	<160
MW-18	4/2/2014	1900	7200	630	8300	340	370	4900	70	5000
	11/12/2014	3100	11000	560	8700	510	290	12000	<1000	<10000
	5/28/2015	970	2500	180	4100	230	180	3000	33	<100
	11/3/2015	990	5800	600	8900	93	260	<10000	<1000	<10000
	5/15/2016	260	1900	220	4900	20	220	690	<10	<100
	10/20/2016	510	2400	230	3700	68	120	5500	48	1100
	6/27/2017	310	1800	300	4100	6.3	140	190	<10	<100
	1/24/2018	1800	11000	1400	12000	49	560	3300	<200	<2000
	2/21/2019	360	1100	120	2500	<1.0	73	1400	<10	<100
	8/22/2019	290	1,700	310	3,300	<20	250	640 J	<21	<400
MW-19	4/3/2014	300	1800	490	12000	50	900	610	500	5000
	11/13/2014	1400	2800	1600	24000	<50	1400	1300	<50	<5000
	5/28/2015	2100	17000	330	16000	<50	1200	6200	<500	<5000
	11/3/2015	2900	19000	720	17000	<100	1100	5400	<1000	<10000
	5/18/2016	2900	19000	1100	22000	200	1400	4300 J	<500	<5000
	10/21/2016	2500	18000	1200	19000	<500	1200 J	<50000	<5000	<50000
	6/27/2017	3200	21000	1100	20000	130	950	6700 J	<1000	<10000
	1/24/2018	3100	23000	1100	17000	<500	770 J	<50000	<5000	<50000
	2/21/2019	2100	19000	1300	19000	<500	2500 J	<50000	<5000	<50000
	8/22/2019	2,400	23,000	1,500	21,000	<80	1,200	2,100 J	<84	<1,600
MW-20	4/3/2014	1800	11000	460	11000	50	960	3100	65	5000
	11/13/2014	1400	12000	500	14000	120	1100	<10000	<1000	<10000
	5/29/2015	0.06-Feet of Free Product								
	11/3/2015	930	11000	1000	17000	<50	1400	<5000	<500	<5000
	5/15/2016	690	10000	2100	23000	<50	1600	<5000	<500	<5000
	10/21/2016	490	7000	1600	20000	<50	1200	4200 J	<500	<5000
	6/27/2017	390	10000	2000	26000	<50	1500	2500 J	<500	<5000
	2/21/2019	1900	6200	1300	19000	<50	1100	1700 J	<500	<5000
	8/22/2019	770	4,500	1,600	17,000	<40	1,100	1,600 J	<42	<800
MW-22	4/3/2014	5700	12000	880	23000	50	990	3600	500	5000
	11/11/2014	6300	23000	700	21000	<20	1200	9600	<20	<140
	6/5/2015	4800	16000	760	26000	<100	840	<10000	<1000	<10000
	11/3/2015	6400	20000	740	24000	<100	1000	3900	<1000	<10000
	5/15/2016	1900	11000	1500	28000	<50	1400	<5000	<500	<5000
	10/21/2016	3400	20000	1600	20000	<500	720 J	<50000	<5000	<50000
	6/27/2017	2100	13000	1100	15000	<500	<2500	<50000	<5000	<50000
	1/24/2018	2500	18000	1600	29000	<100	850	2900 J	<1000	<10000
	2/21/2019	2800	7400	170	20000	<50	960	2300 J	<500	<5000
	8/22/2019	3,000	9,200	260 J	19,000	<40	980	2,900	<42	<800
MW-23	4/3/2014	4200	16000	880	19000	120	1100	5900	500.000	5000
	11/13/2014	890	3600	450	16000	<50	1200	1500	<50	<340
	5/28/2015	570	1500	89	8300	<50	660	<5000	<500	<5000
	11/3/2015	2.9	8.5	1.5	190	<1	52	<100	<10	<100
	5/18/2016	280	990	110	4200	7.3	470	520	<10	<100
	10/21/2016	600	1900	130	4600	18	390	4000	<10	<100
	6/27/2017	400	1500	120	3800	6.3	370	1000	<10	<100
	1/24/2018	1100	4700	300	8500	11	1200	2700	11	<100
	2/21/2019	1500	6700	400	6600	<50	720	1600 J	<500	<5000
	8/22/2019	370	2,800	260	4,300	<8.0	420	960	<8.4	<160

Table 2

Facility Name: Handy Pantry #65 / University Mart & Clouds Chevron — UST — 07584 / 07777 / 12352

Address: 2367 Taylor Street Columbia, South Carolina — Crawford Project No. — 7.0547

Groundwater Laboratory Analytical Result Summary

Well ID:	Date:	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphthalene	TAA	TAME	TBA
MW-25	4/1/2014	5.5	200	320	4400	<1	1300	170	<10	<100
	11/10/2014	38	140	200	2600	1.9	490	2800	<10	<100
	5/28/2015	29	140	190	3000	<1	560	430	<10	<100
	11/3/2015	14	150	200	2600	<1	340	390	<10	<100
	5/15/2016	Unable to Locate								
	10/19/2016	8.8	120	230	3400	<1	450	<100	<10	<100
	6/26/2017	Unable to Locate								
	1/24/2018	10	200	270	4700	<1	520	680	<10	<100
	2/20/2019	Unable to Locate								
	8/22/2019	1.8 J	<0.40	80	2.2 J	<0.40	110	8.0 J	<0.42	<8.0
MW-26	4/3/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/11/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/2/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/17/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/19/2016	Not Sampled due to Obstruction								
	6/28/2017	<1	<1	<1	<1	<1	1.1 J	<100	<10	<100
	1/22/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100
	8/22/2019	Unable to Locate								
MW-27	4/1/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/13/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/28/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/3/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/17/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/19/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/24/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-28	4/1/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/13/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/28/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/3/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/17/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/19/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/24/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-29	4/1/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/13/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/29/2015	0.01-Feet of Free Product								
	11/3/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/17/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/19/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/24/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-30	4/1/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/10/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/28/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/3/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/15/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/19/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/24/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-31	4/2/2014	0.9	<1	<1	<1	2.7	<5	59	<10	<100
	11/12/2014	30	9.8	310	9.3	4.1	160	460	<10	<100
	5/29/2015	0.01-Feet of Free Product								
	11/3/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/17/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/20/2016	7.9	<1	6.1	<1	<1	130	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/23/2018	8.5	<1	6.9	<1	<1	130	130	<10	<100
	2/21/2019	<1.0	<1.0	<1.0	<1.0	<1.0	2.8 J	<100	<10	<100
	8/22/2019	18	100	140	240	3.0 J	180	220	<0.42	<8.0

Table 2

Facility Name: Handy Pantry #65 / University Mart & Clouds Chevron — UST — 07584 / 07777 / 12352

Address: 2367 Taylor Street Columbia, South Carolina — Crawford Project No. — 7.0547

Groundwater Laboratory Analytical Result Summary

Well ID:	Date:	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphthalene	TAA	TAME	TBA
MW-32	4/2/2014	0.94	<1	1.9	2.4	<1	6.6	170	<10	<100
	11/12/2014	4	13	72	10	<1	45	<100	<10	<100
	5/28/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/3/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/17/2016	<1	<1	<1	<1	<1	2.8 J	<100	<10	<100
	10/19/2016	Not Sampled due to Obstruction								
	6/27/2017	<1	<1	<1	<1	<1	1.4 J	<100	<10	<100
	1/24/2018	2.5	0.41 J	1.9	1.2	<1	28	<100	<10	<100
MW-33	4/1/2014	560	5200	2500	6900	50	670	4100	500.000	5000
	11/12/2014	130	410	210	550	1.2	71	1000	<10	<100
	5/28/2015	<1	<1	<1	<1	<1	<5	29	<10	<100
	11/3/2015	240	7500	1600	11000	<50	430	<5000	<500	<5000
	5/15/2016	260	3200	1400	4700	4.3	390	210	<10	<100
	10/19/2016	120	620	480	1700	<1	95	980	<10	<100
	6/27/2017	80	250	100	1400	<1	210	860	<10	<100
	1/23/2018	310	4100	2100	11000	<1	940	3600	<10	<100
	2/21/2019	61	2100	920	4800	<1.0	370	620	<10	<100
	8/22/2019	21 J	120	160	750	<2.0	78	220	<2.1	<40
MW-34	4/1/2014	<1	<1	<1	<1	<1	<5	39	<10	<100
	11/12/2014	<1	<1	<1	<1	<1	<5	39	<10	<100
	5/28/2015	<1	1.1	<1	<1	<1	<5	<100	<10	<100
	11/3/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/15/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/19/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/24/2018	<1	<1	0.26 J	<1	<1	<5	<100	<10	<100
MW-35	4/1/2014	3700	4300	2000	6200	160	550	5600	54	5000
	11/12/2014	6000	7200	2800	7400	330	700	4700	76	<100
	5/28/2015	3300	5100	1500	4700	<50	640	4400	<500	<5000
	11/3/2015	1900	2200	1100	3300	84	530	2300	28	<100
	5/16/2016	130	130	23	490	4.6	46	120	<10	<100
	10/20/2016	2200	3300	1300	4100	64	360	5800	63	<100
	6/27/2017	3100	3800	2400	4700	56	780	3000	29	<100
	1/24/2018	3600	6300	2900	6600	62	850	4100	<200	<2000
	2/21/2019	1100	2400	1500	3600	17	670	1800	<10	<100
	8/22/2019	1,100	1,600	1,900	2,800	16 J	670	1,700	<8.4	<160
MW-36	4/1/2014	5.1	<1	38	<1	<1	55	96	<10	<100
	11/12/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/28/2015	<1	1.3	<1	2.3	<1	<5	<100	<10	<100
	11/3/2015	0.74	<1	1.6	<1	<1	16	<100	<10	<100
	5/15/2016	1	<1	14	0.47 J	<1	54	<100	<10	<100
	10/19/2016	1.8	<1	25	<1	<1	14	<100	<10	<100
	6/27/2017	1	<1	<1	<1	<1	47	<100	<10	<100
	1/23/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-37	4/1/2014	<1	<1	<1	<1	<1	3.7	<100	<10	<100
	11/12/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/28/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/3/2015	3.5	<1	<1	5.4	<1	5.5	77	<10	<100
	5/16/2016	<1	<1	<1	<1	<1	0.95 J	<100	<10	<100
	10/20/2016	<1	<1	<1	<1	<1	1.0 J	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/23/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100
	2/21/2019	<1.0	<1.0	<1.0	<1.0	<1.0	2.6 J	<100	<10	<100
	8/22/2019	<0.40	<0.40	<0.40	<0.45	<0.40	<0.40	<8.0	<0.42	<8.0
MW-38	4/1/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/12/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/2/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/3/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/16/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/20/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/23/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100

Table 2

Facility Name: Handy Pantry #65 / University Mart & Clouds Chevron | UST | 07584 / 07777 / 12352

Address: 2367 Taylor Street Columbia, South Carolina | Crawford Project No. | 7.0547

Groundwater Laboratory Analytical Result Summary

Well ID:	Date:	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphthalene	TAA	TAME	TBA
MW-39	4/2/2014	<1	3.2	2.2	14	<1	3.3	<100	<10	<100
	11/12/2014	11	1500	1000	3700	<1	340	220	<10	<100
	6/2/2015	1.3	160	140	1100	<1	160	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/16/2016	<1	1.2	1.9	4.9	<1	<5	<100	<10	<100
	10/20/2016	1.5	390	780	2300	<1	320	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/23/2018	0.48 J	220	480	2000	<1	370	56 J	<10	<100
	2/20/2019	Unable to Locate								
	8/22/2019	Unable to Locate								
MW-40	4/2/2014	5.8	14	2	580	<1	24	<100	<10	<100
	11/12/2014	140	970	300	2900	12	150	600	<10	<100
	6/2/2015	5.2	47	3.9	590	<1	38	<100	<10	<100
	11/4/2015	0.51	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	<1	<1	1.4	<1	<1	<5	<100	<10	<100
	10/20/2016	<1	<1	1.4	<1	<1	<5	<100	<10	<100
	6/27/2017	22	5.1	600	98	<1	480	<100	<10	<100
	1/23/2018	1.5	<1	9.8	<1	<1	6.1	<100	<10	<100
	2/21/2019	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<100	<10	<100
	8/23/2019	<0.40	<0.40	<0.40	<0.45	<0.40	0.61 J	<8.0	<0.42	<8.0
MW-41	4/1/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/11/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/2/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/20/2016	26	3.2	510	15	<1	340	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/23/2018	10	330	210	680	<1	110	65 J	<10	<100
	2/21/2019	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<100	<10	<100
	8/22/2019	<0.40	<0.40	<0.40	<0.45	<0.40	<0.40	<8.0	<0.42	<8.0
MW-42	4/1/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/12/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/2/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	<1	<1	0.31 J	<1	<1	<5	<100	<10	<100
	10/20/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	3.8	5.4	<1	4.9	<100	<10	<100
	1/23/2018	<1	0.41 J	57	48	<1	64	<100	<10	<100
	8/22/2019	Unable to Locate								
MW-43	4/2/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/11/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/28/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/20/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/23/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-44	4/1/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/11/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/28/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/20/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/23/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-45	4/1/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/11/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/28/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/20/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/23/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100

Table 2

Facility Name: Handy Pantry #65 / University Mart & Clouds Chevron — UST — 07584 / 07777 / 12352

Address: 2367 Taylor Street Columbia, South Carolina — Crawford Project No. — 7.0547

Groundwater Laboratory Analytical Result Summary

Well ID:	Date:	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphthalene	TAA	TAME	TBA
MW-46	4/1/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/11/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/28/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/16/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/20/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/23/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-48	4/2/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/11/2014	Unable to Access - Locked Gate								
	5/29/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/3/2015	Unable to Access - Locked Gate								
	5/18/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/25/2016	Unable to Access - Locked Gate								
	6/26/2017	Unable to Access - Locked Gate								
	1/22/2018	Unable to Access - Locked Gate								
	8/22/2019	Unable to Access - Locked Gate								
MW-49	4/2/2014	Unable to Access - Locked Gate								
	11/11/2014									
	5/29/2015									
	11/3/2015									
	5/15/2016									
	10/19/2016									
	6/26/2017									
	1/24/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-50	4/2/2014	Unable to Access - Locked Gate								
	11/11/2014									
	5/29/2015									
	11/3/2015									
	5/15/2016									
	10/19/2016									
	6/26/2017									
	1/24/2018									
MW-51	4/2/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/11/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/29/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/20/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/24/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100
	8/22/2019	Unable to Locate								
MW-53	4/3/2014	<1	<1	<1	<1	<1	4.1	<100	<10	<100
	11/11/2014	<1	<1	<1	<1	<1	4.1	<100	<10	<100
	5/28/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/15/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/21/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/22/2018	<1	<1	0.36 J	<1	<1	<5	<100	<10	<100
MW-54	4/1/2014	<1	<1	<1	<1	9.6	<5	<100	6.700	<100
	11/11/2014	Unable to Locate								
	5/28/2015	<1	<1	<1	<1	6.4	<5	140	<10	<100
	11/4/2015	<1	<1	<1	<1	1.5	<5	<100	<10	<100
	5/18/2016	0.60 J	<1	<1	<1	5.0	<5	60 J	<10	<100
	10/20/2016	<1	<1	<1	<1	2.0	<5	130	<10	<100
	6/26/2017	Destroyed - Paved Over								
	1/23/2018	Destroyed - Paved Over								
	2/20/2019	Destroyed - Paved Over								
	8/22/2019	Destroyed - Paved Over								
MW-55	4/3/2014	10	1	3.5	<1	24	3.9	98	6.400	<100
	11/11/2014	Unable to Locate								
	5/28/2015	1000	40	410	260	190	180	1700	15	<100
	11/4/2015	640	64	200	230	160	120	1200	11	56
	5/18/2016	950	44	320	210	220	130	2600	15	<100
	10/21/2016	1500	310	860	1100	210	240	6000	43	370
	6/27/2017	200	2.9	53	20	100	50	2000	15	<100
	1/22/2018	720	100	710	880	130	300	2800	11	<100

Table 2

Facility Name: Handy Pantry #65 / University Mart & Clouds Chevron | UST | 07584 / 07777 / 12352

Address: 2367 Taylor Street Columbia, South Carolina | Crawford Project No. | 7.0547

Groundwater Laboratory Analytical Result Summary

Well ID:	Date:	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphthalene	TAA	TAME	TBA
MW-56	4/3/2014	<1	<1	<1	<1	<1	<5	50	<10	<100
	11/11/2014	Unable to Locate								
	5/28/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/21/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/22/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-58	4/2/2014	Abandoned								
	11/11/2014									
	5/29/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/15/2016	Not Sampled due to Obstruction								
	10/19/2016									
	6/27/2017									
	1/24/2018									
	2/20/2019									
	8/22/2019									
MW-59	4/2/2014	28	2.8	300	6.4	130	45	2600	42	160
	11/11/2014	81	3.6	730	14	91	96	4500	27	<100
	5/28/2015	1400	23	1100	620	89	290	3900	34	<100
	11/4/2015	1300	48	440	850	58	250	2800	19	<100
	5/18/2016	1900	51	950	760	96	260	4300	28	<100
	10/20/2016	2400	61	1400	2300	62	390	10000	63	300
	6/28/2017	2400	77	2000	3400	43	490	3600	32	<100
	1/22/2018	2500	130	1800	3100	35	530	4700	21	<100
MW-60	4/2/2014	Unable to Locate								
	11/11/2014									
	5/29/2015									
	11/3/2015									
	5/15/2016									
	10/19/2016									
	6/26/2017									
	1/22/2018									
	8/22/2019									
MW-62	4/1/2014	0.86	<1	<1	<1	3	3.3	260	<10	<100
	11/12/2014	51	<1	<1	0.93	2.6	65	730	<10	<100
	5/29/2015	1.50-Feet of Free Product								
	12/17/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/15/2016	Not Sampled due to Obstruction								
	10/19/2016	Not Sampled due to Obstruction								
	6/27/2017	1.6	<1	<1	<1	0.69 J	2.4 J	93 J	<10	<100
	1/23/2018	33	<1	<1	<1	2.4	46	770	<10	<100
	8/22/2019	Blocked by Vehicle								
MW-63	4/2/2014	<1	<1	<1	<1	<1	5	120	<10	<100
	11/12/2014	Unable to Locate								
	5/29/2015	0.01-Feet of Free Product								
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/20/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/23/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-65	4/2/2014	Unable to Locate - Paved over								
	11/11/2014									
	5/29/2015									
	11/3/2015									
	5/15/2016									
	10/19/2016									
	6/26/2017									
	1/22/2018									
	2/20/2019									
	8/22/2019									

Table 2

Facility Name: Handy Pantry #65 / University Mart & Clouds Chevron — UST — 07584 / 07777 / 12352

Address: 2367 Taylor Street Columbia, South Carolina — Crawford Project No. — 7.0547

Groundwater Laboratory Analytical Result Summary

Well ID:	Date:	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphthalene	TAA	TAME	TBA
MW-67	4/1/2014	<1	<1	<1	<1	<1	5	<100	<10	<100
	11/12/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/2/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/20/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/23/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-70	4/2/2014	<1	<1	<1	<1	<1	5	<100	<10	<100
	11/11/2014	<1	<1	<1	<1	<1	1.5	<100	<10	<100
	5/28/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	<1	<1	<1	0.44 J	<1	<5	<100	<10	<100
	10/20/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/27/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/23/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-5AR	4/1/2014	12000	13000	2400	13000	70	1000	<5000	160.000	<5000
	11/13/2014	830	180	98	670	13	130	<100	13.000	<100
	5/28/2015	2500	1200	280	1300	43	460	650	52.000	<100
	11/3/2015	5200	10000	810	5300	<100	580	<10000	<1000	<10000
	5/15/2016	7000	6400	1200	8000	<100	890	<10000	<1000	<10000
	10/21/2016	6300	3000	1100	7200	<50	1100	<5000	<500	<5000
	6/27/2017	1900	92	330	1400	2.3	390	220	13	<100
	1/24/2018	7000	320	960	2700	19	1100	2700	49	<100
	2/21/2019	3200	240	1000	4500	<1.0	650	250	26	<100
	8/22/2019	1,600	180	230	1,200	5.5 J	250	930	18 J	<80
PW-1R	4/3/2014	460	3400	320	9200	<50	<250	710	<500	<5000
	11/13/2014	850	6900	580	18000	<50	1300	<5000	<500	<5000
	5/29/2015	0.01-Feet of Free Product								
	11/3/2015	830	20000	1200	14000	<500	600	<50000	<5000	<50000
	5/18/2016	210	1200	170	3200	6.8	200	380	<10	<100
	10/21/2016	410	5900	440	7200	<20	320	1900 J	<200	<2000
	6/28/2017	380	7900	510	9100	<50	320	<5000	<500	<5000
	1/24/2018	370	4300	480	13000	<100	340 J	<10000	<1000	<10000
	2/21/2019	200	2600	310	8100	<50	440	<5000	<500	<5000
	8/23/2019	230 J	3,400	400	7,300	<20	430	460 J	<21	<400
DW-1	4/2/2014	0.45	1.2	1.7	7.2	<1.0	<5.0	<100	<10	<100
	11/10/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/29/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/16/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/21/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/28/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/22/2018	<1	<1	<1	<1	<1	1.4 J	<100	<10	<100
DW-2	4/2/2014	<1.0	<1.0	<1.0	<1.0	7.1	4.1	<100	<10	<100
	11/11/2014	<1	<1	<1	<1	10	<5	<100	<10	<100
	5/29/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	8.7	<5	<100	<10	<100
	5/16/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/21/2016	<1	<1	<1	<1	2.9	<5	<100	<10	<100
	6/28/2017	<1	<1	<1	<1	2.4	<5	<100	<10	<100
	1/22/2018	<1	<1	<1	<1	3.7	<5	<100	<10	<100
DW-3	4/3/2014	9800	22000	3700	17000	990	780	10000	190	<5000
	11/13/2014	2000	20000	2800	10000	23	650	2700	<20	<140
	5/28/2015	310	4000	79	3100	6.5	130	750	<10	<100
	11/3/2015	4300	16000	2300	11000	230	800	2600	50	<2000
	5/18/2016	2600	10000	1400	8200	160	410	<5000	<500	<5000
	10/21/2016	4200	8300	1800	5200	240	450 J	8200 J	<1000	<10000
	6/28/2017	3400	8600	1600	5200	120	310	3400 J	370 J	<5000
	1/24/2018	700	960	210	410	44	68	790	10	<100
	2/21/2019	540	3300	1300	5200	<1.0	410	1100	<10	<100
	8/23/2019	9,600	23,000	2,100	9,100	170 J	540 J	5,700	110 J	<1,600

Table 2

Facility Name: Handy Pantry #65 / University Mart & Clouds Chevron | UST | 07584 / 07777 / 12352

Address: 2367 Taylor Street Columbia, South Carolina | Crawford Project No. | 7.0547

Groundwater Laboratory Analytical Result Summary

Well ID:	Date:	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphthalene	TAA	TAME	TBA
DW-4	4/3/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/13/2014	<1	1	<1	<1	<1	<5	<100	<10	<100
	6/2/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/3/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/21/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/28/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/24/2018	5.6	1.4	<1	<1	<1	<5	<100	<10	<100
DW-5	4/1/2014	3300	68	37	1000	940	81	4300	83	<100
	11/12/2014	6700	380	240	3100	1400	190	5300	110	<100
	5/28/2015	6900	660	420	3800	1200	290	6300	<500	<5000
	11/4/2015	5900	490	200	1800	1100	170	4800	89	<100
	5/16/2016	9200	1600	750	5300	1400	470	4300	95 J	<100
	10/25/2016	5700	1200	460	2800	1000	200 J	17000	<1000	<10000
	6/28/2017	5200	1400	380	2400	890	130 J	7200	390 J	<5000
	1/24/2018	9400	3300	970	5300	1000	340	10000	<500	<5000
DW-6	4/1/2014	8.5	1.2	1.6	7.2	3	5	<100	<10	<100
	11/12/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/2/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/25/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/28/2017	<1	<1	0.37 J	<1	<1	<5	<100	<10	<100
	1/23/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100
DW-7	4/3/2014	0.52	0.46	<1.0	1.4	2.6	4.2	<100	<10	<100
	11/11/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/28/2015	<1	<1	<1	<1	1.2	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	10/21/2016	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/26/2017	Destroyed - Paved Over								
	1/24/2017	Destroyed - Paved Over								
	8/22/2019	Destroyed - Paved Over								
DW-8	4/2/2014	Abandoned								
	11/11/2014									
	5/29/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	Not Sampled due to Obstruction								
	10/21/2016	Not Sampled due to Obstruction								
	6/26/2017	Not Sampled due to Obstruction								
	1/24/2018	Not Sampled due to Obstruction								
	8/22/2019	Not Sampled due to Obstruction								
DW-9	4/2/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/11/2014	<1	2.8	<1	<1	<1	<5	<100	<10	<100
	5/28/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/18/2016	<1	42	<1	<1	<1	<5	<100	<10	<100
	10/21/2016	<1	<1	<1	<1	3.1	<5	<100	<10	<100
	6/28/2017	<1	<1	<1	<1	<1	<5	<100	<10	<100
	1/22/2018	<1	<1	<1	<1	<1	<5	<100	<10	<100
SW-1	4/2/2014	180	8.4	30	53	42	6.5	350	9.500	100
	11/12/2014	Unable to Access - Overgrown Brush								
	5/28/2015	230	18	89	160	30	24	590	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	44	<10	<100
	5/18/2016	130	18	53	92	12	16	430	<10	<100
	10/19/2016	Unable to Access - Overgrown Brush								
	2/21/2019	80	1.0	61	26	3.5	12	240	<10	<100
	8/23/2019	180	14	78	110	15	33	410	2.1 J	19 J

Table 2

Facility Name: Handy Pantry #65 / University Mart & Clouds Chevron — UST — 07584 / 07777 / 12352

Address: 2367 Taylor Street Columbia, South Carolina — Crawford Project No. — 7.0547

Groundwater Laboratory Analytical Result Summary

Well ID:	Date:	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphthalene	TAA	TAME	TBA
QUALITY CONTROL DATA										
Dup-1 (MW-23)	8/22/2019	400	2,900	260	4,300	<8.0	450	980	<8.4	<160
Dup-2 (MW-31)	8/22/2019	19	100	150	240	3.1 J	180	220	<0.42	<8.0
Dup-3 (DW-3)	8/23/2019	9,300	23,000	2,000	8,500	270 J	510 J	5,800	140 J	<1,600
Dup-4 (PW-1R)	8/23/2019	310	4,800	590	8,100	<20	470	580 J	<21	<400
Field Blank -1	8/22/2019	<0.40	<0.40	<0.40	<0.45	<0.40	<0.40	<8.0	<0.42	<8.0
Field Blank -2	8/23/2019	<0.40	<0.40	<0.40	<0.45	<0.40	<0.40	<8.0	<0.42	<8.0
Trip Blank	8/22/2019	<0.40	<0.40	<0.40	<0.45	<0.40	<0.40	<8.0	<0.42	<8.0

BDL= Below Detectable Limit

RBSL= Risk Based Screening Levels

NE= Not Established

CRAWFORD ENVIRONMENTAL SERVICES

1,2 DCA = 1,2 Dichloroethane

J = Estimated value detected below reporting limit

Table 3

Facility Name:	Handy Pantry #65 / University Mart & Clouds Chevron	UST	07584 / 07777 / 12352
Address:	2367 Taylor Street Columbia, South Carolina	Crawford Project No.	7.0547

Site Specific Target Level Summary

Well ID:	Item	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphth	TAA	TAME	TBA	Total	Notes
MW-2	Initial	140.0	280.0	56.0	460.0	380.0	54.0	200.0	9.2	140.0	1719.2	
	SSTL	77.0	280.0	56.0	460.0	380.0	54.0	200.0	9.2	140.0	1656.2	
	Initial > SSTL	63.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63.0	
	Subsequent	100	4.8	220	340	180	160	95	8	88	1173.5	
	SSTL	77.0	280.0	56.0	460.0	380.0	54.0	200.0	9.2	140.0	1656.2	
	Subsequent > SSTL	23.0	0.0	164.0	0.0	0.0	106.0	0.0	0.0	0.0	293.0	
MW-3	Initial	3000.0	7400.0	260.0	4500.0	3300.0	260.0	2000.0	340.0	1300.0	22360.0	
	SSTL	111.0	7400.0	260.0	4500.0	1976.0	108.0	2000.0	340.0	1300.0	17995.0	
	Initial > SSTL	2889.0	0.0	0.0	0.0	1324.0	152.0	0.0	0.0	0.0	4365.0	
	Subsequent	4350	20000	1400	15000	520	610	1600	220	1800	45250.0	
	SSTL	111.0	7400.0	260.0	4500.0	1976.0	108.0	2000.0	340.0	1300.0	17995.0	
	Subsequent > SSTL	4189.0	12600.0	1140.0	10500.0	0.0	502.0	0.0	0.0	300.0	29231.0	
MW-5	Initial	50.0	50.0	50.0	30.5	946.0	50.0	1000.0	100.0	1000.0	3276.5	Dry August 2019 - Results from 5/16/2016
	SSTL	50.0	50.0	50.0	30.5	946.0	50.0	1000.0	100.0	1000.0	3276.5	
	Initial > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Subsequent	0.29	1.0	1.0	1.0	1.0	5.0	100	10.0	100	219.3	
	SSTL	50.0	50.0	50.0	30.5	946.0	50.0	1000.0	100.0	1000.0	3276.5	
	Subsequent > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MW-9	Initial	4100.0	27000.0	2500.0	19000.0	150.0	960.0	1800.0	2000.0	20000.0	77310.0	
	SSTL	35.0	7134.0	2500.0	19000.0	150.0	68.0	809.0	270.0	15628.0	45694.0	
	Initial > SSTL	4065.0	19866.0	0.0	0.0	0.0	892.0	791.0	1730.0	4372.0	31716.0	
	Subsequent	38	920	350	1900	4.0	92	390	4.2	80	3688.2	
	SSTL	35.0	7134.0	2500.0	19000.0	150.0	68.0	809.0	270.0	15628.0	45694.0	
	Subsequent > SSTL	3.0	0.0	0.0	0.0	0.0	24.0	0.0	0.0	0.0	27.0	
MW-10	Initial	740.0	7800.0	2500.0	15000.0	2500.0	950.0	50000.0	5000.0	50000.0	134490.0	
	SSTL	24.0	7800.0	2500.0	15000.0	294.0	53.0	793.0	707.0	11042.0	38213.0	
	Initial > SSTL	716.0	0.0	0.0	0.0	2206.0	897.0	49207.0	4293.0	38958.0	96277.0	
	Subsequent	11	12	150	510	4.0	170	80	4.2	80	1021.2	
	SSTL	24.0	7800.0	2500.0	15000.0	294.0	53.0	793.0	707.0	11042.0	38213.0	
	Subsequent > SSTL	0.0	0.0	0.0	0.0	0.0	117.0	0.0	0.0	0.0	117.0	
MW-12	Initial	1.7	5.0	11.0	5.0	5.6	4.7	370.0	1.5	19.0	423.5	NS February 2019 - Results from 10/20/2016
	SSTL	1.7	5.0	11.0	5.0	5.6	4.7	370.0	1.5	19.0	423.5	
	Initial > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	
	Subsequent	180	18	420	300	13	110	4000	10	100	5151.0	
	SSTL	1.7	5.0	11.0	5.0	5.6	4.7	370.0	1.5	19.0	423.5	
	Subsequent > SSTL	178.3	13.0	409.0	295.0	7.4	105.3	3630.0	8.5	81.0	4727.5	
MW-16	Initial	Free Product										
	SSTL	16.9	3198.0	3700.0	21680.0	730.0	45.0	492.0	199.0	5838.0	36898.0	
	Initial > SSTL											
	Subsequent	0.40	0.77	1.5	59	0.40	15	8	0.42	6	103.8	
	SSTL	16.9	3198.0	3700.0	21680.0	730.0	45.0	492.0	199.0	5838.0	36898.0	
	Subsequent > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

Table 3

Facility Name:	Handy Pantry #65 / University Mart & Clouds Chevron	UST	07584 / 07777 / 12352
Address:	2367 Taylor Street Columbia, South Carolina	Crawford Project No.	7.0547

Site Specific Target Level Summary

Well ID:	Item	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphth	TAA	TAME	TBA	Total	Notes
MW-17	Initial	1400.0	26000.0	2690.0	23000.0	1000.0	1000.0	9400.0	2000.0	20000.0	86300.0	
	SSTL	32.0	8631.0	2590.0	21680.0	1000.0	86.0	773.0	283.0	14286.0	47231.0	
	Initial > SSTL	1368.0	19369.0	0.0	1320.0	0.0	934.0	8627.0	1737.0	5714.0	39069.0	
	Subsequent	12	1100	140	3700	8.0	270	210	8.4	150	5608.4	
	SSTL	32.0	8631.0	2590.0	21680.0	1000.0	86.0	773.0	283.0	14286.0	47231.0	
	Subsequent > SSTL	0.0	0.0	0.0	0.0	0.0	204.0	0.0	0.0	0.0	204.0	
MW-18	Initial	1900.0	7200.0	630.0	8300.0	340.0	370.0	4900.0	70.0	5000.0	28710.0	
	SSTL	40.0	19326.0	3700.0	21680.0	4260.0	348.0	938.0	4989.0	54482.0	109743.0	
	Initial > SSTL	1860.0	0.0	0.0	0.0	0.0	22.0	3962.0	0.0	0.0	5844.0	
	Subsequent	290	1700	310	3300	20.0	250	640	21	400	6931.0	
	SSTL	40.0	19326.0	3700.0	21680.0	4260.0	348.0	938.0	4989.0	54482.0	109743.0	
	Subsequent > SSTL	250.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	250.0	
MW-19	Initial	300.0	1800.0	490.0	12000.0	80.0	600.0	610.0	500.0	5000.0	21650.0	
	SSTL	54.0	11081.0	3700.0	21680.0	16080.0	86.0	1085.0	320.0	26814.0	80860.0	
	Initial > SSTL	246.0	0.0	0.0	0.0	0.0	514.0	0.0	180.0	0.0	1240.0	
	Subsequent	2400	25000	1500	21000	80	1200	2150	84	1800	52994.0	
	SSTL	54.0	11081.0	3700.0	21680.0	16080.0	86.0	1085.0	320.0	26814.0	80860.0	
	Subsequent > SSTL	2346.0	11919.0	0.0	0.0	0.0	1114.0	1035.0	0.0	0.0	16414.0	
MW-20	Initial	412.0	2930.0	728.0	9820.0	98.7	817.0	2850.0	200.0	2000.0	18845.7	
	SSTL	83.0	2930.0	728.0	9820.0	98.7	108.0	1403.0	200.0	2000.0	16360.7	
	Initial > SSTL	329.0	0.0	0.0	0.0	0.0	709.0	1447.0	0.0	0.0	2485.0	
	Subsequent	770	4500	1800	17000	40	1100	1800	42	800	27452.0	
	SSTL	83.0	2930.0	728.0	9820.0	98.7	108.0	1403.0	200.0	2000.0	16360.7	
	Subsequent > SSTL	687.0	1570.0	972.0	8180.0	0.0	992.0	397.0	0.0	0.0	12498.0	
MW-22	Initial	3300.0	17000.0	2900.0	20000.0	1000.0	640.0	6200.0	130.0	20000.0	71170.0	
	SSTL	90.0	17000.0	2900.0	20000.0	1000.0	112.0	1469.0	130.0	20000.0	62701.0	
	Initial > SSTL	3210.0	0.0	0.0	0.0	0.0	528.0	4731.0	0.0	0.0	8469.0	
	Subsequent	3000	9200	260	19000	40	980	2000	42	800	36222.0	
	SSTL	90.0	17000.0	2900.0	20000.0	1000.0	112.0	1469.0	130.0	20000.0	62701.0	
	Subsequent > SSTL	2910.0	0.0	0.0	0.0	0.0	868.0	1431.0	0.0	0.0	5209.0	
MW-23	Initial	4200.0	16000.0	880.0	18000.0	120.0	1100.0	5800.0	500.0	5000.0	52700.0	
	SSTL	72.0	14880.0	3700.0	21680.0	33368.0	100.0	1279.0	359.0	38475.0	113913.0	
	Initial > SSTL	4128.0	1120.0	0.0	0.0	0.0	1000.0	4521.0	141.0	0.0	11010.0	
	Subsequent	370	2800	280	4300	8.0	420	960	8.4	150	9286.4	
	SSTL	72.0	14880.0	3700.0	21680.0	33368.0	100.0	1279.0	359.0	38475.0	113913.0	
	Subsequent > SSTL	298.0	0.0	0.0	0.0	0.0	320.0	0.0	0.0	0.0	618.0	
MW-25	Initial	5000.0	3000.0	1900.0	23000.0	5000.0	5000.0	100000.0	19000.0	100000.0	252900.0	
	SSTL	104.0	3000.0	1900.0	23000.0	5000.0	121.0	1812.0	415.0	80494.0	95846.0	
	Initial > SSTL	4896.0	0.0	0.0	0.0	0.0	4879.0	98388.0	9585.0	39606.0	157254.0	
	Subsequent	1.8	0.4	80	2.2	0.4	110	8	0.42	8	211.2	
	SSTL	104.0	3000.0	1900.0	23000.0	5000.0	121.0	1812.0	415.0	80494.0	95846.0	
	Subsequent > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

Table 3

Facility Name:	Handy Pantry #65 / University Mart & Clouds Chevron	UST	07584 / 07777 / 12352
Address:	2367 Taylor Street Columbia, South Carolina	Crawford Project No.	7.0547

Site Specific Target Level Summary

Well ID:	Item	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphth	TAA	TAME	TBA	Total	Notes
MW-31	Initial	67.0	90.0	520.0	250.0	12.0	210.0	510.0	50.0	500.0	2199.0	
	SSTL	51.0	90.0	520.0	250.0	12.0	210.0	510.0	50.0	500.0	2193.0	
	Initial > SSTL	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	
	Subsequent	18.0	100.0	140.0	240.0	3.0	193.0	220	0.42	8	969.4	
	SSTL	51.0	90.0	520.0	250.0	12.0	210.0	510.0	50.0	500.0	2193.0	
	Subsequent > SSTL	0.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	
MW-33	Initial	520.0	7200.0	1590.0	7200.0	500.0	410.0	3200.0	1000.0	10000.0	31630.0	
	SSTL	53.0	7200.0	1590.0	7200.0	500.0	410.0	1136.0	1000.0	10000.0	28999.0	
	Initial > SSTL	467.0	0.0	0.0	0.0	0.0	0.0	2064.0	0.0	0.0	2531.0	
	Subsequent	21	120	160	760	2.0	78	220	2.1	40	1393.1	
	SSTL	53.0	7200.0	1590.0	7200.0	500.0	410.0	1136.0	1000.0	10000.0	28999.0	
	Subsequent > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MW-35	Initial	4400.0	2000.0	1790.0	3600.0	300.0	680.0	5300.0	51.0	5000.0	22831.0	
	SSTL	56.0	2000.0	1790.0	3600.0	300.0	642.0	1181.0	51.0	5000.0	14330.0	
	Initial > SSTL	4344.0	0.0	0.0	0.0	0.0	38.0	4119.0	0.0	0.0	8501.0	
	Subsequent	1155	1800	1900	2800	16	670	1750	8.4	160	9954.4	
	SSTL	56.0	2000.0	1790.0	3600.0	300.0	642.0	1181.0	51.0	5000.0	14330.0	
	Subsequent > SSTL	1044.0	0.0	200.0	0.0	0.0	128.0	519.0	0.0	0.0	1891.0	
MW-37	Initial	240.0	34.0	270.0	240.0	11.0	220.0	650.0	50.0	44.0	1959.0	
	SSTL	90.0	34.0	270.0	240.0	11.0	220.0	650.0	50.0	44.0	1809.0	
	Initial > SSTL	150.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	150.0	
	Subsequent	0.40	0.40	0.40	0.45	0.40	0.40	8.0	0.42	8.0	18.9	
	SSTL	90.0	34.0	270.0	240.0	11.0	220.0	650.0	50.0	44.0	1809.0	
	Subsequent > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MW-39	Initial	13.0	1300.0	460.0	4200.0	250.0	330.0	5000.0	500.0	5000.0	17053.0	
	SSTL	13.0	1300.0	460.0	4200.0	250.0	330.0	1807.0	500.0	5000.0	13860.0	
	Initial > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	3393.0	0.0	0.0	3393.0	NS February 2016 - Results from 1/23/2016
	Subsequent	0.48	220	480	2000	1	370	56	10	100	3237.5	
	SSTL	13.0	1300.0	460.0	4200.0	250.0	330.0	1807.0	500.0	5000.0	13860.0	
	Subsequent > SSTL	0.0	0.0	20.0	0.0	0.0	40.0	0.0	0.0	0.0	60.0	
MW-40	Initial	290.0	2900.0	650.0	7100.0	500.0	530.0	10000.0	1000.0	10000.0	32970.0	
	SSTL	113.0	2900.0	650.0	7100.0	500.0	530.0	1876.0	1000.0	10000.0	24669.0	
	Initial > SSTL	177.0	0.0	0.0	0.0	0.0	0.0	8124.0	0.0	0.0	8301.0	
	Subsequent	0.40	0.40	0.40	0.45	0.40	0.81	8.0	0.42	8.0	19.1	
	SSTL	113.0	2900.0	650.0	7100.0	500.0	530.0	1876.0	1000.0	10000.0	24669.0	
	Subsequent > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MW-41	Initial	260.0	1000.0	1100.0	1000.0	1000.0	420.0	20000.0	2000.0	20000.0	46780.0	
	SSTL	257.0	1000.0	1100.0	1000.0	1000.0	420.0	3234.0	2000.0	20000.0	30011.0	
	Initial > SSTL	3.0	0.0	0.0	0.0	0.0	0.0	16766.0	0.0	0.0	16769.0	
	Subsequent	0.40	0.40	0.40	0.45	0.40	0.40	8.0	0.42	8.0	18.9	
	SSTL	257.0	1000.0	1100.0	1000.0	1000.0	420.0	3234.0	2000.0	20000.0	30011.0	
	Subsequent > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

Table 3

Facility Name: Handy Pantry #65 / University Mart & Clouds Chevron — UST — 07584 / 07777 / 12352

Address: 2367 Taylor Street Columbia, South Carolina — Crawford Project No. — 7.0547

Site Specific Target Level Summary

Well ID:	Item	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphth	TAA	TAME	TBA	Total	Notes
MW-54	Initial	5.0	5.0	5.0	5.0	5.0	5.0	100.0	10.0	100.0	240.0	NS February 2018 - Results from 10/20/2016
	SSTL	5.0	5.0	5.0	5.0	5.0	5.0	110.0	2.0	14.0	156.0	
	Initial > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	86.0	94.0	
	Subsequent	1	1	1	1	2	5	130	10	109	251.0	
	SSTL	5.0	5.0	5.0	5.0	5.0	5.0	110.0	2.0	14.0	156.0	
	Subsequent > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	20.0	8.0	86.0	114.0	
MW-58	Initial	4.8	25.0	20.0	25.0	93.0	11.0	1800.0	16.0	100.0	2093.8	NS February 2018 - Results from 11/4/2016
	SSTL	4.8	25.0	20.0	25.0	51.0	11.0	279.0	16.0	100.0	530.8	
	Initial > SSTL	0.0	0.0	0.0	0.0	42.0	0.0	1521.0	0.0	0.0	0.0	
	Subsequent	1	1	1	1	1	5	100	10	109	220.0	
	SSTL	1.0	1.0	1.0	1.0	1.0	5.0	100.0	10.0	100.0	220.0	
	Subsequent > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MW-65	Initial	420.0	398.0	254.0	262.0	16.4	168.0	648.0	50.0	500.0	2886.4	Unable to Locate - Paved Over
	SSTL	326.0	398.0	254.0	262.0	16.4	168.0	648.0	50.0	500.0	2602.4	
	Initial > SSTL	94.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Subsequent	Unable to Locate - Paved Over										
	SSTL	326.0	398.0	254.0	262.0	16.4	168.0	648.0	50.0	500.0	2602.4	
	Subsequent > SSTL	Unable to Locate - Paved Over										
MW-6AR	Initial	9200.0	1000.0	1400.0	4400.0	160.0	810.0	1300.0	1000.0	10000.0	29270.0	
	SSTL	83.0	1000.0	1400.0	4400.0	160.0	108.0	1300.0	381.0	10000.0	18832.0	
	Initial > SSTL	9117.0	0.0	0.0	0.0	0.0	702.0	0.0	619.0	0.0	10438.0	
	Subsequent	1600	180	230	1200	5.5	250	930	18	80	4493.5	
	SSTL	83.0	1000.0	1400.0	4400.0	160.0	108.0	1300.0	381.0	10000.0	18832.0	
	Subsequent > SSTL	1517.0	0.0	0.0	0.0	0.0	142.0	0.0	0.0	0.0	1659.0	
PW-1R	Initial	460.0	3400.0	320.0	9200.0	50.0	250.0	710.0	500.0	5000.0	19890.0	
	SSTL	58.0	11928.0	3700.0	21680.0	290.0	19298.0	1114.0	330.0	29344.0	87742.0	
	Initial > SSTL	402.0	0.0	0.0	0.0	0.0	0.0	0.0	170.0	0.0	572.0	
	Subsequent	230	3400	400	7300	20	430	460	21	400	12261.0	
	SSTL	58.0	11928.0	3700.0	21680.0	290.0	19298.0	1114.0	330.0	29344.0	87742.0	
	Subsequent > SSTL	172.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	172.0	
DW-3	Initial	2600.0	19000.0	2200.0	10000.0	1000.0	620.0	3600.0	2000.0	20000.0	61020.0	
	SSTL	45.9	8470.0	2200.0	10000.0	1000.0	620.0	3600.0	2000.0	20000.0	47935.0	
	Initial > SSTL	2555.0	10530.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13085.0	
	Subsequent	9600	23000	2100	9100	170.0	640	9700	110	7600	51920.0	
	SSTL	45.9	8470.0	2200.0	10000.0	1000.0	620.0	3600.0	2000.0	20000.0	47935.0	
	Subsequent > SSTL	9555.0	14530.0	0.0	0.0	0.0	0.0	2109.0	0.0	0.0	26185.0	
SW-1	Initial	130.0	2.8	23.0	38.0	17.0	8.5	340.0	2.8	23.0	580.9	
	SSTL	5.0	2.8	23.0	38.0	17.0	8.5	240.0	2.8	23.0	365.9	
	Initial > SSTL	125.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	225.0	
	Subsequent	180	14.0	78	110	15	33	410	2.1	18	861.1	
	SSTL	5.0	2.8	23.0	38.0	17.0	8.5	240.0	2.8	23.0	365.9	
	Subsequent > SSTL	175.0	11.2	55.0	74.0	0.0	26.5	170.0	0.0	0.0	511.7	

SSTL = Site Specific Target Level
RBSL= Risk Based Screening Levels
MtBE= Methyl Tert-Butyl Ether
n/a = not applicable
0.0 - Excluded from Calculations

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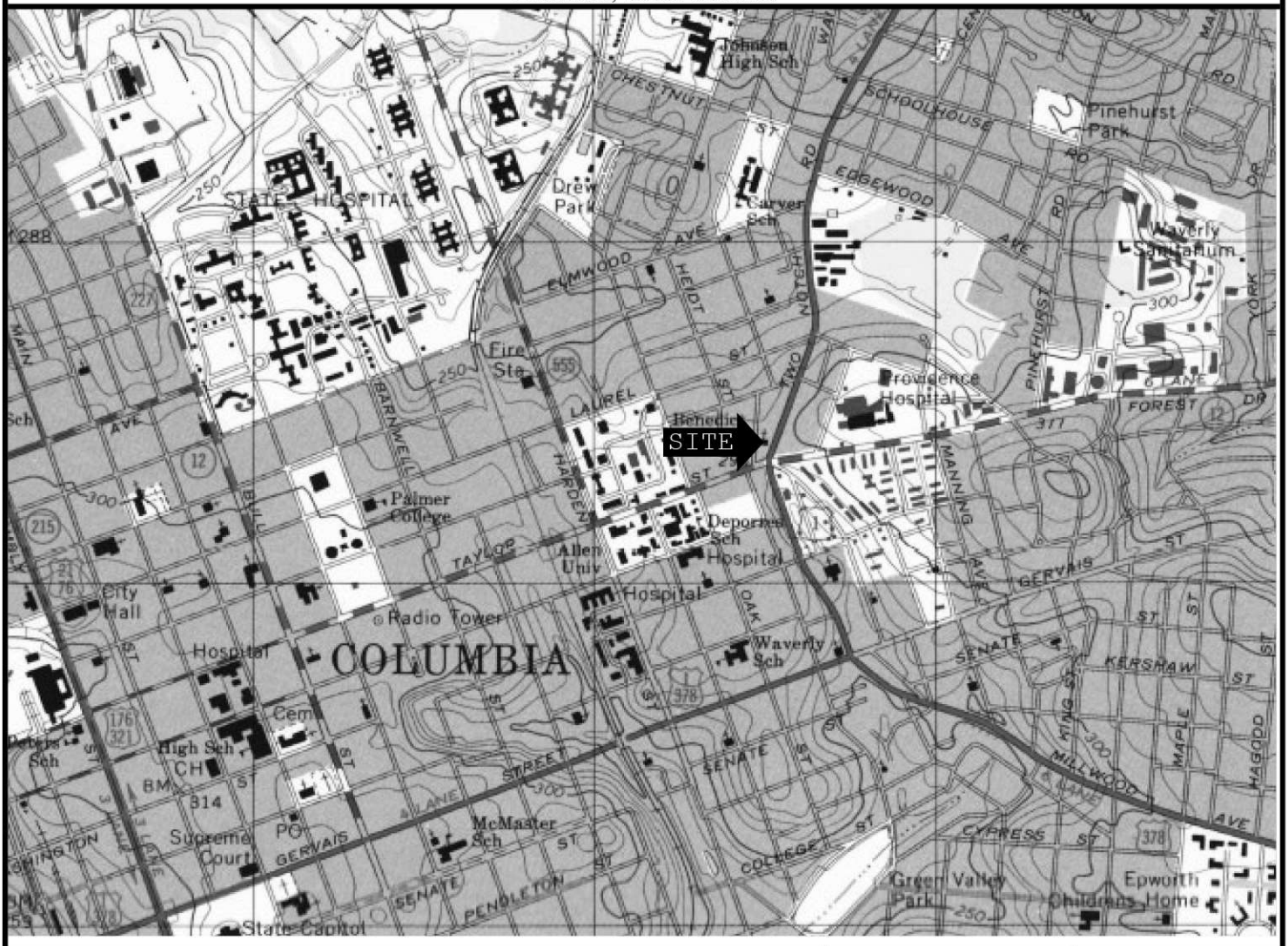
Initial>SSTL	421888.00
Subsequent>SSTL	100191.20
COC Reduction	76.26%

Figures

Figure 1: Topographic Map
Figure 2: Site Facility Base Map
Figure 3: Chemicals of Concern Map
Figure 4: Groundwater Elevation Map

FIGURE 1

Site Location Map
Handy Pantry #65 / University Mart / Clouds Chevron
Intersection of Taylor Street and Two Notch Road
Columbia, South Carolina



CRAWFORD ENVIRONMENTAL SERVICES

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NORTH COLUMBIA, SOUTH CAROLINA

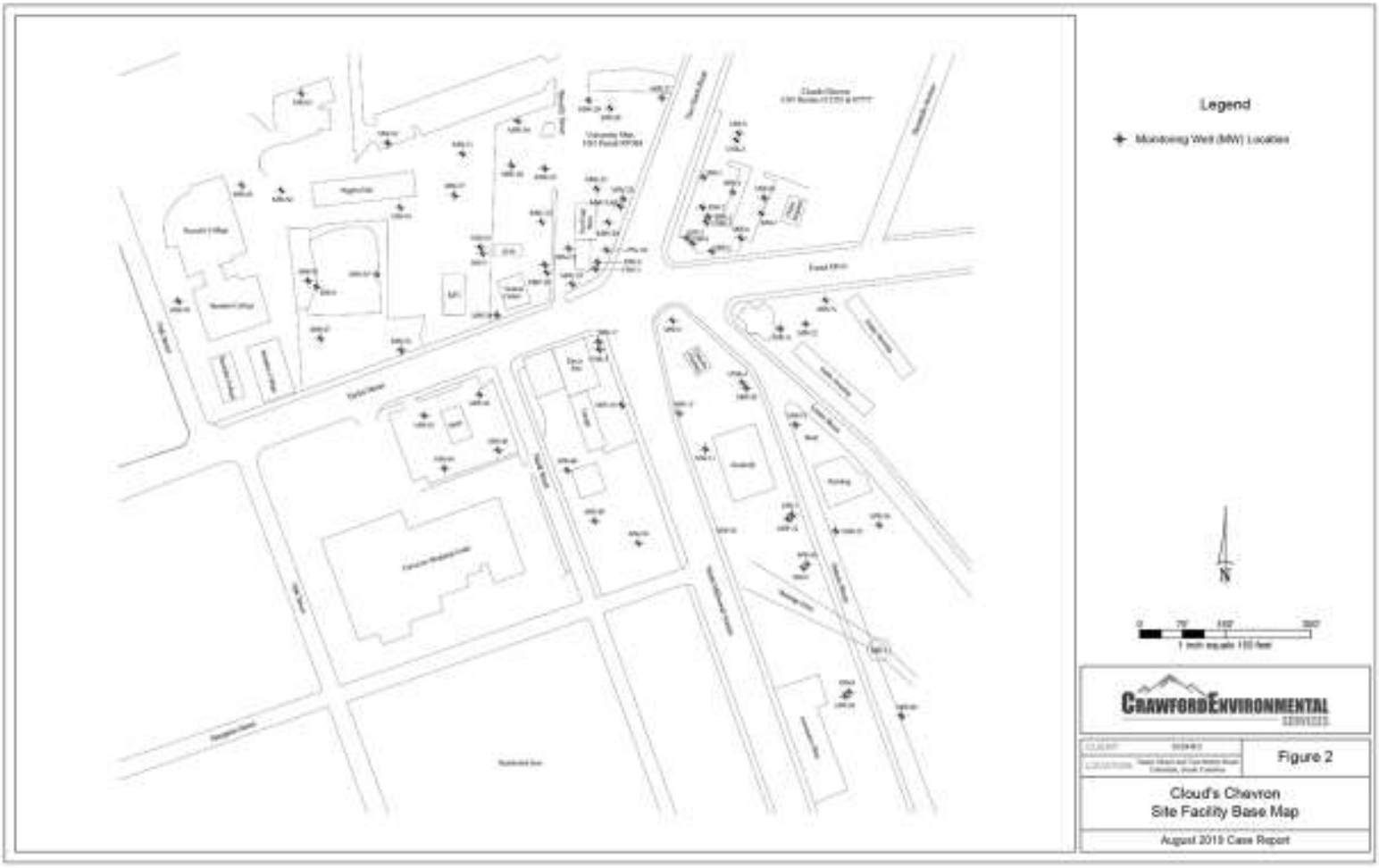
Source: U.S.G.S. Topographic Map of the Columbia North Quadrangle, Virginia, 7.5 Minute Series (1977, revised 1988)
Scale: 1:24,000 Contour Interval: 20 Feet
Vertical Datum: National Geodetic Vertical Datum 1929
Horizontal Datum: North American Datum1927

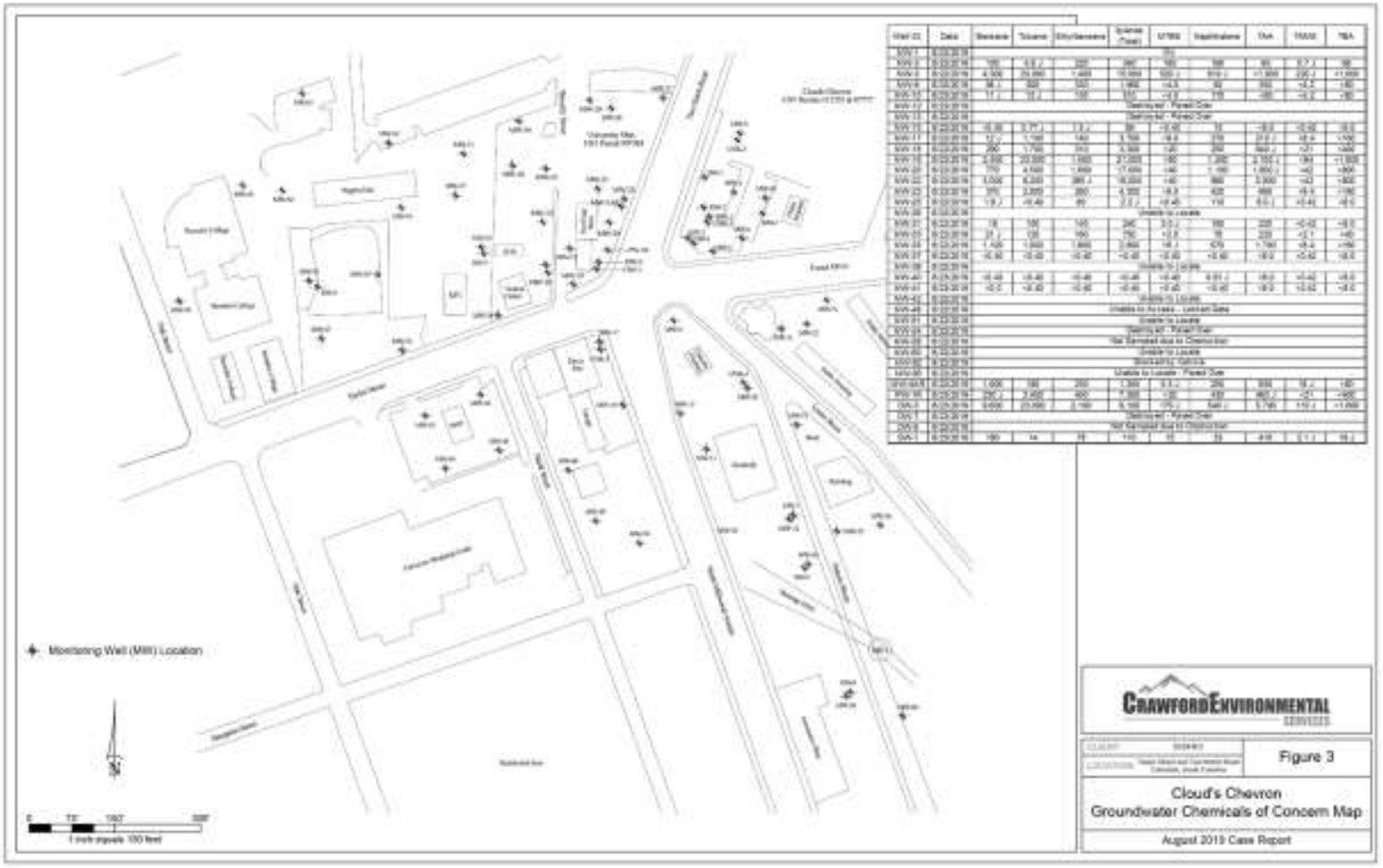
Project: August 2019 CASE Report

Client: SCDHEC

CES Job #: 7.0547

Latitude: 034°00'42.72"N
Longitude: 081°01'00.13"W


Legend
Monitoring Well (MW) Locations
N
0
75'
150'
300'
1 inch equals 150 feet
CRAWFORD ENVIRONMENTAL SERVICES
Figure 2
Cloud's Chevron
Site Facility Base Map
August 2019 Case Report



Well ID	Date	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphthalene	TVH	TEPH	TBA
MW-1	8-23-2019					ND				
MW-2	8-23-2019	190	6.8 J	240	340	180	590	90	0.7 J	98
MW-3	8-23-2019	4,500	79,000	1,400	10,000	500 J	910 J	11,000	230 J	11,000
MW-4	8-23-2019	98 J	300	520	1,900	<4.0	42	550	<4.0	140
MW-12	8-23-2019	11 J	0.6 J	100	150	<4.0	110	<50	<4.0	<80
MW-13	8-23-2019	Destroyed - Paved Over								
MW-14	8-23-2019	Destroyed - Paved Over								
MW-15	8-23-2019	<2.00	0.77 J	3.3 J	36	<2.00	33	<2.0	<2.00	<2.0
MW-17	8-23-2019	77 J	1,700	140	3,700	<8.0	270	2,000 J	<8.0	1,700
MW-18	8-23-2019	260	1,700	310	3,300	120	370	560 J	<21	1,400
MW-19	8-23-2019	4,500	23,000	1,400	21,000	90	1,200	4,100 J	180	11,000
MW-20	8-23-2019	770	4,500	1,600	17,000	140	1,100	1,900 J	140	4,800
MW-22	8-23-2019	5,000	6,000	380 J	8,000	140	880	2,900	<23	1,800
MW-23	8-23-2019	370	2,800	200	4,300	<8.0	420	980	<8.0	1,100
MW-24	8-23-2019	1.9 J	<0.40	60	2.2 J	<0.40	110	8.0 J	<0.40	<8.0
MW-26	8-23-2019	Unable to Locate								
MW-31	8-23-2019	18	190	140	240	3.3 J	160	220	<2.00	<8.0
MW-33	8-23-2019	21 J	120	160	750	<2.0	18	330	<2.1	<40
MW-34	8-23-2019	1,400	1,600	1,800	3,800	<8.0	470	1,700	<8.4	1,700
MW-37	8-23-2019	<0.80	<0.80	<0.80	<0.80	<0.80	<0.80	<8.0	<0.80	<8.0
MW-38	8-23-2019	Unable to Locate								
MW-40	8-23-2019	<0.40	<0.40	<0.40	<0.40	<0.40	0.51 J	<8.0	<0.40	<8.0
MW-41	8-23-2019	<2.0	<0.40	<0.40	<0.40	<0.40	<0.40	<8.0	<0.40	<8.0
MW-42	8-23-2019	Unable to Locate								
MW-44	8-23-2019	Unable to Access - Locked Gate								
MW-51	8-23-2019	Unable to Locate								
MW-54	8-23-2019	Destroyed - Paved Over								
MW-55	8-23-2019	Not Sampled due to Obstruction								
MW-56	8-23-2019	Unable to Locate								
MW-58	8-23-2019	Abandoned by Vehicle								
MW-59	8-23-2019	Unable to Locate - Paved Over								
DW-MW	8-23-2019	1,000	180	200	1,300	3.3 J	260	930	18 J	180
RW-1R	8-23-2019	290 J	2,400	400	1,300	130	430	960 J	<21	<400
OW-1	8-23-2019	5,600	23,000	2,100	9,100	170	540 J	5,700	110 J	11,000
OW-2	8-23-2019	Destroyed - Paved Over								
OW-3	8-23-2019	Not Sampled due to Obstruction								
OW-4	8-23-2019	180	14	18	110	10	70	410	2.1 J	16 J

CRAWFORD ENVIRONMENTAL SERVICES

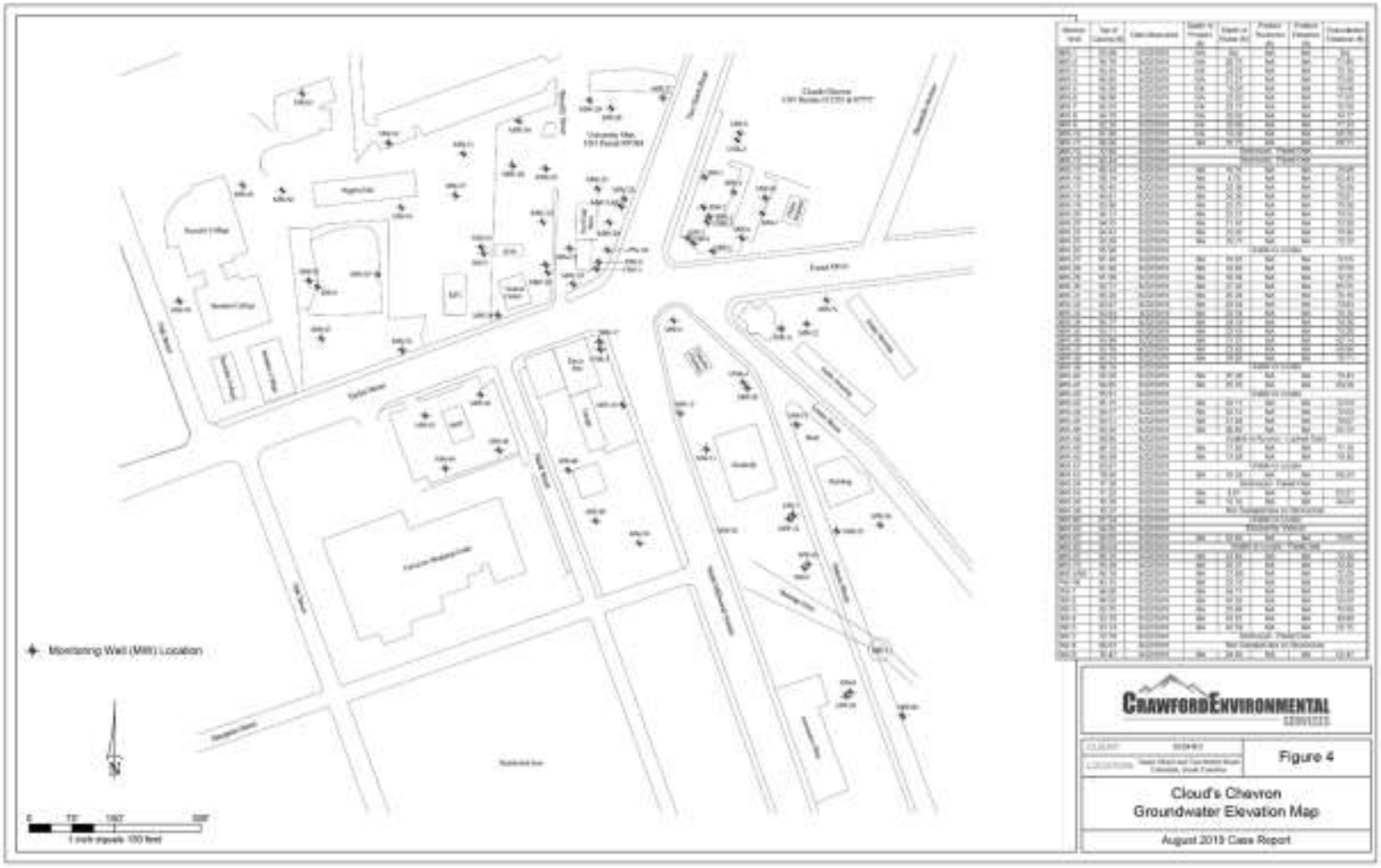
CLIENT: Chevron

LOCATION: 1640 Hillcrest Road Mobile Road Calhoun, South Carolina

Figure 3

Cloud's Chevron
Groundwater Chemicals of Concern Map

August 2019 Case Report



Monitor Well	Top of Casing (ft)	Date Measured	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Product Elevation (ft)	Groundwater Elevation (ft)
MW-1	99.58	8/27/2019	n/a	83.71	n/a	n/a	83.71
MW-2	99.58	8/27/2019	n/a	83.73	n/a	n/a	83.73
MW-3	99.62	8/27/2019	n/a	83.77	n/a	n/a	83.77
MW-4	99.62	8/27/2019	n/a	83.77	n/a	n/a	83.77
MW-5	99.58	8/27/2019	n/a	83.68	n/a	n/a	83.68
MW-6	99.58	8/27/2019	n/a	83.67	n/a	n/a	83.67
MW-7	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-8	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-9	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-10	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-11	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-12	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-13	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-14	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-15	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-16	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-17	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-18	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-19	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-20	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-21	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-22	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-23	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-24	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-25	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-26	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-27	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-28	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-29	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-30	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-31	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-32	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-33	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-34	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-35	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-36	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-37	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-38	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-39	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-40	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-41	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-42	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-43	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-44	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-45	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-46	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-47	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-48	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-49	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-50	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-51	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-52	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-53	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-54	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-55	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-56	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-57	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-58	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-59	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-60	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-61	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-62	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-63	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-64	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-65	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-66	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-67	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-68	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-69	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-70	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-71	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-72	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-73	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-74	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-75	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-76	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-77	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-78	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-79	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-80	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-81	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-82	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-83	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-84	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-85	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-86	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-87	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-88	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-89	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-90	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-91	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-92	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-93	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-94	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-95	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-96	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-97	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-98	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-99	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69
MW-100	99.58	8/27/2019	n/a	83.69	n/a	n/a	83.69

CRAWFORD ENVIRONMENTAL SERVICES

CLIENT:	Figure 4
LOCATION:	

Cloud's Chevron
Groundwater Elevation Map

August 2019 Case Report

Appendix A

Groundwater Laboratory Analytical Report

&

Chain-of-Custody Documentation

SHEALY ENVIRONMENTAL SERVICES, INC.

Report of Analysis

Crawford Environmental Services LLC
301 McCullough Drive
Suite 400
Charlotte, NC 28262
Attention: Daniel Fisher

Project Name: Clouds Chevron

Lot Number:**UH24015**

Date Completed:08/28/2019

08/30/2019 2:53 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 Shealy Environmental Services, Inc.

Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Case Narrative
Crawford Environmental Services LLC
Lot Number: UH24015

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.

VOCs by GC/MS

The following sample submitted for volatiles analysis was received with insufficient preservation (pH >2): UH24015-020. The pH of the sample was found to be approximately 7.The sample was analyzed within 7 days of collection.

Sample Summary
Crawford Environmental Services LLC
Lot Number: UH24015

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	MW-25	Aqueous	08/22/2019 0905	08/23/2019
002	MW-5AR	Aqueous	08/22/2019 0915	08/23/2019
003	MW-22	Aqueous	08/22/2019 0925	08/23/2019
004	MW-20	Aqueous	08/22/2019 0940	08/23/2019
005	MW-19	Aqueous	08/22/2019 0955	08/23/2019
006	MW-23	Aqueous	08/22/2019 1005	08/23/2019
007	Dup-1	Aqueous	08/22/2019 1015	08/23/2019
008	MW-18	Aqueous	08/22/2019 1040	08/23/2019
009	MW-33	Aqueous	08/22/2019 1055	08/23/2019
010	MW-35	Aqueous	08/22/2019 1110	08/23/2019
011	MW-37	Aqueous	08/22/2019 1120	08/23/2019
012	MW-31	Aqueous	08/22/2019 1130	08/23/2019
013	Dup-2	Aqueous	08/22/2019 1135	08/23/2019
014	MW-41	Aqueous	08/22/2019 1145	08/23/2019
015	MW-17	Aqueous	08/22/2019 1315	08/23/2019
016	MW-15	Aqueous	08/22/2019 1335	08/23/2019
017	MW-9	Aqueous	08/22/2019 1325	08/23/2019
018	MW-3	Aqueous	08/22/2019 1355	08/23/2019
019	MW-2	Aqueous	08/22/2019 1425	08/23/2019
020	FB-1	Aqueous	08/22/2019 0913	08/23/2019
021	TB	Aqueous	08/22/2019	08/23/2019

(21 samples)

Detection Summary
Crawford Environmental Services LLC
Lot Number: UH24015

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	MW-25	Aqueous	tert-Amyl alcohol (TAA)	8260B	8.0	J	ug/L	7
001	MW-25	Aqueous	Benzene	8260B	1.8	J	ug/L	7
001	MW-25	Aqueous	Ethylbenzene	8260B	80		ug/L	7
001	MW-25	Aqueous	Naphthalene	8260B	110		ug/L	7
001	MW-25	Aqueous	Xylenes (total)	8260B	2.2	J	ug/L	7
002	MW-5AR	Aqueous	tert-Amyl alcohol (TAA)	8260B	930		ug/L	8
002	MW-5AR	Aqueous	tert-Amyl methyl ether	8260B	18	J	ug/L	8
002	MW-5AR	Aqueous	Benzene	8260B	1600		ug/L	8
002	MW-5AR	Aqueous	Ethylbenzene	8260B	230		ug/L	8
002	MW-5AR	Aqueous	Methyl tertiary butyl ether	8260B	5.5	J	ug/L	8
002	MW-5AR	Aqueous	Naphthalene	8260B	250		ug/L	8
002	MW-5AR	Aqueous	Toluene	8260B	180		ug/L	8
002	MW-5AR	Aqueous	Xylenes (total)	8260B	1200		ug/L	8
003	MW-22	Aqueous	tert-Amyl alcohol (TAA)	8260B	2900		ug/L	9
003	MW-22	Aqueous	Benzene	8260B	3000		ug/L	9
003	MW-22	Aqueous	Ethylbenzene	8260B	260	J	ug/L	9
003	MW-22	Aqueous	Naphthalene	8260B	980		ug/L	9
003	MW-22	Aqueous	Toluene	8260B	9200		ug/L	9
003	MW-22	Aqueous	Xylenes (total)	8260B	19000		ug/L	9
004	MW-20	Aqueous	tert-Amyl alcohol (TAA)	8260B	1600	J	ug/L	10
004	MW-20	Aqueous	Benzene	8260B	770		ug/L	10
004	MW-20	Aqueous	Ethylbenzene	8260B	1600		ug/L	10
004	MW-20	Aqueous	Naphthalene	8260B	1100		ug/L	10
004	MW-20	Aqueous	Toluene	8260B	4500		ug/L	10
004	MW-20	Aqueous	Xylenes (total)	8260B	17000		ug/L	10
005	MW-19	Aqueous	tert-Amyl alcohol (TAA)	8260B	2100	J	ug/L	11
005	MW-19	Aqueous	Benzene	8260B	2400		ug/L	11
005	MW-19	Aqueous	Ethylbenzene	8260B	1500		ug/L	11
005	MW-19	Aqueous	Naphthalene	8260B	1200		ug/L	11
005	MW-19	Aqueous	Toluene	8260B	23000		ug/L	11
005	MW-19	Aqueous	Xylenes (total)	8260B	21000		ug/L	11
006	MW-23	Aqueous	tert-Amyl alcohol (TAA)	8260B	960		ug/L	12
006	MW-23	Aqueous	Benzene	8260B	370		ug/L	12
006	MW-23	Aqueous	Ethylbenzene	8260B	260		ug/L	12
006	MW-23	Aqueous	Naphthalene	8260B	420		ug/L	12
006	MW-23	Aqueous	Toluene	8260B	2800		ug/L	12
006	MW-23	Aqueous	Xylenes (total)	8260B	4300		ug/L	12
007	Dup-1	Aqueous	tert-Amyl alcohol (TAA)	8260B	980		ug/L	13
007	Dup-1	Aqueous	Benzene	8260B	400		ug/L	13
007	Dup-1	Aqueous	Ethylbenzene	8260B	260		ug/L	13
007	Dup-1	Aqueous	Naphthalene	8260B	450		ug/L	13
007	Dup-1	Aqueous	Toluene	8260B	2900		ug/L	13
007	Dup-1	Aqueous	Xylenes (total)	8260B	4300		ug/L	13
008	MW-18	Aqueous	tert-Amyl alcohol (TAA)	8260B	640	J	ug/L	14
008	MW-18	Aqueous	Benzene	8260B	290		ug/L	14

Detection Summary (Continued)

Lot Number: UH24015

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
008	MW-18	Aqueous	Ethylbenzene	8260B	310		ug/L	14
008	MW-18	Aqueous	Naphthalene	8260B	250		ug/L	14
008	MW-18	Aqueous	Toluene	8260B	1700		ug/L	14
008	MW-18	Aqueous	Xylenes (total)	8260B	3300		ug/L	14
009	MW-33	Aqueous	tert-Amyl alcohol (TAA)	8260B	220		ug/L	15
009	MW-33	Aqueous	Benzene	8260B	21	J	ug/L	15
009	MW-33	Aqueous	Ethylbenzene	8260B	160		ug/L	15
009	MW-33	Aqueous	Naphthalene	8260B	78		ug/L	15
009	MW-33	Aqueous	Toluene	8260B	120		ug/L	15
009	MW-33	Aqueous	Xylenes (total)	8260B	750		ug/L	15
010	MW-35	Aqueous	tert-Amyl alcohol (TAA)	8260B	1700		ug/L	16
010	MW-35	Aqueous	Benzene	8260B	1100		ug/L	16
010	MW-35	Aqueous	Ethylbenzene	8260B	1900		ug/L	16
010	MW-35	Aqueous	Methyl tertiary butyl ether	8260B	16	J	ug/L	16
010	MW-35	Aqueous	Naphthalene	8260B	670		ug/L	16
010	MW-35	Aqueous	Toluene	8260B	1600		ug/L	16
010	MW-35	Aqueous	Xylenes (total)	8260B	2800		ug/L	16
012	MW-31	Aqueous	tert-Amyl alcohol (TAA)	8260B	220		ug/L	18
012	MW-31	Aqueous	Benzene	8260B	18		ug/L	18
012	MW-31	Aqueous	Ethylbenzene	8260B	140		ug/L	18
012	MW-31	Aqueous	Methyl tertiary butyl ether	8260B	3.0	J	ug/L	18
012	MW-31	Aqueous	Naphthalene	8260B	180		ug/L	18
012	MW-31	Aqueous	Toluene	8260B	100		ug/L	18
012	MW-31	Aqueous	Xylenes (total)	8260B	240		ug/L	18
013	Dup-2	Aqueous	tert-Amyl alcohol (TAA)	8260B	220		ug/L	19
013	Dup-2	Aqueous	Benzene	8260B	19		ug/L	19
013	Dup-2	Aqueous	Ethylbenzene	8260B	150		ug/L	19
013	Dup-2	Aqueous	Methyl tertiary butyl ether	8260B	3.1	J	ug/L	19
013	Dup-2	Aqueous	Naphthalene	8260B	180		ug/L	19
013	Dup-2	Aqueous	Toluene	8260B	100		ug/L	19
013	Dup-2	Aqueous	Xylenes (total)	8260B	240		ug/L	19
015	MW-17	Aqueous	tert-Amyl alcohol (TAA)	8260B	210	J	ug/L	21
015	MW-17	Aqueous	Benzene	8260B	12	J	ug/L	21
015	MW-17	Aqueous	Ethylbenzene	8260B	140		ug/L	21
015	MW-17	Aqueous	Naphthalene	8260B	270		ug/L	21
015	MW-17	Aqueous	Toluene	8260B	1100		ug/L	21
015	MW-17	Aqueous	Xylenes (total)	8260B	3700		ug/L	21
016	MW-15	Aqueous	Ethylbenzene	8260B	1.5	J	ug/L	22
016	MW-15	Aqueous	Naphthalene	8260B	15		ug/L	22
016	MW-15	Aqueous	Toluene	8260B	0.77	J	ug/L	22
016	MW-15	Aqueous	Xylenes (total)	8260B	69		ug/L	22
017	MW-9	Aqueous	tert-Amyl alcohol (TAA)	8260B	300		ug/L	23
017	MW-9	Aqueous	Benzene	8260B	38	J	ug/L	23
017	MW-9	Aqueous	Ethylbenzene	8260B	330		ug/L	23
017	MW-9	Aqueous	Naphthalene	8260B	92		ug/L	23
017	MW-9	Aqueous	Toluene	8260B	920		ug/L	23
017	MW-9	Aqueous	Xylenes (total)	8260B	1900		ug/L	23
018	MW-3	Aqueous	tert-Amyl methyl ether	8260B	220	J	ug/L	24

Detection Summary (Continued)

Lot Number: UH24015

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
018	MW-3	Aqueous	Benzene	8260B	4300		ug/L	24
018	MW-3	Aqueous	Ethylbenzene	8260B	1400		ug/L	24
018	MW-3	Aqueous	Methyl tertiary butyl ether	8260B	520	J	ug/L	24
018	MW-3	Aqueous	Naphthalene	8260B	610	J	ug/L	24
018	MW-3	Aqueous	Toluene	8260B	20000		ug/L	24
018	MW-3	Aqueous	Xylenes (total)	8260B	15000		ug/L	24
019	MW-2	Aqueous	tert-Amyl alcohol (TAA)	8260B	95		ug/L	25
019	MW-2	Aqueous	tert-Amyl methyl ether	8260B	5.7	J	ug/L	25
019	MW-2	Aqueous	Benzene	8260B	100		ug/L	25
019	MW-2	Aqueous	Ethylbenzene	8260B	220		ug/L	25
019	MW-2	Aqueous	Methyl tertiary butyl ether	8260B	180		ug/L	25
019	MW-2	Aqueous	Naphthalene	8260B	160		ug/L	25
019	MW-2	Aqueous	tert-butyl alcohol (TBA)	8260B	68		ug/L	25
019	MW-2	Aqueous	Toluene	8260B	4.8	J	ug/L	25
019	MW-2	Aqueous	Xylenes (total)	8260B	340		ug/L	25

(108 detections)

Client: **Crawford Environmental Services LLC** | Laboratory ID: **UH24015-001**

Description: **MW-25** | Matrix: **Aqueous**

Date Sampled: **08/22/2019 0905**

Date Received: **08/23/2019**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260B	1	08/28/2019 0204	ALR1		27223

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	**75-85-4**	**8260B**	**8.0**	**J**	**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**	**1.8**	**J**	**5.0**	**0.40**	**ug/L**	**2**
Ethylbenzene	**100-41-4**	**8260B**	**80**		**5.0**	**0.40**	**ug/L**	**2**
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	2
Naphthalene	**91-20-3**	**8260B**	**110**		**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	ND		5.0	0.40	ug/L	2
Xylenes (total)	**1330-20-7**	**8260B**	**2.2**	**J**	**5.0**	**0.45**	**ug/L**	**2**

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		110	70-130
Bromofluorobenzene		114	70-130
Toluene-d8		112	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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Client: **Crawford Environmental Services LLC** | Laboratory ID: **UH24015-002**

Description: **MW-5AR** | Matrix: **Aqueous**

Date Sampled: **08/22/2019 0915**

Date Received: **08/23/2019**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	10	08/26/2019 1345	JJG		27046

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	**75-85-4**	**8260B**	**930**		**200**	**80**	**ug/L**	**1**
tert-Amyl methyl ether (TAME)	**994-05-8**	**8260B**	**18**	**J**	**100**	**4.2**	**ug/L**	**1**
Benzene	**71-43-2**	**8260B**	**1600**		**50**	**4.0**	**ug/L**	**1**
Ethylbenzene	**100-41-4**	**8260B**	**230**		**50**	**4.0**	**ug/L**	**1**
Methyl tertiary butyl ether (MTBE)	**1634-04-4**	**8260B**	**5.5**	**J**	**50**	**4.0**	**ug/L**	**1**
Naphthalene	**91-20-3**	**8260B**	**250**		**50**	**4.0**	**ug/L**	**1**
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		200	80	ug/L	1
Toluene	**108-88-3**	**8260B**	**180**		**50**	**4.0**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**1200**		**50**	**4.5**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		89	70-130
Bromofluorobenzene		98	70-130
Toluene-d8		95	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Client: **Crawford Environmental Services LLC** | Laboratory ID: **UH24015-003**

Description: **MW-22** | Matrix: **Aqueous**

Date Sampled: **08/22/2019 0925**

Date Received: **08/23/2019**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	100	08/26/2019 1409	JJG		27046

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	**75-85-4**	**8260B**	**2900**		**2000**	**800**	**ug/L**	**1**
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		1000	42	ug/L	1
Benzene	**71-43-2**	**8260B**	**3000**		**500**	**40**	**ug/L**	**1**
Ethylbenzene	**100-41-4**	**8260B**	**260**	**J**	**500**	**40**	**ug/L**	**1**
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		500	40	ug/L	1
Naphthalene	**91-20-3**	**8260B**	**980**		**500**	**40**	**ug/L**	**1**
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		2000	800	ug/L	1
Toluene	**108-88-3**	**8260B**	**9200**		**500**	**40**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**19000**		**500**	**45**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		91	70-130
Bromofluorobenzene		98	70-130
Toluene-d8		93	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Client: **Crawford Environmental Services LLC** | Laboratory ID: **UH24015-004**

Description: **MW-20** | Matrix: **Aqueous**

Date Sampled: **08/22/2019 0940**

Date Received: **08/23/2019**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	100	08/28/2019 0410	ALR1		27223

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	**75-85-4**	**8260B**	**1600**	**J**	**2000**	**800**	**ug/L**	**1**
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		1000	42	ug/L	1
Benzene	**71-43-2**	**8260B**	**770**		**500**	**40**	**ug/L**	**1**
Ethylbenzene	**100-41-4**	**8260B**	**1600**		**500**	**40**	**ug/L**	**1**
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		500	40	ug/L	1
Naphthalene	**91-20-3**	**8260B**	**1100**		**500**	**40**	**ug/L**	**1**
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		2000	800	ug/L	1
Toluene	**108-88-3**	**8260B**	**4500**		**500**	**40**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**17000**		**500**	**45**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		105	70-130
Bromofluorobenzene		105	70-130
Toluene-d8		106	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Client: **Crawford Environmental Services LLC** | Laboratory ID: **UH24015-005**

Description: **MW-19** | Matrix: **Aqueous**

Date Sampled: **08/22/2019 0955**

Date Received: **08/23/2019**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	200	08/26/2019 1434	JJG		27046

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	**75-85-4**	**8260B**	**2100**	**J**	**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**	**2400**		**1000**	**80**	**ug/L**	**1**
Ethylbenzene	**100-41-4**	**8260B**	**1500**		**1000**	**80**	**ug/L**	**1**
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1000	80	ug/L	1
Naphthalene	**91-20-3**	**8260B**	**1200**		**1000**	**80**	**ug/L**	**1**
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		4000	1600	ug/L	1
Toluene	**108-88-3**	**8260B**	**23000**		**1000**	**80**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**21000**		**1000**	**90**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		93	70-130
Bromofluorobenzene		96	70-130
Toluene-d8		95	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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Client: **Crawford Environmental Services LLC** | Laboratory ID: **UH24015-006**

Description: **MW-23** | Matrix: **Aqueous**

Date Sampled: **08/22/2019 1005**

Date Received: **08/23/2019**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	20	08/26/2019 1500	JJG		27046

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	**75-85-4**	**8260B**	**960**		**400**	**160**	**ug/L**	**1**
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		200	8.4	ug/L	1
Benzene	**71-43-2**	**8260B**	**370**		**100**	**8.0**	**ug/L**	**1**
Ethylbenzene	**100-41-4**	**8260B**	**260**		**100**	**8.0**	**ug/L**	**1**
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		100	8.0	ug/L	1
Naphthalene	**91-20-3**	**8260B**	**420**		**100**	**8.0**	**ug/L**	**1**
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		400	160	ug/L	1
Toluene	**108-88-3**	**8260B**	**2800**		**100**	**8.0**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**4300**		**100**	**9.0**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		92	70-130
Bromofluorobenzene		98	70-130
Toluene-d8		94	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Client: **Crawford Environmental Services LLC** | Laboratory ID: **UH24015-007**

Description: **Dup-1** | Matrix: **Aqueous**

Date Sampled: **08/22/2019 1015**

Date Received: **08/23/2019**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	20	08/26/2019 1525	JJG		27046

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	**75-85-4**	**8260B**	**980**		**400**	**160**	**ug/L**	**1**
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		200	8.4	ug/L	1
Benzene	**71-43-2**	**8260B**	**400**		**100**	**8.0**	**ug/L**	**1**
Ethylbenzene	**100-41-4**	**8260B**	**260**		**100**	**8.0**	**ug/L**	**1**
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		100	8.0	ug/L	1
Naphthalene	**91-20-3**	**8260B**	**450**		**100**	**8.0**	**ug/L**	**1**
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		400	160	ug/L	1
Toluene	**108-88-3**	**8260B**	**2900**		**100**	**8.0**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**4300**		**100**	**9.0**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		91	70-130
Bromofluorobenzene		97	70-130
Toluene-d8		93	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Client: **Crawford Environmental Services LLC** | Laboratory ID: **UH24015-008**

Description: **MW-18** | Matrix: **Aqueous**

Date Sampled: **08/22/2019 1040**

Date Received: **08/23/2019**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	50	08/26/2019 1550	JJG		27046

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	**75-85-4**	**8260B**	**640**	**J**	**1000**	**400**	**ug/L**	**1**
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		500	21	ug/L	1
Benzene	**71-43-2**	**8260B**	**290**		**250**	**20**	**ug/L**	**1**
Ethylbenzene	**100-41-4**	**8260B**	**310**		**250**	**20**	**ug/L**	**1**
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		250	20	ug/L	1
Naphthalene	**91-20-3**	**8260B**	**250**		**250**	**20**	**ug/L**	**1**
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		1000	400	ug/L	1
Toluene	**108-88-3**	**8260B**	**1700**		**250**	**20**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**3300**		**250**	**23**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		92	70-130
Bromofluorobenzene		97	70-130
Toluene-d8		94	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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Client: **Crawford Environmental Services LLC** | Laboratory ID: **UH24015-009**

Description: **MW-33** | Matrix: **Aqueous**

Date Sampled: **08/22/2019 1055**

Date Received: **08/23/2019**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	5	08/26/2019 1616	JJG		27046

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	**75-85-4**	**8260B**	**220**		**100**	**40**	**ug/L**	**1**
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		50	2.1	ug/L	1
Benzene	**71-43-2**	**8260B**	**21**	**J**	**25**	**2.0**	**ug/L**	**1**
Ethylbenzene	**100-41-4**	**8260B**	**160**		**25**	**2.0**	**ug/L**	**1**
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		25	2.0	ug/L	1
Naphthalene	**91-20-3**	**8260B**	**78**		**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**	**120**		**25**	**2.0**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**750**		**25**	**2.3**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		90	70-130
Bromofluorobenzene		95	70-130
Toluene-d8		94	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Client: **Crawford Environmental Services LLC** | Laboratory ID: **UH24015-010**

Description: **MW-35** | Matrix: **Aqueous**

Date Sampled: **08/22/2019 1110**

Date Received: **08/23/2019**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	20	08/26/2019 1642	JJG		27046

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	**75-85-4**	**8260B**	**1700**		**400**	**160**	**ug/L**	**1**
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		200	8.4	ug/L	1
Benzene	**71-43-2**	**8260B**	**1100**		**100**	**8.0**	**ug/L**	**1**
Ethylbenzene	**100-41-4**	**8260B**	**1900**		**100**	**8.0**	**ug/L**	**1**
Methyl tertiary butyl ether (MTBE)	**1634-04-4**	**8260B**	**16**	**J**	**100**	**8.0**	**ug/L**	**1**
Naphthalene	**91-20-3**	**8260B**	**670**		**100**	**8.0**	**ug/L**	**1**
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		400	160	ug/L	1
Toluene	**108-88-3**	**8260B**	**1600**		**100**	**8.0**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**2800**		**100**	**9.0**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		89	70-130
Bromofluorobenzene		95	70-130
Toluene-d8		93	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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Client: **Crawford Environmental Services LLC** | Laboratory ID: **UH24015-011**

Description: **MW-37** | Matrix: **Aqueous**

Date Sampled: **08/22/2019 1120**

Date Received: **08/23/2019**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/26/2019 1848	JJG		27046

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
Ethylbenzene	100-41-4	8260B	ND		5.0	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	0.45	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		89	70-130
Bromofluorobenzene		94	70-130
Toluene-d8		93	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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Client: **Crawford Environmental Services LLC** | Laboratory ID: **UH24015-012**

Description: **MW-31** | Matrix: **Aqueous**

Date Sampled: **08/22/2019 1130**

Date Received: **08/23/2019**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260B	1	08/28/2019 0616	ALR1		27223

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	**75-85-4**	**8260B**	**220**		**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**	**18**		**5.0**	**0.40**	**ug/L**	**2**
Ethylbenzene	**100-41-4**	**8260B**	**140**		**5.0**	**0.40**	**ug/L**	**2**
Methyl tertiary butyl ether (MTBE)	**1634-04-4**	**8260B**	**3.0**	**J**	**5.0**	**0.40**	**ug/L**	**2**
Naphthalene	**91-20-3**	**8260B**	**180**		**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**	**100**		**5.0**	**0.40**	**ug/L**	**2**
Xylenes (total)	**1330-20-7**	**8260B**	**240**		**5.0**	**0.45**	**ug/L**	**2**

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		96	70-130
Bromofluorobenzene		99	70-130
Toluene-d8		100	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Client: **Crawford Environmental Services LLC** | Laboratory ID: **UH24015-013**

Description: **Dup-2** | Matrix: **Aqueous**

Date Sampled: **08/22/2019 1135**

Date Received: **08/23/2019**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260B	1	08/28/2019 0641	ALR1		27223

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	**75-85-4**	**8260B**	**220**		**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**	**19**		**5.0**	**0.40**	**ug/L**	**2**
Ethylbenzene	**100-41-4**	**8260B**	**150**		**5.0**	**0.40**	**ug/L**	**2**
Methyl tertiary butyl ether (MTBE)	**1634-04-4**	**8260B**	**3.1**	**J**	**5.0**	**0.40**	**ug/L**	**2**
Naphthalene	**91-20-3**	**8260B**	**180**		**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**	**100**		**5.0**	**0.40**	**ug/L**	**2**
Xylenes (total)	**1330-20-7**	**8260B**	**240**		**5.0**	**0.45**	**ug/L**	**2**

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		94	70-130
Bromofluorobenzene		95	70-130
Toluene-d8		99	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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Client: **Crawford Environmental Services LLC** | Laboratory ID: **UH24015-014**

Description: **MW-41** | Matrix: **Aqueous**

Date Sampled: **08/22/2019 1145**

Date Received: **08/23/2019**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/26/2019 1913	JJG		27046

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
Ethylbenzene	100-41-4	8260B	ND		5.0	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	0.45	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		88	70-130
Bromofluorobenzene		96	70-130
Toluene-d8		94	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Client: **Crawford Environmental Services LLC** | Laboratory ID: **UH24015-015**

Description: **MW-17** | Matrix: **Aqueous**

Date Sampled: **08/22/2019 1315**

Date Received: **08/23/2019**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	20	08/26/2019 1758	JJG		27046

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	**75-85-4**	**8260B**	**210**	**J**	**400**	**160**	**ug/L**	**1**
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		200	8.4	ug/L	1
Benzene	**71-43-2**	**8260B**	**12**	**J**	**100**	**8.0**	**ug/L**	**1**
Ethylbenzene	**100-41-4**	**8260B**	**140**		**100**	**8.0**	**ug/L**	**1**
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		100	8.0	ug/L	1
Naphthalene	**91-20-3**	**8260B**	**270**		**100**	**8.0**	**ug/L**	**1**
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		400	160	ug/L	1
Toluene	**108-88-3**	**8260B**	**1100**		**100**	**8.0**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**3700**		**100**	**9.0**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		89	70-130
Bromofluorobenzene		98	70-130
Toluene-d8		93	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Client: **Crawford Environmental Services LLC** | Laboratory ID: **UH24015-016**

Description: **MW-15** | Matrix: **Aqueous**

Date Sampled: **08/22/2019 1335**

Date Received: **08/23/2019**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/26/2019 1823	JJG		27046

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
Ethylbenzene	**100-41-4**	**8260B**	**1.5**	**J**	**5.0**	**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**	**15**		**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**	**0.77**	**J**	**5.0**	**0.40**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**69**		**5.0**	**0.45**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		90	70-130
Bromofluorobenzene		97	70-130
Toluene-d8		93	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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Client: **Crawford Environmental Services LLC** | Laboratory ID: **UH24015-017**

Description: **MW-9** | Matrix: **Aqueous**

Date Sampled: **08/22/2019 1325**

Date Received: **08/23/2019**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	10	08/27/2019 0247	JTH		27100

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	**75-85-4**	**8260B**	**300**		**200**	**80**	**ug/L**	**1**
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		100	4.2	ug/L	1
Benzene	**71-43-2**	**8260B**	**38**	**J**	**50**	**4.0**	**ug/L**	**1**
Ethylbenzene	**100-41-4**	**8260B**	**330**		**50**	**4.0**	**ug/L**	**1**
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		50	4.0	ug/L	1
Naphthalene	**91-20-3**	**8260B**	**92**		**50**	**4.0**	**ug/L**	**1**
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		200	80	ug/L	1
Toluene	**108-88-3**	**8260B**	**920**		**50**	**4.0**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**1900**		**50**	**4.5**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		99	70-130
Bromofluorobenzene		98	70-130
Toluene-d8		98	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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Client: **Crawford Environmental Services LLC** | Laboratory ID: **UH24015-018**

Description: **MW-3** | Matrix: **Aqueous**

Date Sampled: **08/22/2019 1355**

Date Received: **08/23/2019**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	200	08/27/2019 0415	JTH		27100

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**	**220**	**J**	**2000**	**84**	**ug/L**	**1**
Benzene	**71-43-2**	**8260B**	**4300**		**1000**	**80**	**ug/L**	**1**
Ethylbenzene	**100-41-4**	**8260B**	**1400**		**1000**	**80**	**ug/L**	**1**
Methyl tertiary butyl ether (MTBE)	**1634-04-4**	**8260B**	**520**	**J**	**1000**	**80**	**ug/L**	**1**
Naphthalene	**91-20-3**	**8260B**	**610**	**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**	**20000**		**1000**	**80**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**15000**		**1000**	**90**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		95	70-130
Bromofluorobenzene		96	70-130
Toluene-d8		97	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Client: **Crawford Environmental Services LLC** | Laboratory ID: **UH24015-019**

Description: **MW-2** | Matrix: **Aqueous**

Date Sampled: **08/22/2019 1425**

Date Received: **08/23/2019**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/27/2019 0056	JTH		27100
2	5030B	8260B	5	08/28/2019 0435	ALR1		27223

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	**75-85-4**	**8260B**	**95**		**20**	**8.0**	**ug/L**	**1**
tert-Amyl methyl ether (TAME)	**994-05-8**	**8260B**	**5.7**	**J**	**10**	**0.42**	**ug/L**	**1**
Benzene	**71-43-2**	**8260B**	**100**		**5.0**	**0.40**	**ug/L**	**1**
Ethylbenzene	**100-41-4**	**8260B**	**220**		**25**	**2.0**	**ug/L**	**2**
Methyl tertiary butyl ether (MTBE)	**1634-04-4**	**8260B**	**180**		**5.0**	**0.40**	**ug/L**	**1**
Naphthalene	**91-20-3**	**8260B**	**160**		**5.0**	**0.40**	**ug/L**	**1**
tert-butyl alcohol (TBA)	**75-65-0**	**8260B**	**68**		**20**	**8.0**	**ug/L**	**1**
Toluene	**108-88-3**	**8260B**	**4.8**	**J**	**5.0**	**0.40**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**340**		**5.0**	**0.45**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Run 1 Acceptance Limits	Q	Run 2 % Recovery	Run 2 Acceptance Limits
1,2-Dichloroethane-d4		101	70-130		103	70-130
Bromofluorobenzene		99	70-130		101	70-130
Toluene-d8		99	70-130		105	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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Client: **Crawford Environmental Services LLC** | Laboratory ID: **UH24015-020**

Description: **FB-1** | Matrix: **Aqueous**

Date Sampled: **08/22/2019 0913**

Date Received: **08/23/2019**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/26/2019 2242	JTH		27100

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
Ethylbenzene	100-41-4	8260B	ND		5.0	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	0.45	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		98	70-130
Bromofluorobenzene		94	70-130
Toluene-d8		97	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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Client: **Crawford Environmental Services LLC** | Laboratory ID: **UH24015-021**

Description: **TB** | Matrix: **Aqueous**

Date Sampled: **08/22/2019**

Date Received: **08/23/2019**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/26/2019 2304	JTH		27100

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
Ethylbenzene	100-41-4	8260B	ND		5.0	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	0.45	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

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: UQ27046-001
Batch: 27046
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	20	8.0	ug/L	08/26/2019 1050
tert-Amyl methyl ether (TAME)	ND		1	10	0.42	ug/L	08/26/2019 1050
Benzene	ND		1	5.0	0.40	ug/L	08/26/2019 1050
Ethylbenzene	ND		1	5.0	0.40	ug/L	08/26/2019 1050
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	0.40	ug/L	08/26/2019 1050
Naphthalene	ND		1	5.0	0.40	ug/L	08/26/2019 1050
tert-butyl alcohol (TBA)	ND		1	20	8.0	ug/L	08/26/2019 1050
Toluene	ND		1	5.0	0.40	ug/L	08/26/2019 1050
Xylenes (total)	ND		1	5.0	0.45	ug/L	08/26/2019 1050

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		93	70-130
Bromofluorobenzene		95	70-130
Toluene-d8		95	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL

N = Recovery is out of criteria
+ = RPD is out of criteria

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: UQ27046-002
Batch: 27046
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	950		1	95	70-130	08/26/2019 0959
tert-Amyl methyl ether (TAME)	50	49		1	97	70-130	08/26/2019 0959
Benzene	50	50		1	99	70-130	08/26/2019 0959
Ethylbenzene	50	49		1	97	70-130	08/26/2019 0959
Methyl tertiary butyl ether (MTBE)	50	46		1	92	70-130	08/26/2019 0959
Naphthalene	50	47		1	93	70-130	08/26/2019 0959
tert-butyl alcohol (TBA)	1000	940		1	94	70-130	08/26/2019 0959
Toluene	50	48		1	97	70-130	08/26/2019 0959
Xylenes (total)	100	98		1	98	70-130	08/26/2019 0959

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		87	70-130
Bromofluorobenzene		95	70-130
Toluene-d8		92	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL

N = Recovery is out of criteria
+ = RPD is out of criteria

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: UH24015-001MS
Batch: 27046
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

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	9800		10	98	70-130	08/26/2019 1937
tert-Amyl methyl ether (TAME)	ND	500	490		10	99	70-130	08/26/2019 1937
Benzene	ND	500	500		10	101	70-130	08/26/2019 1937
Ethylbenzene	66	500	550		10	97	70-130	08/26/2019 1937
Methyl tertiary butyl ether (MTBE)	ND	500	490		10	99	70-130	08/26/2019 1937
Naphthalene	98	500	580		10	97	70-130	08/26/2019 1937
tert-butyl alcohol (TBA)	ND	10000	10000		10	103	70-130	08/26/2019 1937
Toluene	ND	500	480		10	97	70-130	08/26/2019 1937
Xylenes (total)	ND	1000	990		10	99	70-130	08/26/2019 1937

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		86	70-130
Bromofluorobenzene		94	70-130
Toluene-d8		90	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL

N = Recovery is out of criteria
+ = RPD is out of criteria

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: UH24015-001MD
Batch: 27046
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

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	9400		10	94	4.3	70-130	20	08/26/2019 2002
tert-Amyl methyl ether (TAME)	ND	500	490		10	98	1.1	70-130	20	08/26/2019 2002
Benzene	ND	500	500		10	100	0.93	70-130	20	08/26/2019 2002
Ethylbenzene	66	500	550		10	97	0.45	70-130	20	08/26/2019 2002
Methyl tertiary butyl ether (MTBE)	ND	500	480		10	96	2.9	70-130	20	08/26/2019 2002
Naphthalene	98	500	580		10	96	0.93	70-130	20	08/26/2019 2002
tert-butyl alcohol (TBA)	ND	10000	10000		10	100	2.9	70-130	20	08/26/2019 2002
Toluene	ND	500	480		10	97	0.24	70-130	20	08/26/2019 2002
Xylenes (total)	ND	1000	980		10	98	1.1	70-130	20	08/26/2019 2002

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		85	70-130
Bromofluorobenzene		92	70-130
Toluene-d8		91	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL

N = Recovery is out of criteria
+ = RPD is out of criteria

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: UQ27100-001
Batch: 27100
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	20	8.0	ug/L	08/26/2019 2200
tert-Amyl methyl ether (TAME)	ND		1	10	0.42	ug/L	08/26/2019 2200
Benzene	ND		1	5.0	0.40	ug/L	08/26/2019 2200
Ethylbenzene	ND		1	5.0	0.40	ug/L	08/26/2019 2200
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	0.40	ug/L	08/26/2019 2200
Naphthalene	ND		1	5.0	0.40	ug/L	08/26/2019 2200
tert-butyl alcohol (TBA)	ND		1	20	8.0	ug/L	08/26/2019 2200
Toluene	ND		1	5.0	0.40	ug/L	08/26/2019 2200
Xylenes (total)	ND		1	5.0	0.45	ug/L	08/26/2019 2200

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		98	70-130
Bromofluorobenzene		96	70-130
Toluene-d8		97	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL

N = Recovery is out of criteria
+ = RPD is out of criteria

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: UQ27100-002
Batch: 27100
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	900		1	90	70-130	08/26/2019 2100
tert-Amyl methyl ether (TAME)	50	51		1	102	70-130	08/26/2019 2100
Benzene	50	50		1	101	70-130	08/26/2019 2100
Ethylbenzene	50	51		1	101	70-130	08/26/2019 2100
Methyl tertiary butyl ether (MTBE)	50	52		1	103	70-130	08/26/2019 2100
Naphthalene	50	49		1	98	70-130	08/26/2019 2100
tert-butyl alcohol (TBA)	1000	920		1	92	70-130	08/26/2019 2100
Toluene	50	50		1	101	70-130	08/26/2019 2100
Xylenes (total)	100	100		1	101	70-130	08/26/2019 2100

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		100	70-130
Bromofluorobenzene		95	70-130
Toluene-d8		98	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL

N = Recovery is out of criteria
+ = RPD is out of criteria

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: UQ27223-001
Batch: 27223
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	20	8.0	ug/L	08/27/2019 2150
tert-Amyl methyl ether (TAME)	ND		1	10	0.42	ug/L	08/27/2019 2150
Benzene	ND		1	5.0	0.40	ug/L	08/27/2019 2150
Ethylbenzene	ND		1	5.0	0.40	ug/L	08/27/2019 2150
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	0.40	ug/L	08/27/2019 2150
Naphthalene	ND		1	5.0	0.40	ug/L	08/27/2019 2150
tert-butyl alcohol (TBA)	ND		1	20	8.0	ug/L	08/27/2019 2150
Toluene	ND		1	5.0	0.40	ug/L	08/27/2019 2150
Xylenes (total)	ND		1	5.0	0.45	ug/L	08/27/2019 2150

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		114	70-130
Bromofluorobenzene		115	70-130
Toluene-d8		117	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL

N = Recovery is out of criteria
+ = RPD is out of criteria

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: UQ27223-002
Batch: 27223
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	920		1	92	70-130	08/27/2019 2039
tert-Amyl methyl ether (TAME)	50	47		1	94	70-130	08/27/2019 2039
Benzene	50	47		1	94	70-130	08/27/2019 2039
Ethylbenzene	50	46		1	91	70-130	08/27/2019 2039
Methyl tertiary butyl ether (MTBE)	50	46		1	92	70-130	08/27/2019 2039
Naphthalene	50	45		1	90	70-130	08/27/2019 2039
tert-butyl alcohol (TBA)	1000	930		1	93	70-130	08/27/2019 2039
Toluene	50	46		1	91	70-130	08/27/2019 2039
Xylenes (total)	100	92		1	92	70-130	08/27/2019 2039

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		104	70-130
Bromofluorobenzene		111	70-130
Toluene-d8		109	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL

N = Recovery is out of criteria
+ = RPD is out of criteria

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 **Chain of Custody Record**

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Telephone No. 803-791-9700 Fax No. 803-791-9111
www.shealylab.com

Number 098272

Client: Crawford Environmental	Report to Contact: Dan Fisher	Telephone No. / E-mail: 540-798-5068	Quote No.
Address: 1701 Shenandoah AVE N.W	Sampler's Signature: [signature]	Analysis (Attach list if more space is needed)	Page 1 of 2
City: Roanoke; State: VA; Zip Code: 24017	Printed Name: JEFF Brackett		UH24015
Project Name: Clouds Chevron			LJO
Project No.	P.O. No.		

Sample ID / Description (Containers for each sample may be combined on one line.)	Date	Time	Grab/Comp.	Matrix: Aqueous	Matrix: Sulfur	Matrix: Non-Aqueous	No. of Containers by Preservative Type: Unpres.	H2SO4	HNO3	HCl	NaOH	S2O3	VOC	BTEX/MTBE/NAP TAA/TMC/TBA	8260B	Remarks / Cooler I.D.
MW-25	8-22-19	0905	G	X						X			X	X	X	
MW-5AR		0915		X						X			X	X	X	
MW-22		0925		X						X			X	X	X	
MW-20		0940		X						X			X	X	X	
MW-19		0955		X						X			X	X	X	
MW-23		1005		X						X			X	X	X	~~Dup~~
Dup-1		1015		X						X			X	X	X	
MW-18		1040		X						X			X	X	X	
MW-33		1055		X						X			X	X	X	
MW-35	8-22-19	1110	G	X						X			X	X	X	

Turn Around Time Required (Prior lab approval required for expedited TAT.) ☐ Standard ☐ Rush (Specify)	Sample Disposal ☐ Return to Client ☐ Disposal by Lab	Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown	QC Requirements (Specify)
1. Relinquished by: [signature]	Date: 8-23-19 Time: 1325	1. Received by:	Date: Time:
2. Relinquished by:	Date: Time:	2. Received by:	Date: Time:
3. Relinquished by:	Date: Time:	3. Received by:	Date: Time:
4. Relinquished by:	Date: Time:	4. Laboratory received by: L Hitch	Date: 8-23-19 Time: 1325

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY
Received on ice (Circle) Yes No Ice Pack Receipt Temp. 2.4 °C

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: F-AD-133 Effective Date: 08-01-2014

SHEALY **Chain of Custody Record**

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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 098273

Client: Crawford Environmental
Address: 1701 Shenandoah Ave NW
City: Roanoke | State: VA | Zip Code: 24017
Project Name: Clouds Chevron
Project No.:
P.O. No.:

Report to Contact: Dan Fisher
Sampler's Signature: X [signature]
Printed Name: Jeff Brockett

Telephone No. / E-mail: 540-798-5068
Analysis (Attach list if more space is needed)
Quote No.:
Page 2 of 2

UH24015
LJO

Sample ID / Description (Containers for each sample may be combined on one line.)	Date	Time	G=Grab C=Composite	Matrix: Aqueous	Matrix: Solid	Matrix: Non-Aqueous	No of Containers by Preservative Type: Unpres.	H2SO4	HNO3	HCl	NaOH	5035 Kit	BTEX/MTBE/NAP TAA/TAME/TBA 8260B	Remarks / Cooler I.D.
MW-37	8-22-19	1120	G	X						X			X	
MW-31		1130		X						X			X	
Dup-2		1135		X						X			X	
MW-41		1145		X						X			X	
MW-17		1315		X						X			X	
MW-15		1335		X						X			X	
MW-9		1325		X						X			X	
MW-3		1355		X						X			X	
MW-2	8-22-19	1425	G	X						X			X	
FB-1	8-22-19	0913	G	X						X			X	

Turn Around Time Required (Prior lab approval required for expedited TAT.) ☐ Standard ☐ Rush (Specify)
Sample Disposal ☐ Return to Client ☐ Disposal by Lab
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown
QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished by [signature]	8-23-19	1325	1. Received by		
2. Relinquished by			2. Received by		
3. Relinquished by			3. Received by		
4. Relinquished by			4. Laboratory received by L Hill	8-23-19	1325

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY
Received on Ice (Circle) (Yes) No Ice Pack
Receipt Temp. 2.4 °C

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: F-AD-133 Effective Date: 08-01-2014

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

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

Sample Receipt Checklist (SRC)

Client: Crawford Environmental Cooler Inspected by/date: ETB / 8/24/19 Lot #: UH24015

Means of receipt: ☐ SESI ☑ Client ☐ UPS ☐ FedEx ☐ Other: _____

☐ Yes	☑ No		1. Were custody seals present on the cooler?
☐ Yes	☐ No	☑ NA	2. If custody seals were present, were they intact and unbroken?

pH Strip ID: NA Chlorine Strip ID: NA Tested by: NA

Original temperature upon receipt / Derived (Corrected) temperature upon receipt %Solid Snap-Cup ID: NA

2.4 / 2.4 °C NA / NA °C NA / NA °C NA / NA °C

Method: ☑ Temperature Blank ☐ Against Bottles IR Gun ID: 6 IR Gun Correction Factor: 0 °C

Method of coolant: ☑ Wet Ice ☐ Ice Packs ☐ Dry Ice ☐ None

☐ Yes	☐ No	☑ NA	3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified? PM was Notified by: phone / email / face-to-face (circle one).
☐ Yes	☐ No	☑ NA	4. Is the commercial courier's packing slip attached to this form?
☑ Yes	☐ No		5. Were proper custody procedures (relinquished/received) followed?
☑ Yes	☐ No		6. Were sample IDs listed on the COC?
☑ Yes	☐ No		7. Were sample IDs listed on all sample containers?
☑ Yes	☐ No		8. Was collection date & time listed on the COC?
☑ Yes	☐ No		9. Was collection date & time listed on all sample containers?
☐ Yes	☑ No		10. Did all container label information (ID, date, time) agree with the COC?
☑ Yes	☐ No		11. Were tests to be performed listed on the COC?
☑ Yes	☐ No		12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)? _____
☑ Yes	☐ No		13. Was adequate sample volume available?
☑ Yes	☐ No		14. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
☑ Yes	☐ No		15. Were any samples containers missing/excess (circle one) samples Not listed on COC?
☐ Yes	☑ No	☐ NA	16. For VOA and RSK-175 samples, were bubbles present >"pea-size" (¼"or 6mm in diameter) in any of the VOA vials?
☐ Yes	☐ No	☑ NA	17. Were all DRO/metals/nutrient samples received at a pH of < 2?
☐ Yes	☐ No	☑ NA	18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?
☐ Yes	☐ No	☑ NA	19. Were all applicable NH_3/TKN/cyanide/phenol/625 (< 0.5mg/L) samples free of residual chlorine?
☐ Yes	☐ No	☑ NA	20. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc…) correctly transcribed from the COC into the comment section in LIMS?
☐ Yes	☑ No		21. Was the quote number listed on the container label? If yes, Quote # NA

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) NA _____ were received incorrectly preserved and were adjusted accordingly in sample receiving with NA mL of circle one: H2SO4, HNO3, HCl, NaOH using SR # NA .

Time of preservation NA . If more than one preservative is needed, please note in the comments below.

Sample(s) 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 thiosulfate ($Na_2S_2O_3$) with Shealy ID: NA .

SR barcode labels applied by: ETB Date: 8/24/19

Comments: -020 container collection time: 1100. -021 Trip Blank not listed on COC.

SHEALY ENVIRONMENTAL SERVICES, INC.

Report of Analysis

Crawford Environmental Services LLC
301 McCullough Drive
Suite 400
Charlotte, NC 28262
Attention: Daniel Fisher

Project Name: Clouds Chevron

Lot Number:**UH24017**

Date Completed:08/28/2019

08/30/2019 3:03 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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Case Narrative
Crawford Environmental Services LLC
Lot Number: UH24017

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.

Sample Summary
Crawford Environmental Services LLC
Lot Number: UH24017

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	MW-40	Aqueous	08/23/2019 0900	08/23/2019
002	FB-2	Aqueous	08/23/2019 0850	08/23/2019
003	SW-1	Aqueous	08/23/2019 0930	08/23/2019
004	MW-10	Aqueous	08/23/2019 0950	08/23/2019
005	DW-3	Aqueous	08/23/2019 1025	08/23/2019
006	DUP-3	Aqueous	08/23/2019 1030	08/23/2019
007	PW-1R	Aqueous	08/23/2019 1200	08/23/2019
008	DUP-4	Aqueous	08/23/2019 1205	08/23/2019

(8 samples)

Detection Summary
Crawford Environmental Services LLC
Lot Number: UH24017

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	MW-40	Aqueous	Naphthalene	8260B	0.61	J	ug/L	5
003	SW-1	Aqueous	tert-Amyl alcohol (TAA)	8260B	410		ug/L	7
003	SW-1	Aqueous	tert-Amyl methyl ether	8260B	2.1	J	ug/L	7
003	SW-1	Aqueous	Benzene	8260B	180		ug/L	7
003	SW-1	Aqueous	Ethylbenzene	8260B	78		ug/L	7
003	SW-1	Aqueous	Methyl tertiary butyl ether	8260B	15		ug/L	7
003	SW-1	Aqueous	Naphthalene	8260B	33		ug/L	7
003	SW-1	Aqueous	tert-butyl alcohol (TBA)	8260B	19	J	ug/L	7
003	SW-1	Aqueous	Toluene	8260B	14		ug/L	7
003	SW-1	Aqueous	Xylenes (total)	8260B	110		ug/L	7
004	MW-10	Aqueous	Benzene	8260B	11	J	ug/L	8
004	MW-10	Aqueous	Ethylbenzene	8260B	150		ug/L	8
004	MW-10	Aqueous	Naphthalene	8260B	170		ug/L	8
004	MW-10	Aqueous	Toluene	8260B	12	J	ug/L	8
004	MW-10	Aqueous	Xylenes (total)	8260B	510		ug/L	8
005	DW-3	Aqueous	tert-Amyl alcohol (TAA)	8260B	5700		ug/L	9
005	DW-3	Aqueous	tert-Amyl methyl ether	8260B	110	J	ug/L	9
005	DW-3	Aqueous	Benzene	8260B	9600		ug/L	9
005	DW-3	Aqueous	Ethylbenzene	8260B	2100		ug/L	9
005	DW-3	Aqueous	Methyl tertiary butyl ether	8260B	170	J	ug/L	9
005	DW-3	Aqueous	Naphthalene	8260B	540	J	ug/L	9
005	DW-3	Aqueous	Toluene	8260B	23000		ug/L	9
005	DW-3	Aqueous	Xylenes (total)	8260B	9100		ug/L	9
006	DUP-3	Aqueous	tert-Amyl alcohol (TAA)	8260B	5800		ug/L	10
006	DUP-3	Aqueous	tert-Amyl methyl ether	8260B	140	J	ug/L	10
006	DUP-3	Aqueous	Benzene	8260B	9300		ug/L	10
006	DUP-3	Aqueous	Ethylbenzene	8260B	2000		ug/L	10
006	DUP-3	Aqueous	Methyl tertiary butyl ether	8260B	270	J	ug/L	10
006	DUP-3	Aqueous	Naphthalene	8260B	510	J	ug/L	10
006	DUP-3	Aqueous	Toluene	8260B	23000		ug/L	10
006	DUP-3	Aqueous	Xylenes (total)	8260B	8500		ug/L	10
007	PW-1R	Aqueous	tert-Amyl alcohol (TAA)	8260B	460	J	ug/L	11
007	PW-1R	Aqueous	Benzene	8260B	230	J	ug/L	11
007	PW-1R	Aqueous	Ethylbenzene	8260B	400		ug/L	11
007	PW-1R	Aqueous	Naphthalene	8260B	430		ug/L	11
007	PW-1R	Aqueous	Toluene	8260B	3400		ug/L	11
007	PW-1R	Aqueous	Xylenes (total)	8260B	7300		ug/L	11
008	DUP-4	Aqueous	tert-Amyl alcohol (TAA)	8260B	580	J	ug/L	12
008	DUP-4	Aqueous	Benzene	8260B	310		ug/L	12
008	DUP-4	Aqueous	Ethylbenzene	8260B	590		ug/L	12
008	DUP-4	Aqueous	Naphthalene	8260B	470		ug/L	12
008	DUP-4	Aqueous	Toluene	8260B	4800		ug/L	12
008	DUP-4	Aqueous	Xylenes (total)	8260B	8100		ug/L	12

(43 detections)

Client: Crawford Environmental Services LLC
Description: MW-40
Date Sampled: 08/23/2019 0900
Date Received: 08/23/2019

Laboratory ID: UH24017-001
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/27/2019 0118	JTH		27100
2	5030B	8260B	1	08/28/2019 0230	ALR1		27223

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
Ethylbenzene	100-41-4	8260B	ND		5.0	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	0.61	J	5.0	0.40	ug/L	2
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	0.45	ug/L	1

Surrogate	Q	Run 1 % Recovery	Run 1 Acceptance Limits	Q	Run 2 % Recovery	Run 2 Acceptance Limits
1,2-Dichloroethane-d4		98	70-130		108	70-130
Bromofluorobenzene		95	70-130		104	70-130
Toluene-d8		97	70-130		111	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Client: Crawford Environmental Services LLC
Description: FB-2
Date Sampled: 08/23/2019 0850
Date Received: 08/23/2019

Laboratory ID: UH24017-002
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/26/2019 2326	JTH		27100

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
Ethylbenzene	100-41-4	8260B	ND		5.0	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	0.45	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		98	70-130
Bromofluorobenzene		93	70-130
Toluene-d8		97	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Client: Crawford Environmental Services LLC
Description: SW-1
Date Sampled: 08/23/2019 0930
Date Received: 08/23/2019

Laboratory ID: UH24017-003
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/27/2019 0141	JTH		27100
2	5030B	8260B	5	08/28/2019 0526	ALR1		27223

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	410		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	2.1	J	10	0.42	ug/L	1
Benzene	71-43-2	8260B	180		25	2.0	ug/L	2
Ethylbenzene	100-41-4	8260B	78		5.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	15		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	33		5.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	19	J	20	8.0	ug/L	1
Toluene	108-88-3	8260B	14		5.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	110		5.0	0.45	ug/L	1

Surrogate	Q	Run 1 % Recovery	Run 1 Acceptance Limits	Q	Run 2 % Recovery	Run 2 Acceptance Limits
1,2-Dichloroethane-d4		97	70-130		100	70-130
Bromofluorobenzene		98	70-130		98	70-130
Toluene-d8		98	70-130		102	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

Shealy Environmental Services, Inc.
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Client: Crawford Environmental Services LLC
Description: MW-10
Date Sampled: 08/23/2019 0950
Date Received: 08/23/2019

Laboratory ID: UH24017-004
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	10	08/27/2019 0309	JTH		27100

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		200	80	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		100	4.2	ug/L	1
Benzene	71-43-2	8260B	11	J	50	4.0	ug/L	1
Ethylbenzene	100-41-4	8260B	150		50	4.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		50	4.0	ug/L	1
Naphthalene	91-20-3	8260B	170		50	4.0	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		200	80	ug/L	1
Toluene	108-88-3	8260B	12	J	50	4.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	510		50	4.5	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		99	70-130
Bromofluorobenzene		96	70-130
Toluene-d8		97	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Client: Crawford Environmental Services LLC
Description: DW-3
Date Sampled: 08/23/2019 1025
Date Received: 08/23/2019

Laboratory ID: UH24017-005
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	200	08/27/2019 0438	JTH		27100

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	5700		4000	1600	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	110	J	2000	84	ug/L	1
Benzene	71-43-2	8260B	9600		1000	80	ug/L	1
Ethylbenzene	100-41-4	8260B	2100		1000	80	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	170	J	1000	80	ug/L	1
Naphthalene	91-20-3	8260B	540	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	23000		1000	80	ug/L	1
Xylenes (total)	1330-20-7	8260B	9100		1000	90	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		97	70-130
Bromofluorobenzene		97	70-130
Toluene-d8		97	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Client: Crawford Environmental Services LLC
Description: DUP-3
Date Sampled: 08/23/2019 1030
Date Received: 08/23/2019

Laboratory ID: UH24017-006
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	200	08/27/2019 0500	JTH		27100

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	5800		4000	1600	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	140	J	2000	84	ug/L	1
Benzene	71-43-2	8260B	9300		1000	80	ug/L	1
Ethylbenzene	100-41-4	8260B	2000		1000	80	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	270	J	1000	80	ug/L	1
Naphthalene	91-20-3	8260B	510	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	23000		1000	80	ug/L	1
Xylenes (total)	1330-20-7	8260B	8500		1000	90	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		96	70-130
Bromofluorobenzene		92	70-130
Toluene-d8		96	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

Shealy Environmental Services, Inc.
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Client: Crawford Environmental Services LLC
Description: PW-1R
Date Sampled: 08/23/2019 1200
Date Received: 08/23/2019

Laboratory ID: UH24017-007
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	50	08/27/2019 0331	JTH		27100

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	460	J	1000	400	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		500	21	ug/L	1
Benzene	71-43-2	8260B	230	J	250	20	ug/L	1
Ethylbenzene	100-41-4	8260B	400		250	20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		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	3400		250	20	ug/L	1
Xylenes (total)	1330-20-7	8260B	7300		250	23	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		97	70-130
Bromofluorobenzene		95	70-130
Toluene-d8		97	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

Shealy Environmental Services, Inc.
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Client: Crawford Environmental Services LLC
Description: DUP-4
Date Sampled: 08/23/2019 1205
Date Received: 08/23/2019

Laboratory ID: UH24017-008
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	50	08/27/2019 0353	JTH		27100

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	580	J	1000	400	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		500	21	ug/L	1
Benzene	71-43-2	8260B	310		250	20	ug/L	1
Ethylbenzene	100-41-4	8260B	590		250	20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		250	20	ug/L	1
Naphthalene	91-20-3	8260B	470		250	20	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		1000	400	ug/L	1
Toluene	108-88-3	8260B	4800		250	20	ug/L	1
Xylenes (total)	1330-20-7	8260B	8100		250	23	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		96	70-130
Bromofluorobenzene		98	70-130
Toluene-d8		97	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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QC Summary

Volatile Organic Compounds by GC/MS - MB

Sample ID: UQ27100-001
Batch: 27100
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	20	8.0	ug/L	08/26/2019 2200
tert-Amyl methyl ether (TAME)	ND		1	10	0.42	ug/L	08/26/2019 2200
Benzene	ND		1	5.0	0.40	ug/L	08/26/2019 2200
Ethylbenzene	ND		1	5.0	0.40	ug/L	08/26/2019 2200
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	0.40	ug/L	08/26/2019 2200
Naphthalene	ND		1	5.0	0.40	ug/L	08/26/2019 2200
tert-butyl alcohol (TBA)	ND		1	20	8.0	ug/L	08/26/2019 2200
Toluene	ND		1	5.0	0.40	ug/L	08/26/2019 2200
Xylenes (total)	ND		1	5.0	0.45	ug/L	08/26/2019 2200

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		98	70-130
Bromofluorobenzene		96	70-130
Toluene-d8		97	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL

N = Recovery is out of criteria
+ = RPD is out of criteria

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: UQ27100-002
Batch: 27100
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	900		1	90	70-130	08/26/2019 2100
tert-Amyl methyl ether (TAME)	50	51		1	102	70-130	08/26/2019 2100
Benzene	50	50		1	101	70-130	08/26/2019 2100
Ethylbenzene	50	51		1	101	70-130	08/26/2019 2100
Methyl tertiary butyl ether (MTBE)	50	52		1	103	70-130	08/26/2019 2100
Naphthalene	50	49		1	98	70-130	08/26/2019 2100
tert-butyl alcohol (TBA)	1000	920		1	92	70-130	08/26/2019 2100
Toluene	50	50		1	101	70-130	08/26/2019 2100
Xylenes (total)	100	100		1	101	70-130	08/26/2019 2100

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		100	70-130
Bromofluorobenzene		95	70-130
Toluene-d8		98	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL

N = Recovery is out of criteria
+ = RPD is out of criteria

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: UH24017-006MS
Batch: 27100
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	5800	200000	190000		200	94	70-130	08/27/2019 0521
tert-Amyl methyl ether (TAME)	140	10000	11000		200	110	70-130	08/27/2019 0521
Benzene	9300	10000	21000		200	116	70-130	08/27/2019 0521
Ethylbenzene	2000	10000	14000		200	116	70-130	08/27/2019 0521
Methyl tertiary butyl ether (MTBE)	270	10000	11000		200	111	70-130	08/27/2019 0521
Naphthalene	510	10000	11000		200	105	70-130	08/27/2019 0521
tert-butyl alcohol (TBA)	ND	200000	190000		200	95	70-130	08/27/2019 0521
Toluene	23000	10000	34000		200	118	70-130	08/27/2019 0521
Xylenes (total)	8500	20000	32000		200	115	70-130	08/27/2019 0521

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		98	70-130
Bromofluorobenzene		98	70-130
Toluene-d8		98	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL

N = Recovery is out of criteria
+ = RPD is out of criteria

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: UH24017-006MD
Batch: 27100
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

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)	5800	200000	200000		200	95	1.6	70-130	20	08/27/2019 0543
tert-Amyl methyl ether (TAME)	140	10000	11000		200	109	1.4	70-130	20	08/27/2019 0543
Benzene	9300	10000	21000		200	112	1.5	70-130	20	08/27/2019 0543
Ethylbenzene	2000	10000	14000		200	116	0.35	70-130	20	08/27/2019 0543
Methyl tertiary butyl ether (MTBE)	270	10000	11000		200	110	1.3	70-130	20	08/27/2019 0543
Naphthalene	510	10000	11000		200	105	0.38	70-130	20	08/27/2019 0543
tert-butyl alcohol (TBA)	ND	200000	190000		200	95	0.85	70-130	20	08/27/2019 0543
Toluene	23000	10000	34000		200	110	2.2	70-130	20	08/27/2019 0543
Xylenes (total)	8500	20000	31000		200	114	1.1	70-130	20	08/27/2019 0543

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		98	70-130
Bromofluorobenzene		96	70-130
Toluene-d8		97	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL

N = Recovery is out of criteria
+ = RPD is out of criteria

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: UQ27223-001
Batch: 27223
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Benzene	ND		1	5.0	0.40	ug/L	08/27/2019 2150
Naphthalene	ND		1	5.0	0.40	ug/L	08/27/2019 2150

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		114	70-130
Bromofluorobenzene		115	70-130
Toluene-d8		117	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL

N = Recovery is out of criteria
+ = RPD is out of criteria

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: UQ27223-002
Batch: 27223
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Benzene	50	47		1	94	70-130	08/27/2019 2039
Naphthalene	50	45		1	90	70-130	08/27/2019 2039

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		104	70-130
Bromofluorobenzene		111	70-130
Toluene-d8		109	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL

N = Recovery is out of criteria
+ = RPD is out of criteria

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

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Chain of Custody
and
Miscellaneous Documents

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Telephone No. 803-791-9700 Fax No. 803-791-9111
www.shealylab.com

SHEALY Chain of Custody Record

Number 098274

Client: Crawford Environmental	Report to Contact: Don Fisher	Telephone No. / E-mail: 540-778-5068	Quote No.
Address: 1701 Shenandoah Ave NW.	Sampler's Signature:	Analysis (Attach list if more space is needed)	Page 1 of 21
City: Roanoke	State: VA Zip Code: 24017	Printed Name:	
Project Name: Clow 03 Chevron			UH24017
Project No.	P.O. No.		LIO

Sample ID / Description (Containers for each sample may be combined on one line.)	Date	Time	(G=Grab C=Composite)	Matrix: Aqueous	Matrix: Solid	Matrix: Soil Vapor	No of Containers by Preservative Type: Organic	Inorganic	HNO3	H2O	NaOH	Encore	BTEX / MTBE / 2 EDB / DW Time TBA 8021B	Remarks / Cooler I.D.
MW-40	8-23-19	0900	G	X						X			X	
FB-2	8-23-19	0850	G	X						X			X	
SW-1	8-23-19	0930	G	X						X			X	
MW-10	8-23-19	0950	C	X						X			X	
DW-3	8-23-19	1025	C	X						X			X	
Dup-3	8-23-19	1030	C	X						X			X	
PW-1R	8-23-19	1200	C	X						X			X	
Dup-4	8-23-19	1205	C	X						X			X	

Turn Around Time Required (Prior lab approval required for expedited TAT.): ☐ Standard ☐ Rush (Specify)

Sample Disposal: ☐ Return to Client ☐ Disposal by Lab

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown

QC Requirements (Specify):

	Date	Time		Date	Time
1. Relinquished by	8-23-19	1325	1. Received by		
2. Relinquished by			2. Received by		
3. Relinquished by			3. Received by		
4. Relinquished by			4. Laboratory received by: L Hill	8-23-19	1325

Notes: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY: Received on Ice (Circle) (Yes) No Ice Pack — Receipt Temp. 2.4 °C

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: F-AD-133 Effective Date: 09-01-2014

Shealy Environmental Services, Inc.
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SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc.
Document Number: MD0018C-14

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

Sample Receipt Checklist (SRC)

Client: Crawford Environmental Cooler Inspected by/date: ETB / 8/24/19 Lot #: UH24017

Means of receipt: ☐ SESI ☑ Client ☐ UPS ☐ FedEx ☐ Other:

☐ Yes	☑ No		1. Were custody seals present on the cooler?
☐ Yes	☐ No	☑ NA	2. If custody seals were present, were they intact and unbroken?

pH Strip ID: NA Chlorine Strip ID: NA Tested by: NA

Original temperature upon receipt / Derived (Corrected) temperature upon receipt %Solid Snap-Cup ID: NA

2.4 / 2.4 °C NA / NA °C NA / NA °C NA / NA °C

Method: ☑ Temperature Blank ☐ Against Bottles IR Gun ID: 6 IR Gun Correction Factor: 0 °C

Method of coolant: ☑ Wet Ice ☐ Ice Packs ☐ Dry Ice ☐ None

☐ Yes	☐ No	☑ NA	3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified? PM was Notified by: phone / email / face-to-face (circle one).
☐ Yes	☐ No	☑ NA	4. Is the commercial courier's packing slip attached to this form?
☑ Yes	☐ No		5. Were proper custody procedures (relinquished/received) followed?
☑ Yes	☐ No		6. Were sample IDs listed on the COC?
☑ Yes	☐ No		7. Were sample IDs listed on all sample containers?
☑ Yes	☐ No		8. Was collection date & time listed on the COC?
☑ Yes	☐ No		9. Was collection date & time listed on all sample containers?
☑ Yes	☐ No		10. Did all container label information (ID, date, time) agree with the COC?
☑ Yes	☐ No		11. Were tests to be performed listed on the COC?
☑ Yes	☐ No		12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?
☑ Yes	☐ No		13. Was adequate sample volume available?
☑ Yes	☐ No		14. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
☐ Yes	☑ No		15. Were any samples containers missing/excess (circle one) samples Not listed on COC?
☐ Yes	☑ No	☐ NA	16. For VOA and RSK-175 samples, were bubbles present >"pea-size" (¼"or 6mm in diameter) in any of the VOA vials?
☐ Yes	☐ No	☑ NA	17. Were all DRO/metals/nutrient samples received at a pH of < 2?
☐ Yes	☐ No	☑ NA	18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?
☐ Yes	☐ No	☑ NA	19. Were all applicable NH_3/TKN/cyanide/phenol/625 (< 0.5mg/L) samples free of residual chlorine?
☐ Yes	☐ No	☑ NA	20. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc…) correctly transcribed from the COC into the comment section in LIMS?
☐ Yes	☑ No		21. Was the quote number listed on the container label? If yes, Quote # NA

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) NA _____ were received incorrectly preserved and were adjusted accordingly in sample receiving with NA mL of circle one: H2SO4, HNO3, HCl, NaOH using SR # NA.
Time of preservation NA. If more than one preservative is needed, please note in the comments below.

Sample(s) 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 thiosulfate ($Na_2S_2O_3$) with Shealy ID: NA.

SR barcode labels applied by: ETB Date: 8/24/19

Comments:

Appendix B

Groundwater Sampling Data Sheets

MW - 25

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 8-22-19	Site ID #:	Site Name: Clovels Chevron	Field Personnel: J. Brackett, M. Pine
County:	Project Manager:	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)	6.19	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)	7.98	Y or N			
LaMotte (Turbidity)	.264	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-25	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: ___Bailer ___Pump
✓MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW		Screened Interval (ft.): to	Total Well Depth (TWD) (ft.):
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): ~~25.60~~ 20.77		Free Product Thickness (ft.): NA
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	Grab							
Time (military)	0905							
PH (s.u.)	6.19							
Specific Conductivity (µS/cm)	4.03							
Water Temperature (°C)	27.1							
Turbidity (NTU)	376							
Dissolved Oxygen (mg/L)	8.08							

Sampling Data

Sampled By: JB, JP	Sampling Time: 0905	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: 15½' from Back wall 5' toward the North from Building corner

Signature:

MW - SAR

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 8.22-19	Site ID #:	Site Name: Lewis Chapman	Field Personnel: J. Brackett, M. Price
County:	Project Manager:	General Weather Conditions:	Ambient Air Temp (°F): 90's

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-SAR	Well Diameter (ft.):	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: ___Bailer ___Pump
✓MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW		Screened Interval (ft.): 18' to 28'	Total Well Depth (TWD) (ft.): 28-00
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 21-89		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 6-11	1 casing volume (CV = LWC x C) (gals.): 0.97		3 casing volumes (3 x CV) (gals.): 2-93

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	Grab							
Time (military)	0915							
PH (s.u.)	5.97							
Specific Conductivity (µS/cm) µS	.271							
Water Temperature (°C)	26.02							
Turbidity (NTU)	316							
Dissolved Oxygen (mg/L)	7.33							

Sampling Data

Sampled By: M. Price	Sampling Time: 0915	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: _____

Signature: _____

MW-22

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 8-22-19	Site ID #:	Site Name: Clouds Chevron	Field Personnel: J. Brackett, M. Price
County:	Project Manager:	General Weather Conditions:	Ambient Air Temp (°F): 90.0

Quality Assurance

Meter Name: Horiba	Serial #: U-5000	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-22	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: ___Bailer ___Pump
✓MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW		Screened Interval (ft.): 20' to 30'	Total Well Depth (TWD) (ft.): 30.00
Depth to Free Product (DFP) (ft.):		Depth to Groundwater (DGW) (ft.): 21.97	Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 8.03		1 casing volume (CV = LWC x C) (gals.): 1.28	3 casing volumes (3 x CV) (gals.): 3.85

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	Grab							
Time (military)	0925							
PH (s.u.)	5.84							
Specific Conductivity (µS/cm) mS	.369							
Water Temperature (°C)	26.09							
Turbidity (NTU)	344							
Dissolved Oxygen (mg/L)	7.60							

Sampling Data

Sampled By: M. Price	Sampling Time: 0925	Duplicate: Y or N	If yes, Duplicate Time:

Notes:

Signature: M. Price

MW-20

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 8-22-19	Site ID #:	Site Name: Clouds Chevron	Field Personnel: J. Brackett, M Price
County:	Project Manager:	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-20	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: ___Bailer ___Pump
✓MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW	Screened Interval (ft.): 15' to 25'		Total Well Depth (TWD) (ft.): 25.00
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 23.57		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 1.43	1 casing volume (CV = LWC x C) (gals.): 0.22		3 casing volumes (3 x CV) (gals.): 0.68

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	6+6							
Time (military)	0940							
PH (s.u.)	5.98							
Specific Conductivity (µS/cm)	.327							
Water Temperature (°C)	27.6							
Turbidity (NTU)	373							
Dissolved Oxygen (mg/L)	7.46							

Sampling Data

Sampled By: M. Price	Sampling Time: 0940	Duplicate: Y or N	If yes, Duplicate Time:

Notes:

Signature:

MW-19

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 8-22-19	Site ID #:	Site Name: Cleveland Chevron	Field Personnel: J. Brackett, M. Price
County:	Project Manager:	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-19	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: ___Bailer ___Pump
✓MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW		Screened Interval (ft.): 20' to 30'	Total Well Depth (TWD) (ft.): 30.00
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 23.70		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 6.3	1 casing volume (CV = LWC x C) (gals.): 1.00		3 casing volumes (3 x CV) (gals.): 3.02

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	Grab							
Time (military)	0955							
PH (s.u.)	5.88							
Specific Conductivity (µS/cm) mS	.266							
Water Temperature (°C)	27.40							
Turbidity (NTU)	116							
Dissolved Oxygen (mg/L)	8.22							

Sampling Data

Sampled By: M. Price	Sampling Time: 0955	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: _____

Signature: M. Price

MW-23 Dup-1

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 8.22-19	Site ID #:	Site Name: Cleveland Chevron	Field Personnel: J. Brackett, M. Price
County:	Project Manager:	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-23	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: ___Bailer ___Pump
✓MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW		Screened Interval (ft.): 20' to 30'	Total Well Depth (TWD) (ft.): 30.00
Depth to Free Product (DFP) (ft.):		Depth to Groundwater (DGW) (ft.): 23.97	Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 6.03		1 casing volume (CV = LWC x C) (gals.): 0.96	3 casing volumes (3 x CV) (gals.): 2.89

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol	Post	Sampling
Volume Purged (gallons)	Grab							
Time (military)	1045							
PH (s.u.)	5.98							
Specific Conductivity (µS/cm) mS	.204							
Water Temperature (°C)	26.5							
Turbidity (NTU)	88.5							
Dissolved Oxygen (mg/L)	7.15							

Sampling Data

Sampled By: M. Price	Sampling Time: 1005	Duplicate: (Y) or N	If yes, Duplicate Time: 1015

Notes _____

Signature: _____

MW-18

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 8-22-19	Site ID #:	Site Name: Lloyds Chevron	Field Personnel: J. Brockett M Price
County:	Project Manager:	General Weather Conditions:	Ambient Air Temp (F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-18	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: ___Bailer ___Pump
✓MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW	Screened Interval (ft.): 20' to 30'		Total Well Depth (TWD) (ft.): 30.00
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 24.00		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 6.0	1 casing volume (CV = LWC x C) (gals.): .96		3 casing volumes (3 x CV) (gals.): 2.88

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	Grab							
Time (military)	1040							
PH (s.u.)	5.60							
Specific Conductivity (µS/cm) mS	.238							
Water Temperature (°C)	27.7							
Turbidity (NTU)	0.0							
Dissolved Oxygen (mg/L)	9.72							

Sampling Data

Sampled By: M. Price	Sampling Time: 1040	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: _____

Signature: _____

MW-33

DHEC

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 8-22-19	Site ID #:	Site Name: Lloyds Chevron	Field Personnel: J. Brackett, M. Price
County:	Project Manager:	General Weather Conditions:	Ambient Air Temp (F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-33	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: ___Bailer ___Pump
✓MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW		Screened Interval (ft.): 20' to 35'	Total Well Depth (TWD) (ft.): 35.00
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 23.54		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 11.46	1 casing volume (CV = LWC x C) (gals.): 1.83		3 casing volumes (3 x CV) (gals.): 5.50

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	Grab							
Time (military)	1055							
PH (s.u.)	5.37							
Specific Conductivity (µS/cm) ms	.098							
Water Temperature (°C)	26.8							
Turbidity (NTU)	259							
Dissolved Oxygen (mg/L)	7.40							

Sampling Data

Sampled By: M. Price	Sampling Time: 1055	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes:

Signature: M. Price

MW-35

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 8-22-19	Site ID #:	Site Name: Clouds Chevron	Field Personnel: J. Brackett, M. Price
County:	Project Manager:	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID:	Well Diameter (ft.):	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: ___Bailer ___Pump
MW-35	2"		
✓MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW		Screened Interval (ft.): 20' to 35'	Total Well Depth (TWD) (ft.): 35.00
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 23.43		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 11.57	1 casing volume (CV = LWC x C) (gals.): 1.85		3 casing volumes (3 x CV) (gals.): 5.55

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	6gal							
Time (military)	1110							
PH (s.u.)	5.36							
Specific Conductivity (µS/cm) µ?	.114							
Water Temperature (°C)	27.0							
Turbidity (NTU)	99.2							
Dissolved Oxygen (mg/L)	7.32							

Sampling Data

Sampled By: M. Price	Sampling Time: 1110	Duplicate: (Y) or N	If yes, Duplicate Time:

Notes:

Signature:

MW-37

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 8-22-19	Site ID #:	Site Name: Clouds Chevron	Field Personnel: J. Brackett, M. Price
County:	Project Manager:	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-37	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: ___Bailer ___Pump
✓MW ___IW ___RW ___Other_____ ___Private WSW ___Public WSW		Screened Interval (ft.): 20' to 35'	Total Well Depth (TWD) (ft.): 35'
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 23.62		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 11.38	1 casing volume (CV = LWC x C) (gals.): 1.82		3 casing volumes (3 x CV) (gals.): 5.46

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	6gal							
Time (military)	1120							
PH (s.u.)	5.10							
Specific Conductivity (µS/cm) ms	.098							
Water Temperature (°C)	27.18							
Turbidity (NTU)	34.6							
Dissolved Oxygen (mg/L)	10.50							

Sampling Data

Sampled By: M. Price	Sampling Time: 1120	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: _____

Signature: _____

MW-31 Day-2

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 8-22-19	Site ID #:	Site Name: Cloud's Chevron	Field Personnel: J. Brackett, M. Price
County:	Project Manager:	General Weather Conditions: Hot	Ambient Air Temp (°F): 91

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-31	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: ___Bailer ___Pump
___MW ___IW ___RW ___Other ___Private WSW ___Public WSW	Screened Interval (ft.): 25' to 35'		Total Well Depth (TWD) (ft.): 35.00
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 25.04		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 9.96	1 casing volume (CV = LWC x C) (gals.): 1.59		3 casing volumes (3 x CV) (gals.): 4.78

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	6 gals							
Time (military)	1130							
PH (s.u.)	5.60							
Specific Conductivity (µS/cm) mS	.176							
Water Temperature (°C)	26.4							
Turbidity (NTU)	124							
Dissolved Oxygen (mg/L)	7.84							

Sampling Data

Sampled By: M. Price	Sampling Time: 1130	Duplicate: (Y) or N	If yes, Duplicate Time: 1135

Notes:

Signature:

MW-41

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 8-22-19	Site ID #:	Site Name: Cloud's Chevron	Field Personnel: J. Brackett M. Price
County:	Project Manager:	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-41	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: ___Bailer ___Pump
✓MW ___IW ___RW ___Other ___Private WSW ___Public WSW		Screened Interval (ft.): 25' to 35'	Total Well Depth (TWD) (ft.): 35.00
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 25.65		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 9.35	1 casing volume (CV = LWC x C) (gals.): 1.49		3 casing volumes (3 x CV) (gals.): 4.48

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol	Post	Sampling
Volume Purged (gallons)								
Time (military)	1145							
PH (s.u.)	5.87							
Specific Conductivity (µS/cm) µS	.10							
Water Temperature (°C)	25.8							
Turbidity (NTU)	[illegible]	82.7						
Dissolved Oxygen (mg/L)	7.82							

Sampling Data

Sampled By: M. Price	Sampling Time: 1145	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: _____

Signature: [signature]

MW-17

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 8.22.19	Site ID #:	Site Name: Cloud's Chevron	Field Personnel: J. Brockett, M. Price
County:	Project Manager:	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID:	Well Diameter (ft.):	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: ___Bailer ___Pump
MW-17	2"		
✓MW ___IW ___RW ___Other_____ ___Private WSW ___Public WSW		Screened Interval (ft.): 20' to 30'	Total Well Depth (TWD) (ft.): 30.00
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 22.36		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 7.64	1 casing volume (CV = LWC x C) (gals.): 1.22		3 casing volumes (3 x CV) (gals.): 3.66

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	6 mb							
Time (military)	1315							
PH (s.u.)	6.03							
Specific Conductivity (µS/cm) µs	.359							
Water Temperature (°C)	29.1							
Turbidity (NTU)	79.5							
Dissolved Oxygen (mg/L)	8.33							

Sampling Data

Sampled By: M. Price	Sampling Time: 1315	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: _____

Signature: _____

MW-15

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 8-22-16	Site ID #:	Site Name: Clouds Chevron	Field Personnel: J. Brockett, M. Price
County:	Project Manager:	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID:	Well Diameter (ft.):	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: ___Bailer ___Pump
MW-15	2"		
✓MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW		Screened Interval (ft.): 15' to 25'	Total Well Depth (TWD) (ft.): 25'
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 16.35		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 8.65	1 casing volume (CV = LWC x C) (gals.): 1.38		3 casing volumes (3 x CV) (gals.): 4.15

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	Rmb							
Time (military)	1335							
PH (s.u.)	6.31							
Specific Conductivity (µS/cm) ms	130							
Water Temperature (°C)	28.2							
Turbidity (NTU)	130							
Dissolved Oxygen (mg/L)	5.13							

Sampling Data

Sampled By: M. Price	Sampling Time: 1335	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: _____

Signature: _____

MW-9

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 8-22-19	Site ID #:	Site Name: Clouds Chevron	Field Personnel: J. Brockett M. Price
County:	Project Manager:	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-9	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: ___Bailer ___Pump
✓MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW		Screened Interval (ft.): 20 to 30	Total Well Depth (TWD) (ft.): 30.00
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 20.96		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 9.04	1 casing volume (CV = LWC x C) (gals.): 1.44		3 casing volumes (3 x CV) (gals.): 4.33

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	Rmb							
Time (military)	1325							
PH (s.u.)	6.04							
Specific Conductivity (µS/cm) MS	.281							
Water Temperature (°C)	28.9							
Turbidity (NTU)	70.7							
Dissolved Oxygen (mg/L)	6.31							

Sampling Data

Sampled By: M. P.G	Sampling Time: 1325	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes

Signature

MW-3

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 8-22-14	Site ID #:	Site Name: Clouds Chevron	Field Personnel: J. Brackett, M. Price
County:	Project Manager:	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-3	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: ___Bailer ___Pump
✓MW ___IW ___RW ___Other_____ ___Private WSW ___Public WSW		Screened Interval (ft.): 19' to 29'	Total Well Depth (TWD) (ft.): 29.00
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 22.27		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 6.73	1 casing volume (CV = LWC x C) (gals.): 1.07		3 casing volumes (3 x CV) (gals.): 3.23

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	Grab							
Time (military)	1355							
PH (s.u.)	5.87							
Specific Conductivity (µS/cm) avg	.224							
Water Temperature (°C)	27.4							
Turbidity (NTU)	80.3							
Dissolved Oxygen (mg/L)	7.54							

Sampling Data

Sampled By: M. Price	Sampling Time: 1355	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: _____

Signature: _____

MW-5

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 8-22-19	Site ID #:	Site Name: Cloud's Chevron	Field Personnel: J. Brackett M. Price
County:	Project Manager:	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-5	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: ___Bailer ___Pump
✓MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW		Screened Interval (ft.): 16' to 26'	Total Well Depth (TWD) (ft.): 26.00
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 19.20		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 6.8	1 casing volume (CV = LWC x C) (gals.): 1.08		3 casing volumes (3 x CV) (gals.): 3.26

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)	(illegible)							
PH (s.u.)			Dry					
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								

Sampling Data

Sampled By: M. Price	Sampling Time: (illegible)	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: _____

Signature: (signature)

MW-2

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 8-27-19	Site ID #:	Site Name: Clouds Chevron	Field Personnel: J. Brockett, M. Price	
County:	Project Manager:	General Weather Conditions:	Ambient Air Temp (°F):	

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-2	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: ___Bailer ___Pump
✓MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW		Screened Interval (ft.): 20' to 30'	Total Well Depth (TWD) (ft.): 30.00
Depth to Free Product (DFP) (ft.):		Depth to Groundwater (DGW) (ft.): 22.75	Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.):		1 casing volume (CV = LWC x C) (gals.): 1.16	3 casing volumes (3 x CV) (gals.): 3.48

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	Grab							
Time (military)	1425							
PH (s.u.)	5.93							
Specific Conductivity (µS/cm) MW-2	.280							
Water Temperature (°C)	26.9							
Turbidity (NTU)	117							
Dissolved Oxygen (mg/L)	7.31							

Sampling Data

Sampled By: M. Price	Sampling Time: 1425	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

Signature: [signature]

MW-65

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 8-23-19	Site ID #:	Site Name: Clouds Chevron	Field Personnel: J. Brackett, M. Price
County:	Project Manager:	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-65	Well Diameter (ft.):	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: ___Bailer ___Pump
___MW ___IW ___RW ___Other_____ ___Private WSW ___Public WSW		Screened Interval (ft.): 20' to 35'	Total Well Depth (TWD) (ft.): 35-00
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.):		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
PH (s.u.)								
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								

Sampling Data

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

Notes: Purged over

Signature: J. Brackett

DHEC 0423 (10/2012) SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

MW-39

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 8-23-19	Site ID #:	Site Name: Clouds Chevron	Field Personnel: J. Brackett, M. Price
County:	Project Manager:	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-39	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: ___Bailer ___Pump
✓MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW		Screened Interval (ft.): 20' to 35'	Total Well Depth (TWD) (ft.): 35.00
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.):		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
PH (s.u.)								
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								

Sampling Data

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

Notes: Covered w/ Fill (Practice Field)

Signature: [signature]

DHEC 0423 (10/2012)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

MW-54

D H F C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 8-23-19	Site ID #:	Site Name: Clark Chevron	Field Personnel: J. Brackett, M. Price
County:	Project Manager:	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-54	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: ___Bailer ___Pump
✓MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW		Screened Interval (ft.): 5' to 20'	Total Well Depth (TWD) (ft.): 20.00
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.):		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
PH (s.u.)								
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								

Sampling Data

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

Notes: Paved out

Signature: [signature]

DHEC 0423 (10/2012)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

MW-40 FB-2 0852 8-23

DHEC

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 8-23-19	Site ID #:	Site Name: Lewis Chevron	Field Personnel: J. Brackett, M. Price
County:	Project Manager:	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-40	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: ___Bailer ___Pump
✓MW ___IW ___RW ___Other: ___ ___Private WSW ___Public WSW		Screened Interval (ft.): 20 to 35	Total Well Depth (TWD) (ft.): 35.00
Depth to Free Product (DFP) (ft.):		Depth to Groundwater (DGW) (ft.): 25.26	Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 9.74		1 casing volume (CV = LWC x C) (gals.): 1.55	3 casing volumes (3 x CV) (gals.): 4.67

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	Fresh							
Time (military)	0900							
PH (s.u.)	6.22							
Specific Conductivity (µS/cm) mS	.189							
Water Temperature (°C)	23.1							
Turbidity (NTU)	441							
Dissolved Oxygen (mg/L)	1.330							

Sampling Data

Sampled By: M. Price	Sampling Time: 0900	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: ___

Signature: Jeffrey Brackett

MW-58

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 8-23-19	Site ID #:	Site Name: Clouds Chevron	Field Personnel: J. Brakett, M. Price
County:	Project Manager:	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-58	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: ___Bailer ___Pump
✓MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW		Screened Interval (ft.): 4' to 19'	Total Well Depth (TWD) (ft.): 19.00
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.):		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
PH (s.u.)								
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								

Sampling Data

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

Notes: under Gravel pile

Signature: [signature]

DHEC 0423 (10/2012)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

SW-1

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 8-23-19	Site ID #:	Site Name: Clouds Chevron	Field Personnel: J. Brackett M. Price	
County:	Project Manager:	General Weather Conditions:	Ambient Air Temp (°F):	

Quality Assurance

Meter Name	Serial #	Calibration			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C. Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: SW-1	Well Diameter (ft.):	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: ___Bailer ___Pump
___MW ___IW ___RW ___Other SW ___Private WSW ___Public WSW		Screened Interval (ft.): to	Total Well Depth (TWD) (ft.):
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.):		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	Grab							
Time (military)	0930							
PH (s.u.)	6.46							
Specific Conductivity (µS/cm)	.272							
Water Temperature (°C)	25.8							
Turbidity (NTU)	145							
Dissolved Oxygen (mg/L)	9.33							

Sampling Data

Sampled By: M. Price	Sampling Time: 0930	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes:

Signature: Jeffrey A Brackett

MW-10

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 2-23-19	Site ID #:	Site Name: Clark Cleaners	Field Personnel: J. Bartlett, M. Price	
County:	Project Manager:	General Weather Conditions: Sun Hot	Ambient Air Temp (°F): 91	

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-10	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: ___Bailer ___Pump
✓MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW		Screened Interval (ft.): 20' to 30'	Total Well Depth (TWD) (ft.): 30.00
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 16.42		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.): 2.17		3 casing volumes (3 x CV) (gals.): 6.51

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)		2.1						
Time (military)	0930	0935	Dry					
PH (s.u.)	6.63	6.64						
Specific Conductivity (µS/cm) mS	.289	.323						
Water Temperature (°C)	26.6	26.5						
Turbidity (NTU)	770	>1000						
Dissolved Oxygen (mg/L)	7.68	7.82						

Sampling Data

Sampled By: M. Price	Sampling Time: 0950	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: Purged Dry

Signature: Jeffrey M. Price

DW-3 DUP-3

DHEC

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 9-23-19	Site ID #:	Site Name: Clouds Chevron	Field Personnel: J. Brakett, M. Price
County:	Project Manager:	General Weather Conditions: Clear	Ambient Air Temp (°F): 91

Quality Assurance

Meter Name	Serial #	Calibration			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: DW-3	Well Diameter (ft.):	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: ___Bailer ___Pump
___MW ___IW ___RW ___Other DW ___Private WSW ___Public WSW		Screened Interval (ft.): 47' to 52'	Total Well Depth (TWD) (ft.): 52-00
Depth to Free Product (DFP) (ft.):		Depth to Groundwater (DGW) (ft.): 23.66	Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 28.34		1 casing volume (CV = LWC x C) (gals.): 4.53	3 casing volumes (3 x CV) (gals.): 13.60

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	—	4.5	9.0	13.5				
Time (military)	1000	1007	1015	1020				
PH (s.u.)	7.00	6.47	6.34	6.32				
Specific Conductivity (uS/cm) mS	.263	.293	.267	.259				
Water Temperature (°C)	26.1	25.8	26.3	25.7				
Turbidity (NTU)	135	498	309	307				
Dissolved Oxygen (mg/L)	11.2	8.43	8.15	8.02				

Sampling Data

Sampled By: M Price	Sampling Time: 1025	Duplicate: (Y) or N	If yes, Duplicate Time: 1030

Notes:

Signature: Jeffrey D. Vickers

PW-1R

Dup-4

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 8-23-19	Site ID #:	Site Name: Clouds Chevron	Field Personnel: J. Brackett, M. Price
County:	Project Manager:	General Weather Conditions: Hot Clear	Ambient Air Temp (°F): 93°

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)		pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		Y or N			
LaMotte (Turbidity)		0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: PW-1R	Well Diameter (ft.):	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: ___Bailer ✓ Pump
✓ MW ___IW ___RW ___Other PW ___Private WSW ___Public WSW		Screened Interval (ft.): 45' to 50'	Total Well Depth (TWD) (ft.): 50.00
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 23.16		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 26.84	1 casing volume (CV = LWC x C) (gals.): 4.29		3 casing volumes (3 x CV) (gals.): 12.88

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)		4.0	8.0					
Time (military)	1145	1150						
PH (s.u.)	5.68	5.58	5.95					
Specific Conductivity (µS/cm)	.169	.176	.001					
Water Temperature (°C)	25.3	25.0	25.8					
Turbidity (NTU)	715	516	448					
Dissolved Oxygen (mg/L)	8.70	3.49	2.51					

Sampling Data

Sampled By: M. Price	Sampling Time: 1200	Duplicate: Y or N	If yes, Duplicate Time: 1205

Notes: Dry after 8.0 gallons

Signature: [signature]

DHEC 0423 (10/2012)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

Appendix C

Disposal Manifest

CRAWFORD ENVIRONMENTAL SERVICES

September 3, 2019

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

Re: Purge Water Report- Development & Groundwater Sampling
Handy Pantry #65/University Mart & Cloud's Chevron
Intersection of Taylor Street and Two Notch Road
Columbia, South Carolina
UST Permit # 07584 / 07777 / 12352

Dear Project Manager;

The letter presents the certification that Crawford Environmental Services (CES) treated purge waters referenced below with a granular activated carbon unit prior to discharge. This was completed in accordance with the conditions laid out in the "Proposed Conditions for use of Portable Activated Carbon Units for the Treatment of Small Volumes of Petroleum Hydrocarbon Contaminated Groundwater" produced by the SCDHEC Bureau of Water.

A total of 23.6-gallons was treated on August 22 & 23, 2019 for the above referenced facility.

A record of treatment is available upon request. If you have any questions or comments please feel free to contact us at 540-798-5068.

Sincerely,

Daniel Fisher
Operations Manager
Crawford Environmental Services

Appendix D

QAPP Addendum Contractor Checklist

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

UST Programmatic QAPP Contractor Checklist				
26	Does the report include a brief discussion of the aquifer evaluation and the results?	Yes		
27	Does the report include a brief discussion of the fate & transport models used?			n/a
28	Are the site-conceptual tables included (Tier 1 risk evaluation)			n/a
29	Have the exposure pathways been analyzed (Tier 2 risk evauluation)			n/a
30	Have the SSTLs for each compound and pathway been calculated? (Tier 2 risk evaluation)	Yes		
31	Have recommendations for further action been provided and explained?			n/a
32	Has the soil analytical data for the site been provided in tabular format? (Table 5)			n/a
33	Has the potentiometric data for the site been provided in tabular format?	Yes		
34	Has the current and historical laboratory data been provided in tabular format	Yes		
35	Have the aquifer characteristics been provided and summarized on the appropriate form?			n/a
36	Have the Site conceptual model tables been included (Tier 1 risk evaluation)			n/a
37	Has the topographic map been provided with all the required elements?	Yes		
38	Has the site base map been provided with all the required elements?	Yes		
39	Have the CoC maps been provided?	Yes		
40	Have the potentiometric maps been provided?	Yes		
41	Have the geologic cross-sections been provided			n/a
42	Have maps showing the predicted migration of the CoCs through time been provided?			n/a
43	Has the site survey been provided and include all necessary elements? (Appendix A)			n/a
44	Have the sampling logs, chain of custody forms and analytical data package been included with all elements? (Appendix B)	Yes		
45	Is the laboratory performing the analyses properly certified? (Appendix B)	Yes		
46	Has the tax map been included with all necessary elements? (Appendix C)			n/a
47	Have the soil/boring field screening logs been provided? (Appendix D)			n/a
48	Have the well completion logs been provided? (Appendix E)			n/a
49	Have the aquifer evaluation forms,data, graphs, equations,etc. been provided? (Appendix F)			n/a
50	Have the disposal manifests been provided? (Appendix G)	Yes		
51	Has a copy of the local zoning regulations been provided? (Appendix H)			n/a

UST Programmatic QAPP Contractor Checklist				
52	Has all fate and transport modeling been provided? (Appendix I)			n/a
53	Have copies of all access agreements obtained by the contractor been provided? (Appendix J)			n/a
54	Has a copy of this form been attached to the final report and are explainations for any missing or incomplete data been provided?	Yes		
Comments:				

Appendix E

Revised CAPA and Cleanup Schedule

March 25, 2019

Ms. Carolyn Moores
State of South Carolina
Department of Health and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

RE: Corrective Action Plan Addendum – Revision 1
Handy Pantry #65 / University Mart / Cloud's Chevron
Intersection of Taylor Street and Two Notch Road
Columbia, South Carolina
UST Permit # 07584 / 07777 / 12352

Dear Ms. Moores:

Crawford Environmental Services, Inc. (CES) has prepared the following Corrective Action Plan Addendum (CAPA) for the Handy Pantry #65, University Mart and Cloud's Chevron facilities in Columbia, South Carolina. CES has reviewed the original Corrective Action Plan (CAP) and the remedial progress to date. Based on this review, CES has concluded that the original strategy will be an effective method to address the adsorbed- and dissolved-phase contamination. However, it has been determined that the three air sparge systems will no longer be effective. As presented in the original CAP, the existing subsurface infrastructure and injection locations will be used for chemical and biological injections. An updated corrective action timetable has been prepared and is presented below.

Description	**Start Date**	**End Date**
Injection Event Planning	04/01/19	05/01/19
Chemical and Biological Injection Event #1	05/15/19	05/25/19
Chemical and Biological Injection Event #2	08/15/19	08/25/19
Semi-Annual Confirmatory Sampling Event 1	06/01/19	06/10/19
Semi-Annual Confirmatory Sampling Event 2	11/01/19	11/10/19
Deactivation of Remedial Technology	12/01/19	
30-Day Sampling Event	01/01/20	
Post Clean-up Sampling Event 1	03/01/20	
Post Cleanup Sampling Event 2	06/01/20	
Site Restoration	08/01/20	08/15/20
Estimated completion of corrective action activities	01/01/21	

This CAPA was prepared in accordance with DHEC correspondence and is being delivered to Ms. Carolyn Moores. Should you have any questions regarding the modifications presented herein, or if additional information is required, please feel free to contact me at (540) 343-6256.

Prepare By:

James Coleman
Project Manager

Reviewed By:

Daniel Fisher
Operations Manager

Attachments

cc:

dhec
Healthy People. Healthy Communities.

JUL 22 2021

UST DOCKETING

MR BRYAN SHANE PG
MIDLANDS ENVIRONMENTAL CONSULTANTS
PO BOX 854
LEXINGTON SC 29071

Re: Site Specific Work Plan Request
Groundwater Sampling Contract
Solicitation #IFB-5400021335

Dear Mr. Shane:

In accordance with bid solicitation # IFB-5400021335, submission of a Site-Specific Work Plan (SSWP) based on each site information package provided is requested.

The SSWP must be submitted within 20 calendar days of the date of this correspondence. The project manager for each site will issue a notice to proceed once the plan has been reviewed and approved. A weekly update for each site should be emailed to the site's project manager and myself. If you have any questions or need further assistance, please contact me by phone (803) 898-7705 or email wykeljm@dhec.sc.gov.

Sincerely,

Matt Wykel, Hydrogeologist
Corrective Action & Field Support Section
UST Management Division
Bureau of Land & Waste Management

Enc: Site Information Package Summary (SIPS)
Site Information Packages

Cc: Lindsey Wooten, Pace Analytical Services, 9800 Kincey Ave. STE 100, Huntersville, NC 28078 (w/ SIPS)
Technical File (w/o Enc)

UNDERGROUND STORAGE TANK PROGRAM
BUREAU OF LAND AND WASTE MANAGEMENT
2600 Bull Street, Columbia, South Carolina 29201
Telephone: 803-898-2544

Healthy People. Healthy Communities.

MEMORANDUM

TO: Midlands Environmental Consultants, Inc

FROM: B. Baldwin

RE: Site Specific Work Plan Request

Facility Name: Clouds Chevron/College Corner

Permit Number: 07777/12352, 07584 MECI CA#: 63205/63207; 63209; 63211 PACE CA #: 63206/63208;63210;63212

County: Richland RBCA CLASS: 2AA

Work To Be Completed: Groundwater samples should be collected from all monitoring wells associate with these releases. The drainage ditch labelled SW-1 on the site map should be sampled as well. Only wells where the screened interval brackets the water table should be purged prior to sampling. The Cost Agreements assigned to the releases are as follows: 07777 (MECI-63209, PACE-63210); 12352 (MECI-63211, PACE-63212); 07584 RLS#1(MECI-63205, PACE-63206) & 07584 RLS#2 (MECI-63207, PACE-63208)

Total Groundwater Sample Points: 70 MWs + 1 SW

Analysis Being Requested: K1. BTEXNM+Oxyg's+1,2 DCA+Eth(8260B); K7. EDB by EPA 8011

2/10/2021

Brad

Midlands
Environmental
Consultants, Inc.

July 29, 2021

RECEIVED
JUL 29 2021
UST DIVISION

Mr. Matt Wykel, Hydrogeologist
Corrective Action & Field Support Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management
South Carolina Department of Health
and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

UST DOCKETING

Subject: Site-Specific Work Plan
Clouds Chevron/College Corner
Columbia, South Carolina
SCDHEC Site ID Number 07777,12352,07584
MECI Project Number 21-7651
Certified Site Rehabilitation Contractor UCC-0009

Dear Mr. Wykel,

Midlands Environmental Consultants Inc. (MECI) is pleased to submit the attached Site-Specific Work Plan for the referenced site.

On July 28, 2021, MECI personnel performed a site visit to the subject sites to evaluate site conditions, locate monitoring wells and identify potential problems for future sampling activities.

If you have any question or comments, please feel free to contact us at 803-808-2043.

Sincerely,
Midlands Environmental Consultants, Inc.

for Kyle V. Pudney
Project Biologist

Jeff L. Coleman
Senior Scientist

Post Office Box 854, Lexington, SC 29071 • 231 Dooley Road, Lexington, SC 29073
Telephone: (803) 808-2043 • Fax: (803) 808-2048

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

To: Mr. Brad Baldwin (SCDHEC Project Manager)
From: Jeff L. Coleman (Contractor Project Manager)
Contractor: Midlands Environmental Consultants, Inc. UST Contractor Certification Number: 009

Facility Name: Clouds Chevron/College Corner UST Permit #: 07777,12352,07584
Facility Address: Taylor Street and Two Notch Road, Columbia, SC
Responsible Party: Multiple o/o Phone: N/A
RP Address: N/A
Property Owner (if different): Multiple
Property Owner Address: SAA
Current Use of Property: 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 (8260D)
- ☑ Oxygenates (8260D)
- ☑ EDB (8011)
- ☐ PAH (8270E)
- ☐ Lead
- ☐ 8 RCRA Metals
- ☐ TPH
- ☐ pH
- ☐ BOD
- ☐ Nitrate
- ☐ Sulfate
- ☐ Other
- ☐ Methane
- ☐ Ethanol
- ☐ Dissolved Iron

Drinking Water Supply Wells:

- ☐ BTEXNMDCA (524.2)
- ☐ Oxygenates & Ethanol (8260D)
- ☐ Mecury (200.8 245.1 or 245.2)
- ☐ RCRA Metals (200.8)
- ☐ EDB (504.1)

Soil:

- ☐ BTEXNM
- ☐ Lead
- ☐ RCRA Metals
- ☐ PAH
- ☐ 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	_____ Water Supply Wells	_____ Air	2 Field Blank
70 Monitoring Wells	1 Surface Water	4 Duplicate	3 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 #: 07777,12352,07584 Facility Name: Clouds Chevron/College Corner

Implementation Schedule (Number of calendar days from approval)
Field Work Start-Up: 7/29/2021 Field Work Completion: 8/29/2021
Report Submittal: 9/29/2021 # of Copies Provided to Property Owners: _____

Aquifer Characterization
Pump Test: ☐ Slug Test: ☐ (Check one and provide explanation below for choice)

Investigation Derived Waste Disposal
Soil: _____ Tons Purge Water: 300.0 Gallons
Drilling Fluids: _____ Gallons Free-Phase Product: _____ Gallons

Additional Details For This Scope of Work
For example, list wells to be sampled, wells to be abandoned/repaired, well pads/bolts/caps to replace, details of AFVR event, etc.

-During the initial site visit, monitoring wells MW-12, MW-13, MW-30, MW-38, MW-39, MW-40, MW-41, MW-42, MW-50, MW-54, MW-56, MW-58, MW-59, MW-60 MW-65, MW-67, DW-6, DW-7, DW-8 and DW-9 were unable to be located. If any of these wells are located during sampling activties, they will be sampled accordingly.

-MW-7 and DW-3 are in need of lids. If possible, MECI will replace the libs.

-Only monitoring wells which do not bracket the watertable will be purged prior to sample collection.

-Samples will be analyzed for BTEXNM, 8-OXY, 1,2-DCA (8260D) and EDB (8011).

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: _____

N/A Well Driller as indicated in ACQAP? (Yes/No) If no, indicate driller information below.
Name of Well Driller: _____
SCLLR Certification Number: _____

None 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

dhec
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ASSESSMENT COMPONENT COST AGREEMENT
SOUTH CAROLINA
Department of Health and Environmental Control
Underground Storage Tank Management Division
State Underground Petroleum Environmental Response Bank Account
CONTRACT PO # 4600830568

Facility Name: Clouds Chevron/College Corner
UST Permit #: 07777,12352, 07584 **Cost Agreement #:** Proposal

ITEM	QUANTITY	UNIT	UNIT PRICE		TOTAL
A. **Plan Preparation**					
1. Site Specific Work Plan	1	each	$425.00		$425.00
2. Tax Map		each	$50.00		$0.00
B. Receptor Survey		each	$50.00		$0.00
D. Mob/Demob					
2. Personnel	4	each	$610.00		$2,440.00
J. **Groundwater Sample Collection / Gauge Depth to Water or Product (Each)**					
1. Groundwater Purge	9	per well	$10.00		$90.00
2. Air or Vapors		per sample	$1.00		$0.00
3. Water Supply Sample		per sample	$40.00		$0.00
4. Groundwater No Purge/Surface Water	62	per sample	$8.00		$496.00
R-1. HydraSleeve		per sample	$23.00		$0.00
5. Gauge Welll only		per data point	$1.00		$0.00
6. Sample Below Product		per well	$1.80		$0.00
7. Passive Diffusion Bag		per well	$25.00		$0.00
9. Groundwater (low flow purge)		per well	$25.00		$0.00
10. Equipment Blank		per day	$10.00		$0.00
Q. **Disposal (gallons or tons)**					
1. Wastewater	300	per gallon	$0.33		$99.00
2. Free Product		per gallon	$0.05		$0.00
R. **Miscellaneous**					
2. Additional Potentiometric Map		each above required two	$10.00		$0.00
3. Isopleth Map		each above required one	$50.00		$0.00
4. Data Table		per data set	$100.00		$0.00
5. Redraw/Digitize Site Map		each	$150.00		$0.00
6.Replace Well Lid	2	each	$10.00		$20.00
Y. **Well Repair**					
1. Additional Copies of Report Delivered		per copy	$10.00		$0.00
5. Replace well cover bolts		each	$6.00		$0.00
6. Replace locking well cap & lock		each	$10.00		$0.00
10. Replace missing/illegible well ID plate		each	$10.00		$0.00
Subtotal					**$3,570.00**
S. Report Preparation/Project Coordination		Percent of Subtotal	0%		
TOTAL					**$3,570.00**

FIGURE 1

Site Location Map
Handy Pantry #65 / University Mart / Clouds Chevron
Intersection of Taylor Street and Two Notch Road
Columbia, South Carolina



CRAWFORD ENVIRONMENTAL SERVICES

1701 Shenandoah Avenue, NW
Roanoke Virginia, 24017

540-343-6256 (office) 540-343-6259 (fax)

NORTH COLUMBIA, SOUTH CAROLINA

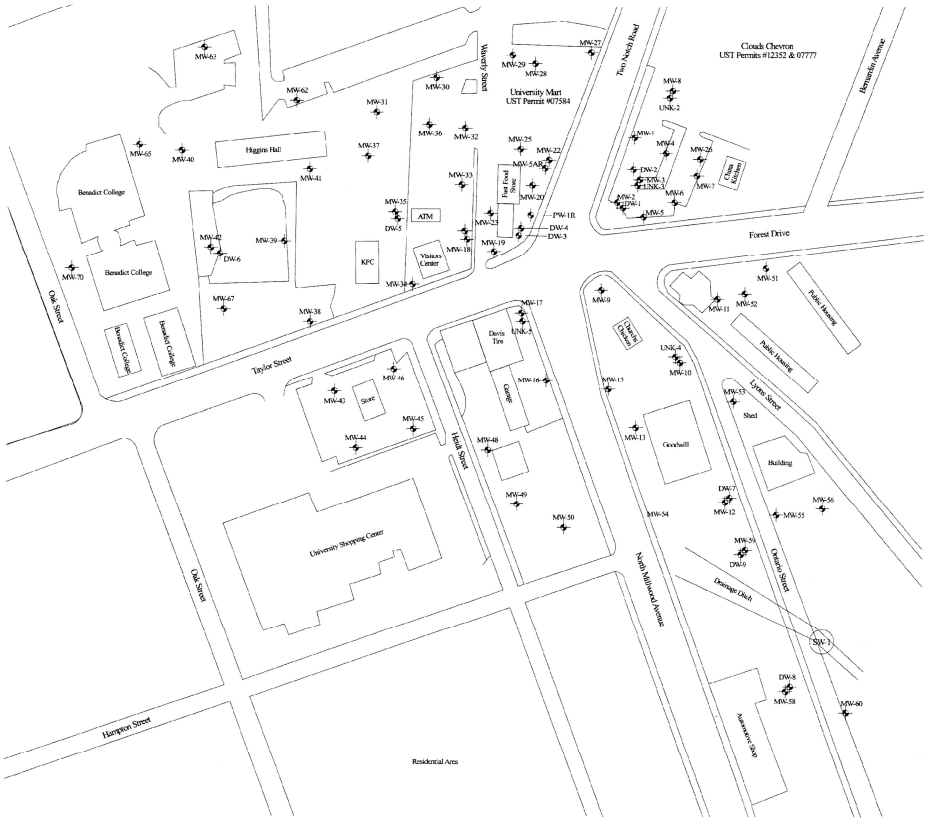
Source: U.S.G.S. Topographic Map of the Columbia North Quadrangle, Virginia, 7.5 Minute Series (1977, revised 1988)
Scale: 1:24,000 Contour Interval: 20 Feet
Vertical Datum: National Geodetic Vertical Datum 1929
Horizontal Datum: North American Datum1927

Project: August 2019 CASE Report

Client: SCDHEC

CES Job #: 7.0547

Latitude:
034°00'42.72"N
Longitude:
081°01'00.13"W



CRAWFORD ENVIRONMENTAL SERVICES

CLIENT: SCDHEC	Figure 2
LOCATION: Taylor Street and Two Notch Road Columbia, South Carolina	

Cloud's Chevron
Site Facility Base Map

August 2019 Case Report

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UST DOCKETING

NOV 05 2021

MR BRYAN SHANE PG
MIDLANDS ENVIRONMENTAL CONSULTANTS
PO BOX 854
LEXINGTON SC 29071

Re: Notice to Proceed Site-Specific Work Plan (SSWP) Approval
Groundwater Sampling Contract
Solicitation #IFB-5400021335, PO #4600830568
Cloud's Chevron, 1600 Two Notch Road, Columbia, SC
UST Permit #**07777;** MECI CA #63209; Pace CA #63210
Cloud's Chevron, 1600 Two Notch Road, Columbia, SC
UST Permit #**12352**; MECI CA #63211; Pace CA #63212
College Corner, 2367 Taylor Street, Columbia, SC
UST Permit #**07584**; Rls#1-MECI CA#63205; PACE CA#63206; Rls#2- MECI CA#63207; PACE CA#63208
Horry County

Dear Mr. Shane:

In accordance with bid solicitation #IFB-5400021335, the SSWP has been reviewed and approved. A status report of the project should be provided on a weekly basis. If any quality assurance problems arise, you must contact me within 24 hours by phone or email.

Please coordinate access to the facility with the property owner. **Sampling should be conducted within 30 calendar days from the date of this letter. If the final report is not submitted within 60 days of the date of this correspondence, a late fee may be imposed.** The final report is to be submitted to the contract manager.

If you have any site-specific questions, please contact me by email wykeljm@dhec.sc.gov or phone (803) 898-7705. If you have any contract specific questions, please contact Matt Wykel by email wykeljm@dhec.sc.gov or phone (803) 898-7705.

Sincerely,

Matt Wykel, Hydrogeologist
Corrective Action & Quality Assurance Section
UST Management Division
Bureau of Land & Waste Management

Enc: Approved Cost Agreements (8 CA's)

Cc: Ms. Lindsey Wooten, Pace Analytical Services, 9800 Kincey Ave, STE 100, Huntersville, NC, 28078 (w/ CA)
Technical File (w/ Enc)

Approved Cost Agreement 63208

Facility: 07584 COLLEGE CORNER
WYKELJM
PO Number:

Task / Description	Categories	Item	Description	Qty / Pct	Unit Price	Amount
K ANALYSES						
	GW GROUNDWATER	1	BTEXNM+OXYGS+1,2-DCA+ETH-8260B	20.2500	$26.000	526.50
		7	EDB BY EPA 8011	19.2500	$22.000	423.50
				Total Amount		950.00

Approved Cost Agreement 63207

Facility: 07584 COLLEGE CORNER
WYKELJM
PO Number:

Task / Description Categories	Item Description	Qty / Pct	Unit Price	Amount
A PLAN PREPARATION				
	1 SITE SPECIFIC WORK PLAN	0.2500	$425.000	106.25
D MOB/DEMOB				
	2 PERSONNEL	1.0000	$610.000	610.00
J SAMPLE COLLECTION				
	1 GROUND WATER PURGE	2.2500	$10.000	22.50
	4 GROUNDWATER NO-PURGE/DUPL/GRAB	15.5000	$8.000	124.00
Q DISPOSAL				
	1 WASTEWATER	75.0000	$0.330	24.75
R MISCELLANEOUS				
	6. REPLACE WELL LID	0.5000	$10.000	5.00
		Total Amount		892.50

Approved Cost Agreement 63206

Facility: 07584 COLLEGE CORNER
WYKELJM
PO Number:

Task / Description	Categories	Item	Description	Qty / Pct	Unit Price	Amount
K ANALYSES						
	GW GROUNDWATER	1	BTEXNM+OXYGS+1,2-DCA+ETH-8260B	20.2500	$26.000	526.50
		7	EDB BY EPA 8011	19.2500	$22.000	423.50
				Total Amount		950.00

Approved Cost Agreement 63205

Facility: 07584 COLLEGE CORNER
WYKELJM
PO Number:

Task / Description	Categories	Item	Description	Qty / Pct	Unit Price	Amount
A PLAN PREPARATION						
		1	SITE SPECIFIC WORK PLAN	0.2500	$425.000	106.25
D MOB/DEMOB						
		2	PERSONNEL	1.0000	$610.000	610.00
J SAMPLE COLLECTION						
		1	GROUND WATER PURGE	2.2500	$10.000	22.50
		4	GROUNDWATER NO-PURGE/DUPL/GRAB	15.5000	$8.000	124.00
Q DISPOSAL						
		1	WASTEWATER	75.0000	$0.330	24.75
R MISCELLANEOUS						
		6	REPLACE WELL LID	0.5000	$10.000	5.00
				Total Amount		892.50

Approved Cost Agreement 63212

Facility: 12352 CLOUDS CHEVRON
WYKELJM
PO Number:

Task / Description	Categories	Item	Description	Qty / Pct	Unit Price	Amount
K ANALYSES						
	GW GROUNDWATER	1	BTEXNM+OXYGS+1,2-DCA+ETH-8260B	20.2500	$26.000	526.50
		7	EDB BY EPA 8011	19.2500	$22.000	423.50
				Total Amount		950.00

Approved Cost Agreement 63211

Facility: 12352 CLOUDS CHEVRON
WYKELJM
PO Number:

Task / Description	Categories	Item	Description	Qty / Pct	Unit Price	Amount
A	PLAN PREPARATION					
		1	SITE SPECIFIC WORK PLAN	0.2500	$425.000	106.25
D	MOB/DEMOB					
		2	PERSONNEL	1.0000	$610.000	610.00
J	SAMPLE COLLECTION					
		1	GROUND WATER PURGE	2.2500	$10.000	22.50
		4	GROUNDWATER NO-PURGE/DUPL/GRAB	15.5000	$8.000	124.00
Q	DISPOSAL					
		1	WASTEWATER	75.0000	$0.330	24.75
R	MISCELLANEOUS					
		6	REPLACE WELL LID	0.5000	$10.000	5.00
				Total Amount		892.50

Approved Cost Agreement 63210

Facility: 07777 CLOUDS CHEVRON
WYKELJM
PO Number:

Task / Description	Categories	Item Description	Qty / Pct	Unit Price	Amount
K ANALYSES					
	GW GROUNDWATER	1 BTEXNM+OXYGS+1,2-DCA+ETH-8260B	20.2500	$26.000	526.50
		7 EDB BY EPA 8011	19.2500	$22.000	423.50
			Total Amount		950.00

Approved Cost Agreement 63209

Facility: 07777 CLOUDS CHEVRON
WYKELJM
PO Number:

Task / Description Categories	Item Description	Qty / Pct	Unit Price	Amount
A PLAN PREPARATION				
	1 SITE SPECIFIC WORK PLAN	0.2500	$425.000	106.25
D MOB/DEMOB				
	2 PERSONNEL	1.0000	$610.000	610.00
J SAMPLE COLLECTION				
	1 GROUND WATER PURGE	2.2500	$10.000	22.50
	4 GROUNDWATER NO-PURGE/DUPL/GRAB	15.5000	$8.000	124.00
Q DISPOSAL				
	1 WASTEWATER	75.0000	$0.330	24.75
R MISCELLANEOUS				
	6. REPLACE WELL LID	0.5000	$10.000	5.00
		Total Amount		892.50

MONITORING REPORT

Cloud's Chevron/College Corner
Two Notch Road & Taylor Street
Columbia, South Carolina
Richland County
UST Permit# 07777, 12352, 07584; CA# 63209, 63211, 63205, 63207
Solicitation# IFB-5400021335; PO# 4600830568

Prepared By:

Midlands Environmental Consultants, Inc.
231 Dooley Road, Lexington, SC 29073
(803) 808-2043 fax: 808-2048

December 2, 2021

MECI Project No. 21-7651

Midlands Environmental Consultants, Inc.

December 2, 2021

Mr. Matt Wykel, Hydrogeologist
Corrective Action Section
Underground Storage Tank Program
Bureau of Land and Waste Management
South Carolina Department of Health
and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

Subject: Report of Groundwater Sampling
Cloud's Chevron/College Corner
Two Notch Road & Taylor Street
Columbia, South Carolina
Richland County
UST Permit# 07777, 12352, 07584; CA# 63209, 63211, 63205, 63207
MECI Project Number 21-7651
Certified Site Rehabilitation Contractor UCC-0009

Dear Mr. Wykel,

Midlands Environmental Consultants Inc. (MECI) is pleased to submit the attached Report of Groundwater Sampling for the referenced site. This report describes site activities conducted at the site in general accordance with South Carolina Department of Health and Environmental Control's (SCDHEC) Quality Assurance Program Plan for the Underground Storage Tank Management Division (QAPP).

Midlands Environmental appreciates the opportunity to offer our professional environmental services to you on this project. Please feel free to contact us at 803-808-2043 if you have any immediate questions or comments.

Sincerely,
Midlands Environmental Consultants, Inc.

Jeff L. Coleman
Senior Scientist

COLIN PHILLIPS REGISTERED No. 2811 SOUTH CAROLINA PROFESSIONAL GEOLOGIST

Colin M. Phillips, P.G.
Project Geologist

Post Office Box 854, Lexington, SC 29071 • 231 Dooley Road, Lexington, SC 29073
Telephone: (803) 808-2043 • Fax: (803) 808-2048

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3.0 SAMPLING AND CHEMICAL ANALYSES **3**

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Table 2 – SITE ACTIVITY SUMMARY

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Figure 2 – SITE BASE MAP
Figure 3 – GROUNDWATER COC SITE MAP
Figure 4 – POTENTIOMETRIC DATA SITE MAP

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APPENDIX B – TAX MAP DATA
APPENDIX C – DISPOSAL MANIFEST
APPENDIX D – ACCESS AGREEMENTS
APPENDIX E – DATA VERIFICATION CHECKLIST
APPENDIX F – PHOTOS

1.0 INTRODUCTION

i. **Facility Information (UST#07777&12352)**

Name:	Cloud's Chevron
Address:	1600 Two Notch Road, Columbia, SC 29204
Telephone #:	N/A

i. **Facility Information (UST#07584)**

Name:	College Corner
Address:	2367 Taylor Street, Columbia, SC 29204
Telephone #:	N/A

ii. **Owner/Operator Information (UST# 07777)**

Name	Wallace M. Scott
Address	76 Whiteford Way, Lexington, SC 29072
Telephone #	(803) 256-5300

ii. **Owner/Operator Information (UST #12352)**

Name	Jack & Alexandra Lee
Address	3733 Greenbriar Drive, Columbia, SC 29206
Telephone #	N/A

ii. **Owner/Operator Information (UST #07584)**

Name	Acme Petroleum & Fuel Company
Address	543 Cox Road Suite C, Gastonia, NC 28054
Telephone #	(704) 867-7281

iii. **Property Owner Information (UST#07777&12352)**

Name	MUSC Health
Tax Map #:	Richland County Tax Map#: R11412-09-14A
Address	2376 South Pine Street, Spartanburg, SC 29302
Telephone #	864-579-9356

iii. **Property Owner Information (UST#07584)**

Name	Fast Point Food Stores, Inc.
Tax Map #:	Richland County Tax Map#: R11412-10-16
Address	2811 Reidville Road, Spartanburg, SC 29301
Telephone #	(864) 582-2378

iv. **Contractor Information**

Name:	Midlands Environmental Consultants, Inc.
Certification #:	9
Address:	P. O. Box 854, Lexington, SC 29071
Telephone #:	(803) 808-2043

v. Facility History

UST# 07777			
Release Date:		12/31/1991	
Estimated Quantity of Release:		Unknown	
Other Releases at Facility:		See 12352	
Release Ranking:		2AA	
Current Site Usage:		Parking Lot	
Tank #	**Capacity/Product**	**In Use/Abandoned**	**Tank Status**
1	8,000 Gal. Gasoline	Abandoned	Removed (5/28/1992)
2	8,000 Gal. Gasoline	Abandoned	Removed (5/28/1992)
3	5,000 Gal. Gasoline	Abandoned	Removed (5/28/1992)
4	5,000 Gal. Gasoline	Abandoned	Removed (5/28/1992)
UST# 12352			
Release Date:		12/30/1991	
Estimated Quantity of Release:		Unknown	
Release Ranking:		3BA	
Current Site Usage:		Parking Lot	
Tank #	**Capacity/Product**	**In Use/Abandoned**	**Tank Status**
1	500 Gal. Waste Oil	Abandoned	Removed (10/20/1993)
2	300 Gal. Gasoline	Abandoned	Removed (10/20/1993)
3	3,000 Gal. Gasoline	Abandoned	Removed (11/30/2006)
4	3,000 Gal. Gasoline	Abandoned	Removed (11/30/2006)
UST# 07584			
Release Date:		1/30/1991	
Estimated Quantity of Release:		Unknown	
Other Releases at Facility:		Release #2 (4/17/1998-Active);Release #3 (4/14/1999-NFA)	
Release Ranking:		2AA	
Current Site Usage:		Active Gas Station	
Tank #	**Capacity/Product**	**In Use/Abandoned**	**Tank Status**
1	10,000 Gal. Gasoline	Abandoned	Removed (1/11/1999)
2	10,000 Gal. Gasoline	Abandoned	Removed (1/11/1999)
3	10,000 Gal. Gasoline	Abandoned	Removed (1/11/1999)

2.0 RECEPTOR SURVEY & SITE DATA

i. Known Potential Receptors

Receptor ID#	**Notes**
SW-1	Collected from Creek (34.010886, -81.014443)

ii. Receptor Survey Results

A receptor survey was not requested as part of the approved cost agreement.

iii. Site/Adjacent Land Usage (Residential, Commercial, Agricultural, Industrial, etc.)

Site	Commercial
North	Commercial
South	Commercial
East	Commercial
West	Commercial
Permit #'s of UST Sites within 1,000' feet of site	07584, 18389

3.0 SAMPLING AND CHEMICAL ANALYSES

On November 15, 2021, MECI personnel collected groundwater samples from seventy (53) monitoring wells and one (1) surface water location at the subject site. Five (5) monitoring wells (MW-1, MW-5, MW-52, MW-56 & DW-2) were gauged during sampling activities and found to be obstructed and dry. In addition, monitoring wells MW-12, MW-13, MW-34, MW-38, MW-39, MW-40, MW-42, MW-54, MW-58, MW-59, MW-60, MW-65, MW-67, MW-70, DW-6, DW-7 and DW-8 were unable to be found during sampling activities. Based on a request from SCDHEC, only monitoring wells which did not bracket the watertable were to be purged prior to sample collection. Thirteen (13) monitoring wells were purged prior to sample collection.

MECI personnel utilized an electronic water level indicator for water level measurements and an oil/water interface probe for free phase petroleum product level measurements. Where applicable, purging was completed by bailing at least five well volumes of water from the well, until pH, conductivity, dissolved oxygen and turbidity stabilized, or all water was evacuated from the well, whichever occurred first. Sampling/purging was completed utilizing a prepackaged, clear, disposable polyethylene bailer and nylon rope. A new set of nitrile gloves were worn at each monitoring well, and at all time samples were handled. Field measurements of pH, conductivity, dissolved oxygen, and water temperature were obtained before well sampling process. MECI utilized a YSI Pro20 meter for DO (mg/L) and temperature readings (°C), YSI Pro1030 meter for pH and conductivity (uS) readings and a MicroTPI turbidimeter for turbidity readings (NTU). The attached Field Data Information Sheets presents the results of the field measurements obtained. The wells were sampled in accordance with the most recent revision of SCDHEC's Quality Assurance Program Plan for the Underground Storage Tank Management Division and the most recent revision MECI's Standard Operating Procedures.

Groundwater samples obtained were sent to Pace Analytical Services, Inc. of Huntersville, NC (SCDHEC Laboratory Certification #99006001) for analysis.

The following sampling matrix contains well development and requested analyses for each well:

Sample ID	Purge	No Purge	Gauge Only	Low-Flow Sampling	Not Sampled	Not Located	BTEX, Naphthalene, MTBE, 1,2 DCA (EPA Method 8260D)	8 Oxygenates (EPA Method 8260D)	EDB (EPA Method 8011)	PAHs (EPA Method 8270E)	Total Lead (EPA Method 6010)	BTEX, Naphthalene, MTBE, 1,2 DCA (EPA Method 524.2)	EDB (EPA Method 504.1)
							Analyte Sampled						
MW-1			X										
MW-2		X					X	X	X				
MW-3		X					X	X	X				
MW-4		X					X	X	X				

Notes: BTEX = Benzene, Toluene, Ethylbenzene, & Total Xylenes
MTBE=Methyl tertiary butyl ether
1,2 DCA = 1,2 Dichloroethane
EDB = Ethylene Dibromide

Sample ID	Purge	No Purge	Gauge Only	Low-Flow Sampling	Not Sampled	Not Located	BTEX, Naphthalene, MTBE, 1,2 DCA (EPA Method 8260D)	8 Oxygenates (EPA Method 8260D)	EDB (EPA Method 8011)	PAHs (EPA Method 8270E)	Total Lead (EPA Method 6010)	BTEX, Naphthalene, MTBE, 1,2 DCA (EPA Method 524.2)	EDB (EPA Method 504.1)
							Analyte Sampled						
MW-5			X										
MW-6		X					X	X	X				
MW-7		X					X	X	X				
MW-8		X					X	X	X				
MW-9		X					X	X	X				
MW-10		X					X	X	X				
MW-11	X						X	X	X				
MW-12						X							
MW-13						X							
MW-15		X					X	X	X				
MW-16		X					X	X	X				
MW-17		X					X	X	X				
MW-18		X					X	X	X				
MW-19		X					X	X	X				
MW-20		X					X	X	X				
MW-22		X					X	X	X				
MW-23		X					X	X	X				
MW-25	X						X	X	X				
MW-26		X					X	X	X				
MW-27		X					X	X	X				
MW-28		X					X	X	X				
MW-29		X					X	X	X				
MW-30		X					X	X	X				
MW-31		X					X	X	X				
MW-32		X					X	X	X				
MW-33		X					X	X	X				
MW-34						X							
MW-35		X					X	X	X				
MW-36		X					X	X	X				
MW-37		X					X	X	X				
MW-38						X							
MW-39						X							
MW-40						X							
MW-41		X					X	X	X				
MW-42						X							
MW-43		X					X	X	X				
MW-44		X					X	X	X				
MW-45		X					X	X	X				
MW-46		X					X	X	X				
MW-48		X					X	X	X				
MW-49		X					X	X	X				
MW-50		X					X	X	X				
MW-51		X					X	X	X				

Notes: **BTEX = Benzene, Toluene, Ethylbenzene, & Total Xylenes**
MTBE=Methyl tertiary butyl ether
1,2 DCA = 1,2 Dichloroethane
EDB = Ethylene Dibromide

Sample ID	Purge	No Purge	Gauge Only	Low-Flow Sampling	Not Sampled	Not Located	BTEX, Naphthalene, MTBE, 1,2 DCA (EPA Method 8260D)	8 Oxygenates (EPA Method 8260D)	EDB (EPA Method 8011)	PAHs (EPA Method 8270E)	Total Lead (EPA Method 6010)	BTEX, Naphthalene, MTBE, 1,2 DCA (EPA Method 524.2)	EDB (EPA Method 504.1)
							Analyte Sampled						
MW-52			X										
MW-53		X					X	X	X				
MW-54						X							
MW-55	X						X	X	X				
MW-56			X										
MW-58						X							
MW-59						X							
MW-60						X							
MW-62		X					X	X	X				
MW-63		X					X	X	X				
MW-65						X							
MW-67						X							
MW-70						X							
MW-5AR		X					X	X	X				
PW-1R	X						X	X	X				
DW-1	X						X	X	X				
DW-2			X										
DW-3	X						X	X	X				
DW-4	X						X	X	X				
DW-5	X						X	X	X				
DW-6						X							
DW-7						X							
DW-8						X							
DW-9	X						X	X	X				
UNK-1	X						X	X	X				
UNK-2					X								
UNK-3	X						X	X	X				
UNK-4	X						X	X	X				
UNK-5	X						X	X	X				
SW-1		X					X	X	X				
DUP-1							X	X	X				
DUP-2							X	X	X				
DUP-3							X	X	X				
Field Blank							X	X	X				
Trip Blank 1							X	X					
Trip Blank 2							X	X					

Notes: BTEX = Benzene, Toluene, Ethylbenzene, & Total Xylenes
MTBE=Methyl tertiary butyl ether
1,2 DCA = 1,2 Dichloroethane
EDB = Ethylene Dibromide

Purge water produced by the purging process was treated on-site utilizing a granular activated carbon unit. A total of 243.50 gallons of purge water was disposed of in this manner. A disposal manifest for the referenced purge water is attached in Appendix C and the required Post-GAC laboratory results in presented in Appendix B.

4.0 RESULTS AND DISCUSSION

- The apparent groundwater flow from the release is semi-radial to the south and northwest.

- Free phase petroleum product was not detected in any of the monitoring wells during sampling activities. The analytical results indicate petroleum impact to the surficial aquifer with the highest dissolved concentrations being detected in MW-3 and MW-5AR. Of the fifty-four sampling locations analyzed, twenty-five samples (MW-2, MW-3, MW-9, MW-10, MW-18, MW-19, MW-20, MW-22, MW-23, MW-25, MW-31, MW-33, MW-35, MW-36, MW-55, MW-62, MW-5AR, UNK-1, UNK-3, UNK-4, UNK-5, PW-1R, DW-3, DW-5 & SW-1) detected petroleum constituents above Risked Based Screening Levels (RBSL's).

- Petroleum constituents detected above the established RBSL include:

Compound	*RBSL/SCAL (ug/l)*	*Wells Above RBSL*
Product	0.01'	N/A
Benzene	5	MW-2, MW-3, MW-9, MW-10, MW-18, MW-19, MW-20, MW-22, MW-23, MW-25, MW-31, MW-33, MW-35, MW-55, MW-62, MW-5AR, UNK-1, UNK-3, UNK-4, PW-1R, DW-3, DW-5 & SW-1
Toluene	1,000	MW-3, MW-9, MW-18, MW-19, MW-20, MW-22, MW-23 & DW-5
Ethylbenzene	700	MW-3, MW-18, MW-19, MW-20, MW-35, MW-5AR
Total Xylenes	10,000	MW-3, MW-19 & MW-20
Naphthalene	25	MW-2, MW-3, MW-9, MW-10, MW-18, MW-19, MW-20, MW-22, MW-23, MW-25, MW-31, MW-33, MW-35, MW-36, MW-55, MW-5AR, UNK-1, UNK-5, PW-1R, DW-3 & DW-5
MTBE	40	MW-2, MW-55, DW-3 & DW-5
1,2 DCA	5	N/A
EDB	0.05	MW-3, MW-18 & MW-19
TAA	240	MW-55, DW-3 & DW-5
TAME	128	N/A
ETBA	NE	RBSL Not Established
TBA	1,400	N/A
TBF	NE	RBSL Not Established
DIPE	150	DW-5
Ethanol	10,000	N/A
ETBE	47	N/A

- In order to assess precision, field duplicate samples were collected and analyzed along with the reviewed batch samples. The duplicated samples were analyzed for the same parameters as the associated parent samples. Precision is determined by calculating the Relative Percent Differences (RPD) between each pair of samples. The RPD control limit for the groundwater samples is 20%. Duplicate samples were collected from parent samples MW-10, MW-55 and UNK-1. The precision for the target analytes were met for these sample pairs and the analytical results detected the same compounds at similar concentrations. Furthermore, field blanks and trip blanks were collected and submitted during the groundwater sampling activities. No detectable concentrations of the requested method constituents were reported in either of the field or trip blanks.

5.0 QUALIFICATIONS OF REPORT

The activities and evaluative approaches used in this assessment are consistent with those normally employed in hydrogeological assessment and waste management projects of this type. Our evaluation of site conditions has been based on our understanding of the site, project information provided to us, and data obtained in our exploration. Contents of this report are intended for the sole use of MECI and SCDHEC under mutually agreed upon terms and conditions. If other parties wish to rely on this report, please contact MECI prior to their use of

this information so that a mutual understanding and agreement of the terms and conditions of our services can be established.

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TABLES

Table # 1
Summary of Analytical Results - Water Samples
CLOUDS CHEVRON
Facility ID#'S 07777, 12352, 07584

Analytical Method		EPA 8011	EPA 8260D																
Sample ID	Constituent of Concern	1,2-Dibromoethane (EDB)	1,2-Dichloroethane	3,3-Dimethyl-1-Butanol	Benzene	Diisopropyl ether	Ethanol	Ethyl-tert-butyl ether	Ethylbenzene	Methyl-tert-butyl ether	Naphthalene	Toluene	Xylene (Total)	m&p-Xylene	o-Xylene	tert-Amyl Alcohol	tert-Amylmethyl ether	tert-Butyl Alcohol	tert-Butyl Formate
	Date Collected (mm/dd/yy)	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
DUP-1	11/15/2021	<0.0070	<4.1	<108	**5.5 J**	<7.0	<288	<16.9	135	<6.2	**137**	10.1	450	398	52.2	<131	<6.1	<182	<48.2
DUP-2	11/15/2021	<0.0069	<20.6	<539	**211**	<34.9	<1440	<84.6	156	<31.0	**101**	996	1600	931	673	<656	<30.4	<910	<241
DUP-3	11/15/2021	<0.0070	<5.2	<135	**277**	20.5	<360	<21.2	379	**58.2**	**114**	45.8	503	470	32.9	**945**	<7.6	<228	<60.2
DW-1	11/15/2021	<0.0067	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
DW-3	11/15/2021	<0.0068	<10.3	<270	**791**	103	<720	<42.3	265	**84.9**	**137**	16.2 J	792	792	<10.2	**2090**	30.3 J	<455	<120
DW-4	11/15/2021	<0.0070	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
DW-5	11/15/2021	<0.0069	<51.5	<1350	**3840**	**250**	<3600	<212	534	**337**	**253**	**2260**	2890	1860	1030	**5370**	<76.0	<2280	<602
DW-9	11/15/2021	<0.0067	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
FB	11/15/2021	<0.0068	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-10	11/15/2021	<0.0070	<4.1	<108	**5.2 J**	<7.0	<288	<16.9	123	<6.2	**131**	9.2 J	410	364	46.7	<131	<6.1	<182	<48.2
MW-11	11/15/2021	<0.0075	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-15	11/15/2021	<0.0075	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	3.4 J	<65.6	<3.0	<91.0	<24.1
MW-16	11/15/2021	<0.0074	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-17	11/15/2021	<0.0071	<2.1	<53.9	<1.7	<3.5	<144	<8.5	38.1	<3.1	25.0	57.9	106	22.9	83.3	<65.6	<3.0	<91.0	<24.1
MW-18	11/15/2021	**0.071**	<103	<2700	**933**	<174	<7200	<423	**917**	<155	**717**	**7420**	8550	5420	3130	<3280	<152	<4550	<1200
MW-19	11/15/2021	**0.43**	<206	<5390	**1460**	<349	<14400	<846	**1510**	<310	**1090**	**18600**	**17600**	11100	6530	<6560	<304	<9100	<2410
MW-2	11/15/2021	<0.0070	<4.1	<108	**16.1**	<7.0	<288	<16.9	85.1	**48.0**	**77.6**	<4.0	56.1	56.1	<4.1	<131	<6.1	<182	<48.2
MW-20	11/15/2021	<0.0068	<82.4	<2160	**396**	<140	<5760	<338	**1390**	<124	**1320**	**3070**	**12600**	10400	2180	<2620	<122	<3640	<964
MW-22	11/15/2021	<0.0071	<51.5	<1350	**1240**	<87.2	<3600	<212	333	<77.5	**701**	**4630**	8600	3660	4940	<1640	<76.0	<2280	<602
MW-23	11/15/2021	<0.0072	<20.6	<539	**148**	<34.9	<1440	<84.6	143	<31.0	**246**	**1180**	1780	1180	596	<656	<30.4	<910	<241
MW-25	11/15/2021	<0.0070	<2.1	<53.9	<1.7	<3.5	<144	<8.5	103	<3.1	**167**	5.0 J	134	89.6	44.5	<65.6	<3.0	<91.0	<24.1
MW-26	11/15/2021	<0.0068	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	8.0	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-27	11/15/2021	<0.0068	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-28	11/15/2021	<0.0069	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-29	11/15/2021	<0.0069	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-3	11/15/2021	**26.8**	<258	<6740	**3340**	<436	<18000	<1060	**1410**	<388	**768**	**22800**	**16100**	10200	5850	<8200	<380	<11400	<3010
MW-30	11/15/2021	<0.0069	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-31	11/15/2021	<0.0071	<2.1	<53.9	**7.4**	<3.5	<144	<8.5	76.8	<3.1	**138**	18.5	87.1	58.7	28.5	119	<3.0	<91.0	<24.1
MW-32	11/15/2021	<0.0069	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	9.8	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-33	11/15/2021	<0.0070	<2.1	<53.9	**14.2**	<3.5	<144	<8.5	8.8	<3.1	**91.7**	18.7	533	397	136	109	<3.0	<91.0	<24.1
MW-35	11/15/2021	<0.0070	<20.6	<539	**183**	<34.9	<1440	<84.6	**1610**	<31.0	**636**	337	1240	1040	200	<656	<30.4	<910	<241
MW-36	11/15/2021	<0.0068	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	**42.1**	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-37	11/15/2021	<0.0070	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-4	11/15/2021	<0.0070	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-41	11/15/2021	<0.0068	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-43	11/15/2021	<0.0068	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-44	11/15/2021	<0.0069	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-45	11/15/2021	<0.0069	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-46	11/15/2021	<0.0068	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-48	11/15/2021	<0.0068	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-49	11/15/2021	<0.0069	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-50	11/15/2021	<0.0068	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-51	11/15/2021	<0.0069	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-53	11/15/2021	<0.0070	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-55	11/15/2021	<0.0068	<5.2	<135	**280**	20.7	<360	<21.2	378	**69.9**	**113**	43.9	520	486	34.2	**901**	<7.6	<228	<60.2
MW-6	11/15/2021	<0.0069	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-62	11/15/2021	<0.0071	<2.1	<53.9	**8.6**	<3.5	<144	<8.5	<1.8	<3.1	18.3	<2.0	<5.0	<4.1	<2.0	146	<3.0	<91.0	<24.1
MW-63	11/15/2021	<0.0072	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-7	11/15/2021	<0.0068	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-8	11/15/2021	<0.0069	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-9	11/15/2021	<0.0069	<20.6	<539	**62.8**	<34.9	<1440	<84.6	508	<31.0	**202**	**1440**	2720	1960	758	<656	<30.4	<910	<241
MW-SAR	11/15/2021	<0.0069	<82.4	<2160	**4740**	<140	<5760	<338	**1110**	<124	**744**	110 J	346	346 J	<81.6	<2620	<122	<3640	<964
PW-1R	11/15/2021	<0.0070	<8.2	<216	**74.2**	<14.0	<576	<33.8	185	<12.4	**227**	58.3	1220	949	268	<262	<12.2	<364	<96.4
SW-1	11/15/2021	<0.0068	<0.32	<51.9	**58.3**	5.3	<72.2	<3.2	24.6	4.6	11.9	3.8	34.5	33.6	0.87 J	162	<2.7	<26.8	<29.4
TB-1	11/15/2021	N/A	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
TB-2	11/15/2021	N/A	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
UNK-1	11/15/2021	<0.0070	<10.3	<270	**229**	<17.4	<720	<42.3	135	<15.5	**67.9**	875	1470	835	640	<328	<15.2	<455	<120
UNK-3	11/15/2021	0.015 J	<2.1	<53.9	**24.9**	<3.5	<144	<8.5	<1.8	<3.1	8.8	25.0	133	80.5	52.5	<65.6	<3.0	<91.0	<24.1
UNK-4	11/15/2021	<0.0071	<2.1	<53.9	**9.2**	<3.5	<144	<8.5	32.8	<3.1	23.7	7.4	10.5	6.4 J	4.2 J	<65.6	<3.0	<91.0	<24.1
UNK-5	11/15/2021	<0.0071	<4.1	<108	<3.5	<7.0	<288	<16.9	144	<6.2	**105**	193	422	251	172	<131	<6.1	<182	<48.2
South Carolina RBSL for Groundwater		0.05	5	N/A	5	150	10000	47	700	40	25	1000	10000	N/A	N/A	240	128	1400	N/A
South Carolina Action Levels for Groundwater		N/A	N/A	N/A	N/A	150	10000	47	N/A	N/A	N/A	N/A	N/A	N/A	N/A	240	128	1400	N/A

NOTES:
ND = Not Detected
ft. BGS = feet below ground surface
mg/L = milligrams per liter
ug/L = micrograms per liter
Bold data above the RBSL (Risk Based Screening Level)

Table 2
Site Activity Summary

UST Permit #: 07777, 12352, 07584
Facility Name: Clouds Chevron & College Corner
County: Richland
Field Personnel: H. Sloan, C. Hansen, J. Canavan, M. Funderburk, T. Adorno, T. Brown

Midlands Environmental Consultants, Inc.

Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	TOC Elevation	Groundwater Elevation	Intial Dissolved Oxygen (mg/L)	# Gals. Purged	Comments
MW-1	N	11/15/21	NS	17-27	***	NS	***	99.75	NS	NS	0.00	Well Obstructed @ 18.00' BTOC, Well Dry
MW-2	Y	11/15/21	14:07	20-30	***	22.71	***	100.47	77.76	1.96	0.00	Strong Odor
MW-3	Y	11/15/21	14:23	19-29	***	22.09	***	100.32	78.23	2.19	0.00	Strong Odor
MW-4	Y	11/15/21	14:17	18-28	***	21.29	***	100.75	79.46	3.80	0.00	No Odor
MW-5	N	11/15/21	DRY	16-26	***	DRY	***	100.69	DRY	DRY	0.00	Well Gauged Dry
MW-6	Y	11/15/21	12:45	20-30	***	23.03	***	100.84	77.81	2.93	0.00	No Odor
MW-7	Y	11/15/21	13:00	20-30	***	23.42	***	101.79	78.37	3.56	0.00	No Odor; Replaced Well Lid
MW-8	Y	11/15/21	12:50	18.5-28.5	***	22.48	***	100.67	78.19	3.82	0.00	No Odor
MW-9	Y	11/15/21	9:58	20-30	***	20.84	***	97.40	76.56	1.00	0.00	Odor
MW-10	Y	11/15/21	9:33	18-28	***	18.13	***	92.29	74.16	1.37	0.00	Strong Odor
MW-11	Y	11/15/21	9:41	T.D. 30.00	***	18.54	***	94.79	76.25	3.00	9.50	No Odor
MW-12	N	11/15/21	NL	T.D. 24.65	***	NL	***	79.10	NL	NL	0.00	Not Located (Reportedly Paved Over)
MW-13	N	11/15/21	NL	T.D. 30.10	***	NL	***	87.17	NL	NL	0.00	Not Located (Reportedly Paved Over)
MW-15	Y	11/15/21	10:07	15-25	***	16.22	***	92.45	76.23	0.84	0.00	No Odor
MW-16	Y	11/15/21	12:07	15-25	***	17.97	***	94.45	76.48	2.47	0.00	No Odor
											9.50	**TOTAL GALLONS PURGED**

Table 2
Site Activity Summary

UST Permit #: 07777, 12352, 07584
Facility Name: Clouds Chevron & College Corner
County: Richland
Field Personnel: H. Sloan, C. Hansen, J. Canavan, M. Funderburk, T. Adorno, T. Brown

Midlands Environmental Consultants, Inc.

Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	TOC Elevation	Groundwater Elevation	Intial Dissolved Oxygen (mg/L)	# Gals. Purged	Comments
MW-17	Y	11/15/21	12:16	20-30	***	22.18	***	98.80	76.62	2.28	0.00	Odor
MW-18	Y	11/15/21	11:43	20-30	***	22.58	***	100.99	78.41	2.68	0.00	Strong Odor
MW-19	Y	11/15/21	11:08	20-30	***	23.57	***	100.20	76.63	0.86	0.00	Strong Odor
MW-20	Y	11/15/21	10:12	15-25	***	22.55	***	100.36	77.81	2.43	0.00	Odor
MW-22	Y	11/15/21	10:33	20-30	***	22.01	***	100.00	77.99	1.96	0.00	Odor
MW-23	Y	11/15/21	11:27	20-30	***	25.02	***	100.20	75.18	3.58	0.00	Strong Odor
MW-25	Y	11/15/21	11:36	TD: 25.60	***	20.80	***	98.73	77.93	2.07	4.00	Odor
MW-26	Y	11/15/21	14:31	TD: 30.00	***	20.34	***	101.72	81.38	2.61	0.00	Slight Odor
MW-27	Y	11/15/21	11:14	15-30	***	19.31	***	98.74	79.43	3.40	0.00	Slight Odor
MW-28	Y	11/15/21	10:39	15-30	***	19.11	***	97.19	78.08	0.49	0.00	No Odor
MW-29	Y	11/15/21	10:48	15-30	***	19.25	***	96.86	77.61	2.48	0.00	No Odor
MW-30	Y	11/15/21	10::43	20-35	***	21.62	***	98.50	76.88	2.18	0.00	Odor
MW-31	Y	11/15/21	12:20	20-35	***	25.00	***	101.51	76.51	1.44	0.00	Odor
MW-32	Y	11/15/21	12:09	15-30	***	22.00	***	99.16	77.16	2.33	0.00	No Odor
MW-33	Y	11/15/21	11:52	20-35	***	24.02	***	100.11	76.09	2.40	0.00	Strong Odor
											4.00	**TOTAL GALLONS PURGED**

Table 2
Site Activity Summary

UST Permit #: 07777, 12352, 07584
Facility Name: Clouds Chevron & College Corner
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Midlands Environmental Consultants, Inc.

Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	TOC Elevation	Groundwater Elevation	Intial Dissolved Oxygen (mg/L)	# Gals. Purged	Comments
MW-34	N	11/15/21	NL	20-35	***	NL	***	101.00	NL	NL	0.00	Not Located
MW-35	Y	11/15/21	12:19	20-35	***	23.52	***	100.02	76.50	1.97	0.00	Strong Odor
MW-36	Y	11/15/21	12:15	20-35	***	22.40	***	100.18	77.78	2.49	0.00	Odor
MW-37	Y	11/15/21	12:25	20-35	***	23.41	***	100.09	76.68	3.42	0.00	No Odor
MW-38	N	11/15/21	NL	20-35	***	NL	***	101.76	NL	NL	0.00	Not Located
MW-39	N	11/15/21	NL	20-35	***	NL	***	102.44	NL	NL	0.00	Not Located
MW-40	N	11/15/21	NL	20-35	***	NL	***	101.97	NL	NL	0.00	Not Located
MW-41	Y	11/15/21	12:49	20-35	***	25.39	***	101.08	75.69	4.56	0.00	No Odor
MW-42	N	11/15/21	NL	20-35	***	NL	***	102.07	NL	NL	0.00	Not Located
MW-43	Y	11/15/21	11:53	20-40	***	23.85	***	101.34	77.49	4.51	0.00	No Odor
MW-44	Y	11/15/21	11:49	16-31	***	22.09	***	100.78	78.69	4.27	0.00	No Odor
MW-45	Y	11/15/21	11:41	15-30	***	21.21	***	98.70	77.49	4.58	0.00	No Odor
MW-46	Y	11/15/21	11:44	20-35	***	23.55	***	100.65	77.10	5.43	0.00	No Odor
MW-48	Y	11/15/21	11:30	15-30	***	19.17	***	96.11	76.94	3.52	0.00	No Odor
MW-49	Y	11/15/21	11:33	15-30	***	16.35	***	94.47	78.12	4.29	0.00	No Odor
											0.00	**TOTAL GALLONS PURGED**

Table 2
Site Activity Summary

UST Permit #: 07777, 12352, 07584
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Midlands Environmental Consultants, Inc.

Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	TOC Elevation	Groundwater Elevation	Intial Dissolved Oxygen (mg/L)	# Gals. Purged	Comments
MW-50	Y	11/15/21	11:25	15-30	***	15.26	***	90.37	75.11	1.16	0.00	No Odor
MW-51	Y	11/15/21	9:50	20-35	***	23.55	***	100.26	76.71	2.82	0.00	No Odor
MW-52	N	11/15/21	NS	5-20	***	NS	***	96.49	NS	NS	0.00	Well Obstructed @ 16.30' BTOC, Well gauged dry
MW-53	Y	11/15/21	10:27	5-20	***	10.28	***	85.91	75.63	4.60	0.00	No Odor
MW-54	N	11/15/21	NL	5-20	***	NL	***	84.18	NL	NL	0.00	Not Located
MW-55	Y	11/15/21	10:53	4-14	***	2.63	***	77.53	74.90	0.82	9.50	Odor
MW-56	N	11/15/21	NS	5-20	***	NS	***	82.68	NS	NS	0.00	Well obstructed @ 7.78' BTOC, No Pad/Lid or Cap on Well
MW-58	N	11/15/21	NL	4-19	***	NL	***	79.61	NL	NL	0.00	Not Located
MW-59	N	11/15/21	NL	2-17	***	NL	***	74.99	NL	NL	0.00	Not Located
MW-60	N	11/15/21	NL	4-14	***	NL	***	74.16	NL	NL	0.00	Not Located
MW-62	Y	11/15/21	12:59	20-35	***	23.52	***	99.44	75.92	2.86	0.00	No Odor
MW-63	Y	11/15/21	12:52	20-35	***	23.96	***	99.34	75.38	3.06	0.00	No Odor
MW-65	N	11/15/21	NL	20-35	***	NL	***	100.02	NL	NL	0.00	Not Located
MW-67	N	11/15/21	NL	20-35	***	NL	***	102.65	NL	NL	0.00	Not Located
MW-70	N	11/15/21	NL	20-35	***	NL	***	101.60	NL	NL	0.00	Not Located
											9.50	**TOTAL GALLONS PURGED**

Table 2
Site Activity Summary

UST Permit #: 07777, 12352, 07584
Facility Name: Clouds Chevron & College Corner
County: Richland
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Midlands Environmental Consultants, Inc.

Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	TOC Elevation	Groundwater Elevation	Intial Dissolved Oxygen (mg/L)	# Gals. Purged	Comments
MW-5AR	Y	11/15/21	10:37	18-28	***	22.15	***	99.94	77.79	1.86	0.00	No Odor
PW-1R	Y	11/15/21	13:52	45-50	***	23.12	***	100.00	76.88	2.29	53.00	Strong Odor
DW-1	Y	11/15/21	14:09	65-70	***	44.59	***	100.57	55.98	3.73	21.00	No Odor
DW-2	N	11/15/21	NS	70-75	***	NS	***	99.90	NS	NS	0.00	Obstructed @ 8.98' BTOC, Well gauged dry
DW-3	Y	11/15/21	10:34	47-52	***	25.11	***	100.06	74.95	3.17	22.00	Strong Odor
DW-4	Y	11/15/21	10:03	105-110	***	48.15	***	100.13	51.98	3.12	50.50	No Odor
DW-5	Y	11/15/21	9:59	65-70	***	48.97	***	102.12	53.15	2.23	17.50	Odor
DW-6	N	11/15/21	NL	65-70	***	NL	***	99.98	NL	NL	0.00	Not Located
DW-7	N	11/15/21	NL	50-55	***	NL	***	79.11	NL	NL	0.00	Not Located
DW-8	N	11/15/21	NL	50-55	***	NL	***	74.30	NL	NL	0.00	Not Located
DW-9	Y	11/15/21	11:00	60-65	***	23.22	***	79.55	56.33	0.55	34.00	Odor
UNK-1	Y	11/15/21	12:13	TD: 29.87	***	24.17	***	100.56	76.39	4.74	5.00	Odor
UNK-2	N	11/15/21	ABN.	Unknown	***	ABN.	***	Unknown	ABN.	ABN.	0.00	ABN. = Well Abandoned
UNK-3	Y	11/15/21	14:18	TD: 27.23	***	20.50	***	100.30	79.80	3.21	3.50	No Odor
UNK-4	Y	11/15/21	11:17	TD: 21.40	***	16.40	***	Unknown	Unknown	2.09	10.00	Slight Odor, 4" Diameter Well
											216.50	**TOTAL GALLONS PURGED**

Table 2
Site Activity Summary

UST Permit #: 07777, 12352, 07584
Facility Name: Clouds Chevron & College Corner
County: Richland
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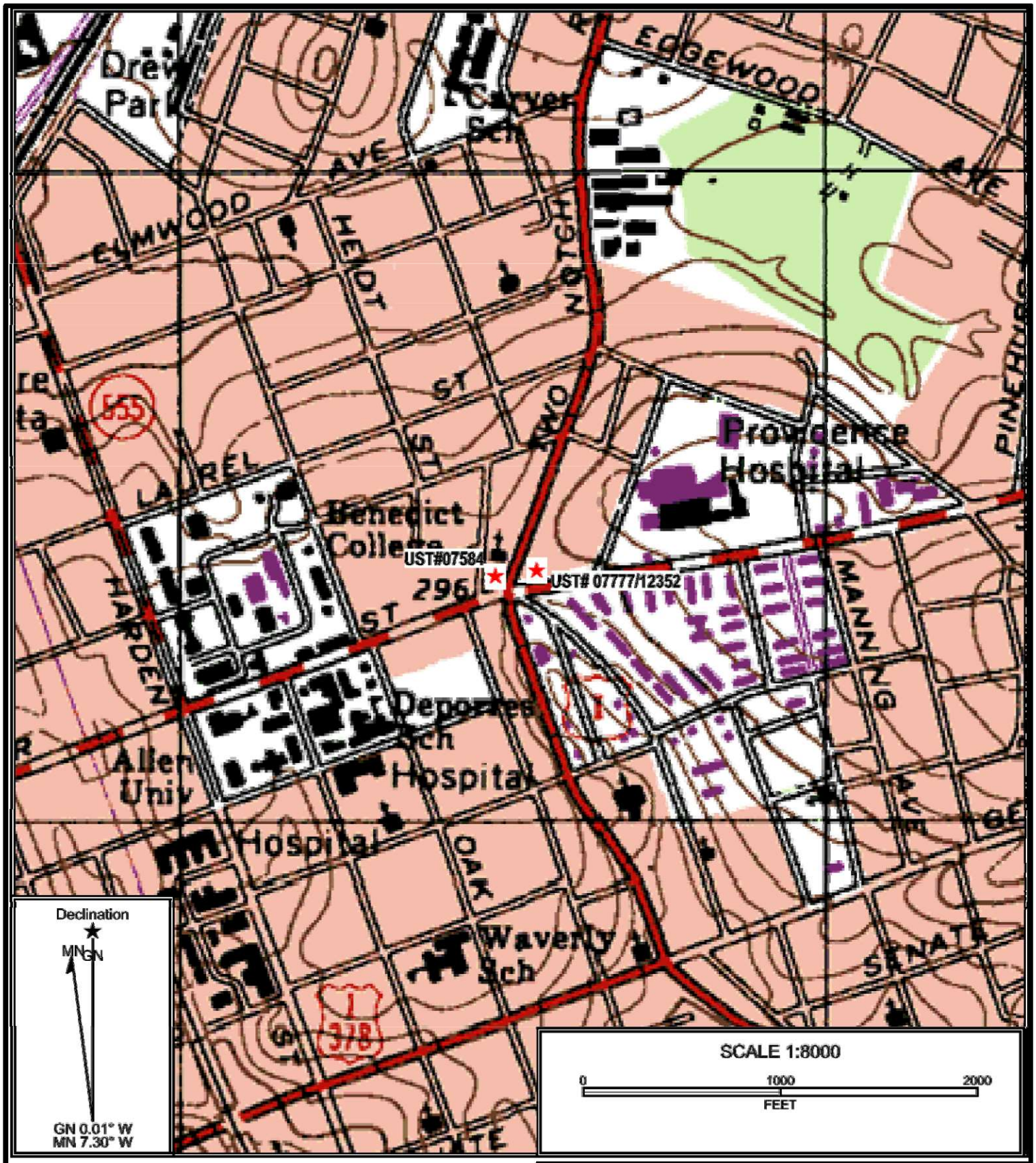
Midlands Environmental Consultants, Inc.

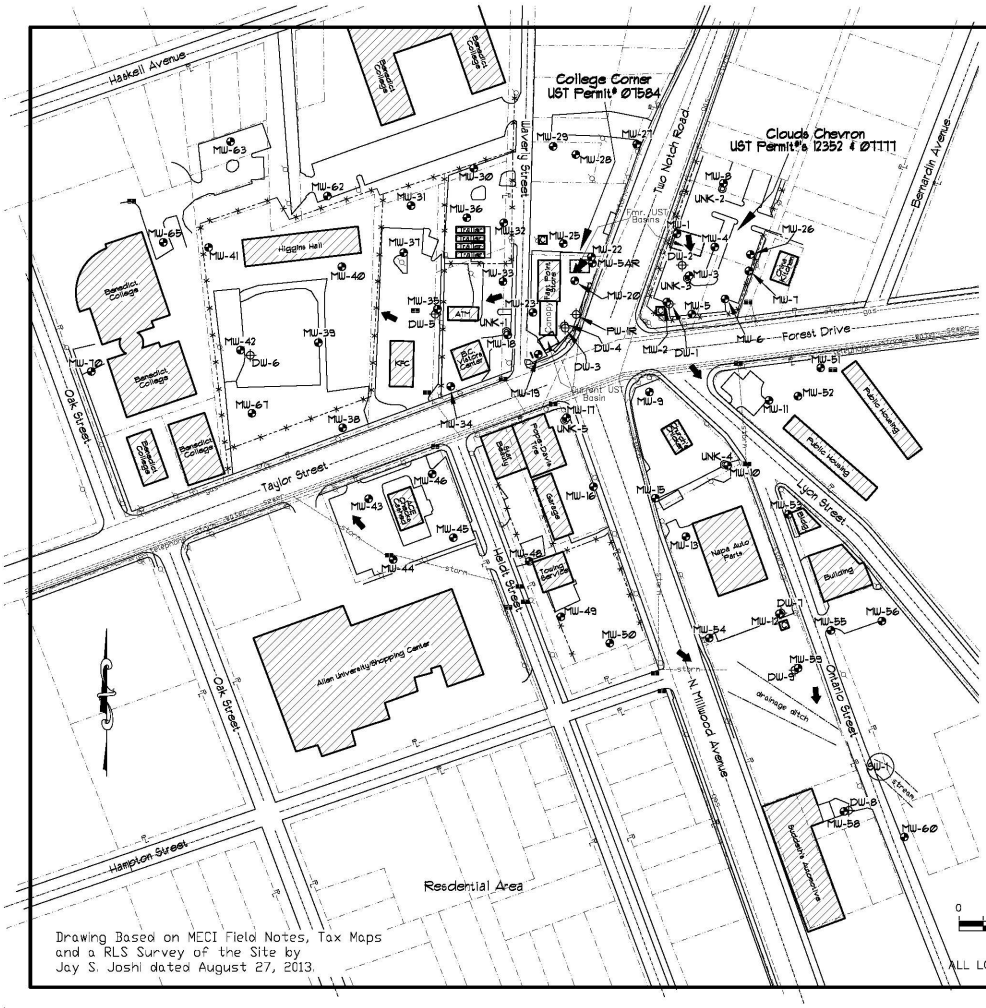
Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	TOC Elevation	Groundwater Elevation	Intial Dissolved Oxygen (mg/L)	# Gals. Purged	Comments
UNK-5	Y	11/15/21	12:13	TD: 27.61	***	22.88	***	98.93	76.05	1.27	4.00	Odor, Replaced Well Cap
SW-1	Y	11/15/21	11:10	***	***	***	***	***	***	***	***	Collected from Creek (34.010886, -81.014443)
DUP-1	Y	11/15/21	1/0/00	***	***	***	***	***	***	***	***	Duplicate of MW-10
DUP-2	Y	11/15/21	12:13	***	***	***	***	***	***	***	***	Duplicate of UNK-1
DUP-3	Y	11/15/21	10:57	***	***	***	***	***	***	***	***	Duplicate of MW-55
Field Blank	Y	11/15/21	14:30	***	***	***	***	***	***	***	***	Field Blank
Trip Blank 1	Y	11/15/21	8:00	***	***	***	***	***	***	***	***	Trip Blank (Cooler #1)
Trip Blank 2	Y	11/15/21	8:00	***	***	***	***	***	***	***	***	Trip Blank (Cooler #2)
											4.00	**TOTAL GALLONS PURGED**

FIGURES



Reference: Columbia North, South Carolina
USGS 7.5 Min. Quad
Contour Interval = 10 feet

Midlands Environmental Consultants, Inc.	Site Location
Clouds Chevron/College Corner Taylor St. & Two Notch Rd., Columbia, SC SCDHEC Site ID#s 07777, 12352, 07584	
Figure 1	MECI 21-7651



Explanation:

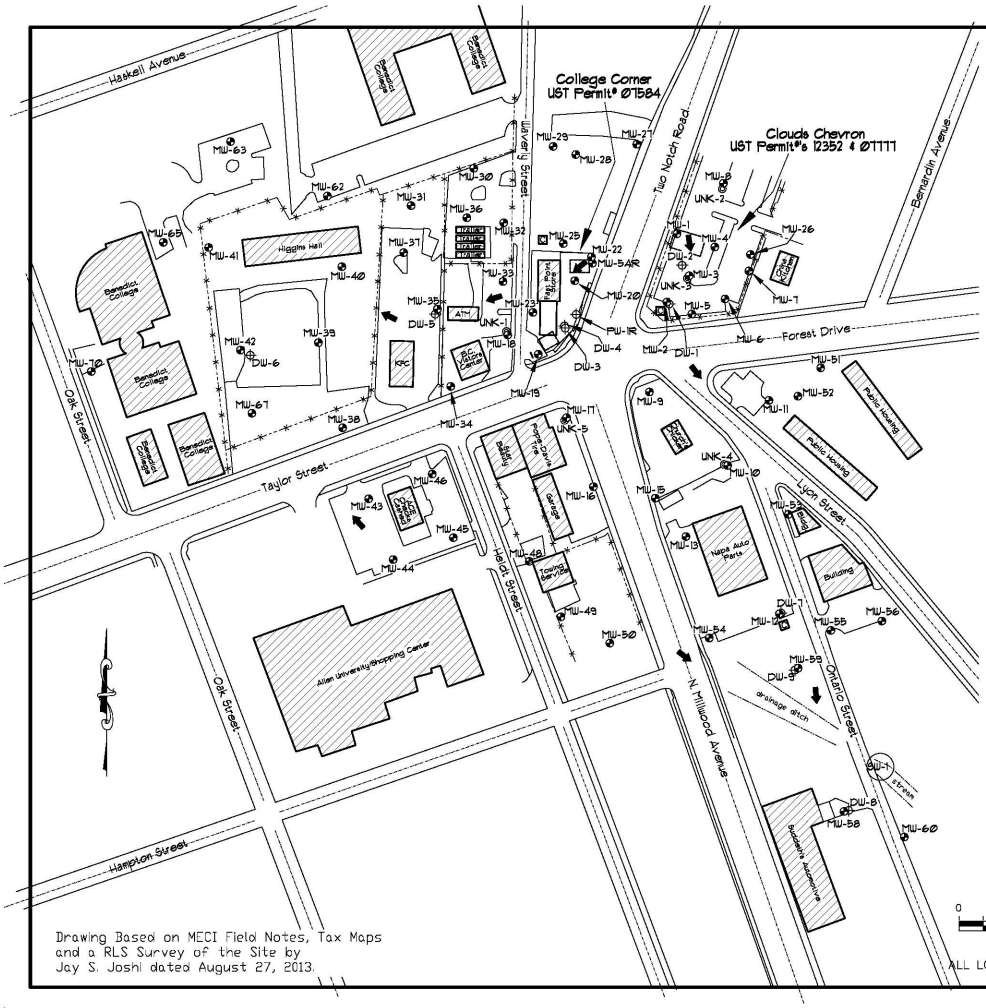
- Location of Watertable Bracketing Monitoring Well
- Location of Double Cased "Deep" Monitoring Well
- Location of Former ACA Product Recovery Well
- (SW) Location of Surface Water Sample Collection
- Estimated Groundwater Flow Direction
- Estimated Location of Removed Underground Storage Tanks
- Estimated Location of Existing Underground Storage Tanks

Site Base Map

Claude Chevron & College Corner
Taylor Street & Two Notch Road
Columbia, South Carolina
SCDHEC Site ID#s 07584, 07777, & 12352

Midlands Environmental Consultants, Inc.

JOB NO. 21-7651
DATE November 30, 2021
FIGURE 2



Drawing Based on MECI Field Notes, Tax Maps and a RLS Survey of the Site by Jay S. Joshi dated August 27, 2013.

GRAPHIC SCALE
0 75 150 225 300
1IN = 150FT
ALL LOCATIONS ARE APPROXIMATE

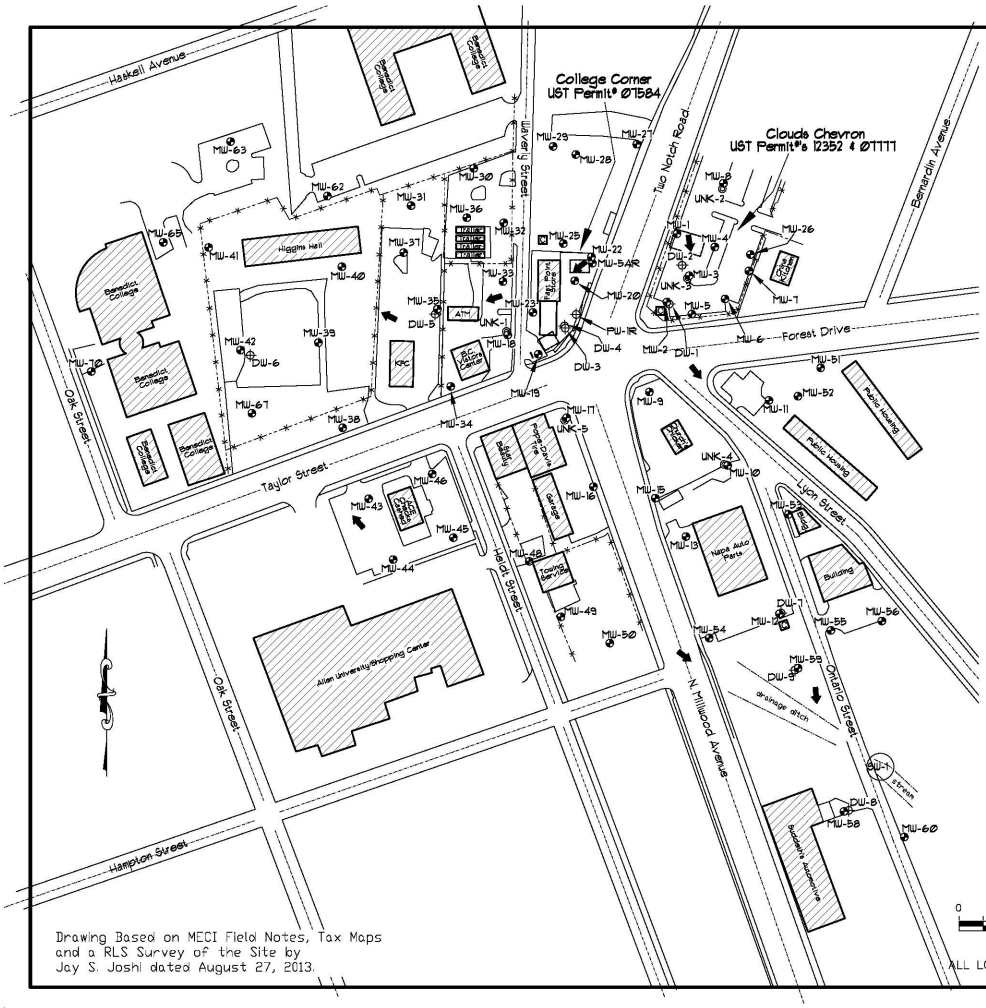
Sample ID	Constituent of Concern	1,2-Dibromoethane (EDB)	1,2-Dichloroethane	3,3-Dimethyl-1-Butanol	Benzene	Diisopropyl ether	Ethanol	Ethyl-tert-butyl ether	Ethylbenzene	Methyl-tert-butyl ether	Naphthalene	Toluene	Xylene (Total)	m&p-Xylene	o-Xylene	tert-Amyl Alcohol	tert-Amylmethyl ether	tert-Butyl Alcohol	tert-Butyl Formate
	Date Collected (mm/dd/yy)	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
DUP-1	11/15/2021	<0.0070	<4.1	<108	**5.5 J**	<7.0	<288	<16.9	135	<6.2	**137**	10.1	450	398	52.2	<131	<6.1	<182	<48.2
DUP-2	11/15/2021	<0.0069	<20.6	<539	**211**	<34.9	<1440	<84.6	156	<31.0	**101**	996	1600	931	673	<656	<30.4	<910	<241
DUP-3	11/15/2021	<0.0070	<5.2	<135	**277**	20.5	<360	<21.2	379	**56.2**	**114**	45.8	503	470	32.9	**945**	<7.6	<228	<60.2
DW-1	11/15/2021	<0.0067	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
DW-3	11/15/2021	<0.0068	<10.3	<270	**791**	103	<720	<42.3	265	**84.9**	**137**	16.2 J	792	792	<10.2	**2090**	30.3 J	<455	<120
DW-4	11/15/2021	<0.0070	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
DW-5	11/15/2021	<0.0069	<5.1	<1350	**3840**	**250**	<3600	<212	534	**337**	**253**	**2260**	2890	1860	1030	**5370**	<76.0	<2280	<602
DW-9	11/15/2021	<0.0067	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
FB	11/15/2021	<0.0068	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-10	11/15/2021	<0.0070	<4.1	<108	**5.2 J**	<7.0	<288	<16.9	123	<6.2	**131**	9.2 J	410	364	46.7	<131	<6.1	<182	<48.2
MW-11	11/15/2021	<0.0075	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-15	11/15/2021	<0.0075	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	3.4 J	<65.6	<3.0	<91.0	<24.1
MW-16	11/15/2021	<0.0074	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-17	11/15/2021	<0.0071	<2.1	<53.9	<1.7	<3.5	<144	<8.5	38.1	<3.1	25.0	57.9	106	22.9	83.3	<65.6	<3.0	<91.0	<24.1
MW-18	11/15/2021	**8.071**	<103	<2700	**533**	<174	<7200	<423	**917**	<155	**717**	**7420**	8050	5420	3130	<3280	<152	<4550	<1200
MW-19	11/15/2021	**0.43**	<206	<5390	**1460**	<349	<14400	<846	**1510**	<310	**1090**	**18600**	**17600**	11100	6530	<6560	<304	<9100	<2410
MW-2	11/15/2021	<0.0070	<4.1	<108	**16.1**	<7.0	<288	<16.9	85.1	**48.0**	**77.6**	<4.0	56.1	56.1	<4.1	<131	<6.1	<182	<48.2
MW-20	11/15/2021	<0.0068	<82.4	<2160	**396**	<140	<5760	<338	**1390**	<124	**1320**	**3070**	**12600**	10400	2180	<2620	<122	<3640	<964
MW-22	11/15/2021	<0.0071	<3.1.5	<1350	**1240**	<87.2	<3600	<212	333	<77.5	**701**	**4630**	8600	3660	4940	<1640	<76.0	<2280	<602
MW-23	11/15/2021	<0.0072	<20.6	<539	**148**	<34.9	<1440	<84.6	143	<31.0	**246**	**1180**	1780	1180	596	<656	<30.4	<910	<241
MW-25	11/15/2021	<0.0070	<2.1	<53.9	<1.7	<3.5	<144	<8.5	103	<3.1	**167**	5.0 J	134	89.6	44.5	<65.6	<3.0	<91.0	<24.1
MW-26	11/15/2021	<0.0068	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	8.0	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-27	11/15/2021	<0.0068	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-28	11/15/2021	<0.0069	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-29	11/15/2021	<0.0069	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-3	11/15/2021	**26.8**	<258	<6760	**3340**	<436	<18000	<1060	**1410**	<388	**768**	**22800**	**16100**	10200	5850	<2200	<380	<11400	<3010
MW-30	11/15/2021	<0.0069	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-31	11/15/2021	<0.0071	<2.1	<53.9	**7.4**	<3.5	<144	<8.5	76.8	<3.1	**138**	18.5	87.1	58.7	28.5	118	<3.0	<91.0	<24.1
MW-32	11/15/2021	<0.0069	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	9.8	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-33	11/15/2021	<0.0070	<2.1	<53.9	**14.2**	<3.5	<144	<8.5	8.8	<3.1	**91.7**	18.7	533	397	136	109	<3.0	<91.0	<24.1
MW-35	11/15/2021	<0.0070	<20.6	<539	**181**	<34.9	<1440	<84.6	**1610**	<31.0	**636**	337	1240	1080	160	<656	<30.4	<910	<241
MW-36	11/15/2021	<0.0068	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	**42.1**	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-37	11/15/2021	<0.0070	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-4	11/15/2021	<0.0070	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-41	11/15/2021	<0.0068	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-43	11/15/2021	<0.0068	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-44	11/15/2021	<0.0069	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-45	11/15/2021	<0.0069	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-46	11/15/2021	<0.0068	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-47	11/15/2021	<0.0068	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-48	11/15/2021	<0.0068	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-49	11/15/2021	<0.0069	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-50	11/15/2021	<0.0068	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-51	11/15/2021	<0.0069	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-53	11/15/2021	<0.0070	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-55	11/15/2021	<0.0068	<5.2	<135	**280**	20.7	<360	<21.2	378	**69.9**	**113**	43.9	520	486	34.2	**901**	<7.6	<228	<60.2
MW-6	11/15/2021	<0.0069	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-62	11/15/2021	<0.0071	<2.1	<53.9	**8.6**	<3.5	<144	<8.5	<1.8	<3.1	18.3	<2.0	<5.0	<4.1	<2.0	146	<3.0	<91.0	<24.1
MW-63	11/15/2021	<0.0072	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-7	11/15/2021	<0.0068	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-8	11/15/2021	<0.0069	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-9	11/15/2021	<0.0069	<20.6	<539	**62.8**	<34.9	<1440	<84.6	508	<31.0	**202**	**1440**	2720	1960	758	<656	<30.4	<910	<241
MW-SAR	11/15/2021	<0.0069	<82.4	<2160	**4740**	<140	<5760	<338	**1110**	<124	**744**	1101 J	346	346 J	<81.9	<2620	<122	<3640	<964
PW-1R	11/15/2021	<0.0070	<8.2	<216	**74.2**	<14.0	<576	<33.8	185	<12.4	**227**	58.3	1220	940	280	<262	<12.2	<364	<95.4
SW-1	11/15/2021	<0.0068	<0.32	<11.9	**58.3**	5.3	<72.2	<3.2	24.6	8.6	11.9	3.8	34.5	33.6	0.87 J	162	<2.7	<26.8	<29.4
TB-1	11/15/2021	N/A	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
TB-2	11/15/2021	N/A	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
UNK-1	11/15/2021	<0.0070	<10.3	<270	**229**	<17.4	<720	<42.3	135	<15.5	**67.9**	375	1470	830	640	<328	<15.2	<455	<120
UNK-3	11/15/2021	0.015 J	<2.1	<53.9	**24.9**	<3.5	<144	<8.5	<1.8	<3.1	8.8	25.0	133	80.5	52.5	<65.6	<3.0	<91.0	<24.1
UNK-4	11/15/2021	<0.0071	<2.1	<53.9	**9.2**	<3.5	<144	<8.5	32.8	<3.1	23.7	7.4	10.5	8.4 J	4.2 J	<65.6	<3.0	<91.0	<24.1
UNK-5	11/15/2021	<0.0071	<4.1	<108	<3.5	<7.0	<288	<16.9	144	<6.2	**105**	193	422	251	172	<131	<6.1	<182	<48.2
South Carolina RBSs for Groundwater		0.05	5	N/A	5	150	10000	47	700	40	25	1000	10000	N/A	N/A	240	128	1400	N/A
South Carolina Action Levels for Groundwater		N/A	N/A	N/A	N/A	150	10000	47	N/A	N/A	N/A	N/A	N/A	N/A	N/A	240	128	1400	N/A

Groundwater CoC Site Map

Clouds Chevron & College Corner
Taylor Street & Two Notch Road
Columbia, South Carolina
SCDHEC Site ID#s 01584, 01777, & 12352

Midlands Environmental Consultants, Inc.

JOB NO. 21-7851
DATE November 30, 2021
FIGURE 3



Drawing Based on MECI Field Notes, Tax Maps and a RLS Survey of the Site by Jay S. Joshi dated August 27, 2013.

Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	TOC Elevation	Groundwater Elevation
MW-1	N	11/15/21	NS	17-27	***	NS	***	99.75	NS
MW-2	Y	11/15/21	14:07	20-30	***	22.71	***	100.47	77.76
MW-3	Y	11/15/21	14:23	19-29	***	22.09	***	100.32	78.23
MW-4	Y	11/15/21	14:17	18-28	***	21.29	***	100.75	79.46
MW-5	N	11/15/21	DRY	16-26	***	DRY	***	100.69	DRY
MW-6	Y	11/15/21	12:45	20-30	***	23.03	***	100.84	77.81
MW-7	Y	11/15/21	13:00	20-30	***	23.42	***	101.79	78.37
MW-8	Y	11/15/21	12:50	18.5-28.5	***	22.48	***	100.67	78.19
MW-9	Y	11/15/21	9:58	20-30	***	20.84	***	97.40	76.56
MW-10	Y	11/15/21	9:33	18-28	***	18.13	***	92.29	74.16
MW-11	Y	11/15/21	9:41	T.D. 30.00	***	18.54	***	94.79	76.25
MW-12	N	11/15/21	NL	T.D. 24.65	***	NL	***	79.10	NL
MW-13	N	11/15/21	NL	T.D. 30.10	***	NL	***	87.17	NL
MW-15	Y	11/15/21	10:07	15-25	***	16.22	***	92.45	76.23
MW-16	Y	11/15/21	12:07	15-25	***	17.97	***	94.45	76.48
MW-17	Y	11/15/21	12:16	20-30	***	22.18	***	98.80	76.62
MW-18	Y	11/15/21	11:43	20-30	***	22.58	***	100.99	78.41
MW-19	Y	11/15/21	11:08	20-30	***	23.57	***	100.20	76.63
MW-20	Y	11/15/21	10:12	15-25	***	22.55	***	100.36	77.81
MW-22	Y	11/15/21	10:33	20-30	***	22.01	***	100.00	77.99
MW-23	Y	11/15/21	11:27	20-30	***	25.02	***	100.20	75.18
MW-25	Y	11/15/21	11:36	TD. 25.60	***	20.80	***	98.73	77.93
MW-26	Y	11/15/21	14:31	TD. 30.00	***	20.34	***	101.72	81.38
MW-27	Y	11/15/21	11:14	15-30	***	19.31	***	98.74	79.43
MW-28	Y	11/15/21	10:39	15-30	***	19.11	***	97.19	78.08
MW-29	Y	11/15/21	10:48	15-30	***	19.25	***	96.86	77.61
MW-30	Y	11/15/21	10:43	20-35	***	21.62	***	98.50	76.88
MW-31	Y	11/15/21	12:20	20-35	***	25.00	***	101.51	76.51
MW-32	Y	11/15/21	12:09	15-30	***	22.00	***	99.16	77.16
MW-33	Y	11/15/21	11:52	20-35	***	24.02	***	100.11	76.09
MW-34	N	11/15/21	NL	20-35	***	NL	***	101.00	NL
MW-35	Y	11/15/21	12:19	20-35	***	23.52	***	100.02	76.50
MW-36	Y	11/15/21	12:15	20-35	***	22.40	***	100.18	77.78
MW-37	Y	11/15/21	12:25	20-35	***	23.41	***	100.09	76.68
MW-38	N	11/15/21	NL	20-35	***	NL	***	101.76	NL
MW-39	N	11/15/21	NL	20-35	***	NL	***	102.44	NL
MW-40	N	11/15/21	NL	20-35	***	NL	***	101.97	NL
MW-41	Y	11/15/21	12:49	20-35	***	25.39	***	101.08	75.69
MW-42	N	11/15/21	NL	20-35	***	NL	***	102.07	NL
MW-43	Y	11/15/21	11:53	20-40	***	23.85	***	101.34	77.49
MW-44	Y	11/15/21	11:49	16-31	***	22.09	***	100.78	78.69
MW-45	Y	11/15/21	11:41	15-30	***	21.21	***	98.70	77.49
MW-46	Y	11/15/21	11:44	20-35	***	23.55	***	100.65	77.10
MW-48	Y	11/15/21	11:30	15-30	***	19.17	***	96.11	76.94
MW-49	Y	11/15/21	11:33	15-30	***	16.35	***	94.47	78.12
MW-50	Y	11/15/21	11:25	15-30	***	15.26	***	90.37	75.11
MW-51	Y	11/15/21	9:50	20-35	***	23.55	***	100.26	76.71
MW-52	N	11/15/21	NS	5-20	***	NS	***	96.49	NS
MW-53	Y	11/15/21	10:27	5-20	***	10.28	***	85.91	75.63
MW-54	N	11/15/21	NL	5-20	***	NL	***	84.18	NL
MW-55	Y	11/15/21	10:53	4-14	***	2.63	***	77.53	74.90
MW-56	N	11/15/21	NS	5-20	***	NS	***	82.88	NS
MW-58	N	11/15/21	NL	4-19	***	NL	***	79.61	NL
MW-59	N	11/15/21	NL	2-17	***	NL	***	74.99	NL
MW-60	N	11/15/21	NL	4-14	***	NL	***	74.16	NL
MW-62	Y	11/15/21	12:59	20-35	***	23.52	***	99.44	75.92
MW-63	Y	11/15/21	12:52	20-35	***	23.96	***	99.34	75.38
MW-65	N	11/15/21	NL	20-35	***	NL	***	100.02	NL
MW-67	N	11/15/21	NL	20-35	***	NL	***	102.65	NL
MW-70	N	11/15/21	NL	20-35	***	NL	***	101.60	NL
MW-5AR	Y	11/15/21	10:37	18-28	***	22.15	***	99.94	77.79
PW-1R	Y	11/15/21	13:52	45-50	***	23.12	***	100.00	76.88
DW-1	Y	11/15/21	14:09	65-70	***	44.59	***	100.57	55.98
DW-2	N	11/15/21	NS	70-75	***	NS	***	99.90	NS
DW-3	Y	11/15/21	10:34	47-52	***	25.11	***	100.06	74.95
DW-4	Y	11/15/21	10:03	105-110	***	48.15	***	100.13	51.98
DW-5	Y	11/15/21	9:59	65-70	***	48.97	***	102.12	53.15
DW-6	N	11/15/21	NL	65-70	***	NL	***	99.98	NL
DW-7	N	11/15/21	NL	50-55	***	NL	***	79.11	NL
DW-8	N	11/15/21	NL	50-55	***	NL	***	74.30	NL
DW-9	Y	11/15/21	11:00	60-65	***	23.22	***	79.55	56.33
UNK-1	Y	11/15/21	12:13	TD. 29.87	***	24.17	***	100.56	76.39
UNK-2	N	11/15/21	ABN	Unknown	***	ABN	***	Unknown	ABN
UNK-3	Y	11/15/21	14:18	TD. 27.23	***	20.50	***	100.30	79.80
UNK-4	Y	11/15/21	11:17	TD. 21.40	***	16.40	***	Unknown	Unknown
UNK-5	Y	11/15/21	12:13	TD. 27.61	***	22.88	***	98.93	76.05

Potentiometric Data Site Map

Clouds Chevron & College Corner
Taylor Street & Two Notch Road
Columbia, South Carolina
SCDHEC Site ID#s 01584, 01777, & 12352

Midlands Environmental Consultants, Inc.

JOB NO. 21-7651
DATE November 30, 2021
FIGURE 4

APPENDIX A:

SAMPLING LOGS, LABORATORY DATA SHEETS, & CHAIN-OF-CUSTODY FORMS

Midlands Environmental Consultants, Inc.

Monitoring Well Purge And Sampling Data

Field Personnel: HS, CH, JG, MF, TA, TB

Sampling Date(s): 11/15

Sampling Case#: 2, 3

Job Name: Clouds Chevron

Job Number: 21-7651

Calibration Data for :

Calibration Successful? Yes or No (Please Circle)

pH: Yes No

Conductivity: Yes No

Dissolved Oxygen: Yes No

Turbidity: **Conductivity Calibrated Every 3 Months by QA Manager**

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet): product	Depth to (feet): Initial H_2O	Depth to (feet): final H_2O	Well Depth (feet)	Water Height *(feet)	Gallons Purged **calc.	Gallons Purged actual	Notes
MW-1	Initial	[illegible]									17 – 27				DNS
	1st														
	2nd														
	3rd		Obstructed at 8 feet												
	4th														
	5th														
	Sampling														
MW-2	Initial	14:07	5.70	163.8	22.1	4.95	31.41		22.71		20 – 30	(	/	/	Strong odor
	1st												/		
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
MW-3	Initial	14:23	5.79	185.1	22.4	2.19	36.51		22.09		19 – 29	/	(	/	Strong odor
	1st												/		
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
MW-4	Initial	14:17	5.54	96.7	23.1	3.80	19.69		21.29		18 – 28				no odor
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														

*= (Depth of Well) - (Depth to Water = **Water Height**

One Well Volume =x.047 for 1" wells * x .163 for 2" wells, or * x .66 for 4" wells, 1.469 for 6" wells

**= One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	Ph/Conductence SN	DO SN	Turbidity
Case #1	15H101448	12G102878	201301183
Case #2	15E101481	14H103098	201301174
Case #3	10K 101895	08B101407	201510251

Midlands Environmental Consultants, Inc.

Monitoring Well Purge And Sampling Data

Field Personnel: HS, CH, JC, MF, TA, TB

Sampling Date(s): 11/15

Sampling Case#: 2, 3

Job Name: Clouds Chevron

Job Number: 21-7651

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Calibration Successful? Yes or No (Please Circle)

pH: Yes No

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Turbidity: **Conductivity Calibrated Every 3 Months by QA Manager**

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet): product	Depth to (feet): initial H_2O	Depth to (feet): final H_2O	Well Depth (feet)	Water Height *(feet)	Gallons Purged **calc.	Gallons Purged actual	Notes
MW-5	Initial	[redacted]									16 – 26				Dry
	1st														
	2nd		Dry												
	3rd														
	4th														
	5th														
	Sampling														
MW-6	Initial	[redacted]	4.93	165.5	22.1	2.93	18.65		23.03		20 – 30				no odor
	1st	12:45													
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
MW-7	Initial	13:00	5.19	97.9	23.5	3.56	19.32		23.42		20 – 30				Replaced lid
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
MW-8	Initial	12:50	5.76	61.6	23.6	3.82	19.66		22.48		18.5 – 28				no odor
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														

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Sampling Date(s): 11/15

Sampling Case#: 2, 3

Job Name: Clouds Chevron

Job Number: 21-7651

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Calibration Successful? Yes or No (Please Circle)

pH: Yes No

Conductivity: Yes No

Dissolved Oxygen: Yes No

Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet): product	Depth to (feet): initial H_2O	Depth to (feet): final H_2O	Well Depth (feet)	Water Height *(feet)	Gallons Purged **calc.	Gallons Purged actual	Notes
MW-9	Initial	9:58	6.29	285.5	24.6	1.00	15.31		20.84		20 – 30				Odor
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
MW-10	Initial	9:33	6.36	238.9	23.7	1.39	24.68		18.13		18 – 28	–	–	–	Strong odor
	1st														
	2nd														
	3rd														
	4th														
	5th												–		dup-1
	Sampling														
MW-11	Initial	9:31	5.09	109.2	22.3	3.00	32.67		18.54		TD: 30	11.46	1.86	9.50	no odor
	1st	9:33	5.01	109.3	21.0	2.68	93.25								
	2nd	9:35	4.84	107.0	20.8	1.87	92.66								
	3rd	9:37	5.20	1068	20.8	2.87	65.21								
	4th	9:39	5.13	109.3	20.7	2.63	93.61								
	5th	9:41	5.03	105.8	20.5	2.38	22.82						9.33		
	Sampling														
MW-12	Initial										TD: 24.65				
	1st														
	2nd	DNL													
	3rd														
	4th														
	5th														
	Sampling														

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**= One Well Volume x 5 = Gallons Purged (calculated)

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Case #1	15H101448	12G102878	201301183
Case #2	15E101481	14H103098	201301174
Case #3	10K 101895	08B101407	201510251

Midlands Environmental Consultants, Inc.

Monitoring Well Purge And Sampling Data

Field Personnel: HS, CH, JC, MF, TA, TB

Sampling Date(s): 11/15

Sampling Case#: 2, 3

Job Name: Clouds Chevron

Job Number: 21-7651

Calibration Data for :

Calibration Successful? Yes or No (Please Circle)

pH: Yes No

Conductivity: Yes No

Dissolved Oxygen: Yes No

Turbidity: Yes No

Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet): product	Depth to (feet): initial H_2O	Depth to (feet): final H_2O	Well Depth (feet)	Water Height *(feet)	Gallons Purged **calc.	Gallons Purged actual	Notes
mw13	Initial										TD: 30.1				
	1st														
	2nd		DRY												
	3rd														
	4th														
	5th														
	Sampling														
mw15	Initial	10:07	6.13	140.5	23.8	0.84	19.65		16.22		15 – 25				no odor
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
mw16	Initial	12:07	6.23	170.2	25.1	2.49	58.37		12.97		15 – 25				no odor
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
mw17	Initial	12:16	5.93	164.9	23.8	2.28	27.58		22.18		20 – 30				odor
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														

*= (Depth of Well) - (Depth to Water = Water Height

One Well Volume =x.047 for 1" wells * x .163 for 2" wells, or * x .66 for 4" wells, 1.469 for 6" wells

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Case #1	15H101448	12G102878	201301183
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Midlands Environmental Consultants, Inc.

Monitoring Well Purge And Sampling Data

Field Personnel: HS, CH, JC, MF, TA, TB

Sampling Date(s): 11/15

Sampling Case#: 2, 3

Job Name: Clouds Chevron

Job Number: 21-7651

Calibration Data for :

Calibration Successful? Yes or No (Please Circle)

pH:	Yes	No
Conductivity:	Yes	No
Dissolved Oxygen:	Yes	No
Turbidity:	Conductivity Calibrated Every 3 Months by QA Manager	

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet): product	Depth to (feet): Initial H_2O	Depth to (feet): final H_2O	Well Depth (feet)	Water Height *(feet)	Gallons Purged **calc.	Gallons Purged actual	Notes
MW-18	Initial	11:43	5.54	123.2	22.1	2.63	22.87		22.18		20 – 30	/	/	/	Strong odor
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
MW-19	Initial	11:08	6.59	138.9	23.4	0.36	17.58		23.57		20 – 30	/	/	/	Strong odor
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
MW-20	Initial	[redacted]	6.09	147.3	22.5	2.43	21.66		22.55		15 – 25	/	/	/	[redacted] odor
	1st	10:57													
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
MW-22	Initial	10:33	6.12	125.1	21.3	1.96	42.45		22.01		20 – 30	/	/	/	[redacted] odor
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														

*= (Depth of Well) - (Depth to Water = **Water Height**

One Well Volume =x.047 for 1" wells * x .163 for 2" wells, or * x .66 for 4" wells, 1.469 for 6" wells

= One Well Volume x 5 = **Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	PH/Conductance SN	DO SN	Turbidity
Case #1	15H101448	12G102878	201301183
Case #2	15E101481	14H103098	201301174
Case #3	10K 101895	08B101407	201510251

Midlands Environmental Consultants, Inc.

Monitoring Well Purge And Sampling Data

Field Personnel: HS, CH, JC, MF, TA, TB

Sampling Date(s): 11/15

Sampling Case#: 2, 3

Job Name: Clouds Chevron

Job Number: 21-7651

Calibration Data for :

Calibration Successful? Yes or No (Please Circle)

pH: Yes No

Conductivity: Yes No

Dissolved Oxygen: Yes No

Turbidity: **Conductivity Calibrated Every 3 Months by QA Manager**

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet): product	Depth to (feet): initial H_2O	Depth to (feet): final H_2O	Well Depth (feet)	Water Height *(feet)	Gallons Purged **calc.	Gallons Purged actual	Notes
MW-23	Initial	11:27	5.81	248.6	21.6	3.58	23.16								
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling								25.02		20 – 30	/	(	(	Strong odor
													/		
MW-25	Initial	11:03	6.07	239.8	29.8	2.07	18.35								
	1st	11:15	6.04	242.1	21.2	2.04	24.13								
	2nd	11:20	6.13	243.6	23.4	2.03	26.35								
	3rd	11:26	6.47	277.3	21.6	2.05	29.32								
	4th	11:32	6.35	285.1	22.3	2.11	22.45								
	5th	11:36	7.03	245.1	22.8	2.06	17.16								
	Sampling								20.20		TD: 25.6	4.8 /	.782 / 3.91 /	4 /	odor
MW-26	Initial	14:31	5.99	162.1	23.2	2.61	34.61								
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling								20.34		TD: 30	(	/ /	/	Slight odor
MW-27	Initial	11:14	5.68	173.5	22.7	3.90	12.96								
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling								19.31		15 – 30	/	(/	(	Slight odor

*= (Depth of Well) - (Depth to Water = Water Height

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Case #1	15H101448	12G102878	201301183
Case #2	15E101481	14H103098	201301174
Case #3	10K 101895	08B101407	201510251

Midlands Environmental Consultants, Inc.

Monitoring Well Purge And Sampling Data

Field Personnel: HS, CH, JC, MF, TA, TB

Sampling Date(s): 11/15

Sampling Case#: 2, 3

Job Name: Clouds Chevron

Job Number: 21-7651

Calibration Data for :

Calibration Successful? Yes or No (Please Circle)

pH: Yes No

Conductivity: Yes No

Dissolved Oxygen: Yes No

Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet): product	Depth to (feet): Initial H_2O	Depth to (feet): final H_2O	Well Depth (feet)	Water Height *(feet)	Gallons Purged **calc.	Gallons Purged actual	Notes
MW-28	Initial	10:39	6.13	242.0	21.5	1.49	32.19								
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling								19.11		15 – 30	/	/	/	no odor
MW-29	Initial	10:48	6.57	238.2	21.8	2.48	22.38								
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling								19.25		15 – 30	/	/	/	no odor
MW-30	Initial	10:43	6.03	156.5	21.1	2.18	31.66								
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling								21.62		15 – 30	/	/	/	odor
MW-31	Initial	12:20	5.66	148.3	21.3	1.44	22.64								
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling								25.00		20 – 35	/	/	/	odor

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mw-32	Initial	12:09	5.52	135.7	22.1	2.33	24.06		22.00		15 – 30	/	/	/	no odor
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
mw-33	Initial	11:52	5.70	157.6	22.9	2.40	31.65		24.02		20 – 35	/	/	/	strong odor
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
mw-34	Initial	~~0900~~									20 – 35				DNS
	1st														
	2nd	DNS													
	3rd														
	4th														
	5th														
	Sampling														
mw-35	Initial	12:19	5.50	134.3	22.5	1.97	85.31		23.52		20 – 35	/	/	/	Strong odor
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														

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Dissolved Oxygen: Yes No

Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet): product	Depth to (feet): Initial H_2O	Depth to (feet): final H_2O	Well Depth (feet)	Water Height *(feet)	Gallons Purged **calc.	Gallons Purged actual	Notes
MW-36	Initial	12:15	5.46	167.8	22.2	2.49	26.25		22.99		20 – 35				odor
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
MW-37	Initial	12:25	4.97	162.3	22.9	3.42	24.36		23.41		20 – 35				no odor
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
MW-38	Initial										20 – 35				paved over
	1st														
	2nd		Destroyed												
	3rd														
	4th														
	5th														
	Sampling														
MW-39	Initial										20 – 35				
	1st														
	2nd		Destroyed												
	3rd														
	4th														
	5th														
	Sampling														

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Sampling Date(s): 11/15

Sampling Case#: 2, 3

Job Name: Clouds Chevron

Job Number: 21-7651

Calibration Data for :

Calibration Successful? Yes or No (Please Circle)

pH: Yes No

Conductivity: Yes No

Dissolved Oxygen: Yes No

Turbidity: Yes No

Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet): product	Depth to (feet): Initial H_2O	Depth to (feet): final H_2O	Well Depth (feet)	Water Height *(feet)	Gallons Purged **calc.	Gallons Purged actual	Notes
mw-40	Initial										20 – 35				
	1st														
	2nd														
	3rd		Destroyed												
	4th														
	5th														
	Sampling														
mw-41	Initial	[illegible]	[illegible]								20 – 35	/	/	/	no odor
	1st	12:49	5.74	38.2	21.2	4.56	12.57		25.39						
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
mw-42	Initial										20 – 35				
	1st														
	2nd														
	3rd		Destroyed												
	4th														
	5th														
	Sampling														
mw-43	Initial	11:53	4.58	87.8	23.7	4.51	19.93				20 – 40				
	1st														
	2nd														
	3rd		Destroyed												
	4th														
	5th														
	Sampling														

*= (Depth of Well) - (Depth to Water = **Water Height**

One Well Volume =x.047 for 1" wells * x **.163 for 2" wells**, or * x **.66 for 4" wells**, 1.469 for 6" wells

= One Well Volume x 5 = **Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	Ph/Conductance SN	DO SN	Turbidity
Case #1	15H101448	12G102878	201301183
Case #2	15E101481	14H103098	201301174
Case #3	10K 101895	08B101407	201510251

Midlands Environmental Consultants, Inc.

Monitoring Well Purge And Sampling Data

Field Personnel: HS, CH, JC, MF, TA, TB

Sampling Date(s): 11/15

Sampling Case#: 2, 3

Job Name: Clouds Chevron

Job Number: 21-7651

Calibration Data for :

Calibration Successful? Yes or No (Please Circle)

pH: Yes No

Conductivity: Yes No

Dissolved Oxygen: Yes No

Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet): product	Depth to (feet): initial H_2O	Depth to (feet): final H_2O	Well Depth (feet)	Water Height *(feet)	Gallons Purged **calc.	Gallons Purged actual	Notes
MW-44	Initial	11:49	4.51	77.9	23.2	4.27	17.65		22.09		16 – 31				no odor
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
MW-45	Initial	11:41	4.74	88.8	23.5	4.58	26.89		21.21		15 – 30				no odor
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
MW-46	Initial	11:44	4.67	79.4	22.3	5.43	23.58		23.55		20 – 35				no odor
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
MW-48	Initial	11:30	5.83	169.2	22.2	3.52	17.45		19.12		15 – 30				no odor
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														

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Case #1	15H101448	12G102878	201301183
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Midlands Environmental Consultants, Inc.

Monitoring Well Purge And Sampling Data

Field Personnel: HS, CH, JC, MF, TA, TB

Sampling Date(s): 11/15

Sampling Case#: 2, 3

Job Name: Clouds Cheveron

Job Number: 21-7651

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Calibration Successful? Yes or No (Please Circle)

pH: Yes No

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Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet): product	Depth to (feet): initial H_2O	Depth to (feet): final H_2O	Well Depth (feet)	Water Height *(feet)	Gallons Purged **calc.	Gallons Purged actual	Notes
MW-49	Initial	11:33	5.25	165.2	22.9	4.29	18.66		16.35		15 – 30				no odor
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
MW-50	Initial	11:25	5.67	124.2	20.3	1.16	23.78		15.26		15 – 30				no odor
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
MW-51	Initial	9:50	5.48	81.5	19.4	2.82	17.31		23.55		20 – 35	–	–	–	no odor
	1st												–		
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
MW-53	Initial	10:27	5.42	69.6	24.1	4.60	24.34		10.28		5 – 20	–	–	–	no odor
	1st												–		
	2nd														
	3rd														
	4th														
	5th														
	Sampling														

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Case #1	15H101448	12G102878	201301183
Case #2	15E101481	14H103098	201301174
Case #3	10K 101895	08B101407	201510251

Midlands Environmental Consultants, Inc.

Monitoring Well Purge And Sampling Data

Field Personnel: HS, CH, JC, MF, TA, TB

Sampling Date(s): 11/15

Sampling Case#: 2, 3

Job Name: Clouds Chevron

Job Number: 21-7651

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Calibration Successful? Yes or No (Please Circle)

pH: Yes No

Conductivity: Yes No

Dissolved Oxygen: Yes No

Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet): product	Depth to (feet): Initial H_2O	Depth to (feet): final H_2O	Well Depth (feet)	Water Height *(feet)	Gallons Purged **calc.	Gallons Purged actual	Notes
MW-54	Initial										5/20				
	1st														
	2nd		DNL												
	3rd														
	4th														
	5th														
	Sampling														
MW-55	Initial	10:40	6.31	181.1	22.8	0.52	38.35		2.63		4/14	11.37	1.85	9.5	Odor
	1st	10:43	6.23	183.6	23.3	0.54	65.72								
	2nd	10:45	6.18	190.2	24.2	1.13	106.8								
	3rd	10:47	6.16	189.0	24.4	1.05	73.21								
	4th	10:49	6.13	187.8	24.3	1.08	46.89								
	5th	10:53	6.10	188.6	24.2	1.11	21.32						9.26		Dup-3
	Sampling														
MW-56	Initial	[redacted]									5/20				Replaced Cap
	1st		obst. @ 7.78												
	2nd		unable to Sample												
	3rd														
	4th														
	5th														
	Sampling		(had no cap/lock, pipe flush w/ ground surface)												
MW-58	Initial										4/19				
	1st														
	2nd		DNL												
	3rd														
	4th														
	5th														
	Sampling														

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6"	1.469

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Case #1	15H101448	12G102878	201301183
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Case #3	10K 101895	08B101407	201510251

Midlands Environmental Consultants, Inc.

Monitoring Well Purge And Sampling Data

Field Personnel: HS, CH, JC, MF, TA, TB

Sampling Date(s): 11/15

Sampling Case#: 2, 3

Job Name: Clouds Chevron

Job Number: 21-7651

Calibration Data for :

Calibration Successful? Yes or No (Please Circle)

pH: Yes No

Conductivity: Yes No

Dissolved Oxygen: Yes No

Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet): product	Depth to (feet): initial H_2O	Depth to (feet): final H_2O	Well Depth (feet)	Water Height *(feet)	Gallons Purged **calc.	Gallons Purged actual	Notes
mw-59	Initial										2 – 17				
	1st														
	2nd		DNL												
	3rd														
	4th														
	5th														
	Sampling														
mw-60	Initial										4 – 14				
	1st														
	2nd		DNL												
	3rd														
	4th														
	5th														
	Sampling														
mw-62	Initial										20 – 35				
	1st														
	2nd		[illegible]		See additional										
	3rd				sheets										
	4th														
	5th														
	Sampling														
mw-63	Initial										20 – 35				
	1st														
	2nd		[illegible]		See additional										
	3rd				sheets										
	4th														
	5th														
	Sampling														

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2"	0.163
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6"	1.469

Sampling Case#	PH/Conductance SN	DO SN	Turbidity
Case #1	15H101448	12G102878	201301183
Case #2	15E101481	14H103098	201301174
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Midlands Environmental Consultants, Inc.

Monitoring Well Purge And Sampling Data

Field Personnel: HS, CH, JC, MF, TA, TB

Sampling Date(s): 11/15

Sampling Case#: 2, 3

Job Name: Clouds Chevron

Job Number: 21-7651

Calibration Data for :

Calibration Successful? Yes or No (Please Circle)

pH: Yes No

Conductivity: Yes No

Dissolved Oxygen: Yes No

Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet): product	Depth to (feet): initial H_2O	Depth to (feet): final H_2O	Well Depth (feet)	Water Height *(feet)	Gallons Purged **calc.	Gallons Purged actual	Notes
mw-65	Initial										20 – 35				
	1st														
	2nd		DNL												
	3rd														
	4th														
	5th														
	Sampling														
mw-67	Initial										20 – 35				
	1st														
	2nd		DNL												
	3rd														
	4th														
	5th														
	Sampling														
mw-70	Initial										20 – 35				
	1st														
	2nd		DNL												
	3rd														
	4th														
	5th														
	Sampling														
mw-SAR	Initial	10:37	6.11	183.1	21.3	1.86	43.16				18 – 28				
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling								22.5						no odor

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Case #1	15H101448	12G102878	201301183
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Monitoring Well Purge And Sampling Data

Field Personnel: HS, CH, JC, MF, TA, TB

Sampling Date(s): 11/15

Sampling Case#: 2, 3

Job Name: Clouds Chevron

Job Number: 21-7651

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Calibration Successful? Yes or No (Please Circle)

pH: Yes No

Conductivity: Yes No

Dissolved Oxygen: Yes No

Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet): product	Depth to (feet): initial H_2O	Depth to (feet): final H_2O	Well Depth (feet)	Water Height *(feet)	Gallons Purged **calc.	Gallons Purged actual	Notes
Pw-1R	Initial	10:27	6.39	151.7	22.3	2.29	13.65		23.12	22.93	45 – 50	26.88	17.55	53.20	Strong odor
	1st	10:38	6.34	163.8	21.9	2.15	18.42								
	2nd	10:42	6.27	172.1	21.8	2.31	38.16								
	3rd	10:51	6.18	168.3	22.3	2.26	46.41						52.65		
	4th														
	5th														
	Sampling	13:52	6.29	150.3	22.1	2.26	13.98								
Dw-1	Initial	13:45	5.75	48.9	21.5	3.73	32.63		44.59		65 – 70	25.41	4.14	21	no odor
	1st	13:50	5.71	47.6	21.4	3.71	39.63								
	2nd	13:54	5.25	51.8	21.3	3.73	38.45								
	3rd	13:59	5.66	53.6	20.9	3.46	72.61								
	4th	14:04	5.37	76.4	20.8	3.05	74.45						20.79		
	5th	14:09	4.41	45.2	20.2	2.98	38.21								
	Sampling														
Dw-2	Initial										70 – 75				
	1st														
	2nd	destroyed @ 8:18													
	3rd														
	4th														
	5th														
	Sampling														
Dw-3	Initial	10:06	6.24	235.6	21.7	3.17	23.65		25.11		47 – 52	26.89	4.38	22.0	Strong odor
	1st	10:11	6.35	229.2	21.3	3.09	24.06								
	2nd	10:16	6.19	238.6	21.4	3.66	29.59								
	3rd	10:21	6.13	243.1	21.8	3.95	58.22						21.9		
	4th	10:27	6.22	266.3	21.2	2.98	32.65								
	5th	10:34	6.58	301.4	21.7	2.93	21.92								
	Sampling														

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Sampling Case#	PH/Conductance SN	DO SN	Turbidity
Case #1	15H101448	12G102878	201301183
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Midlands Environmental Consultants, Inc.

Monitoring Well Purge And Sampling Data

Field Personnel: HS, CH, JC, MF, TA, TB

Sampling Date(s): 11/15

Sampling Case#: 2, 3

Job Name: Clouds Chevron

Job Number: 21-7651

Calibration Data for :

Calibration Successful? Yes or No (Please Circle)

pH: Yes No

Conductivity: Yes No

Dissolved Oxygen: Yes No

Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet): product	Depth to (feet): initial H_2O	Depth to (feet): final H_2O	Well Depth (feet)	Water Height *(feet)	Gallons Purged **calc.	Gallons Purged actual	Notes
Dw-4	Initial	9:30	6.14	172.6	21.9	3.12	23.16		48.15		105 – 110	61.85	10.08	59.5	no odor
	1st	9:36	6.73	138.1	21.3	3.43	41.71								
	2nd	9:41	6.80	136.2	21.6	3.16	46.33								
	3rd	9:47	6.16	152.9	21.9	3.48	52.22								
	4th	9:55	6.38	181.6	21.3	3.62	41.16								
	5th	10:03	6.21	146.8	20.9	3.21	22.08						59.40		
	Sampling														
Dw-5	Initial	9:35	6.11	148.3	21.1	2.23	19.16		48.35		65 – 70	21.03	3.42	17.5	odor
	1st	9:39	6.21	147.6	21.8	2.14	21.45								
	2nd	9:44	6.34	142.3	21.9	2.63	26.13								
	3rd	9:49	6.66	174.8	21.7	2.45	72.34								
	4th	9:56	6.32	152.6	21.3	2.33	22.45								
	5th	9:59	6.25	149.3	21.2	2.45	18.15		48.97				17.13		
	Sampling														
Dw-6	Initial										65 – 70				
	1st														
	2nd		DNS												
	3rd														
	4th														
	5th														
	Sampling														
Dw-7	Initial										50 – 55				
	1st														
	2nd		DNS												
	3rd														
	4th														
	5th														
	Sampling														

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Midlands Environmental Consultants, Inc.

Monitoring Well Purge And Sampling Data

Field Personnel: HS, CH, JC, MF, TA, TB

Sampling Date(s): 11/15

Sampling Case#: 2, 3

Job Name: Clouds Chevron

Job Number: 21-7651

Calibration Data for :

Calibration Successful? Yes or No (Please Circle)

pH: Yes No

Conductivity: Yes No

Dissolved Oxygen: Yes No

Turbidity: **Conductivity Calibrated Every 3 Months by QA Manager**

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet): product	Depth to (feet): initial H_2O	Depth to (feet): final H_2O	Well Depth (feet)	Water Height *(feet)	Gallons Purged **calc.	Gallons Purged actual	Notes
Dw-8	Initial										50				
	1st														
	2nd		DNL												
	3rd														
	4th														
	5th														
	Sampling										55				
Dw-9	Initial	10:25	6.52	138.4	20.7	0.55	42.38				60	41.78	6.8	34	no oder
	1st	10:32	6.41	190.7	20.9	1.13	86.25								
	2nd	10:39	6.55	192.9	21.0	0.81	113.21								
	3rd	10:46	6.63	133.6	20.5	1.62	75.82								
	4th	10:53	6.49	137.6	20.4	1.54	51.76								
	5th	11:00	6.53	141.8	20.2	1.48	21.37				65		39.05		
	Sampling														
Sw-1	Initial	11:10													
Dup-1	1st														
Dup-2	2nd	MW-10	9:33												
Dup-3	3rd														
	4th	Unk-1	12:15												
	5th														
	Sampling	MW-55	10:57												
[redacted]	Initial														
FB	1st														
GAC	2nd	14:30			TB-2	8:00									
TB-1	3rd														
	4th	14:35													
	5th														
	Sampling	8:00													

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Midlands Environmental Consultants, Inc.

Monitoring Well Purge And Sampling Data

Field Personnel: HS, CH, JC, MF, TA, TB

Sampling Date(s): 11/15

Sampling Case#: 2, 3

Job Name: Clouds Chevron

Job Number: 21-7651

Calibration Data for :

Calibration Successful? Yes or No (Please Circle)

pH: Yes No

Conductivity: Yes No

Dissolved Oxygen: Yes No

Turbidity: Yes No

Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet): product	Depth to (feet): initial H_2O	Depth to (feet): final H_2O	Well Depth (feet)	Water Height *(feet)	Gallons Purged **calc.	Gallons Purged actual	Notes
	Initial														
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
Unknown 1	Initial	11:38	5.77	189.5	22.5	4.74	27.63						/		
	1st	11:46	5.13	182.9	21.9	4.38	28.14								
	2nd	11:53	5.72	176.3	21.8	4.77	36.42								
	3rd	11:59	5.63	172.9	21.2	4.72	45.16								
	4th	12:06	5.48	188.3	21.4	5.01	52.43								
Dup2	5th	12:13	5.24	189.6	21.6	5.11	29.12		24.17		TD 29.87	5.7	0.929	5	odor
	Sampling												4.64		
	Initial	17:52	4.93	162.5	22.1	5.06	30.45								
	1st														
	2nd														
	3rd														
MW63	4th														
	5th														
	Sampling														
	Initial	17:59	5.31	191.2	21.0	2.86	33.41								
	1st														
	2nd														
	3rd														
MW62	4th														
	5th														
	Sampling														
									23.52		20-35				No odor

*= (Depth of Well) - (Depth to Water = **Water Height**

One Well Volume =x.047 for 1" wells * x **.163 for 2" wells**, or * x **.66 for 4" wells**, 1.469 for 6" wells

= One Well Volume x 5 = **Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	Ph/Conductance SN	DO SN	Turbidity
Case #1	15H101448	12G102878	201301183
Case #2	15E101481	14H103098	201301174
Case #3	10K 101895	08B101407	201510251

Midlands Environmental Consultants, Inc.

Monitoring Well Purge And Sampling Data

Field Personnel: HS, CH, JC, MF, TA, TB

Sampling Date(s): 11/15

Sampling Case#: 2, 3

Job Name: Clouds Chevron

Job Number: 21-7651

Calibration Data for:

Calibration Successful? Yes or No (Please Circle)

pH: Yes No

Conductivity: Yes No

Dissolved Oxygen: Yes No

Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet): product	Depth to (feet): initial H_2O	Depth to (feet): final H_2O	Well Depth (feet)	Water Height *(feet)	Gallons Purged **calc.	Gallons Purged actual	Notes
	Initial														
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
	Initial														
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
	Initial														
	1st														
	2nd														
	3rd														
	4th														
	5th														
Unk-2	Sampling		ABD												ABD
	Initial	13:10	5.37	140.8	23.8	3.21	25.62								
	1st	13:12	5.42	136.3	23.5	3.05	48.93								
Unk-3	2nd	13:14	5.48	136.7	23.2	3.17	86.51				TD:				
	3rd	13:16	5.45	145.3	23.1	3.07	42.66		20.50	21.32	27.23	6.73	1.09	DR @	no color
	4th														
	5th														
	Sampling	14:18	5.50	149.6	23.2	3.11	21.22						5.48	3.50	

*= (Depth of Well) - (Depth to Water = **Water Height**

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= One Well Volume x 5 = **Gallons Purged (calculated)

Casing	Gallons
1"	0.047
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6"	1.469

Sampling Case#	Ph/Conductance SN	DO SN	Turbidity
Case #1	15H101448	12G102878	201301183
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Midlands Environmental Consultants, Inc.

Monitoring Well Purge And Sampling Data

Field Personnel: HS, CH, JC, MF, TA, TB

Sampling Date(s): 11/15

Sampling Case#: 2, 3

Job Name: Clouds Chevron

Job Number: 21-7651

Calibration Data for:

Calibration Successful? Yes or No (Please Circle)

pH: Yes No

Conductivity: Yes No

Dissolved Oxygen: Yes No

Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet): product	Depth to (feet): initial H_2O	Depth to (feet): final H_2O	Well Depth (feet)	Water Height *(feet)	Gallons Purged **calc.	Gallons Purged actual	Notes
MW 70	Initial	[illegible]									20.35				
	1st														
	2nd		DRY												
	3rd														
	4th														
	5th														
	Sampling														
	Initial														
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
	Initial														
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
	Initial														
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
	Initial														
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														

*= (Depth of Well) - (Depth to Water = **Water Height**

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Midlands Environmental Consultants, Inc.

Monitoring Well Purge And Sampling Data

Field Personnel: HS, CH, JC, MF, TA, TB

Sampling Date(s): 11/15

Sampling Case#: 2, 3

Job Name: Clouds Chevron

Job Number: 21-7651

Calibration Data for:

Calibration Successful? Yes or No (Please Circle)

pH: Yes No

Conductivity: Yes No

Dissolved Oxygen: Yes No

Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet): product	Depth to (feet): initial H_2O	Depth to (feet): final H_2O	Well Depth (feet)	Water Height *(feet)	Gallons Purged **calc.	Gallons Purged actual	Notes
MW-52	Initial														
	1st			0.95K	@	16.30									
	2nd														
	3rd														
	4th			NO water to Sample											
	5th														
	Sampling														
Unit-4	Initial	9:41	5.98	345.1	24.5	2.09	38.72								
	1st	9:45	6.10	290.8	21.9	2.65	69.33				TD:		3.26	Dry @ 10	Strong Odor
	2nd	9:49	6.05	308.6	22.4	2.77	85.31				21.40	5			
	3rd	9:55	6.11	321.2	22.8	2.51	52.73								
	4th														
	5th														
	Sampling	11:19	6.08	318.5	22.6	2.43	19.93		16.40	17.61			16.52		4"
[illegible]	Initial	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]								
	1st										15				no Odor
	2nd														
	3rd								16.4						
	4th										25				
	5th														
	Sampling														
[illegible]	Initial	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]								
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														

*= (Depth of Well) - (Depth to Water = **Water Height**

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Midlands Environmental Consultants, Inc.

Monitoring Well Purge And Sampling Data

Field Personnel: HS, CH, JC, MF, TA, TB

Sampling Date(s): 11/15

Sampling Case#: 2, 3

Job Name: Clouds Chevron

Job Number: 21-7651

Calibration Data for:

Calibration Successful? Yes or No (Please Circle)

pH: Yes No

Conductivity: Yes No

Dissolved Oxygen: Yes No

Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet): product	Depth to (feet): Initial H_2O	Depth to (feet): final H_2O	Well Depth (feet)	Water Height *(feet)	Gallons Purged **calc.	Gallons Purged actual	Notes
Unk-5	Initial	12:05	5.95	296.8	23.0	1.29	38.65		27.88		TD: 27.61	4.73	0.77	4	color
	1st	12:06	5.96	306.0	23.8	0.90	62.71								
	2nd	12:08	5.98	298.3	23.9	1.13	9581								
	3rd	12:10	5.93	282.8	23.7	1.11	64.88								
	4th	12:12	5.95	287.3	23.6	1.16	48.11								
	5th	12:13	6.05	244.4	23.8	1.75	38.97						3.85		Replaced Cap
	Sampling														
	Initial														
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
	Initial														
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
	Initial														
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														

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Case #3	10K 101895	08B101407	201510251

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

November 30, 2021

Robert Dunn
SCDHEC
2600 Bull St
Columbia, SC 29201

RE: Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Dear Robert Dunn:

Enclosed are the analytical results for sample(s) received by the laboratory on November 17, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Charlotte

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

Sincerely,

Lindsey N Wooten
lindsey.wooten@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Jeff Coleman, Midlands Environmental Consultants, Inc.
Kyle Pudney, Midlands Environmental Consultants, Inc.
Matt Wykel, SCDHEC

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

CERTIFICATIONS

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Laboratory ID: 99006
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DoH Drinking Water #: LA029
Virginia/VELAP Certification #: 460221

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Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92573219001	MW-2	Water	11/15/21 14:07	11/17/21 11:05
92573219002	MW-3	Water	11/15/21 14:23	11/17/21 11:05
92573219003	MW-4	Water	11/15/21 14:17	11/17/21 11:05
92573219004	MW-6	Water	11/15/21 12:45	11/17/21 11:05
92573219005	MW-7	Water	11/15/21 13:00	11/17/21 11:05
92573219006	MW-8	Water	11/15/21 12:50	11/17/21 11:05
92573219007	MW-9	Water	11/15/21 09:58	11/17/21 11:05
92573219008	MW-10	Water	11/15/21 09:33	11/17/21 11:05
92573219009	MW-11	Water	11/15/21 09:41	11/17/21 11:05
92573219010	MW-15	Water	11/15/21 10:07	11/17/21 11:05
92573219011	MW-16	Water	11/15/21 12:07	11/17/21 11:05
92573219012	MW-17	Water	11/15/21 12:16	11/17/21 11:05
92573219013	MW-18	Water	11/15/21 11:43	11/17/21 11:05
92573219014	MW-19	Water	11/15/21 11:08	11/17/21 11:05
92573219015	MW-20	Water	11/15/21 10:17	11/17/21 11:05
92573219016	MW-22	Water	11/15/21 10:33	11/17/21 11:05
92573219017	MW-23	Water	11/15/21 11:27	11/17/21 11:05
92573219018	MW-25	Water	11/15/21 11:36	11/17/21 11:05
92573219019	MW-26	Water	11/15/21 14:31	11/17/21 11:05
92573219020	MW-27	Water	11/15/21 11:14	11/17/21 11:05
92573219021	MW-28	Water	11/15/21 10:39	11/17/21 11:05
92573219022	MW-29	Water	11/15/21 10:48	11/17/21 11:05
92573219023	MW-30	Water	11/15/21 10:43	11/17/21 11:05
92573219024	MW-31	Water	11/15/21 12:20	11/17/21 11:05
92573219025	MW-32	Water	11/15/21 12:09	11/17/21 11:05
92573219026	MW-33	Water	11/15/21 11:52	11/17/21 11:05
92573219027	MW-35	Water	11/15/21 12:19	11/17/21 11:05
92573219028	MW-36	Water	11/15/21 12:15	11/17/21 11:05
92573219029	MW-37	Water	11/15/21 12:25	11/17/21 11:05
92573219030	MW-41	Water	11/15/21 12:49	11/17/21 11:05
92573219031	MW-43	Water	11/15/21 11:53	11/17/21 11:05
92573219032	MW-44	Water	11/15/21 11:49	11/17/21 11:05
92573219033	MW-45	Water	11/15/21 11:41	11/17/21 11:05
92573219034	MW-46	Water	11/15/21 11:44	11/17/21 11:05
92573219035	MW-48	Water	11/15/21 11:30	11/17/21 11:05
92573219036	MW-49	Water	11/15/21 11:35	11/17/21 11:05
92573219037	MW-50	Water	11/15/21 11:25	11/17/21 11:05

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SAMPLE SUMMARY

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92573219038	MW-51	Water	11/15/21 09:50	11/17/21 11:05
92573219039	MW-53	Water	11/15/21 10:27	11/17/21 11:05
92573219040	MW-55	Water	11/15/21 10:53	11/17/21 11:05
92573219041	MW-62	Water	11/15/21 12:52	11/17/21 11:05
92573219042	MW-63	Water	11/15/21 12:59	11/17/21 11:05
92573219043	MW-SAR	Water	11/15/21 10:37	11/17/21 11:05
92573219044	PW-1R	Water	11/15/21 13:52	11/17/21 11:05
92573219045	DW-1	Water	11/15/21 14:09	11/17/21 11:05
92573219046	DW-3	Water	11/15/21 10:34	11/17/21 11:05
92573219047	DW-4	Water	11/15/21 10:03	11/17/21 11:05
92573219048	DW-5	Water	11/15/21 09:59	11/17/21 11:05
92573219049	DW-9	Water	11/15/21 11:00	11/17/21 11:05
92573219051	UNK-1	Water	11/15/21 12:13	11/17/21 11:05
92573219052	UNK-3	Water	11/15/21 14:18	11/17/21 11:05
92573219053	UNK-4	Water	11/15/21 11:17	11/17/21 11:05
92573219054	UNK-5	Water	11/15/21 12:13	11/17/21 11:05
92573219055	SW-1	Water	11/15/21 11:10	11/17/21 11:05
92573219056	DUP-1	Water	11/15/21 09:33	11/17/21 11:05
92573219057	DUP-2	Water	11/15/21 12:13	11/17/21 11:05
92573219058	DUP-3	Water	11/15/21 10:57	11/17/21 11:05
92573219059	FB	Water	11/15/21 14:30	11/17/21 11:05
92573219060	TB-1	Water	11/15/21 08:00	11/17/21 11:05
92573219061	TB-2	Water	11/15/21 08:00	11/17/21 11:05

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SAMPLE ANALYTE COUNT

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92573219001	MW-2	EPA 8011	HH	2	PASI-C
		EPA 8260D	BSH	20	PASI-C
92573219002	MW-3	EPA 8011	HH	2	PASI-C
		EPA 8260D	BSH	20	PASI-C
92573219003	MW-4	EPA 8011	HH	2	PASI-C
		EPA 8260D	BSH	20	PASI-C
92573219004	MW-6	EPA 8011	HH	2	PASI-C
		EPA 8260D	BSH	20	PASI-C
92573219005	MW-7	EPA 8011	HH	2	PASI-C
		EPA 8260D	BSH	20	PASI-C
92573219006	MW-8	EPA 8011	HH	2	PASI-C
		EPA 8260D	BSH	20	PASI-C
92573219007	MW-9	EPA 8011	HH	2	PASI-C
		EPA 8260D	BSH	20	PASI-C
92573219008	MW-10	EPA 8011	HH	2	PASI-C
		EPA 8260D	CL	20	PASI-C
92573219009	MW-11	EPA 8011	HH	2	PASI-C
		EPA 8260D	BSH	20	PASI-C
92573219010	MW-15	EPA 8011	HH	2	PASI-C
		EPA 8260D	BSH	20	PASI-C
92573219011	MW-16	EPA 8011	HH	2	PASI-C
		EPA 8260D	BSH	20	PASI-C
92573219012	MW-17	EPA 8011	HH	2	PASI-C
		EPA 8260D	BSH	20	PASI-C
92573219013	MW-18	EPA 8011	HH	2	PASI-C
		EPA 8260D	BSH	20	PASI-C
92573219014	MW-19	EPA 8011	HH	2	PASI-C
		EPA 8260D	BSH	20	PASI-C
92573219015	MW-20	EPA 8011	HH	2	PASI-C
		EPA 8260D	BSH	20	PASI-C
92573219016	MW-22	EPA 8011	HH	2	PASI-C
		EPA 8260D	BSH	20	PASI-C
92573219017	MW-23	EPA 8011	HH	2	PASI-C
		EPA 8260D	BSH	20	PASI-C
92573219018	MW-25	EPA 8011	HH	2	PASI-C
		EPA 8260D	BSH	20	PASI-C
92573219019	MW-26	EPA 8011	HH	2	PASI-C

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SAMPLE ANALYTE COUNT

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8260D	BSH	20	PASI-C
92573219020	MW-27	EPA 8011	HH	2	PASI-C
		EPA 8260D	BSH	20	PASI-C
92573219021	MW-28	EPA 8011	HH	2	PASI-C
		EPA 8260D	BSH	20	PASI-C
92573219022	MW-29	EPA 8011	HH	2	PASI-C
		EPA 8260D	BSH	20	PASI-C
92573219023	MW-30	EPA 8011	HH	2	PASI-C
		EPA 8260D	BSH	20	PASI-C
92573219024	MW-31	EPA 8011	HH	2	PASI-C
		EPA 8260D	BSH	20	PASI-C
92573219025	MW-32	EPA 8011	HH	2	PASI-C
		EPA 8260D	BSH	20	PASI-C
92573219026	MW-33	EPA 8011	HH	2	PASI-C
		EPA 8260D	BSH	20	PASI-C
92573219027	MW-35	EPA 8011	HH	2	PASI-C
		EPA 8260D	BSH	20	PASI-C
92573219028	MW-36	EPA 8011	HH	2	PASI-C
		EPA 8260D	CL	20	PASI-C
92573219029	MW-37	EPA 8011	HH	2	PASI-C
		EPA 8260D	CL	20	PASI-C
92573219030	MW-41	EPA 8011	HH	2	PASI-C
		EPA 8260D	CL	20	PASI-C
92573219031	MW-43	EPA 8011	HH	2	PASI-C
		EPA 8260D	CL	20	PASI-C
92573219032	MW-44	EPA 8011	HH	2	PASI-C
		EPA 8260D	CL	20	PASI-C
92573219033	MW-45	EPA 8011	HH	2	PASI-C
		EPA 8260D	CL	20	PASI-C
92573219034	MW-46	EPA 8011	HH	2	PASI-C
		EPA 8260D	CL	20	PASI-C
92573219035	MW-48	EPA 8011	HH	2	PASI-C
		EPA 8260D	CL	20	PASI-C
92573219036	MW-49	EPA 8011	HH	2	PASI-C
		EPA 8260D	CL	20	PASI-C
92573219037	MW-50	EPA 8011	HH	2	PASI-C
		EPA 8260D	CL	20	PASI-C

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SAMPLE ANALYTE COUNT

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92573219038	MW-51	EPA 8011	HH	2	PASI-C
		EPA 8260D	CL	20	PASI-C
92573219039	MW-53	EPA 8011	HH	2	PASI-C
		EPA 8260D	CL	20	PASI-C
92573219040	MW-55	EPA 8011	HH	2	PASI-C
		EPA 8260D	NSCQ	20	PASI-C
92573219041	MW-62	EPA 8011	HH	2	PASI-C
		EPA 8260D	SAS	20	PASI-C
92573219042	MW-63	EPA 8011	HH	2	PASI-C
		EPA 8260D	BSH	20	PASI-C
92573219043	MW-SAR	EPA 8011	HH	2	PASI-C
		EPA 8260D	BSH	20	PASI-C
92573219044	PW-1R	EPA 8011	HH	2	PASI-C
		EPA 8260D	BSH	20	PASI-C
92573219045	DW-1	EPA 8011	HH	2	PASI-C
		EPA 8260D	CL	20	PASI-C
92573219046	DW-3	EPA 8011	HH	2	PASI-C
		EPA 8260D	NSCQ	20	PASI-C
92573219047	DW-4	EPA 8011	HH	2	PASI-C
		EPA 8260D	BSH	20	PASI-C
92573219048	DW-5	EPA 8011	HH	2	PASI-C
		EPA 8260D	BSH	20	PASI-C
92573219049	DW-9	EPA 8011	HH	2	PASI-C
		EPA 8260D	BSH	20	PASI-C
92573219051	UNK-1	EPA 8011	HH	2	PASI-C
		EPA 8260D	NSCQ	20	PASI-C
92573219052	UNK-3	EPA 8011	HH	2	PASI-C
		EPA 8260D	SAS	20	PASI-C
92573219053	UNK-4	EPA 8011	HH	2	PASI-C
		EPA 8260D	BSH	20	PASI-C
92573219054	UNK-5	EPA 8011	HH	2	PASI-C
		EPA 8260D	BSH	20	PASI-C
92573219055	SW-1	EPA 8011	HH	2	PASI-C
		EPA 8260D	SAS	20	PASI-C
92573219056	DUP-1	EPA 8011	HH	2	PASI-C
		EPA 8260D	CL	20	PASI-C
92573219057	DUP-2	EPA 8011	HH	2	PASI-C

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SAMPLE ANALYTE COUNT

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8260D	BSH	20	PASI-C
92573219058	**DUP-3**	EPA 8011	HH	2	PASI-C
		EPA 8260D	BSH	20	PASI-C
92573219059	**FB**	EPA 8011	HH	2	PASI-C
		EPA 8260D	BSH	20	PASI-C
92573219060	**TB-1**	EPA 8260D	CL	20	PASI-C
92573219061	**TB-2**	EPA 8260D	CL	20	PASI-C

PASI-C = Pace Analytical Services - Charlotte

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SUMMARY OF DETECTION

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92573219001	**MW-2**					
EPA 8260D	Benzene	16.1	ug/L	10.0	11/23/21 03:32	
EPA 8260D	Ethylbenzene	85.1	ug/L	10.0	11/23/21 03:32	
EPA 8260D	Methyl-tert-butyl ether	48.0	ug/L	10.0	11/23/21 03:32	
EPA 8260D	Naphthalene	77.6	ug/L	10.0	11/23/21 03:32	
EPA 8260D	Xylene (Total)	56.1	ug/L	10.0	11/23/21 03:32	
EPA 8260D	m&p-Xylene	56.1	ug/L	20.0	11/23/21 03:32	
92573219002	**MW-3**					
EPA 8011	1,2-Dibromoethane (EDB)	26.8	ug/L	1.0	11/23/21 10:12	M1
EPA 8260D	Benzene	3340	ug/L	625	11/24/21 08:48	
EPA 8260D	Ethylbenzene	1410	ug/L	625	11/24/21 08:48	
EPA 8260D	Naphthalene	768	ug/L	625	11/24/21 08:48	
EPA 8260D	Toluene	22800	ug/L	625	11/24/21 08:48	
EPA 8260D	Xylene (Total)	16100	ug/L	625	11/24/21 08:48	
EPA 8260D	m&p-Xylene	10200	ug/L	1250	11/24/21 08:48	
EPA 8260D	o-Xylene	5850	ug/L	625	11/24/21 08:48	
92573219007	**MW-9**					
EPA 8260D	Benzene	62.8	ug/L	50.0	11/23/21 07:09	
EPA 8260D	Ethylbenzene	508	ug/L	50.0	11/23/21 07:09	
EPA 8260D	Naphthalene	202	ug/L	50.0	11/23/21 07:09	
EPA 8260D	Toluene	1440	ug/L	50.0	11/23/21 07:09	
EPA 8260D	Xylene (Total)	2720	ug/L	50.0	11/23/21 07:09	
EPA 8260D	m&p-Xylene	1960	ug/L	100	11/23/21 07:09	
EPA 8260D	o-Xylene	758	ug/L	50.0	11/23/21 07:09	
92573219008	**MW-10**					
EPA 8260D	Benzene	5.2J	ug/L	10.0	11/24/21 07:11	
EPA 8260D	Ethylbenzene	123	ug/L	10.0	11/24/21 07:11	
EPA 8260D	Naphthalene	131	ug/L	10.0	11/24/21 07:11	
EPA 8260D	Toluene	9.2J	ug/L	10.0	11/24/21 07:11	
EPA 8260D	Xylene (Total)	410	ug/L	10.0	11/24/21 07:11	
EPA 8260D	m&p-Xylene	364	ug/L	20.0	11/24/21 07:11	
EPA 8260D	o-Xylene	46.7	ug/L	10.0	11/24/21 07:11	
92573219010	**MW-15**					
EPA 8260D	o-Xylene	3.4J	ug/L	5.0	11/19/21 05:05	
92573219012	**MW-17**					
EPA 8260D	Ethylbenzene	38.1	ug/L	5.0	11/23/21 02:56	
EPA 8260D	Naphthalene	25.0	ug/L	5.0	11/23/21 02:56	
EPA 8260D	Toluene	57.9	ug/L	5.0	11/23/21 02:56	
EPA 8260D	Xylene (Total)	106	ug/L	5.0	11/23/21 02:56	
EPA 8260D	m&p-Xylene	22.9	ug/L	10.0	11/23/21 02:56	
EPA 8260D	o-Xylene	83.3	ug/L	5.0	11/23/21 02:56	
92573219013	**MW-18**					
EPA 8011	1,2-Dibromoethane (EDB)	0.071	ug/L	0.020	11/22/21 23:11	
EPA 8260D	Benzene	933	ug/L	250	11/24/21 08:12	
EPA 8260D	Ethylbenzene	917	ug/L	250	11/24/21 08:12	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92573219013	**MW-18**					
EPA 8260D	Naphthalene	717	ug/L	250	11/24/21 08:12	
EPA 8260D	Toluene	7420	ug/L	250	11/24/21 08:12	
EPA 8260D	Xylene (Total)	8550	ug/L	250	11/24/21 08:12	
EPA 8260D	m&p-Xylene	5420	ug/L	500	11/24/21 08:12	
EPA 8260D	o-Xylene	3130	ug/L	250	11/24/21 08:12	
92573219014	**MW-19**					
EPA 8011	1,2-Dibromoethane (EDB)	0.43	ug/L	0.020	11/22/21 23:22	
EPA 8260D	Benzene	1460	ug/L	500	11/24/21 09:06	
EPA 8260D	Ethylbenzene	1510	ug/L	500	11/24/21 09:06	
EPA 8260D	Naphthalene	1090	ug/L	500	11/24/21 09:06	
EPA 8260D	Toluene	18600	ug/L	500	11/24/21 09:06	
EPA 8260D	Xylene (Total)	17600	ug/L	500	11/24/21 09:06	
EPA 8260D	m&p-Xylene	11100	ug/L	1000	11/24/21 09:06	
EPA 8260D	o-Xylene	6530	ug/L	500	11/24/21 09:06	
92573219015	**MW-20**					
EPA 8260D	Benzene	396	ug/L	200	11/24/21 05:47	
EPA 8260D	Ethylbenzene	1390	ug/L	200	11/24/21 05:47	
EPA 8260D	Naphthalene	1320	ug/L	200	11/24/21 05:47	
EPA 8260D	Toluene	3070	ug/L	200	11/24/21 05:47	
EPA 8260D	Xylene (Total)	12600	ug/L	200	11/24/21 05:47	
EPA 8260D	m&p-Xylene	10400	ug/L	400	11/24/21 05:47	
EPA 8260D	o-Xylene	2180	ug/L	200	11/24/21 05:47	
92573219016	**MW-22**					
EPA 8260D	Benzene	1240	ug/L	125	11/24/21 06:05	
EPA 8260D	Ethylbenzene	333	ug/L	125	11/24/21 06:05	
EPA 8260D	Naphthalene	701	ug/L	125	11/24/21 06:05	
EPA 8260D	Toluene	4630	ug/L	125	11/24/21 06:05	
EPA 8260D	Xylene (Total)	8600	ug/L	125	11/24/21 06:05	
EPA 8260D	m&p-Xylene	3660	ug/L	250	11/24/21 06:05	
EPA 8260D	o-Xylene	4940	ug/L	125	11/24/21 06:05	
92573219017	**MW-23**					
EPA 8260D	Benzene	148	ug/L	50.0	11/23/21 05:39	
EPA 8260D	Ethylbenzene	143	ug/L	50.0	11/23/21 05:39	
EPA 8260D	Naphthalene	246	ug/L	50.0	11/23/21 05:39	
EPA 8260D	Toluene	1180	ug/L	50.0	11/23/21 05:39	
EPA 8260D	Xylene (Total)	1780	ug/L	50.0	11/23/21 05:39	
EPA 8260D	m&p-Xylene	1180	ug/L	100	11/23/21 05:39	
EPA 8260D	o-Xylene	596	ug/L	50.0	11/23/21 05:39	
92573219018	**MW-25**					
EPA 8260D	Ethylbenzene	103	ug/L	5.0	11/19/21 05:42	
EPA 8260D	Naphthalene	167	ug/L	5.0	11/19/21 05:42	
EPA 8260D	Toluene	5.0J	ug/L	5.0	11/19/21 05:42	
EPA 8260D	Xylene (Total)	134	ug/L	5.0	11/19/21 05:42	
EPA 8260D	m&p-Xylene	89.6	ug/L	10.0	11/19/21 05:42	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92573219018	**MW-25**					
EPA 8260D	o-Xylene	44.5	ug/L	5.0	11/19/21 05:42	
92573219019	**MW-26**					
EPA 8260D	Naphthalene	8.0	ug/L	5.0	11/19/21 06:00	
92573219024	**MW-31**					
EPA 8260D	tert-Amyl Alcohol	119	ug/L	100	11/19/21 07:30	
EPA 8260D	Benzene	7.4	ug/L	5.0	11/19/21 07:30	
EPA 8260D	Ethylbenzene	76.8	ug/L	5.0	11/19/21 07:30	
EPA 8260D	Naphthalene	138	ug/L	5.0	11/19/21 07:30	
EPA 8260D	Toluene	18.5	ug/L	5.0	11/19/21 07:30	
EPA 8260D	Xylene (Total)	87.1	ug/L	5.0	11/19/21 07:30	
EPA 8260D	m&p-Xylene	58.7	ug/L	10.0	11/19/21 07:30	
EPA 8260D	o-Xylene	28.5	ug/L	5.0	11/19/21 07:30	
92573219025	**MW-32**					
EPA 8260D	Naphthalene	9.8	ug/L	5.0	11/23/21 03:14	
92573219026	**MW-33**					
EPA 8260D	tert-Amyl Alcohol	109	ug/L	100	11/19/21 08:06	
EPA 8260D	Benzene	14.2	ug/L	5.0	11/19/21 08:06	
EPA 8260D	Ethylbenzene	8.8	ug/L	5.0	11/19/21 08:06	
EPA 8260D	Naphthalene	91.7	ug/L	5.0	11/19/21 08:06	
EPA 8260D	Toluene	18.7	ug/L	5.0	11/19/21 08:06	
EPA 8260D	Xylene (Total)	533	ug/L	5.0	11/19/21 08:06	
EPA 8260D	m&p-Xylene	397	ug/L	10.0	11/19/21 08:06	
EPA 8260D	o-Xylene	136	ug/L	5.0	11/19/21 08:06	
92573219027	**MW-35**					
EPA 8260D	Benzene	183	ug/L	50.0	11/23/21 07:27	
EPA 8260D	Ethylbenzene	1610	ug/L	50.0	11/23/21 07:27	
EPA 8260D	Naphthalene	636	ug/L	50.0	11/23/21 07:27	M1
EPA 8260D	Toluene	337	ug/L	50.0	11/23/21 07:27	
EPA 8260D	Xylene (Total)	1240	ug/L	50.0	11/23/21 07:27	
EPA 8260D	m&p-Xylene	1040	ug/L	100	11/23/21 07:27	
EPA 8260D	o-Xylene	200	ug/L	50.0	11/23/21 07:27	
92573219028	**MW-36**					
EPA 8260D	Naphthalene	42.1	ug/L	5.0	11/19/21 00:54	
92573219040	**MW-55**					
EPA 8260D	tert-Amyl Alcohol	901	ug/L	250	11/20/21 07:21	
EPA 8260D	Benzene	280	ug/L	12.5	11/20/21 07:21	
EPA 8260D	Diisopropyl ether	20.7	ug/L	12.5	11/20/21 07:21	
EPA 8260D	Ethylbenzene	378	ug/L	12.5	11/20/21 07:21	
EPA 8260D	Methyl-tert-butyl ether	69.9	ug/L	12.5	11/20/21 07:21	
EPA 8260D	Naphthalene	113	ug/L	12.5	11/20/21 07:21	
EPA 8260D	Toluene	43.9	ug/L	12.5	11/20/21 07:21	
EPA 8260D	Xylene (Total)	520	ug/L	12.5	11/20/21 07:21	
EPA 8260D	m&p-Xylene	486	ug/L	25.0	11/20/21 07:21	

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SUMMARY OF DETECTION

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92573219040	**MW-55**					
EPA 8260D	o-Xylene	34.2	ug/L	12.5	11/20/21 07:21	
92573219041	**MW-62**					
EPA 8260D	tert-Amyl Alcohol	146	ug/L	100	11/19/21 01:50	
EPA 8260D	Benzene	8.6	ug/L	5.0	11/19/21 01:50	
EPA 8260D	Naphthalene	18.3	ug/L	5.0	11/19/21 01:50	
92573219043	**MW-SAR**					
EPA 8260D	Benzene	4740	ug/L	200	11/24/21 07:53	
EPA 8260D	Ethylbenzene	1110	ug/L	200	11/24/21 07:53	
EPA 8260D	Naphthalene	744	ug/L	200	11/24/21 07:53	
EPA 8260D	Toluene	110J	ug/L	200	11/24/21 07:53	
EPA 8260D	Xylene (Total)	346	ug/L	200	11/24/21 07:53	
EPA 8260D	m&p-Xylene	346J	ug/L	400	11/24/21 07:53	
92573219044	**PW-1R**					
EPA 8260D	Benzene	74.2	ug/L	20.0	11/23/21 05:02	
EPA 8260D	Ethylbenzene	185	ug/L	20.0	11/23/21 05:02	
EPA 8260D	Naphthalene	227	ug/L	20.0	11/23/21 05:02	
EPA 8260D	Toluene	58.3	ug/L	20.0	11/23/21 05:02	
EPA 8260D	Xylene (Total)	1220	ug/L	20.0	11/23/21 05:02	
EPA 8260D	m&p-Xylene	949	ug/L	40.0	11/23/21 05:02	
EPA 8260D	o-Xylene	268	ug/L	20.0	11/23/21 05:02	
92573219046	**DW-3**					
EPA 8260D	tert-Amyl Alcohol	2090	ug/L	500	11/20/21 08:14	M1
EPA 8260D	tert-Amylmethyl ether	30.3J	ug/L	50.0	11/20/21 08:14	
EPA 8260D	Benzene	791	ug/L	25.0	11/20/21 08:14	M1
EPA 8260D	Diisopropyl ether	103	ug/L	25.0	11/20/21 08:14	
EPA 8260D	Ethylbenzene	265	ug/L	25.0	11/20/21 08:14	
EPA 8260D	Methyl-tert-butyl ether	84.9	ug/L	25.0	11/20/21 08:14	
EPA 8260D	Naphthalene	137	ug/L	25.0	11/20/21 08:14	
EPA 8260D	Toluene	16.2J	ug/L	25.0	11/20/21 08:14	
EPA 8260D	Xylene (Total)	792	ug/L	25.0	11/20/21 08:14	RS
EPA 8260D	m&p-Xylene	792	ug/L	50.0	11/20/21 08:14	
92573219048	**DW-5**					
EPA 8260D	tert-Amyl Alcohol	5370	ug/L	2500	11/24/21 06:41	
EPA 8260D	Benzene	3840	ug/L	125	11/24/21 06:41	
EPA 8260D	Diisopropyl ether	250	ug/L	125	11/24/21 06:41	
EPA 8260D	Ethylbenzene	534	ug/L	125	11/24/21 06:41	
EPA 8260D	Methyl-tert-butyl ether	337	ug/L	125	11/24/21 06:41	
EPA 8260D	Naphthalene	253	ug/L	125	11/24/21 06:41	
EPA 8260D	Toluene	2260	ug/L	125	11/24/21 06:41	
EPA 8260D	Xylene (Total)	2890	ug/L	125	11/24/21 06:41	
EPA 8260D	m&p-Xylene	1860	ug/L	250	11/24/21 06:41	
EPA 8260D	o-Xylene	1030	ug/L	125	11/24/21 06:41	
92573219051	**UNK-1**					
EPA 8260D	Benzene	229	ug/L	25.0	11/20/21 08:32	

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SUMMARY OF DETECTION

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92573219051	**UNK-1**					
EPA 8260D	Ethylbenzene	135	ug/L	25.0	11/20/21 08:32	
EPA 8260D	Naphthalene	67.9	ug/L	25.0	11/20/21 08:32	
EPA 8260D	Toluene	875	ug/L	25.0	11/20/21 08:32	
EPA 8260D	Xylene (Total)	1470	ug/L	25.0	11/20/21 08:32	
EPA 8260D	m&p-Xylene	835	ug/L	50.0	11/20/21 08:32	
EPA 8260D	o-Xylene	640	ug/L	25.0	11/20/21 08:32	
92573219052	**UNK-3**					
EPA 8011	1,2-Dibromoethane (EDB)	0.015J	ug/L	0.019	11/22/21 22:56	
EPA 8260D	Benzene	24.9	ug/L	5.0	11/19/21 02:08	
EPA 8260D	Naphthalene	8.8	ug/L	5.0	11/19/21 02:08	
EPA 8260D	Toluene	25.0	ug/L	5.0	11/19/21 02:08	
EPA 8260D	Xylene (Total)	133	ug/L	5.0	11/19/21 02:08	
EPA 8260D	m&p-Xylene	80.5	ug/L	10.0	11/19/21 02:08	
EPA 8260D	o-Xylene	52.5	ug/L	5.0	11/19/21 02:08	
92573219053	**UNK-4**					
EPA 8260D	Benzene	9.2	ug/L	5.0	11/20/21 07:03	
EPA 8260D	Ethylbenzene	32.8	ug/L	5.0	11/20/21 07:03	
EPA 8260D	Naphthalene	23.7	ug/L	5.0	11/20/21 07:03	
EPA 8260D	Toluene	7.4	ug/L	5.0	11/20/21 07:03	
EPA 8260D	Xylene (Total)	10.5	ug/L	5.0	11/20/21 07:03	
EPA 8260D	m&p-Xylene	6.4J	ug/L	10.0	11/20/21 07:03	
EPA 8260D	o-Xylene	4.2J	ug/L	5.0	11/20/21 07:03	
92573219054	**UNK-5**					
EPA 8260D	Ethylbenzene	144	ug/L	10.0	11/23/21 03:50	
EPA 8260D	Naphthalene	105	ug/L	10.0	11/23/21 03:50	
EPA 8260D	Toluene	193	ug/L	10.0	11/23/21 03:50	
EPA 8260D	Xylene (Total)	422	ug/L	10.0	11/23/21 03:50	
EPA 8260D	m&p-Xylene	251	ug/L	20.0	11/23/21 03:50	
EPA 8260D	o-Xylene	172	ug/L	10.0	11/23/21 03:50	
92573219055	**SW-1**					
EPA 8260D	tert-Amyl Alcohol	162	ug/L	100	11/19/21 17:22	
EPA 8260D	Benzene	58.3	ug/L	1.0	11/19/21 17:22	
EPA 8260D	Diisopropyl ether	5.3	ug/L	1.0	11/19/21 17:22	
EPA 8260D	Ethylbenzene	24.6	ug/L	1.0	11/19/21 17:22	
EPA 8260D	Methyl-tert-butyl ether	4.6	ug/L	1.0	11/19/21 17:22	
EPA 8260D	Naphthalene	11.9	ug/L	1.0	11/19/21 17:22	
EPA 8260D	Toluene	3.8	ug/L	1.0	11/19/21 17:22	
EPA 8260D	Xylene (Total)	34.5	ug/L	1.0	11/19/21 17:22	
EPA 8260D	m&p-Xylene	33.6	ug/L	2.0	11/19/21 17:22	
EPA 8260D	o-Xylene	0.87J	ug/L	1.0	11/19/21 17:22	
92573219056	**DUP-1**					
EPA 8260D	Benzene	5.5J	ug/L	10.0	11/24/21 07:29	
EPA 8260D	Ethylbenzene	135	ug/L	10.0	11/24/21 07:29	
EPA 8260D	Naphthalene	137	ug/L	10.0	11/24/21 07:29	

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SUMMARY OF DETECTION

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92573219056	**DUP-1**					
EPA 8260D	Toluene	10.1	ug/L	10.0	11/24/21 07:29	
EPA 8260D	Xylene (Total)	450	ug/L	10.0	11/24/21 07:29	
EPA 8260D	m&p-Xylene	398	ug/L	20.0	11/24/21 07:29	
EPA 8260D	o-Xylene	52.2	ug/L	10.0	11/24/21 07:29	
92573219057	**DUP-2**					
EPA 8260D	Benzene	211	ug/L	50.0	11/23/21 06:51	
EPA 8260D	Ethylbenzene	156	ug/L	50.0	11/23/21 06:51	
EPA 8260D	Naphthalene	101	ug/L	50.0	11/23/21 06:51	
EPA 8260D	Toluene	996	ug/L	50.0	11/23/21 06:51	
EPA 8260D	Xylene (Total)	1600	ug/L	50.0	11/23/21 06:51	
EPA 8260D	m&p-Xylene	931	ug/L	100	11/23/21 06:51	
EPA 8260D	o-Xylene	673	ug/L	50.0	11/23/21 06:51	
92573219058	**DUP-3**					
EPA 8260D	tert-Amyl Alcohol	945	ug/L	250	11/23/21 04:08	
EPA 8260D	Benzene	277	ug/L	12.5	11/23/21 04:08	
EPA 8260D	Diisopropyl ether	20.5	ug/L	12.5	11/23/21 04:08	
EPA 8260D	Ethylbenzene	379	ug/L	12.5	11/23/21 04:08	
EPA 8260D	Methyl-tert-butyl ether	58.2	ug/L	12.5	11/23/21 04:08	
EPA 8260D	Naphthalene	114	ug/L	12.5	11/23/21 04:08	
EPA 8260D	Toluene	45.8	ug/L	12.5	11/23/21 04:08	
EPA 8260D	Xylene (Total)	503	ug/L	12.5	11/23/21 04:08	
EPA 8260D	m&p-Xylene	470	ug/L	25.0	11/23/21 04:08	
EPA 8260D	o-Xylene	32.9	ug/L	12.5	11/23/21 04:08	

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PROJECT NARRATIVE

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Method: **EPA 8011**
Description: 8011 GCS EDB and DBCP
Client: SCDHEC
Date: November 30, 2021

General Information:
58 samples were analyzed for EPA 8011 by Pace Analytical Services Charlotte. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 8011 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: 661476

S4: Surrogate recovery not evaluated against control limits due to sample dilution.
- MW-3 (Lab ID: 92573219002)
  - 1-Chloro-2-bromopropane (S)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 661476

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92573219002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
- MS (Lab ID: 3465705)
  - 1,2-Dibromoethane (EDB)
- MSD (Lab ID: 3465706)
  - 1,2-Dibromoethane (EDB)

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

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PROJECT NARRATIVE

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Method: **EPA 8011**
Description: 8011 GCS EDB and DBCP
Client: SCDHEC
Date: November 30, 2021

Additional Comments:

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PROJECT NARRATIVE

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Method: **EPA 8260D**
Description: 8260 MSV Low Level SC
Client: SCDHEC
Date: November 30, 2021

General Information:
1 sample was analyzed for EPA 8260D by Pace Analytical Services Charlotte. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

QC Batch: 661077

v2: The continuing calibration verification was below the method acceptance limit. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.

- BLANK (Lab ID: 3463883)
  - 3,3-Dimethyl-1-Butanol
- SW-1 (Lab ID: 92573219055)
  - 3,3-Dimethyl-1-Butanol

v3: The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have low bias.

- LCS (Lab ID: 3463884)
  - 3,3-Dimethyl-1-Butanol

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Method: **EPA 8260D**
Description: 8260 MSV
Client: SCDHEC
Date: November 30, 2021

General Information:
59 samples were analyzed for EPA 8260D by Pace Analytical Services Charlotte. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

QC Batch: 660981

v3: The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have low bias.

- MS (Lab ID: 3463661)
  - 1,2-Dichloroethane
  - Diisopropyl ether
- MSD (Lab ID: 3463662)
  - 1,2-Dichloroethane
  - Diisopropyl ether

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 660929

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92573219003

P5: The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

- MS (Lab ID: 3463248)
  - tert-Butyl Formate

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PROJECT NARRATIVE

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Method: **EPA 8260D**
Description: 8260 MSV
Client: SCDHEC
Date: November 30, 2021

QC Batch: 660929

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92573219003

P5: The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

- MSD (Lab ID: 3463249)
  - tert-Butyl Formate

QC Batch: 661264

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92572987032

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3464709)
  - Ethylbenzene
  - Naphthalene
  - m&p-Xylene
  - o-Xylene
- MSD (Lab ID: 3464710)
  - Benzene
  - Ethylbenzene
  - Naphthalene
  - Toluene
  - m&p-Xylene
  - o-Xylene

P5: The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

- MS (Lab ID: 3464709)
  - tert-Butyl Formate
- MSD (Lab ID: 3464710)
  - tert-Butyl Formate

QC Batch: 661269

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92573219046

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3464740)
  - Benzene
  - tert-Amyl Alcohol
- MSD (Lab ID: 3464741)
  - Benzene

R1: RPD value was outside control limits.

- MSD (Lab ID: 3464741)
  - o-Xylene

QC Batch: 661570

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92573219027

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MSD (Lab ID: 3466343)
  - Naphthalene

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Method: **EPA 8260D**
Description: 8260 MSV
Client: SCDHEC
Date: November 30, 2021

Additional Comments:

Analyte Comments:

QC Batch: 661269

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MS (Lab ID: 3464740)
  - Benzene

QC Batch: 661570

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- MW-2 (Lab ID: 92573219001)
  - 4-Bromofluorobenzene (S)

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Sample: MW-2 **Lab ID: 92573219001** Collected: 11/15/21 14:07 Received: 11/17/21 11:05 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0070	1	11/22/21 12:00	11/22/21 20:31	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	107	%	60-140		1	11/22/21 12:00	11/22/21 20:31	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	200	131	2		11/23/21 03:32	75-85-4	
tert-Amylmethyl ether	ND	ug/L	20.0	6.1	2		11/23/21 03:32	994-05-8	
Benzene	**16.1**	ug/L	10.0	3.5	2		11/23/21 03:32	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	200	108	2		11/23/21 03:32	624-95-3	
tert-Butyl Alcohol	ND	ug/L	200	182	2		11/23/21 03:32	75-65-0	
tert-Butyl Formate	ND	ug/L	100	48.2	2		11/23/21 03:32	762-75-4	
1,2-Dichloroethane	ND	ug/L	10.0	4.1	2		11/23/21 03:32	107-06-2	
Diisopropyl ether	ND	ug/L	10.0	7.0	2		11/23/21 03:32	108-20-3	
Ethanol	ND	ug/L	400	288	2		11/23/21 03:32	64-17-5	
Ethylbenzene	**85.1**	ug/L	10.0	3.7	2		11/23/21 03:32	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	20.0	16.9	2		11/23/21 03:32	637-92-3	
Methyl-tert-butyl ether	**48.0**	ug/L	10.0	6.2	2		11/23/21 03:32	1634-04-4	
Naphthalene	**77.6**	ug/L	10.0	4.2	2		11/23/21 03:32	91-20-3	
Toluene	ND	ug/L	10.0	4.0	2		11/23/21 03:32	108-88-3	
Xylene (Total)	**56.1**	ug/L	10.0	10.0	2		11/23/21 03:32	1330-20-7	
m&p-Xylene	**56.1**	ug/L	20.0	8.2	2		11/23/21 03:32	179601-23-1	
o-Xylene	ND	ug/L	10.0	4.1	2		11/23/21 03:32	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		2		11/23/21 03:32	460-00-4	D3
1,2-Dichloroethane-d4 (S)	96	%	70-130		2		11/23/21 03:32	17060-07-0	
Toluene-d8 (S)	108	%	70-130		2		11/23/21 03:32	2037-26-5	

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ANALYTICAL RESULTS

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Sample: MW-3 **Lab ID: 92573219002** Collected: 11/15/21 14:23 Received: 11/17/21 11:05 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	**26.8**	ug/L	1.0	0.35	50	11/22/21 12:00	11/23/21 10:12	106-93-4	M1
Surrogates									
1-Chloro-2-bromopropane (S)	0	%	60-140		50	11/22/21 12:00	11/23/21 10:12	301-79-56	S4
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	12500	8200	125		11/24/21 08:48	75-85-4	
tert-Amylmethyl ether	ND	ug/L	1250	380	125		11/24/21 08:48	994-05-8	
Benzene	**3340**	ug/L	625	218	125		11/24/21 08:48	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	12500	6740	125		11/24/21 08:48	624-95-3	
tert-Butyl Alcohol	ND	ug/L	12500	11400	125		11/24/21 08:48	75-65-0	
tert-Butyl Formate	ND	ug/L	6250	3010	125		11/24/21 08:48	762-75-4	
1,2-Dichloroethane	ND	ug/L	625	258	125		11/24/21 08:48	107-06-2	
Diisopropyl ether	ND	ug/L	625	436	125		11/24/21 08:48	108-20-3	
Ethanol	ND	ug/L	25000	18000	125		11/24/21 08:48	64-17-5	
Ethylbenzene	**1410**	ug/L	625	230	125		11/24/21 08:48	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	1250	1060	125		11/24/21 08:48	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	625	388	125		11/24/21 08:48	1634-04-4	
Naphthalene	**768**	ug/L	625	261	125		11/24/21 08:48	91-20-3	
Toluene	**22800**	ug/L	625	251	125		11/24/21 08:48	108-88-3	
Xylene (Total)	**16100**	ug/L	625	625	125		11/24/21 08:48	1330-20-7	
m&p-Xylene	**10200**	ug/L	1250	514	125		11/24/21 08:48	179601-23-1	
o-Xylene	**5850**	ug/L	625	255	125		11/24/21 08:48	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		125		11/24/21 08:48	460-00-4	
1,2-Dichloroethane-d4 (S)	85	%	70-130		125		11/24/21 08:48	17060-07-0	
Toluene-d8 (S)	103	%	70-130		125		11/24/21 08:48	2037-26-5	

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ANALYTICAL RESULTS

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Sample: MW-4 **Lab ID: 92573219003** Collected: 11/15/21 14:17 Received: 11/17/21 11:05 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0070	1	11/22/21 12:00	11/22/21 21:25	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	101	%	60-140		1	11/22/21 12:00	11/22/21 21:25	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		11/19/21 03:35	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		11/19/21 03:35	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		11/19/21 03:35	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		11/19/21 03:35	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		11/19/21 03:35	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		11/19/21 03:35	762-75-4	P5
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		11/19/21 03:35	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		11/19/21 03:35	108-20-3	
Ethanol	ND	ug/L	200	144	1		11/19/21 03:35	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		11/19/21 03:35	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		11/19/21 03:35	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		11/19/21 03:35	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		11/19/21 03:35	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		11/19/21 03:35	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		11/19/21 03:35	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		11/19/21 03:35	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		11/19/21 03:35	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		11/19/21 03:35	460-00-4	
1,2-Dichloroethane-d4 (S)	90	%	70-130		1		11/19/21 03:35	17060-07-0	
Toluene-d8 (S)	111	%	70-130		1		11/19/21 03:35	2037-26-5	

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ANALYTICAL RESULTS

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Sample: MW-6 **Lab ID: 92573219004** Collected: 11/15/21 12:45 Received: 11/17/21 11:05 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0069	1	11/22/21 12:00	11/22/21 21:35	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	101	%	60-140		1	11/22/21 12:00	11/22/21 21:35	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		11/19/21 03:53	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		11/19/21 03:53	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		11/19/21 03:53	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		11/19/21 03:53	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		11/19/21 03:53	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		11/19/21 03:53	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		11/19/21 03:53	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		11/19/21 03:53	108-20-3	
Ethanol	ND	ug/L	200	144	1		11/19/21 03:53	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		11/19/21 03:53	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		11/19/21 03:53	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		11/19/21 03:53	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		11/19/21 03:53	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		11/19/21 03:53	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		11/19/21 03:53	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		11/19/21 03:53	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		11/19/21 03:53	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		11/19/21 03:53	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	70-130		1		11/19/21 03:53	17060-07-0	
Toluene-d8 (S)	114	%	70-130		1		11/19/21 03:53	2037-26-5	

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ANALYTICAL RESULTS

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Sample: MW-7 **Lab ID: 92573219005** Collected: 11/15/21 13:00 Received: 11/17/21 11:05 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0068	1	11/22/21 12:00	11/22/21 21:46	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	103	%	60-140		1	11/22/21 12:00	11/22/21 21:46	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		11/19/21 04:11	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		11/19/21 04:11	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		11/19/21 04:11	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		11/19/21 04:11	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		11/19/21 04:11	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		11/19/21 04:11	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		11/19/21 04:11	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		11/19/21 04:11	108-20-3	
Ethanol	ND	ug/L	200	144	1		11/19/21 04:11	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		11/19/21 04:11	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		11/19/21 04:11	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		11/19/21 04:11	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		11/19/21 04:11	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		11/19/21 04:11	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		11/19/21 04:11	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		11/19/21 04:11	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		11/19/21 04:11	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		11/19/21 04:11	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	70-130		1		11/19/21 04:11	17060-07-0	
Toluene-d8 (S)	108	%	70-130		1		11/19/21 04:11	2037-26-5	

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ANALYTICAL RESULTS

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Sample: MW-8 **Lab ID: 92573219006** Collected: 11/15/21 12:50 Received: 11/17/21 11:05 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0069	1	11/22/21 12:00	11/22/21 21:57	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	99	%	60-140		1	11/22/21 12:00	11/22/21 21:57	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		11/19/21 04:29	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		11/19/21 04:29	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		11/19/21 04:29	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		11/19/21 04:29	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		11/19/21 04:29	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		11/19/21 04:29	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		11/19/21 04:29	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		11/19/21 04:29	108-20-3	
Ethanol	ND	ug/L	200	144	1		11/19/21 04:29	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		11/19/21 04:29	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		11/19/21 04:29	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		11/19/21 04:29	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		11/19/21 04:29	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		11/19/21 04:29	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		11/19/21 04:29	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		11/19/21 04:29	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		11/19/21 04:29	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		11/19/21 04:29	460-00-4	
1,2-Dichloroethane-d4 (S)	90	%	70-130		1		11/19/21 04:29	17060-07-0	
Toluene-d8 (S)	111	%	70-130		1		11/19/21 04:29	2037-26-5	

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ANALYTICAL RESULTS

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Sample: MW-9 **Lab ID: 92573219007** Collected: 11/15/21 09:58 Received: 11/17/21 11:05 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0069	1	11/22/21 12:00	11/22/21 22:07	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	99	%	60-140		1	11/22/21 12:00	11/22/21 22:07	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	1000	656	10		11/23/21 07:09	75-85-4	
tert-Amylmethyl ether	ND	ug/L	100	30.4	10		11/23/21 07:09	994-05-8	
Benzene	**62.8**	ug/L	50.0	17.4	10		11/23/21 07:09	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	1000	539	10		11/23/21 07:09	624-95-3	
tert-Butyl Alcohol	ND	ug/L	1000	910	10		11/23/21 07:09	75-65-0	
tert-Butyl Formate	ND	ug/L	500	241	10		11/23/21 07:09	762-75-4	
1,2-Dichloroethane	ND	ug/L	50.0	20.6	10		11/23/21 07:09	107-06-2	
Diisopropyl ether	ND	ug/L	50.0	34.9	10		11/23/21 07:09	108-20-3	
Ethanol	ND	ug/L	2000	1440	10		11/23/21 07:09	64-17-5	
Ethylbenzene	**508**	ug/L	50.0	18.4	10		11/23/21 07:09	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	100	84.6	10		11/23/21 07:09	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	50.0	31.0	10		11/23/21 07:09	1634-04-4	
Naphthalene	**202**	ug/L	50.0	20.9	10		11/23/21 07:09	91-20-3	
Toluene	**1440**	ug/L	50.0	20.1	10		11/23/21 07:09	108-88-3	
Xylene (Total)	**2720**	ug/L	50.0	50.0	10		11/23/21 07:09	1330-20-7	
m&p-Xylene	**1960**	ug/L	100	41.1	10		11/23/21 07:09	179601-23-1	
o-Xylene	**758**	ug/L	50.0	20.4	10		11/23/21 07:09	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		10		11/23/21 07:09	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130		10		11/23/21 07:09	17060-07-0	
Toluene-d8 (S)	103	%	70-130		10		11/23/21 07:09	2037-26-5	

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ANALYTICAL RESULTS

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Sample: MW-10 **Lab ID: 92573219008** Collected: 11/15/21 09:33 Received: 11/17/21 11:05 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0070	1	11/22/21 12:00	11/22/21 22:18	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	103	%	60-140		1	11/22/21 12:00	11/22/21 22:18	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	200	131	2		11/24/21 07:11	75-85-4	
tert-Amylmethyl ether	ND	ug/L	20.0	6.1	2		11/24/21 07:11	994-05-8	
Benzene	**5.2J**	ug/L	10.0	3.5	2		11/24/21 07:11	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	200	108	2		11/24/21 07:11	624-95-3	
tert-Butyl Alcohol	ND	ug/L	200	182	2		11/24/21 07:11	75-65-0	
tert-Butyl Formate	ND	ug/L	100	48.2	2		11/24/21 07:11	762-75-4	
1,2-Dichloroethane	ND	ug/L	10.0	4.1	2		11/24/21 07:11	107-06-2	
Diisopropyl ether	ND	ug/L	10.0	7.0	2		11/24/21 07:11	108-20-3	
Ethanol	ND	ug/L	400	288	2		11/24/21 07:11	64-17-5	
Ethylbenzene	**123**	ug/L	10.0	3.7	2		11/24/21 07:11	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	20.0	16.9	2		11/24/21 07:11	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	10.0	6.2	2		11/24/21 07:11	1634-04-4	
Naphthalene	**131**	ug/L	10.0	4.2	2		11/24/21 07:11	91-20-3	
Toluene	**9.2J**	ug/L	10.0	4.0	2		11/24/21 07:11	108-88-3	
Xylene (Total)	**410**	ug/L	10.0	10.0	2		11/24/21 07:11	1330-20-7	
m&p-Xylene	**364**	ug/L	20.0	8.2	2		11/24/21 07:11	179601-23-1	
o-Xylene	**46.7**	ug/L	10.0	4.1	2		11/24/21 07:11	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		2		11/24/21 07:11	460-00-4	
1,2-Dichloroethane-d4 (S)	81	%	70-130		2		11/24/21 07:11	17060-07-0	
Toluene-d8 (S)	97	%	70-130		2		11/24/21 07:11	2037-26-5	

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ANALYTICAL RESULTS

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Sample: MW-11 **Lab ID: 92573219009** Collected: 11/15/21 09:41 Received: 11/17/21 11:05 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.022	0.0075	1	11/22/21 12:00	11/22/21 22:28	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	103	%	60-140		1	11/22/21 12:00	11/22/21 22:28	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		11/19/21 04:47	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		11/19/21 04:47	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		11/19/21 04:47	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		11/19/21 04:47	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		11/19/21 04:47	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		11/19/21 04:47	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		11/19/21 04:47	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		11/19/21 04:47	108-20-3	
Ethanol	ND	ug/L	200	144	1		11/19/21 04:47	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		11/19/21 04:47	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		11/19/21 04:47	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		11/19/21 04:47	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		11/19/21 04:47	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		11/19/21 04:47	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		11/19/21 04:47	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		11/19/21 04:47	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		11/19/21 04:47	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		11/19/21 04:47	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	70-130		1		11/19/21 04:47	17060-07-0	
Toluene-d8 (S)	109	%	70-130		1		11/19/21 04:47	2037-26-5	

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ANALYTICAL RESULTS

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Sample: MW-15 **Lab ID: 92573219010** Collected: 11/15/21 10:07 Received: 11/17/21 11:05 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.021	0.0075	1	11/22/21 12:00	11/22/21 22:39	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	100	%	60-140		1	11/22/21 12:00	11/22/21 22:39	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		11/19/21 05:05	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		11/19/21 05:05	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		11/19/21 05:05	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		11/19/21 05:05	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		11/19/21 05:05	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		11/19/21 05:05	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		11/19/21 05:05	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		11/19/21 05:05	108-20-3	
Ethanol	ND	ug/L	200	144	1		11/19/21 05:05	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		11/19/21 05:05	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		11/19/21 05:05	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		11/19/21 05:05	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		11/19/21 05:05	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		11/19/21 05:05	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		11/19/21 05:05	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		11/19/21 05:05	179601-23-1	
o-Xylene	**3.4J**	ug/L	5.0	2.0	1		11/19/21 05:05	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		11/19/21 05:05	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	70-130		1		11/19/21 05:05	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		11/19/21 05:05	2037-26-5	

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ANALYTICAL RESULTS

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Sample: MW-16 **Lab ID: 92573219011** Collected: 11/15/21 12:07 Received: 11/17/21 11:05 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.021	0.0074	1	11/22/21 12:00	11/22/21 22:50	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	104	%	60-140		1	11/22/21 12:00	11/22/21 22:50	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		11/19/21 05:24	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		11/19/21 05:24	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		11/19/21 05:24	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		11/19/21 05:24	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		11/19/21 05:24	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		11/19/21 05:24	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		11/19/21 05:24	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		11/19/21 05:24	108-20-3	
Ethanol	ND	ug/L	200	144	1		11/19/21 05:24	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		11/19/21 05:24	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		11/19/21 05:24	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		11/19/21 05:24	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		11/19/21 05:24	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		11/19/21 05:24	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		11/19/21 05:24	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		11/19/21 05:24	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		11/19/21 05:24	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		11/19/21 05:24	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	70-130		1		11/19/21 05:24	17060-07-0	
Toluene-d8 (S)	109	%	70-130		1		11/19/21 05:24	2037-26-5	

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ANALYTICAL RESULTS

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Sample: MW-17 **Lab ID: 92573219012** Collected: 11/15/21 12:16 Received: 11/17/21 11:05 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0071	1	11/22/21 12:00	11/22/21 23:00	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	101	%	60-140		1	11/22/21 12:00	11/22/21 23:00	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		11/23/21 02:56	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		11/23/21 02:56	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		11/23/21 02:56	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		11/23/21 02:56	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		11/23/21 02:56	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		11/23/21 02:56	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		11/23/21 02:56	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		11/23/21 02:56	108-20-3	
Ethanol	ND	ug/L	200	144	1		11/23/21 02:56	64-17-5	
Ethylbenzene	**38.1**	ug/L	5.0	1.8	1		11/23/21 02:56	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		11/23/21 02:56	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		11/23/21 02:56	1634-04-4	
Naphthalene	**25.0**	ug/L	5.0	2.1	1		11/23/21 02:56	91-20-3	
Toluene	**57.9**	ug/L	5.0	2.0	1		11/23/21 02:56	108-88-3	
Xylene (Total)	**106**	ug/L	5.0	5.0	1		11/23/21 02:56	1330-20-7	
m&p-Xylene	**22.9**	ug/L	10.0	4.1	1		11/23/21 02:56	179601-23-1	
o-Xylene	**83.3**	ug/L	5.0	2.0	1		11/23/21 02:56	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		11/23/21 02:56	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		11/23/21 02:56	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		11/23/21 02:56	2037-26-5	

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ANALYTICAL RESULTS

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Sample: MW-18 **Lab ID: 92573219013** Collected: 11/15/21 11:43 Received: 11/17/21 11:05 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	**0.071**	ug/L	0.020	0.0070	1	11/22/21 12:00	11/22/21 23:11	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	101	%	60-140		1	11/22/21 12:00	11/22/21 23:11	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	5000	3280	50		11/24/21 08:12	75-85-4	
tert-Amylmethyl ether	ND	ug/L	500	152	50		11/24/21 08:12	994-05-8	
Benzene	**933**	ug/L	250	87.0	50		11/24/21 08:12	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	5000	2700	50		11/24/21 08:12	624-95-3	
tert-Butyl Alcohol	ND	ug/L	5000	4550	50		11/24/21 08:12	75-65-0	
tert-Butyl Formate	ND	ug/L	2500	1200	50		11/24/21 08:12	762-75-4	
1,2-Dichloroethane	ND	ug/L	250	103	50		11/24/21 08:12	107-06-2	
Diisopropyl ether	ND	ug/L	250	174	50		11/24/21 08:12	108-20-3	
Ethanol	ND	ug/L	10000	7200	50		11/24/21 08:12	64-17-5	
Ethylbenzene	**917**	ug/L	250	92.0	50		11/24/21 08:12	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	500	423	50		11/24/21 08:12	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	250	155	50		11/24/21 08:12	1634-04-4	
Naphthalene	**717**	ug/L	250	104	50		11/24/21 08:12	91-20-3	
Toluene	**7420**	ug/L	250	100	50		11/24/21 08:12	108-88-3	
Xylene (Total)	**8550**	ug/L	250	250	50		11/24/21 08:12	1330-20-7	
m&p-Xylene	**5420**	ug/L	500	206	50		11/24/21 08:12	179601-23-1	
o-Xylene	**3130**	ug/L	250	102	50		11/24/21 08:12	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		50		11/24/21 08:12	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%	70-130		50		11/24/21 08:12	17060-07-0	
Toluene-d8 (S)	108	%	70-130		50		11/24/21 08:12	2037-26-5	

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ANALYTICAL RESULTS

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Sample: MW-19 **Lab ID: 92573219014** Collected: 11/15/21 11:08 Received: 11/17/21 11:05 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	**0.43**	ug/L	0.020	0.0068	1	11/22/21 12:00	11/22/21 23:22	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	105	%	60-140		1	11/22/21 12:00	11/22/21 23:22	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	10000	6560	100		11/24/21 09:06	75-85-4	
tert-Amylmethyl ether	ND	ug/L	1000	304	100		11/24/21 09:06	994-05-8	
Benzene	**1460**	ug/L	500	174	100		11/24/21 09:06	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	10000	5390	100		11/24/21 09:06	624-95-3	
tert-Butyl Alcohol	ND	ug/L	10000	9100	100		11/24/21 09:06	75-65-0	
tert-Butyl Formate	ND	ug/L	5000	2410	100		11/24/21 09:06	762-75-4	
1,2-Dichloroethane	ND	ug/L	500	206	100		11/24/21 09:06	107-06-2	
Diisopropyl ether	ND	ug/L	500	349	100		11/24/21 09:06	108-20-3	
Ethanol	ND	ug/L	20000	14400	100		11/24/21 09:06	64-17-5	
Ethylbenzene	**1510**	ug/L	500	184	100		11/24/21 09:06	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	1000	846	100		11/24/21 09:06	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	500	310	100		11/24/21 09:06	1634-04-4	
Naphthalene	**1090**	ug/L	500	209	100		11/24/21 09:06	91-20-3	
Toluene	**18600**	ug/L	500	201	100		11/24/21 09:06	108-88-3	
Xylene (Total)	**17600**	ug/L	500	500	100		11/24/21 09:06	1330-20-7	
m&p-Xylene	**11100**	ug/L	1000	411	100		11/24/21 09:06	179601-23-1	
o-Xylene	**6530**	ug/L	500	204	100		11/24/21 09:06	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		100		11/24/21 09:06	460-00-4	
1,2-Dichloroethane-d4 (S)	86	%	70-130		100		11/24/21 09:06	17060-07-0	
Toluene-d8 (S)	107	%	70-130		100		11/24/21 09:06	2037-26-5	

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ANALYTICAL RESULTS

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Sample: MW-20 **Lab ID: 92573219015** Collected: 11/15/21 10:17 Received: 11/17/21 11:05 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0068	1	11/22/21 12:00	11/22/21 23:32	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	97	%	60-140		1	11/22/21 12:00	11/22/21 23:32	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	4000	2620	40		11/24/21 05:47	75-85-4	
tert-Amylmethyl ether	ND	ug/L	400	122	40		11/24/21 05:47	994-05-8	
Benzene	**396**	ug/L	200	69.6	40		11/24/21 05:47	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	4000	2160	40		11/24/21 05:47	624-95-3	
tert-Butyl Alcohol	ND	ug/L	4000	3640	40		11/24/21 05:47	75-65-0	
tert-Butyl Formate	ND	ug/L	2000	964	40		11/24/21 05:47	762-75-4	
1,2-Dichloroethane	ND	ug/L	200	82.4	40		11/24/21 05:47	107-06-2	
Diisopropyl ether	ND	ug/L	200	140	40		11/24/21 05:47	108-20-3	
Ethanol	ND	ug/L	8000	5760	40		11/24/21 05:47	64-17-5	
Ethylbenzene	**1390**	ug/L	200	73.6	40		11/24/21 05:47	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	400	338	40		11/24/21 05:47	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	200	124	40		11/24/21 05:47	1634-04-4	
Naphthalene	**1320**	ug/L	200	83.6	40		11/24/21 05:47	91-20-3	
Toluene	**3070**	ug/L	200	80.4	40		11/24/21 05:47	108-88-3	
Xylene (Total)	**12600**	ug/L	200	200	40		11/24/21 05:47	1330-20-7	
m&p-Xylene	**10400**	ug/L	400	164	40		11/24/21 05:47	179601-23-1	
o-Xylene	**2180**	ug/L	200	81.6	40		11/24/21 05:47	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		40		11/24/21 05:47	460-00-4	
1,2-Dichloroethane-d4 (S)	90	%	70-130		40		11/24/21 05:47	17060-07-0	
Toluene-d8 (S)	109	%	70-130		40		11/24/21 05:47	2037-26-5	

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ANALYTICAL RESULTS

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Sample: MW-22 **Lab ID: 92573219016** Collected: 11/15/21 10:33 Received: 11/17/21 11:05 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0071	1	11/22/21 12:00	11/22/21 23:43	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	94	%	60-140		1	11/22/21 12:00	11/22/21 23:43	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	2500	1640	25		11/24/21 06:05	75-85-4	
tert-Amylmethyl ether	ND	ug/L	250	76.0	25		11/24/21 06:05	994-05-8	
Benzene	**1240**	ug/L	125	43.5	25		11/24/21 06:05	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	2500	1350	25		11/24/21 06:05	624-95-3	
tert-Butyl Alcohol	ND	ug/L	2500	2280	25		11/24/21 06:05	75-65-0	
tert-Butyl Formate	ND	ug/L	1250	602	25		11/24/21 06:05	762-75-4	
1,2-Dichloroethane	ND	ug/L	125	51.5	25		11/24/21 06:05	107-06-2	
Diisopropyl ether	ND	ug/L	125	87.2	25		11/24/21 06:05	108-20-3	
Ethanol	ND	ug/L	5000	3600	25		11/24/21 06:05	64-17-5	
Ethylbenzene	**333**	ug/L	125	46.0	25		11/24/21 06:05	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	250	212	25		11/24/21 06:05	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	125	77.5	25		11/24/21 06:05	1634-04-4	
Naphthalene	**701**	ug/L	125	52.2	25		11/24/21 06:05	91-20-3	
Toluene	**4630**	ug/L	125	50.2	25		11/24/21 06:05	108-88-3	
Xylene (Total)	**8600**	ug/L	125	125	25		11/24/21 06:05	1330-20-7	
m&p-Xylene	**3660**	ug/L	250	103	25		11/24/21 06:05	179601-23-1	
o-Xylene	**4940**	ug/L	125	51.0	25		11/24/21 06:05	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		25		11/24/21 06:05	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130		25		11/24/21 06:05	17060-07-0	
Toluene-d8 (S)	106	%	70-130		25		11/24/21 06:05	2037-26-5	

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ANALYTICAL RESULTS

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Sample: MW-23 **Lab ID: 92573219017** Collected: 11/15/21 11:27 Received: 11/17/21 11:05 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.021	0.0072	1	11/22/21 12:00	11/22/21 23:54	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	101	%	60-140		1	11/22/21 12:00	11/22/21 23:54	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	1000	656	10		11/23/21 05:39	75-85-4	
tert-Amylmethyl ether	ND	ug/L	100	30.4	10		11/23/21 05:39	994-05-8	
Benzene	**148**	ug/L	50.0	17.4	10		11/23/21 05:39	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	1000	539	10		11/23/21 05:39	624-95-3	
tert-Butyl Alcohol	ND	ug/L	1000	910	10		11/23/21 05:39	75-65-0	
tert-Butyl Formate	ND	ug/L	500	241	10		11/23/21 05:39	762-75-4	
1,2-Dichloroethane	ND	ug/L	50.0	20.6	10		11/23/21 05:39	107-06-2	
Diisopropyl ether	ND	ug/L	50.0	34.9	10		11/23/21 05:39	108-20-3	
Ethanol	ND	ug/L	2000	1440	10		11/23/21 05:39	64-17-5	
Ethylbenzene	**143**	ug/L	50.0	18.4	10		11/23/21 05:39	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	100	84.6	10		11/23/21 05:39	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	50.0	31.0	10		11/23/21 05:39	1634-04-4	
Naphthalene	**246**	ug/L	50.0	20.9	10		11/23/21 05:39	91-20-3	
Toluene	**1180**	ug/L	50.0	20.1	10		11/23/21 05:39	108-88-3	
Xylene (Total)	**1780**	ug/L	50.0	50.0	10		11/23/21 05:39	1330-20-7	
m&p-Xylene	**1180**	ug/L	100	41.1	10		11/23/21 05:39	179601-23-1	
o-Xylene	**596**	ug/L	50.0	20.4	10		11/23/21 05:39	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		10		11/23/21 05:39	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130		10		11/23/21 05:39	17060-07-0	
Toluene-d8 (S)	103	%	70-130		10		11/23/21 05:39	2037-26-5	

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ANALYTICAL RESULTS

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Sample: MW-25 **Lab ID: 92573219018** Collected: 11/15/21 11:36 Received: 11/17/21 11:05 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0070	1	11/22/21 12:00	11/23/21 00:04	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	92	%	60-140		1	11/22/21 12:00	11/23/21 00:04	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		11/19/21 05:42	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		11/19/21 05:42	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		11/19/21 05:42	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		11/19/21 05:42	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		11/19/21 05:42	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		11/19/21 05:42	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		11/19/21 05:42	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		11/19/21 05:42	108-20-3	
Ethanol	ND	ug/L	200	144	1		11/19/21 05:42	64-17-5	
Ethylbenzene	**103**	ug/L	5.0	1.8	1		11/19/21 05:42	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		11/19/21 05:42	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		11/19/21 05:42	1634-04-4	
Naphthalene	**167**	ug/L	5.0	2.1	1		11/19/21 05:42	91-20-3	
Toluene	**5.0J**	ug/L	5.0	2.0	1		11/19/21 05:42	108-88-3	
Xylene (Total)	**134**	ug/L	5.0	5.0	1		11/19/21 05:42	1330-20-7	
m&p-Xylene	**89.6**	ug/L	10.0	4.1	1		11/19/21 05:42	179601-23-1	
o-Xylene	**44.5**	ug/L	5.0	2.0	1		11/19/21 05:42	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		11/19/21 05:42	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		11/19/21 05:42	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		11/19/21 05:42	2037-26-5	

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ANALYTICAL RESULTS

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Sample: MW-26 **Lab ID: 92573219019** Collected: 11/15/21 14:31 Received: 11/17/21 11:05 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.0068	1	11/22/21 12:00	11/22/21 15:29	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	106	%	60-140		1	11/22/21 12:00	11/22/21 15:29	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		11/19/21 06:00	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		11/19/21 06:00	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		11/19/21 06:00	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		11/19/21 06:00	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		11/19/21 06:00	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		11/19/21 06:00	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		11/19/21 06:00	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		11/19/21 06:00	108-20-3	
Ethanol	ND	ug/L	200	144	1		11/19/21 06:00	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		11/19/21 06:00	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		11/19/21 06:00	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		11/19/21 06:00	1634-04-4	
Naphthalene	**8.0**	ug/L	5.0	2.1	1		11/19/21 06:00	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		11/19/21 06:00	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		11/19/21 06:00	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		11/19/21 06:00	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		11/19/21 06:00	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		11/19/21 06:00	460-00-4	
1,2-Dichloroethane-d4 (S)	86	%	70-130		1		11/19/21 06:00	17060-07-0	
Toluene-d8 (S)	110	%	70-130		1		11/19/21 06:00	2037-26-5	

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ANALYTICAL RESULTS

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Sample: MW-27 **Lab ID: 92573219020** Collected: 11/15/21 11:14 Received: 11/17/21 11:05 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0068	1	11/22/21 12:00	11/22/21 15:50	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	116	%	60-140		1	11/22/21 12:00	11/22/21 15:50	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		11/19/21 06:18	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		11/19/21 06:18	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		11/19/21 06:18	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		11/19/21 06:18	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		11/19/21 06:18	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		11/19/21 06:18	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		11/19/21 06:18	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		11/19/21 06:18	108-20-3	
Ethanol	ND	ug/L	200	144	1		11/19/21 06:18	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		11/19/21 06:18	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		11/19/21 06:18	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		11/19/21 06:18	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		11/19/21 06:18	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		11/19/21 06:18	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		11/19/21 06:18	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		11/19/21 06:18	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		11/19/21 06:18	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		11/19/21 06:18	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130		1		11/19/21 06:18	17060-07-0	
Toluene-d8 (S)	106	%	70-130		1		11/19/21 06:18	2037-26-5	

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ANALYTICAL RESULTS

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Sample: MW-28 **Lab ID: 92573219021** Collected: 11/15/21 10:39 Received: 11/17/21 11:05 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0069	1	11/22/21 12:00	11/22/21 16:22	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	96	%	60-140		1	11/22/21 12:00	11/22/21 16:22	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		11/19/21 06:36	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		11/19/21 06:36	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		11/19/21 06:36	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		11/19/21 06:36	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		11/19/21 06:36	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		11/19/21 06:36	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		11/19/21 06:36	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		11/19/21 06:36	108-20-3	
Ethanol	ND	ug/L	200	144	1		11/19/21 06:36	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		11/19/21 06:36	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		11/19/21 06:36	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		11/19/21 06:36	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		11/19/21 06:36	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		11/19/21 06:36	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		11/19/21 06:36	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		11/19/21 06:36	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		11/19/21 06:36	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		11/19/21 06:36	460-00-4	
1,2-Dichloroethane-d4 (S)	90	%	70-130		1		11/19/21 06:36	17060-07-0	
Toluene-d8 (S)	112	%	70-130		1		11/19/21 06:36	2037-26-5	

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ANALYTICAL RESULTS

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Sample: MW-29 **Lab ID: 92573219022** Collected: 11/15/21 10:48 Received: 11/17/21 11:05 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0069	1	11/22/21 12:00	11/22/21 16:33	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	103	%	60-140		1	11/22/21 12:00	11/22/21 16:33	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		11/19/21 06:54	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		11/19/21 06:54	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		11/19/21 06:54	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		11/19/21 06:54	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		11/19/21 06:54	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		11/19/21 06:54	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		11/19/21 06:54	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		11/19/21 06:54	108-20-3	
Ethanol	ND	ug/L	200	144	1		11/19/21 06:54	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		11/19/21 06:54	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		11/19/21 06:54	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		11/19/21 06:54	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		11/19/21 06:54	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		11/19/21 06:54	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		11/19/21 06:54	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		11/19/21 06:54	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		11/19/21 06:54	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		11/19/21 06:54	460-00-4	
1,2-Dichloroethane-d4 (S)	90	%	70-130		1		11/19/21 06:54	17060-07-0	
Toluene-d8 (S)	109	%	70-130		1		11/19/21 06:54	2037-26-5	

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ANALYTICAL RESULTS

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Sample: MW-30 **Lab ID: 92573219023** Collected: 11/15/21 10:43 Received: 11/17/21 11:05 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0069	1	11/22/21 12:00	11/22/21 16:43	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	96	%	60-140		1	11/22/21 12:00	11/22/21 16:43	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		11/19/21 07:12	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		11/19/21 07:12	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		11/19/21 07:12	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		11/19/21 07:12	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		11/19/21 07:12	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		11/19/21 07:12	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		11/19/21 07:12	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		11/19/21 07:12	108-20-3	
Ethanol	ND	ug/L	200	144	1		11/19/21 07:12	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		11/19/21 07:12	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		11/19/21 07:12	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		11/19/21 07:12	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		11/19/21 07:12	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		11/19/21 07:12	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		11/19/21 07:12	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		11/19/21 07:12	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		11/19/21 07:12	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		11/19/21 07:12	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130		1		11/19/21 07:12	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		11/19/21 07:12	2037-26-5	

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ANALYTICAL RESULTS

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Sample: MW-31 **Lab ID: 92573219024** Collected: 11/15/21 12:20 Received: 11/17/21 11:05 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0071	1	11/22/21 12:00	11/22/21 16:54	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	94	%	60-140		1	11/22/21 12:00	11/22/21 16:54	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	**119**	ug/L	100	65.6	1		11/19/21 07:30	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		11/19/21 07:30	994-05-8	
Benzene	**7.4**	ug/L	5.0	1.7	1		11/19/21 07:30	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		11/19/21 07:30	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		11/19/21 07:30	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		11/19/21 07:30	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		11/19/21 07:30	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		11/19/21 07:30	108-20-3	
Ethanol	ND	ug/L	200	144	1		11/19/21 07:30	64-17-5	
Ethylbenzene	**76.8**	ug/L	5.0	1.8	1		11/19/21 07:30	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		11/19/21 07:30	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		11/19/21 07:30	1634-04-4	
Naphthalene	**138**	ug/L	5.0	2.1	1		11/19/21 07:30	91-20-3	
Toluene	**18.5**	ug/L	5.0	2.0	1		11/19/21 07:30	108-88-3	
Xylene (Total)	**87.1**	ug/L	5.0	5.0	1		11/19/21 07:30	1330-20-7	
m&p-Xylene	**58.7**	ug/L	10.0	4.1	1		11/19/21 07:30	179601-23-1	
o-Xylene	**28.5**	ug/L	5.0	2.0	1		11/19/21 07:30	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		11/19/21 07:30	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		11/19/21 07:30	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		11/19/21 07:30	2037-26-5	

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ANALYTICAL RESULTS

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Sample: MW-32 **Lab ID: 92573219025** Collected: 11/15/21 12:09 Received: 11/17/21 11:05 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0069	1	11/22/21 12:00	11/22/21 17:05	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	102	%	60-140		1	11/22/21 12:00	11/22/21 17:05	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		11/23/21 03:14	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		11/23/21 03:14	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		11/23/21 03:14	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		11/23/21 03:14	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		11/23/21 03:14	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		11/23/21 03:14	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		11/23/21 03:14	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		11/23/21 03:14	108-20-3	
Ethanol	ND	ug/L	200	144	1		11/23/21 03:14	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		11/23/21 03:14	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		11/23/21 03:14	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		11/23/21 03:14	1634-04-4	
Naphthalene	**9.8**	ug/L	5.0	2.1	1		11/23/21 03:14	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		11/23/21 03:14	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		11/23/21 03:14	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		11/23/21 03:14	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		11/23/21 03:14	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		11/23/21 03:14	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	70-130		1		11/23/21 03:14	17060-07-0	
Toluene-d8 (S)	107	%	70-130		1		11/23/21 03:14	2037-26-5	

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ANALYTICAL RESULTS

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Sample: MW-33 **Lab ID: 92573219026** Collected: 11/15/21 11:52 Received: 11/17/21 11:05 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0070	1	11/22/21 12:00	11/22/21 17:16	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	108	%	60-140		1	11/22/21 12:00	11/22/21 17:16	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	**109**	ug/L	100	65.6	1		11/19/21 08:06	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		11/19/21 08:06	994-05-8	
Benzene	**14.2**	ug/L	5.0	1.7	1		11/19/21 08:06	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		11/19/21 08:06	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		11/19/21 08:06	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		11/19/21 08:06	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		11/19/21 08:06	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		11/19/21 08:06	108-20-3	
Ethanol	ND	ug/L	200	144	1		11/19/21 08:06	64-17-5	
Ethylbenzene	**8.8**	ug/L	5.0	1.8	1		11/19/21 08:06	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		11/19/21 08:06	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		11/19/21 08:06	1634-04-4	
Naphthalene	**91.7**	ug/L	5.0	2.1	1		11/19/21 08:06	91-20-3	
Toluene	**18.7**	ug/L	5.0	2.0	1		11/19/21 08:06	108-88-3	
Xylene (Total)	**533**	ug/L	5.0	5.0	1		11/19/21 08:06	1330-20-7	
m&p-Xylene	**397**	ug/L	10.0	4.1	1		11/19/21 08:06	179601-23-1	
o-Xylene	**136**	ug/L	5.0	2.0	1		11/19/21 08:06	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		11/19/21 08:06	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		11/19/21 08:06	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		11/19/21 08:06	2037-26-5	

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ANALYTICAL RESULTS

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Sample: MW-35 **Lab ID: 92573219027** Collected: 11/15/21 12:19 Received: 11/17/21 11:05 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0070	1	11/22/21 12:00	11/22/21 17:26	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	101	%	60-140		1	11/22/21 12:00	11/22/21 17:26	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	1000	656	10		11/23/21 07:27	75-85-4	
tert-Amylmethyl ether	ND	ug/L	100	30.4	10		11/23/21 07:27	994-05-8	
Benzene	**183**	ug/L	50.0	17.4	10		11/23/21 07:27	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	1000	539	10		11/23/21 07:27	624-95-3	
tert-Butyl Alcohol	ND	ug/L	1000	910	10		11/23/21 07:27	75-65-0	
tert-Butyl Formate	ND	ug/L	500	241	10		11/23/21 07:27	762-75-4	
1,2-Dichloroethane	ND	ug/L	50.0	20.6	10		11/23/21 07:27	107-06-2	
Diisopropyl ether	ND	ug/L	50.0	34.9	10		11/23/21 07:27	108-20-3	
Ethanol	ND	ug/L	2000	1440	10		11/23/21 07:27	64-17-5	
Ethylbenzene	**1610**	ug/L	50.0	18.4	10		11/23/21 07:27	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	100	84.6	10		11/23/21 07:27	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	50.0	31.0	10		11/23/21 07:27	1634-04-4	
Naphthalene	**636**	ug/L	50.0	20.9	10		11/23/21 07:27	91-20-3	M1
Toluene	**337**	ug/L	50.0	20.1	10		11/23/21 07:27	108-88-3	
Xylene (Total)	**1240**	ug/L	50.0	50.0	10		11/23/21 07:27	1330-20-7	
m&p-Xylene	**1040**	ug/L	100	41.1	10		11/23/21 07:27	179601-23-1	
o-Xylene	**200**	ug/L	50.0	20.4	10		11/23/21 07:27	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		10		11/23/21 07:27	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		10		11/23/21 07:27	17060-07-0	
Toluene-d8 (S)	111	%	70-130		10		11/23/21 07:27	2037-26-5	

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ANALYTICAL RESULTS

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Sample: MW-36 **Lab ID: 92573219028** Collected: 11/15/21 12:15 Received: 11/17/21 11:05 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.0068	1	11/22/21 12:00	11/22/21 17:37	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	106	%	60-140		1	11/22/21 12:00	11/22/21 17:37	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		11/19/21 00:54	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		11/19/21 00:54	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		11/19/21 00:54	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		11/19/21 00:54	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		11/19/21 00:54	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		11/19/21 00:54	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		11/19/21 00:54	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		11/19/21 00:54	108-20-3	
Ethanol	ND	ug/L	200	144	1		11/19/21 00:54	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		11/19/21 00:54	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		11/19/21 00:54	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		11/19/21 00:54	1634-04-4	
Naphthalene	**42.1**	ug/L	5.0	2.1	1		11/19/21 00:54	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		11/19/21 00:54	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		11/19/21 00:54	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		11/19/21 00:54	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		11/19/21 00:54	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		11/19/21 00:54	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		11/19/21 00:54	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		11/19/21 00:54	2037-26-5	

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ANALYTICAL RESULTS

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Sample: MW-37 **Lab ID: 92573219029** Collected: 11/15/21 12:25 Received: 11/17/21 11:05 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0070	1	11/22/21 12:00	11/22/21 17:47	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	100	%	60-140		1	11/22/21 12:00	11/22/21 17:47	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		11/19/21 01:12	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		11/19/21 01:12	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		11/19/21 01:12	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		11/19/21 01:12	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		11/19/21 01:12	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		11/19/21 01:12	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		11/19/21 01:12	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		11/19/21 01:12	108-20-3	
Ethanol	ND	ug/L	200	144	1		11/19/21 01:12	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		11/19/21 01:12	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		11/19/21 01:12	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		11/19/21 01:12	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		11/19/21 01:12	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		11/19/21 01:12	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		11/19/21 01:12	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		11/19/21 01:12	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		11/19/21 01:12	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		11/19/21 01:12	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		11/19/21 01:12	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		11/19/21 01:12	2037-26-5	

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ANALYTICAL RESULTS

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Sample: MW-41 **Lab ID: 92573219030** Collected: 11/15/21 12:49 Received: 11/17/21 11:05 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0068	1	11/22/21 12:00	11/22/21 17:58	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	104	%	60-140		1	11/22/21 12:00	11/22/21 17:58	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		11/19/21 01:30	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		11/19/21 01:30	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		11/19/21 01:30	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		11/19/21 01:30	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		11/19/21 01:30	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		11/19/21 01:30	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		11/19/21 01:30	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		11/19/21 01:30	108-20-3	
Ethanol	ND	ug/L	200	144	1		11/19/21 01:30	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		11/19/21 01:30	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		11/19/21 01:30	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		11/19/21 01:30	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		11/19/21 01:30	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		11/19/21 01:30	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		11/19/21 01:30	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		11/19/21 01:30	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		11/19/21 01:30	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		11/19/21 01:30	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		11/19/21 01:30	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		11/19/21 01:30	2037-26-5	

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ANALYTICAL RESULTS

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Sample: MW-43 **Lab ID: 92573219031** Collected: 11/15/21 11:53 Received: 11/17/21 11:05 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.0068	1	11/22/21 12:00	11/22/21 18:09	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	105	%	60-140		1	11/22/21 12:00	11/22/21 18:09	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		11/19/21 01:49	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		11/19/21 01:49	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		11/19/21 01:49	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		11/19/21 01:49	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		11/19/21 01:49	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		11/19/21 01:49	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		11/19/21 01:49	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		11/19/21 01:49	108-20-3	
Ethanol	ND	ug/L	200	144	1		11/19/21 01:49	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		11/19/21 01:49	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		11/19/21 01:49	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		11/19/21 01:49	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		11/19/21 01:49	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		11/19/21 01:49	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		11/19/21 01:49	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		11/19/21 01:49	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		11/19/21 01:49	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		11/19/21 01:49	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		11/19/21 01:49	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		11/19/21 01:49	2037-26-5	

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ANALYTICAL RESULTS

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Sample: MW-44 **Lab ID: 92573219032** Collected: 11/15/21 11:49 Received: 11/17/21 11:05 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0069	1	11/22/21 12:00	11/22/21 18:19	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	107	%	60-140		1	11/22/21 12:00	11/22/21 18:19	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		11/19/21 02:07	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		11/19/21 02:07	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		11/19/21 02:07	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		11/19/21 02:07	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		11/19/21 02:07	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		11/19/21 02:07	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		11/19/21 02:07	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		11/19/21 02:07	108-20-3	
Ethanol	ND	ug/L	200	144	1		11/19/21 02:07	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		11/19/21 02:07	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		11/19/21 02:07	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		11/19/21 02:07	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		11/19/21 02:07	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		11/19/21 02:07	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		11/19/21 02:07	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		11/19/21 02:07	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		11/19/21 02:07	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		11/19/21 02:07	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		11/19/21 02:07	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		11/19/21 02:07	2037-26-5	

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ANALYTICAL RESULTS

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Sample: MW-45 **Lab ID: 92573219033** Collected: 11/15/21 11:41 Received: 11/17/21 11:05 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0069	1	11/22/21 12:00	11/22/21 18:30	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	109	%	60-140		1	11/22/21 12:00	11/22/21 18:30	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		11/19/21 02:25	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		11/19/21 02:25	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		11/19/21 02:25	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		11/19/21 02:25	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		11/19/21 02:25	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		11/19/21 02:25	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		11/19/21 02:25	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		11/19/21 02:25	108-20-3	
Ethanol	ND	ug/L	200	144	1		11/19/21 02:25	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		11/19/21 02:25	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		11/19/21 02:25	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		11/19/21 02:25	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		11/19/21 02:25	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		11/19/21 02:25	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		11/19/21 02:25	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		11/19/21 02:25	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		11/19/21 02:25	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		11/19/21 02:25	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		11/19/21 02:25	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		11/19/21 02:25	2037-26-5	

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ANALYTICAL RESULTS

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Sample: MW-46 **Lab ID: 92573219034** Collected: 11/15/21 11:44 Received: 11/17/21 11:05 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.0068	1	11/22/21 12:00	11/22/21 18:41	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	108	%	60-140		1	11/22/21 12:00	11/22/21 18:41	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		11/19/21 02:43	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		11/19/21 02:43	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		11/19/21 02:43	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		11/19/21 02:43	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		11/19/21 02:43	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		11/19/21 02:43	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		11/19/21 02:43	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		11/19/21 02:43	108-20-3	
Ethanol	ND	ug/L	200	144	1		11/19/21 02:43	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		11/19/21 02:43	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		11/19/21 02:43	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		11/19/21 02:43	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		11/19/21 02:43	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		11/19/21 02:43	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		11/19/21 02:43	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		11/19/21 02:43	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		11/19/21 02:43	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		11/19/21 02:43	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		11/19/21 02:43	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		11/19/21 02:43	2037-26-5	

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ANALYTICAL RESULTS

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Sample: MW-48 **Lab ID: 92573219035** Collected: 11/15/21 11:30 Received: 11/17/21 11:05 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.0068	1	11/22/21 12:00	11/22/21 18:51	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	108	%	60-140		1	11/22/21 12:00	11/22/21 18:51	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		11/19/21 03:01	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		11/19/21 03:01	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		11/19/21 03:01	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		11/19/21 03:01	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		11/19/21 03:01	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		11/19/21 03:01	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		11/19/21 03:01	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		11/19/21 03:01	108-20-3	
Ethanol	ND	ug/L	200	144	1		11/19/21 03:01	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		11/19/21 03:01	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		11/19/21 03:01	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		11/19/21 03:01	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		11/19/21 03:01	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		11/19/21 03:01	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		11/19/21 03:01	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		11/19/21 03:01	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		11/19/21 03:01	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		11/19/21 03:01	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		11/19/21 03:01	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		11/19/21 03:01	2037-26-5	

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ANALYTICAL RESULTS

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Sample: MW-49 **Lab ID: 92573219036** Collected: 11/15/21 11:35 Received: 11/17/21 11:05 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0069	1	11/22/21 12:00	11/22/21 19:02	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	103	%	60-140		1	11/22/21 12:00	11/22/21 19:02	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		11/19/21 03:19	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		11/19/21 03:19	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		11/19/21 03:19	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		11/19/21 03:19	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		11/19/21 03:19	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		11/19/21 03:19	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		11/19/21 03:19	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		11/19/21 03:19	108-20-3	
Ethanol	ND	ug/L	200	144	1		11/19/21 03:19	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		11/19/21 03:19	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		11/19/21 03:19	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		11/19/21 03:19	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		11/19/21 03:19	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		11/19/21 03:19	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		11/19/21 03:19	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		11/19/21 03:19	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		11/19/21 03:19	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		11/19/21 03:19	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		11/19/21 03:19	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		11/19/21 03:19	2037-26-5	

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ANALYTICAL RESULTS

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Sample: MW-50 **Lab ID: 92573219037** Collected: 11/15/21 11:25 Received: 11/17/21 11:05 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.0068	1	11/22/21 12:00	11/22/21 19:13	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	108	%	60-140		1	11/22/21 12:00	11/22/21 19:13	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		11/19/21 03:38	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		11/19/21 03:38	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		11/19/21 03:38	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		11/19/21 03:38	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		11/19/21 03:38	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		11/19/21 03:38	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		11/19/21 03:38	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		11/19/21 03:38	108-20-3	
Ethanol	ND	ug/L	200	144	1		11/19/21 03:38	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		11/19/21 03:38	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		11/19/21 03:38	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		11/19/21 03:38	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		11/19/21 03:38	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		11/19/21 03:38	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		11/19/21 03:38	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		11/19/21 03:38	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		11/19/21 03:38	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		11/19/21 03:38	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		11/19/21 03:38	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		11/19/21 03:38	2037-26-5	

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ANALYTICAL RESULTS

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Sample: MW-51 **Lab ID: 92573219038** Collected: 11/15/21 09:50 Received: 11/17/21 11:05 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0069	1	11/22/21 12:00	11/22/21 19:23	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	100	%	60-140		1	11/22/21 12:00	11/22/21 19:23	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		11/19/21 03:56	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		11/19/21 03:56	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		11/19/21 03:56	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		11/19/21 03:56	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		11/19/21 03:56	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		11/19/21 03:56	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		11/19/21 03:56	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		11/19/21 03:56	108-20-3	
Ethanol	ND	ug/L	200	144	1		11/19/21 03:56	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		11/19/21 03:56	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		11/19/21 03:56	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		11/19/21 03:56	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		11/19/21 03:56	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		11/19/21 03:56	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		11/19/21 03:56	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		11/19/21 03:56	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		11/19/21 03:56	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		11/19/21 03:56	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		11/19/21 03:56	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		11/19/21 03:56	2037-26-5	

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ANALYTICAL RESULTS

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Sample: MW-53 **Lab ID: 92573219039** Collected: 11/15/21 10:27 Received: 11/17/21 11:05 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0070	1	11/22/21 12:00	11/22/21 20:16	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	113	%	60-140		1	11/22/21 12:00	11/22/21 20:16	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		11/19/21 04:14	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		11/19/21 04:14	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		11/19/21 04:14	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		11/19/21 04:14	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		11/19/21 04:14	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		11/19/21 04:14	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		11/19/21 04:14	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		11/19/21 04:14	108-20-3	
Ethanol	ND	ug/L	200	144	1		11/19/21 04:14	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		11/19/21 04:14	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		11/19/21 04:14	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		11/19/21 04:14	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		11/19/21 04:14	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		11/19/21 04:14	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		11/19/21 04:14	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		11/19/21 04:14	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		11/19/21 04:14	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		11/19/21 04:14	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		11/19/21 04:14	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		11/19/21 04:14	2037-26-5	

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ANALYTICAL RESULTS

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Sample: MW-55 **Lab ID: 92573219040** Collected: 11/15/21 10:53 Received: 11/17/21 11:05 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.0068	1	11/22/21 12:00	11/22/21 20:38	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	115	%	60-140		1	11/22/21 12:00	11/22/21 20:38	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	**901**	ug/L	250	164	2.5		11/20/21 07:21	75-85-4	
tert-Amylmethyl ether	ND	ug/L	25.0	7.6	2.5		11/20/21 07:21	994-05-8	
Benzene	**280**	ug/L	12.5	4.4	2.5		11/20/21 07:21	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	250	135	2.5		11/20/21 07:21	624-95-3	
tert-Butyl Alcohol	ND	ug/L	250	228	2.5		11/20/21 07:21	75-65-0	
tert-Butyl Formate	ND	ug/L	125	60.2	2.5		11/20/21 07:21	762-75-4	
1,2-Dichloroethane	ND	ug/L	12.5	5.2	2.5		11/20/21 07:21	107-06-2	
Diisopropyl ether	**20.7**	ug/L	12.5	8.7	2.5		11/20/21 07:21	108-20-3	
Ethanol	ND	ug/L	500	360	2.5		11/20/21 07:21	64-17-5	
Ethylbenzene	**378**	ug/L	12.5	4.6	2.5		11/20/21 07:21	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	25.0	21.2	2.5		11/20/21 07:21	637-92-3	
Methyl-tert-butyl ether	**69.9**	ug/L	12.5	7.8	2.5		11/20/21 07:21	1634-04-4	
Naphthalene	**113**	ug/L	12.5	5.2	2.5		11/20/21 07:21	91-20-3	
Toluene	**43.9**	ug/L	12.5	5.0	2.5		11/20/21 07:21	108-88-3	
Xylene (Total)	**520**	ug/L	12.5	12.5	2.5		11/20/21 07:21	1330-20-7	
m&p-Xylene	**486**	ug/L	25.0	10.3	2.5		11/20/21 07:21	179601-23-1	
o-Xylene	**34.2**	ug/L	12.5	5.1	2.5		11/20/21 07:21	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		2.5		11/20/21 07:21	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130		2.5		11/20/21 07:21	17060-07-0	
Toluene-d8 (S)	100	%	70-130		2.5		11/20/21 07:21	2037-26-5	

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ANALYTICAL RESULTS

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Sample: MW-62 **Lab ID: 92573219041** Collected: 11/15/21 12:52 Received: 11/17/21 11:05 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0071	1	11/22/21 12:00	11/22/21 21:10	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	104	%	60-140		1	11/22/21 12:00	11/22/21 21:10	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	**146**	ug/L	100	65.6	1		11/19/21 01:50	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		11/19/21 01:50	994-05-8	
Benzene	**8.6**	ug/L	5.0	1.7	1		11/19/21 01:50	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		11/19/21 01:50	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		11/19/21 01:50	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		11/19/21 01:50	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		11/19/21 01:50	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		11/19/21 01:50	108-20-3	
Ethanol	ND	ug/L	200	144	1		11/19/21 01:50	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		11/19/21 01:50	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		11/19/21 01:50	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		11/19/21 01:50	1634-04-4	
Naphthalene	**18.3**	ug/L	5.0	2.1	1		11/19/21 01:50	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		11/19/21 01:50	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		11/19/21 01:50	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		11/19/21 01:50	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		11/19/21 01:50	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		11/19/21 01:50	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		11/19/21 01:50	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		11/19/21 01:50	2037-26-5	

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ANALYTICAL RESULTS

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Sample: MW-63 **Lab ID: 92573219042** Collected: 11/15/21 12:59 Received: 11/17/21 11:05 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.021	0.0072	1	11/22/21 12:00	11/22/21 21:21	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	103	%	60-140		1	11/22/21 12:00	11/22/21 21:21	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		11/20/21 06:27	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		11/20/21 06:27	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		11/20/21 06:27	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		11/20/21 06:27	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		11/20/21 06:27	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		11/20/21 06:27	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		11/20/21 06:27	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		11/20/21 06:27	108-20-3	
Ethanol	ND	ug/L	200	144	1		11/20/21 06:27	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		11/20/21 06:27	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		11/20/21 06:27	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		11/20/21 06:27	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		11/20/21 06:27	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		11/20/21 06:27	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		11/20/21 06:27	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		11/20/21 06:27	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		11/20/21 06:27	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		11/20/21 06:27	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130		1		11/20/21 06:27	17060-07-0	
Toluene-d8 (S)	110	%	70-130		1		11/20/21 06:27	2037-26-5	

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ANALYTICAL RESULTS

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Sample: MW-SAR **Lab ID: 92573219043** Collected: 11/15/21 10:37 Received: 11/17/21 11:05 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0069	1	11/22/21 12:00	11/22/21 21:31	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	105	%	60-140		1	11/22/21 12:00	11/22/21 21:31	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	4000	2620	40		11/24/21 07:53	75-85-4	
tert-Amylmethyl ether	ND	ug/L	400	122	40		11/24/21 07:53	994-05-8	
Benzene	**4740**	ug/L	200	69.6	40		11/24/21 07:53	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	4000	2160	40		11/24/21 07:53	624-95-3	
tert-Butyl Alcohol	ND	ug/L	4000	3640	40		11/24/21 07:53	75-65-0	
tert-Butyl Formate	ND	ug/L	2000	964	40		11/24/21 07:53	762-75-4	
1,2-Dichloroethane	ND	ug/L	200	82.4	40		11/24/21 07:53	107-06-2	
Diisopropyl ether	ND	ug/L	200	140	40		11/24/21 07:53	108-20-3	
Ethanol	ND	ug/L	8000	5760	40		11/24/21 07:53	64-17-5	
Ethylbenzene	**1110**	ug/L	200	73.6	40		11/24/21 07:53	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	400	338	40		11/24/21 07:53	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	200	124	40		11/24/21 07:53	1634-04-4	
Naphthalene	**744**	ug/L	200	83.6	40		11/24/21 07:53	91-20-3	
Toluene	**110J**	ug/L	200	80.4	40		11/24/21 07:53	108-88-3	
Xylene (Total)	**346**	ug/L	200	200	40		11/24/21 07:53	1330-20-7	
m&p-Xylene	**346J**	ug/L	400	164	40		11/24/21 07:53	179601-23-1	
o-Xylene	ND	ug/L	200	81.6	40		11/24/21 07:53	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		40		11/24/21 07:53	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	70-130		40		11/24/21 07:53	17060-07-0	
Toluene-d8 (S)	107	%	70-130		40		11/24/21 07:53	2037-26-5	

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ANALYTICAL RESULTS

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Sample: PW-1R **Lab ID: 92573219044** Collected: 11/15/21 13:52 Received: 11/17/21 11:05 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0070	1	11/22/21 12:00	11/22/21 21:42	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	104	%	60-140		1	11/22/21 12:00	11/22/21 21:42	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	400	262	4		11/23/21 05:02	75-85-4	
tert-Amylmethyl ether	ND	ug/L	40.0	12.2	4		11/23/21 05:02	994-05-8	
Benzene	**74.2**	ug/L	20.0	7.0	4		11/23/21 05:02	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	400	216	4		11/23/21 05:02	624-95-3	
tert-Butyl Alcohol	ND	ug/L	400	364	4		11/23/21 05:02	75-65-0	
tert-Butyl Formate	ND	ug/L	200	96.4	4		11/23/21 05:02	762-75-4	
1,2-Dichloroethane	ND	ug/L	20.0	8.2	4		11/23/21 05:02	107-06-2	
Diisopropyl ether	ND	ug/L	20.0	14.0	4		11/23/21 05:02	108-20-3	
Ethanol	ND	ug/L	800	576	4		11/23/21 05:02	64-17-5	
Ethylbenzene	**185**	ug/L	20.0	7.4	4		11/23/21 05:02	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	40.0	33.8	4		11/23/21 05:02	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	20.0	12.4	4		11/23/21 05:02	1634-04-4	
Naphthalene	**227**	ug/L	20.0	8.4	4		11/23/21 05:02	91-20-3	
Toluene	**58.3**	ug/L	20.0	8.0	4		11/23/21 05:02	108-88-3	
Xylene (Total)	**1220**	ug/L	20.0	20.0	4		11/23/21 05:02	1330-20-7	
m&p-Xylene	**949**	ug/L	40.0	16.4	4		11/23/21 05:02	179601-23-1	
o-Xylene	**268**	ug/L	20.0	8.2	4		11/23/21 05:02	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		4		11/23/21 05:02	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		4		11/23/21 05:02	17060-07-0	
Toluene-d8 (S)	106	%	70-130		4		11/23/21 05:02	2037-26-5	

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ANALYTICAL RESULTS

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Sample: DW-1 **Lab ID: 92573219045** Collected: 11/15/21 14:09 Received: 11/17/21 11:05 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.0067	1	11/22/21 12:00	11/22/21 21:53	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	104	%	60-140		1	11/22/21 12:00	11/22/21 21:53	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		11/19/21 00:36	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		11/19/21 00:36	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		11/19/21 00:36	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		11/19/21 00:36	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		11/19/21 00:36	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		11/19/21 00:36	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		11/19/21 00:36	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		11/19/21 00:36	108-20-3	
Ethanol	ND	ug/L	200	144	1		11/19/21 00:36	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		11/19/21 00:36	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		11/19/21 00:36	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		11/19/21 00:36	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		11/19/21 00:36	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		11/19/21 00:36	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		11/19/21 00:36	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		11/19/21 00:36	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		11/19/21 00:36	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		11/19/21 00:36	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		11/19/21 00:36	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		11/19/21 00:36	2037-26-5	

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ANALYTICAL RESULTS

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Sample: DW-3 **Lab ID: 92573219046** Collected: 11/15/21 10:34 Received: 11/17/21 11:05 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0068	1	11/22/21 12:00	11/22/21 22:03	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	109	%	60-140		1	11/22/21 12:00	11/22/21 22:03	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	**2090**	ug/L	500	328	5		11/20/21 08:14	75-85-4	M1
tert-Amylmethyl ether	**30.3J**	ug/L	50.0	15.2	5		11/20/21 08:14	994-05-8	
Benzene	**791**	ug/L	25.0	8.7	5		11/20/21 08:14	71-43-2	M1
3,3-Dimethyl-1-Butanol	ND	ug/L	500	270	5		11/20/21 08:14	624-95-3	
tert-Butyl Alcohol	ND	ug/L	500	455	5		11/20/21 08:14	75-65-0	
tert-Butyl Formate	ND	ug/L	250	120	5		11/20/21 08:14	762-75-4	
1,2-Dichloroethane	ND	ug/L	25.0	10.3	5		11/20/21 08:14	107-06-2	
Diisopropyl ether	**103**	ug/L	25.0	17.4	5		11/20/21 08:14	108-20-3	
Ethanol	ND	ug/L	1000	720	5		11/20/21 08:14	64-17-5	
Ethylbenzene	**265**	ug/L	25.0	9.2	5		11/20/21 08:14	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	50.0	42.3	5		11/20/21 08:14	637-92-3	
Methyl-tert-butyl ether	**84.9**	ug/L	25.0	15.5	5		11/20/21 08:14	1634-04-4	
Naphthalene	**137**	ug/L	25.0	10.4	5		11/20/21 08:14	91-20-3	
Toluene	**16.2J**	ug/L	25.0	10.0	5		11/20/21 08:14	108-88-3	
Xylene (Total)	**792**	ug/L	25.0	25.0	5		11/20/21 08:14	1330-20-7	RS
m&p-Xylene	**792**	ug/L	50.0	20.6	5		11/20/21 08:14	179601-23-1	
o-Xylene	ND	ug/L	25.0	10.2	5		11/20/21 08:14	95-47-6	R1
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		5		11/20/21 08:14	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		5		11/20/21 08:14	17060-07-0	
Toluene-d8 (S)	120	%	70-130		5		11/20/21 08:14	2037-26-5	

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ANALYTICAL RESULTS

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Sample: DW-4 **Lab ID: 92573219047** Collected: 11/15/21 10:03 Received: 11/17/21 11:05 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0070	1	11/22/21 12:00	11/22/21 22:14	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	107	%	60-140		1	11/22/21 12:00	11/22/21 22:14	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		11/20/21 05:51	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		11/20/21 05:51	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		11/20/21 05:51	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		11/20/21 05:51	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		11/20/21 05:51	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		11/20/21 05:51	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		11/20/21 05:51	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		11/20/21 05:51	108-20-3	
Ethanol	ND	ug/L	200	144	1		11/20/21 05:51	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		11/20/21 05:51	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		11/20/21 05:51	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		11/20/21 05:51	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		11/20/21 05:51	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		11/20/21 05:51	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		11/20/21 05:51	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		11/20/21 05:51	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		11/20/21 05:51	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		11/20/21 05:51	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		11/20/21 05:51	17060-07-0	
Toluene-d8 (S)	108	%	70-130		1		11/20/21 05:51	2037-26-5	

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ANALYTICAL RESULTS

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Sample: DW-5 **Lab ID: 92573219048** Collected: 11/15/21 09:59 Received: 11/17/21 11:05 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0069	1	11/22/21 12:00	11/22/21 22:24	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	109	%	60-140		1	11/22/21 12:00	11/22/21 22:24	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	**5370**	ug/L	2500	1640	25		11/24/21 06:41	75-85-4	
tert-Amylmethyl ether	ND	ug/L	250	76.0	25		11/24/21 06:41	994-05-8	
Benzene	**3840**	ug/L	125	43.5	25		11/24/21 06:41	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	2500	1350	25		11/24/21 06:41	624-95-3	
tert-Butyl Alcohol	ND	ug/L	2500	2280	25		11/24/21 06:41	75-65-0	
tert-Butyl Formate	ND	ug/L	1250	602	25		11/24/21 06:41	762-75-4	
1,2-Dichloroethane	ND	ug/L	125	51.5	25		11/24/21 06:41	107-06-2	
Diisopropyl ether	**250**	ug/L	125	87.2	25		11/24/21 06:41	108-20-3	
Ethanol	ND	ug/L	5000	3600	25		11/24/21 06:41	64-17-5	
Ethylbenzene	**534**	ug/L	125	46.0	25		11/24/21 06:41	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	250	212	25		11/24/21 06:41	637-92-3	
Methyl-tert-butyl ether	**337**	ug/L	125	77.5	25		11/24/21 06:41	1634-04-4	
Naphthalene	**253**	ug/L	125	52.2	25		11/24/21 06:41	91-20-3	
Toluene	**2260**	ug/L	125	50.2	25		11/24/21 06:41	108-88-3	
Xylene (Total)	**2890**	ug/L	125	125	25		11/24/21 06:41	1330-20-7	
m&p-Xylene	**1860**	ug/L	250	103	25		11/24/21 06:41	179601-23-1	
o-Xylene	**1030**	ug/L	125	51.0	25		11/24/21 06:41	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		25		11/24/21 06:41	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130		25		11/24/21 06:41	17060-07-0	
Toluene-d8 (S)	104	%	70-130		25		11/24/21 06:41	2037-26-5	

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ANALYTICAL RESULTS

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Sample: DW-9 **Lab ID: 92573219049** Collected: 11/15/21 11:00 Received: 11/17/21 11:05 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.0067	1	11/22/21 12:00	11/22/21 22:35	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	97	%	60-140		1	11/22/21 12:00	11/22/21 22:35	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		11/20/21 06:45	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		11/20/21 06:45	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		11/20/21 06:45	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		11/20/21 06:45	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		11/20/21 06:45	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		11/20/21 06:45	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		11/20/21 06:45	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		11/20/21 06:45	108-20-3	
Ethanol	ND	ug/L	200	144	1		11/20/21 06:45	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		11/20/21 06:45	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		11/20/21 06:45	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		11/20/21 06:45	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		11/20/21 06:45	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		11/20/21 06:45	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		11/20/21 06:45	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		11/20/21 06:45	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		11/20/21 06:45	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		11/20/21 06:45	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		11/20/21 06:45	17060-07-0	
Toluene-d8 (S)	107	%	70-130		1		11/20/21 06:45	2037-26-5	

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ANALYTICAL RESULTS

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Sample: UNK-1 **Lab ID: 92573219051** Collected: 11/15/21 12:13 Received: 11/17/21 11:05 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0070	1	11/22/21 12:00	11/22/21 22:46	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	111	%	60-140		1	11/22/21 12:00	11/22/21 22:46	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	500	328	5		11/20/21 08:32	75-85-4	
tert-Amylmethyl ether	ND	ug/L	50.0	15.2	5		11/20/21 08:32	994-05-8	
Benzene	**229**	ug/L	25.0	8.7	5		11/20/21 08:32	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	500	270	5		11/20/21 08:32	624-95-3	
tert-Butyl Alcohol	ND	ug/L	500	455	5		11/20/21 08:32	75-65-0	
tert-Butyl Formate	ND	ug/L	250	120	5		11/20/21 08:32	762-75-4	
1,2-Dichloroethane	ND	ug/L	25.0	10.3	5		11/20/21 08:32	107-06-2	
Diisopropyl ether	ND	ug/L	25.0	17.4	5		11/20/21 08:32	108-20-3	
Ethanol	ND	ug/L	1000	720	5		11/20/21 08:32	64-17-5	
Ethylbenzene	**135**	ug/L	25.0	9.2	5		11/20/21 08:32	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	50.0	42.3	5		11/20/21 08:32	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	25.0	15.5	5		11/20/21 08:32	1634-04-4	
Naphthalene	**67.9**	ug/L	25.0	10.4	5		11/20/21 08:32	91-20-3	
Toluene	**875**	ug/L	25.0	10.0	5		11/20/21 08:32	108-88-3	
Xylene (Total)	**1470**	ug/L	25.0	25.0	5		11/20/21 08:32	1330-20-7	
m&p-Xylene	**835**	ug/L	50.0	20.6	5		11/20/21 08:32	179601-23-1	
o-Xylene	**640**	ug/L	25.0	10.2	5		11/20/21 08:32	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		5		11/20/21 08:32	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130		5		11/20/21 08:32	17060-07-0	
Toluene-d8 (S)	102	%	70-130		5		11/20/21 08:32	2037-26-5	

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ANALYTICAL RESULTS

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Sample: UNK-3 **Lab ID: 92573219052** Collected: 11/15/21 14:18 Received: 11/17/21 11:05 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	**0.015J**	ug/L	0.019	0.0068	1	11/22/21 12:00	11/22/21 22:56	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	101	%	60-140		1	11/22/21 12:00	11/22/21 22:56	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		11/19/21 02:08	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		11/19/21 02:08	994-05-8	
Benzene	**24.9**	ug/L	5.0	1.7	1		11/19/21 02:08	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		11/19/21 02:08	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		11/19/21 02:08	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		11/19/21 02:08	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		11/19/21 02:08	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		11/19/21 02:08	108-20-3	
Ethanol	ND	ug/L	200	144	1		11/19/21 02:08	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		11/19/21 02:08	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		11/19/21 02:08	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		11/19/21 02:08	1634-04-4	
Naphthalene	**8.8**	ug/L	5.0	2.1	1		11/19/21 02:08	91-20-3	
Toluene	**25.0**	ug/L	5.0	2.0	1		11/19/21 02:08	108-88-3	
Xylene (Total)	**133**	ug/L	5.0	5.0	1		11/19/21 02:08	1330-20-7	
m&p-Xylene	**80.5**	ug/L	10.0	4.1	1		11/19/21 02:08	179601-23-1	
o-Xylene	**52.5**	ug/L	5.0	2.0	1		11/19/21 02:08	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		11/19/21 02:08	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		11/19/21 02:08	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		11/19/21 02:08	2037-26-5	

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ANALYTICAL RESULTS

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Sample: UNK-4 **Lab ID: 92573219053** Collected: 11/15/21 11:17 Received: 11/17/21 11:05 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0071	1	11/22/21 12:00	11/22/21 23:07	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	100	%	60-140		1	11/22/21 12:00	11/22/21 23:07	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		11/20/21 07:03	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		11/20/21 07:03	994-05-8	
Benzene	**9.2**	ug/L	5.0	1.7	1		11/20/21 07:03	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		11/20/21 07:03	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		11/20/21 07:03	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		11/20/21 07:03	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		11/20/21 07:03	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		11/20/21 07:03	108-20-3	
Ethanol	ND	ug/L	200	144	1		11/20/21 07:03	64-17-5	
Ethylbenzene	**32.8**	ug/L	5.0	1.8	1		11/20/21 07:03	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		11/20/21 07:03	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		11/20/21 07:03	1634-04-4	
Naphthalene	**23.7**	ug/L	5.0	2.1	1		11/20/21 07:03	91-20-3	
Toluene	**7.4**	ug/L	5.0	2.0	1		11/20/21 07:03	108-88-3	
Xylene (Total)	**10.5**	ug/L	5.0	5.0	1		11/20/21 07:03	1330-20-7	
m&p-Xylene	**6.4J**	ug/L	10.0	4.1	1		11/20/21 07:03	179601-23-1	
o-Xylene	**4.2J**	ug/L	5.0	2.0	1		11/20/21 07:03	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		11/20/21 07:03	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		11/20/21 07:03	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		11/20/21 07:03	2037-26-5	

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ANALYTICAL RESULTS

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Sample: UNK-5 **Lab ID: 92573219054** Collected: 11/15/21 12:13 Received: 11/17/21 11:05 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0071	1	11/22/21 12:00	11/22/21 23:18	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	99	%	60-140		1	11/22/21 12:00	11/22/21 23:18	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	200	131	2		11/23/21 03:50	75-85-4	
tert-Amylmethyl ether	ND	ug/L	20.0	6.1	2		11/23/21 03:50	994-05-8	
Benzene	ND	ug/L	10.0	3.5	2		11/23/21 03:50	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	200	108	2		11/23/21 03:50	624-95-3	
tert-Butyl Alcohol	ND	ug/L	200	182	2		11/23/21 03:50	75-65-0	
tert-Butyl Formate	ND	ug/L	100	48.2	2		11/23/21 03:50	762-75-4	
1,2-Dichloroethane	ND	ug/L	10.0	4.1	2		11/23/21 03:50	107-06-2	
Diisopropyl ether	ND	ug/L	10.0	7.0	2		11/23/21 03:50	108-20-3	
Ethanol	ND	ug/L	400	288	2		11/23/21 03:50	64-17-5	
Ethylbenzene	**144**	ug/L	10.0	3.7	2		11/23/21 03:50	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	20.0	16.9	2		11/23/21 03:50	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	10.0	6.2	2		11/23/21 03:50	1634-04-4	
Naphthalene	**105**	ug/L	10.0	4.2	2		11/23/21 03:50	91-20-3	
Toluene	**193**	ug/L	10.0	4.0	2		11/23/21 03:50	108-88-3	
Xylene (Total)	**422**	ug/L	10.0	10.0	2		11/23/21 03:50	1330-20-7	
m&p-Xylene	**251**	ug/L	20.0	8.2	2		11/23/21 03:50	179601-23-1	
o-Xylene	**172**	ug/L	10.0	4.1	2		11/23/21 03:50	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		2		11/23/21 03:50	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		2		11/23/21 03:50	17060-07-0	
Toluene-d8 (S)	108	%	70-130		2		11/23/21 03:50	2037-26-5	

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ANALYTICAL RESULTS

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Sample: SW-1 **Lab ID: 92573219055** Collected: 11/15/21 11:10 Received: 11/17/21 11:05 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.0068	1	11/22/21 12:00	11/22/21 23:28	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	92	%	60-140		1	11/22/21 12:00	11/22/21 23:28	301-79-56	
8260 MSV Low Level SC	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	**162**	ug/L	100	36.4	1		11/19/21 17:22	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		11/19/21 17:22	994-05-8	
Benzene	**58.3**	ug/L	1.0	0.34	1		11/19/21 17:22	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		11/19/21 17:22	624-95-3	v2
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		11/19/21 17:22	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		11/19/21 17:22	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		11/19/21 17:22	107-06-2	
Diisopropyl ether	**5.3**	ug/L	1.0	0.31	1		11/19/21 17:22	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		11/19/21 17:22	64-17-5	
Ethylbenzene	**24.6**	ug/L	1.0	0.30	1		11/19/21 17:22	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		11/19/21 17:22	637-92-3	
Methyl-tert-butyl ether	**4.6**	ug/L	1.0	0.42	1		11/19/21 17:22	1634-04-4	
Naphthalene	**11.9**	ug/L	1.0	0.64	1		11/19/21 17:22	91-20-3	
Toluene	**3.8**	ug/L	1.0	0.48	1		11/19/21 17:22	108-88-3	
Xylene (Total)	**34.5**	ug/L	1.0	0.34	1		11/19/21 17:22	1330-20-7	
m&p-Xylene	**33.6**	ug/L	2.0	0.71	1		11/19/21 17:22	179601-23-1	
o-Xylene	**0.87J**	ug/L	1.0	0.34	1		11/19/21 17:22	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		11/19/21 17:22	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		11/19/21 17:22	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		11/19/21 17:22	2037-26-5	

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ANALYTICAL RESULTS

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Sample: DUP-1 **Lab ID: 92573219056** Collected: 11/15/21 09:33 Received: 11/17/21 11:05 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0070	1	11/22/21 12:00	11/22/21 23:39	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	96	%	60-140		1	11/22/21 12:00	11/22/21 23:39	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	200	131	2		11/24/21 07:29	75-85-4	
tert-Amylmethyl ether	ND	ug/L	20.0	6.1	2		11/24/21 07:29	994-05-8	
Benzene	**5.5J**	ug/L	10.0	3.5	2		11/24/21 07:29	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	200	108	2		11/24/21 07:29	624-95-3	
tert-Butyl Alcohol	ND	ug/L	200	182	2		11/24/21 07:29	75-65-0	
tert-Butyl Formate	ND	ug/L	100	48.2	2		11/24/21 07:29	762-75-4	
1,2-Dichloroethane	ND	ug/L	10.0	4.1	2		11/24/21 07:29	107-06-2	
Diisopropyl ether	ND	ug/L	10.0	7.0	2		11/24/21 07:29	108-20-3	
Ethanol	ND	ug/L	400	288	2		11/24/21 07:29	64-17-5	
Ethylbenzene	**135**	ug/L	10.0	3.7	2		11/24/21 07:29	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	20.0	16.9	2		11/24/21 07:29	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	10.0	6.2	2		11/24/21 07:29	1634-04-4	
Naphthalene	**137**	ug/L	10.0	4.2	2		11/24/21 07:29	91-20-3	
Toluene	**10.1**	ug/L	10.0	4.0	2		11/24/21 07:29	108-88-3	
Xylene (Total)	**450**	ug/L	10.0	10.0	2		11/24/21 07:29	1330-20-7	
m&p-Xylene	**398**	ug/L	20.0	8.2	2		11/24/21 07:29	179601-23-1	
o-Xylene	**52.2**	ug/L	10.0	4.1	2		11/24/21 07:29	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		2		11/24/21 07:29	460-00-4	
1,2-Dichloroethane-d4 (S)	81	%	70-130		2		11/24/21 07:29	17060-07-0	
Toluene-d8 (S)	98	%	70-130		2		11/24/21 07:29	2037-26-5	

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ANALYTICAL RESULTS

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Sample: DUP-2 **Lab ID: 92573219057** Collected: 11/15/21 12:13 Received: 11/17/21 11:05 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0069	1	11/22/21 12:00	11/22/21 23:50	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	89	%	60-140		1	11/22/21 12:00	11/22/21 23:50	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	1000	656	10		11/23/21 06:51	75-85-4	
tert-Amylmethyl ether	ND	ug/L	100	30.4	10		11/23/21 06:51	994-05-8	
Benzene	**211**	ug/L	50.0	17.4	10		11/23/21 06:51	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	1000	539	10		11/23/21 06:51	624-95-3	
tert-Butyl Alcohol	ND	ug/L	1000	910	10		11/23/21 06:51	75-65-0	
tert-Butyl Formate	ND	ug/L	500	241	10		11/23/21 06:51	762-75-4	
1,2-Dichloroethane	ND	ug/L	50.0	20.6	10		11/23/21 06:51	107-06-2	
Diisopropyl ether	ND	ug/L	50.0	34.9	10		11/23/21 06:51	108-20-3	
Ethanol	ND	ug/L	2000	1440	10		11/23/21 06:51	64-17-5	
Ethylbenzene	**156**	ug/L	50.0	18.4	10		11/23/21 06:51	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	100	84.6	10		11/23/21 06:51	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	50.0	31.0	10		11/23/21 06:51	1634-04-4	
Naphthalene	**101**	ug/L	50.0	20.9	10		11/23/21 06:51	91-20-3	
Toluene	**996**	ug/L	50.0	20.1	10		11/23/21 06:51	108-88-3	
Xylene (Total)	**1600**	ug/L	50.0	50.0	10		11/23/21 06:51	1330-20-7	
m&p-Xylene	**931**	ug/L	100	41.1	10		11/23/21 06:51	179601-23-1	
o-Xylene	**673**	ug/L	50.0	20.4	10		11/23/21 06:51	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		10		11/23/21 06:51	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	70-130		10		11/23/21 06:51	17060-07-0	
Toluene-d8 (S)	106	%	70-130		10		11/23/21 06:51	2037-26-5	

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ANALYTICAL RESULTS

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Sample: DUP-3 **Lab ID: 92573219058** Collected: 11/15/21 10:57 Received: 11/17/21 11:05 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0070	1	11/22/21 12:00	11/23/21 00:00	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	90	%	60-140		1	11/22/21 12:00	11/23/21 00:00	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	**945**	ug/L	250	164	2.5		11/23/21 04:08	75-85-4	
tert-Amylmethyl ether	ND	ug/L	25.0	7.6	2.5		11/23/21 04:08	994-05-8	
Benzene	**277**	ug/L	12.5	4.4	2.5		11/23/21 04:08	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	250	135	2.5		11/23/21 04:08	624-95-3	
tert-Butyl Alcohol	ND	ug/L	250	228	2.5		11/23/21 04:08	75-65-0	
tert-Butyl Formate	ND	ug/L	125	60.2	2.5		11/23/21 04:08	762-75-4	
1,2-Dichloroethane	ND	ug/L	12.5	5.2	2.5		11/23/21 04:08	107-06-2	
Diisopropyl ether	**20.5**	ug/L	12.5	8.7	2.5		11/23/21 04:08	108-20-3	
Ethanol	ND	ug/L	500	360	2.5		11/23/21 04:08	64-17-5	
Ethylbenzene	**379**	ug/L	12.5	4.6	2.5		11/23/21 04:08	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	25.0	21.2	2.5		11/23/21 04:08	637-92-3	
Methyl-tert-butyl ether	**58.2**	ug/L	12.5	7.8	2.5		11/23/21 04:08	1634-04-4	
Naphthalene	**114**	ug/L	12.5	5.2	2.5		11/23/21 04:08	91-20-3	
Toluene	**45.8**	ug/L	12.5	5.0	2.5		11/23/21 04:08	108-88-3	
Xylene (Total)	**503**	ug/L	12.5	12.5	2.5		11/23/21 04:08	1330-20-7	
m&p-Xylene	**470**	ug/L	25.0	10.3	2.5		11/23/21 04:08	179601-23-1	
o-Xylene	**32.9**	ug/L	12.5	5.1	2.5		11/23/21 04:08	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		2.5		11/23/21 04:08	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		2.5		11/23/21 04:08	17060-07-0	
Toluene-d8 (S)	105	%	70-130		2.5		11/23/21 04:08	2037-26-5	

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ANALYTICAL RESULTS

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Sample: FB **Lab ID: 92573219059** Collected: 11/15/21 14:30 Received: 11/17/21 11:05 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.0068	1	11/22/21 12:00	11/23/21 00:11	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	97	%	60-140		1	11/22/21 12:00	11/23/21 00:11	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		11/23/21 01:26	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		11/23/21 01:26	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		11/23/21 01:26	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		11/23/21 01:26	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		11/23/21 01:26	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		11/23/21 01:26	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		11/23/21 01:26	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		11/23/21 01:26	108-20-3	
Ethanol	ND	ug/L	200	144	1		11/23/21 01:26	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		11/23/21 01:26	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		11/23/21 01:26	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		11/23/21 01:26	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		11/23/21 01:26	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		11/23/21 01:26	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		11/23/21 01:26	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		11/23/21 01:26	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		11/23/21 01:26	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		11/23/21 01:26	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	70-130		1		11/23/21 01:26	17060-07-0	
Toluene-d8 (S)	109	%	70-130		1		11/23/21 01:26	2037-26-5	

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ANALYTICAL RESULTS

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Sample: TB-1 **Lab ID: 92573219060** Collected: 11/15/21 08:00 Received: 11/17/21 11:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		11/19/21 21:26	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		11/19/21 21:26	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		11/19/21 21:26	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		11/19/21 21:26	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		11/19/21 21:26	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		11/19/21 21:26	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		11/19/21 21:26	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		11/19/21 21:26	108-20-3	
Ethanol	ND	ug/L	200	144	1		11/19/21 21:26	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		11/19/21 21:26	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		11/19/21 21:26	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		11/19/21 21:26	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		11/19/21 21:26	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		11/19/21 21:26	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		11/19/21 21:26	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		11/19/21 21:26	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		11/19/21 21:26	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		11/19/21 21:26	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		11/19/21 21:26	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		11/19/21 21:26	2037-26-5	

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ANALYTICAL RESULTS

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Sample: TB-2 **Lab ID: 92573219061** Collected: 11/15/21 08:00 Received: 11/17/21 11:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		11/19/21 21:44	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		11/19/21 21:44	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		11/19/21 21:44	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		11/19/21 21:44	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		11/19/21 21:44	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		11/19/21 21:44	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		11/19/21 21:44	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		11/19/21 21:44	108-20-3	
Ethanol	ND	ug/L	200	144	1		11/19/21 21:44	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		11/19/21 21:44	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		11/19/21 21:44	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		11/19/21 21:44	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		11/19/21 21:44	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		11/19/21 21:44	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		11/19/21 21:44	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		11/19/21 21:44	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		11/19/21 21:44	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	110	%	70-130		1		11/19/21 21:44	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		11/19/21 21:44	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		11/19/21 21:44	2037-26-5	

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QUALITY CONTROL DATA

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

QC Batch: 661077
QC Batch Method: EPA 8260D
Analysis Method: EPA 8260D
Analysis Description: 8260 MSV Low Level SC
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92573219055

METHOD BLANK: 3463883 Matrix: Water
Associated Lab Samples: 92573219055

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	1.0	0.32	11/19/21 17:04	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	51.9	11/19/21 17:04	v2
Benzene	ug/L	ND	1.0	0.34	11/19/21 17:04	
Diisopropyl ether	ug/L	ND	1.0	0.31	11/19/21 17:04	
Ethanol	ug/L	ND	200	72.2	11/19/21 17:04	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.2	11/19/21 17:04	
Ethylbenzene	ug/L	ND	1.0	0.30	11/19/21 17:04	
m&p-Xylene	ug/L	ND	2.0	0.71	11/19/21 17:04	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.42	11/19/21 17:04	
Naphthalene	ug/L	ND	1.0	0.64	11/19/21 17:04	
o-Xylene	ug/L	ND	1.0	0.34	11/19/21 17:04	
tert-Amyl Alcohol	ug/L	ND	100	36.4	11/19/21 17:04	
tert-Amylmethyl ether	ug/L	ND	10.0	2.7	11/19/21 17:04	
tert-Butyl Alcohol	ug/L	ND	100	26.8	11/19/21 17:04	
tert-Butyl Formate	ug/L	ND	50.0	29.4	11/19/21 17:04	
Toluene	ug/L	ND	1.0	0.48	11/19/21 17:04	
Xylene (Total)	ug/L	ND	1.0	0.34	11/19/21 17:04	
1,2-Dichloroethane-d4 (S)	%	102	70-130		11/19/21 17:04	
4-Bromofluorobenzene (S)	%	98	70-130		11/19/21 17:04	
Toluene-d8 (S)	%	104	70-130		11/19/21 17:04	

LABORATORY CONTROL SAMPLE: 3463884

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	50.3	101	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	924	92	70-130	v3
Benzene	ug/L	50	50.7	101	70-130	
Diisopropyl ether	ug/L	50	54.0	108	70-130	
Ethanol	ug/L	2000	2080	104	70-130	
Ethyl-tert-butyl ether	ug/L	100	108	108	70-130	
Ethylbenzene	ug/L	50	53.3	107	70-130	
m&p-Xylene	ug/L	100	105	105	70-130	
Methyl-tert-butyl ether	ug/L	50	54.3	109	70-130	
Naphthalene	ug/L	50	48.7	97	70-130	
o-Xylene	ug/L	50	51.8	104	70-130	
tert-Amyl Alcohol	ug/L	1000	981	98	70-130	
tert-Amylmethyl ether	ug/L	100	107	107	70-130	
tert-Butyl Alcohol	ug/L	500	501	100	70-130	
tert-Butyl Formate	ug/L	400	376	94	70-130	

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QUALITY CONTROL DATA

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

LABORATORY CONTROL SAMPLE: 3463884

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	50	48.1	96	70-130	
Xylene (Total)	ug/L	150	157	104	70-130	
1,2-Dichloroethane-d4 (S)	%			107	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			95	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3463885 3463886

Parameter	Units	92573362001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	ND	20	20	21.0	23.0	105	115	70-137	9	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	340	360	85	90	39-157	6	30	
Benzene	ug/L	ND	20	20	21.2	22.9	106	114	70-151	7	30	
Diisopropyl ether	ug/L	ND	20	20	20.6	23.3	103	116	63-144	12	30	
Ethanol	ug/L	ND	800	800	865	965	108	121	39-176	11	30	
Ethyl-tert-butyl ether	ug/L	ND	40	40	39.8	45.7	99	114	66-137	14	30	
Ethylbenzene	ug/L	ND	20	20	20.9	23.4	105	117	66-153	11	30	
m&p-Xylene	ug/L	ND	40	40	42.8	47.6	107	119	69-152	11	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	20.2	23.0	101	115	54-156	13	30	
Naphthalene	ug/L	ND	20	20	19.0	20.4	95	102	61-148	7	30	
o-Xylene	ug/L	ND	20	20	19.8	22.8	99	114	70-148	14	30	
tert-Amyl Alcohol	ug/L	ND	400	400	328	355	82	89	54-153	8	30	
tert-Amylmethyl ether	ug/L	ND	40	40	37.2	41.9	93	105	69-139	12	30	
tert-Butyl Alcohol	ug/L	ND	200	200	201	235	100	118	43-188	16	30	
tert-Butyl Formate	ug/L	ND	160	160	115	108	72	68	10-170	6	30	
Toluene	ug/L	ND	20	20	22.0	23.9	110	120	59-148	8	30	
Xylene (Total)	ug/L	ND	60	60	62.6	70.4	104	117	63-158	12	30	
1,2-Dichloroethane-d4 (S)	%						110	113	70-130			
4-Bromofluorobenzene (S)	%						100	100	70-130			
Toluene-d8 (S)	%						98	98	70-130			

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QUALITY CONTROL DATA

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

QC Batch: 660929
QC Batch Method: EPA 8260D
Analysis Method: EPA 8260D
Analysis Description: 8260 MSV SC
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92573219003, 92573219004, 92573219005, 92573219006, 92573219009, 92573219010, 92573219011, 92573219018, 92573219019, 92573219020, 92573219021, 92573219022, 92573219023, 92573219024, 92573219026

METHOD BLANK: 3463246
Matrix: Water
Associated Lab Samples: 92573219003, 92573219004, 92573219005, 92573219006, 92573219009, 92573219010, 92573219011, 92573219018, 92573219019, 92573219020, 92573219021, 92573219022, 92573219023, 92573219024, 92573219026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	11/19/21 02:41	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	11/19/21 02:41	
Benzene	ug/L	ND	5.0	1.7	11/19/21 02:41	
Diisopropyl ether	ug/L	ND	5.0	3.5	11/19/21 02:41	
Ethanol	ug/L	ND	200	144	11/19/21 02:41	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	11/19/21 02:41	
Ethylbenzene	ug/L	ND	5.0	1.8	11/19/21 02:41	
m&p-Xylene	ug/L	ND	10.0	4.1	11/19/21 02:41	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	11/19/21 02:41	
Naphthalene	ug/L	ND	5.0	2.1	11/19/21 02:41	
o-Xylene	ug/L	ND	5.0	2.0	11/19/21 02:41	
tert-Amyl Alcohol	ug/L	ND	100	65.6	11/19/21 02:41	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	11/19/21 02:41	
tert-Butyl Alcohol	ug/L	ND	100	91.0	11/19/21 02:41	
tert-Butyl Formate	ug/L	ND	50.0	24.1	11/19/21 02:41	
Toluene	ug/L	ND	5.0	2.0	11/19/21 02:41	
Xylene (Total)	ug/L	ND	5.0	5.0	11/19/21 02:41	
1,2-Dichloroethane-d4 (S)	%	94	70-130		11/19/21 02:41	
4-Bromofluorobenzene (S)	%	101	70-130		11/19/21 02:41	
Toluene-d8 (S)	%	111	70-130		11/19/21 02:41	

LABORATORY CONTROL SAMPLE: 3463247

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	49.9	100	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	978	98	70-130	
Benzene	ug/L	50	48.5	97	70-130	
Diisopropyl ether	ug/L	50	48.3	97	70-130	
Ethanol	ug/L	2000	1910	96	70-130	
Ethyl-tert-butyl ether	ug/L	100	104	104	70-130	
Ethylbenzene	ug/L	50	47.3	95	70-130	
m&p-Xylene	ug/L	100	94.6	95	70-130	
Methyl-tert-butyl ether	ug/L	50	51.9	104	70-130	
Naphthalene	ug/L	50	50.3	101	70-130	
o-Xylene	ug/L	50	47.2	94	70-130	

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QUALITY CONTROL DATA

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

LABORATORY CONTROL SAMPLE: 3463247

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Amyl Alcohol	ug/L	1000	980	98	70-130	
tert-Amylmethyl ether	ug/L	100	97.2	97	70-130	
tert-Butyl Alcohol	ug/L	500	494	99	70-130	
tert-Butyl Formate	ug/L	400	397	99	70-130	
Toluene	ug/L	50	45.6	91	70-130	
Xylene (Total)	ug/L	150	142	95	70-130	
1,2-Dichloroethane-d4 (S)	%			105	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3463248 3463249

Parameter	Units	92573219003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	ND	20	20	20.3	21.0	101	105	70-137	3	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	450	479	112	120	39-157	6	30	
Benzene	ug/L	ND	20	20	20.2	20.9	101	104	70-151	3	30	
Diisopropyl ether	ug/L	ND	20	20	17.8	19.3	89	96	63-144	8	30	
Ethanol	ug/L	ND	800	800	825	896	103	112	39-176	8	30	
Ethyl-tert-butyl ether	ug/L	ND	40	40	37.8	40.7	94	102	66-137	8	30	
Ethylbenzene	ug/L	ND	20	20	20.7	21.5	104	107	66-153	4	30	
m&p-Xylene	ug/L	ND	40	40	41.4	42.8	104	107	69-152	3	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	18.1	20.0	89	98	54-156	10	30	
Naphthalene	ug/L	ND	20	20	25.5	24.0	127	120	61-148	6	30	
o-Xylene	ug/L	ND	20	20	19.9	20.8	100	104	70-148	4	30	
tert-Amyl Alcohol	ug/L	ND	400	400	383	429	96	107	54-153	11	30	
tert-Amylmethyl ether	ug/L	ND	40	40	39.0	40.8	97	102	69-139	5	30	
tert-Butyl Alcohol	ug/L	ND	200	200	280	309	140	155	43-188	10	30	
tert-Butyl Formate	ug/L	ND	160	160	ND	ND	0	0	10-170		30	P5
Toluene	ug/L	ND	20	20	20.8	21.7	104	109	59-148	4	30	
Xylene (Total)	ug/L	ND	60	60	61.3	63.6	102	106	63-158	4	30	
1,2-Dichloroethane-d4 (S)	%						103	100	70-130			
4-Bromofluorobenzene (S)	%						102	101	70-130			
Toluene-d8 (S)	%						101	100	70-130			

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QUALITY CONTROL DATA

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

QC Batch: 660941
QC Batch Method: EPA 8260D
Analysis Method: EPA 8260D
Analysis Description: 8260 MSV SC
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92573219028, 92573219029, 92573219030, 92573219031, 92573219032, 92573219033, 92573219034, 92573219035, 92573219036, 92573219037, 92573219038, 92573219039, 92573219045

METHOD BLANK: 3463333 Matrix: Water
Associated Lab Samples: 92573219028, 92573219029, 92573219030, 92573219031, 92573219032, 92573219033, 92573219034, 92573219035, 92573219036, 92573219037, 92573219038, 92573219039, 92573219045

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	11/18/21 18:14	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	11/18/21 18:14	
Benzene	ug/L	ND	5.0	1.7	11/18/21 18:14	
Diisopropyl ether	ug/L	ND	5.0	3.5	11/18/21 18:14	
Ethanol	ug/L	ND	200	144	11/18/21 18:14	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	11/18/21 18:14	
Ethylbenzene	ug/L	ND	5.0	1.8	11/18/21 18:14	
m&p-Xylene	ug/L	ND	10.0	4.1	11/18/21 18:14	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	11/18/21 18:14	
Naphthalene	ug/L	ND	5.0	2.1	11/18/21 18:14	
o-Xylene	ug/L	ND	5.0	2.0	11/18/21 18:14	
tert-Amyl Alcohol	ug/L	ND	100	65.6	11/18/21 18:14	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	11/18/21 18:14	
tert-Butyl Alcohol	ug/L	ND	100	91.0	11/18/21 18:14	
tert-Butyl Formate	ug/L	ND	50.0	24.1	11/18/21 18:14	
Toluene	ug/L	ND	5.0	2.0	11/18/21 18:14	
Xylene (Total)	ug/L	ND	5.0	5.0	11/18/21 18:14	
1,2-Dichloroethane-d4 (S)	%	98	70-130		11/18/21 18:14	
4-Bromofluorobenzene (S)	%	101	70-130		11/18/21 18:14	
Toluene-d8 (S)	%	103	70-130		11/18/21 18:14	

LABORATORY CONTROL SAMPLE: 3463334

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	44.0	88	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1040	104	70-130	
Benzene	ug/L	50	45.9	92	70-130	
Diisopropyl ether	ug/L	50	43.9	88	70-130	
Ethanol	ug/L	2000	2030	102	70-130	
Ethyl-tert-butyl ether	ug/L	100	93.3	93	70-130	
Ethylbenzene	ug/L	50	47.9	96	70-130	
m&p-Xylene	ug/L	100	97.0	97	70-130	
Methyl-tert-butyl ether	ug/L	50	44.8	90	70-130	
Naphthalene	ug/L	50	50.7	101	70-130	
o-Xylene	ug/L	50	48.2	96	70-130	
tert-Amyl Alcohol	ug/L	1000	985	98	70-130	
tert-Amylmethyl ether	ug/L	100	94.0	94	70-130	

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QUALITY CONTROL DATA

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

LABORATORY CONTROL SAMPLE: 3463334

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butyl Alcohol	ug/L	500	486	97	70-130	
tert-Butyl Formate	ug/L	400	414	104	70-130	
Toluene	ug/L	50	45.4	91	70-130	
Xylene (Total)	ug/L	150	145	97	70-130	
1,2-Dichloroethane-d4 (S)	%			94	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3463335 3463336

Parameter	Units	92573219045 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	ND	20	20	21.7	20.7	108	104	70-137	5	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	483	466	121	116	39-157	4	30	
Benzene	ug/L	ND	20	20	23.1	21.7	116	109	70-151	6	30	
Diisopropyl ether	ug/L	ND	20	20	21.9	20.6	110	103	63-144	6	30	
Ethanol	ug/L	ND	800	800	1110	1050	138	131	39-176	5	30	
Ethyl-tert-butyl ether	ug/L	ND	40	40	46.2	43.4	116	109	66-137	6	30	
Ethylbenzene	ug/L	ND	20	20	22.9	22.1	115	111	66-153	3	30	
m&p-Xylene	ug/L	ND	40	40	46.2	44.5	115	111	69-152	4	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	22.1	21.1	111	105	54-156	5	30	
Naphthalene	ug/L	ND	20	20	24.2	23.0	121	115	61-148	5	30	
o-Xylene	ug/L	ND	20	20	23.0	21.8	115	109	70-148	6	30	
tert-Amyl Alcohol	ug/L	ND	400	400	486	458	122	115	54-153	6	30	
tert-Amylmethyl ether	ug/L	ND	40	40	45.4	42.3	113	106	69-139	7	30	
tert-Butyl Alcohol	ug/L	ND	200	200	341	334	170	167	43-188	2	30	
tert-Butyl Formate	ug/L	ND	160	160	44.1J	30.5J	28	19	10-170		30	
Toluene	ug/L	ND	20	20	22.8	21.4	114	107	59-148	6	30	
Xylene (Total)	ug/L	ND	60	60	69.2	66.3	115	111	63-158	4	30	
1,2-Dichloroethane-d4 (S)	%						94	95	70-130			
4-Bromofluorobenzene (S)	%						99	102	70-130			
Toluene-d8 (S)	%						99	99	70-130			

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QUALITY CONTROL DATA

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

QC Batch: 660974
QC Batch Method: EPA 8260D
Analysis Method: EPA 8260D
Analysis Description: 8260 MSV SC
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92573219041, 92573219052

METHOD BLANK: 3463625 Matrix: Water
Associated Lab Samples: 92573219041, 92573219052

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	11/19/21 01:14	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	11/19/21 01:14	
Benzene	ug/L	ND	5.0	1.7	11/19/21 01:14	
Diisopropyl ether	ug/L	ND	5.0	3.5	11/19/21 01:14	
Ethanol	ug/L	ND	200	144	11/19/21 01:14	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	11/19/21 01:14	
Ethylbenzene	ug/L	ND	5.0	1.8	11/19/21 01:14	
m&p-Xylene	ug/L	ND	10.0	4.1	11/19/21 01:14	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	11/19/21 01:14	
Naphthalene	ug/L	ND	5.0	2.1	11/19/21 01:14	
o-Xylene	ug/L	ND	5.0	2.0	11/19/21 01:14	
tert-Amyl Alcohol	ug/L	ND	100	65.6	11/19/21 01:14	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	11/19/21 01:14	
tert-Butyl Alcohol	ug/L	ND	100	91.0	11/19/21 01:14	
tert-Butyl Formate	ug/L	ND	50.0	24.1	11/19/21 01:14	
Toluene	ug/L	ND	5.0	2.0	11/19/21 01:14	
Xylene (Total)	ug/L	ND	5.0	5.0	11/19/21 01:14	
1,2-Dichloroethane-d4 (S)	%	104	70-130		11/19/21 01:14	
4-Bromofluorobenzene (S)	%	94	70-130		11/19/21 01:14	
Toluene-d8 (S)	%	104	70-130		11/19/21 01:14	

LABORATORY CONTROL SAMPLE: 3463626

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	50.2	100	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	858	86	70-130	
Benzene	ug/L	50	49.8	100	70-130	
Diisopropyl ether	ug/L	50	51.8	104	70-130	
Ethanol	ug/L	2000	1990	99	70-130	
Ethyl-tert-butyl ether	ug/L	100	103	103	70-130	
Ethylbenzene	ug/L	50	50.7	101	70-130	
m&p-Xylene	ug/L	100	103	103	70-130	
Methyl-tert-butyl ether	ug/L	50	53.0	106	70-130	
Naphthalene	ug/L	50	47.6	95	70-130	
o-Xylene	ug/L	50	50.3	101	70-130	
tert-Amyl Alcohol	ug/L	1000	911	91	70-130	
tert-Amylmethyl ether	ug/L	100	101	101	70-130	
tert-Butyl Alcohol	ug/L	500	490	98	70-130	
tert-Butyl Formate	ug/L	400	367	92	70-130	

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QUALITY CONTROL DATA

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

LABORATORY CONTROL SAMPLE: 3463626

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	50	46.7	93	70-130	
Xylene (Total)	ug/L	150	153	102	70-130	
1,2-Dichloroethane-d4 (S)	%			110	70-130	
4-Bromofluorobenzene (S)	%			105	70-130	
Toluene-d8 (S)	%			96	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3463627 3463628

Parameter	Units	92573219041 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	ND	20	20	20.1	21.5	100	108	70-137	7	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	322	354	80	89	39-157	10	30	
Benzene	ug/L	8.6	20	20	30.1	31.7	108	116	70-151	5	30	
Diisopropyl ether	ug/L	ND	20	20	20.5	22.5	99	109	63-144	10	30	
Ethanol	ug/L	ND	800	800	782	883	98	110	39-176	12	30	
Ethyl-tert-butyl ether	ug/L	ND	40	40	39.0	42.3	97	106	66-137	8	30	
Ethylbenzene	ug/L	ND	20	20	21.5	21.9	107	109	66-153	2	30	
m&p-Xylene	ug/L	ND	40	40	43.5	44.2	109	110	69-152	1	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	21.5	22.4	102	106	54-156	4	30	
Naphthalene	ug/L	18.3	20	20	37.1	40.4	94	111	61-148	9	30	
o-Xylene	ug/L	ND	20	20	20.7	21.6	103	108	70-148	5	30	
tert-Amyl Alcohol	ug/L	146	400	400	541	588	99	111	54-153	8	30	
tert-Amylmethyl ether	ug/L	ND	40	40	37.3	41.3	93	103	69-139	10	30	
tert-Butyl Alcohol	ug/L	ND	200	200	200	214	100	107	43-188	7	30	
tert-Butyl Formate	ug/L	ND	160	160	118	104	73	65	10-170	12	30	
Toluene	ug/L	ND	20	20	20.5	21.7	102	109	59-148	6	30	
Xylene (Total)	ug/L	ND	60	60	64.2	65.8	107	110	63-158	2	30	
1,2-Dichloroethane-d4 (S)	%						106	104	70-130			
4-Bromofluorobenzene (S)	%						98	97	70-130			
Toluene-d8 (S)	%						97	99	70-130			

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QUALITY CONTROL DATA

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

QC Batch: 660981
QC Batch Method: EPA 8260D
Analysis Method: EPA 8260D
Analysis Description: 8260 MSV SC
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92573219060, 92573219061

METHOD BLANK: 3463659 Matrix: Water
Associated Lab Samples: 92573219060, 92573219061

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	11/19/21 20:13	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	11/19/21 20:13	
Benzene	ug/L	ND	5.0	1.7	11/19/21 20:13	
Diisopropyl ether	ug/L	ND	5.0	3.5	11/19/21 20:13	
Ethanol	ug/L	ND	200	144	11/19/21 20:13	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	11/19/21 20:13	
Ethylbenzene	ug/L	ND	5.0	1.8	11/19/21 20:13	
m&p-Xylene	ug/L	ND	10.0	4.1	11/19/21 20:13	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	11/19/21 20:13	
Naphthalene	ug/L	ND	5.0	2.1	11/19/21 20:13	
o-Xylene	ug/L	ND	5.0	2.0	11/19/21 20:13	
tert-Amyl Alcohol	ug/L	ND	100	65.6	11/19/21 20:13	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	11/19/21 20:13	
tert-Butyl Alcohol	ug/L	ND	100	91.0	11/19/21 20:13	
tert-Butyl Formate	ug/L	ND	50.0	24.1	11/19/21 20:13	
Toluene	ug/L	ND	5.0	2.0	11/19/21 20:13	
Xylene (Total)	ug/L	ND	5.0	5.0	11/19/21 20:13	
1,2-Dichloroethane-d4 (S)	%	101	70-130		11/19/21 20:13	
4-Bromofluorobenzene (S)	%	101	70-130		11/19/21 20:13	
Toluene-d8 (S)	%	104	70-130		11/19/21 20:13	

LABORATORY CONTROL SAMPLE: 3463660

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	52.8	106	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1210	121	70-130	
Benzene	ug/L	50	50.0	100	70-130	
Diisopropyl ether	ug/L	50	49.9	100	70-130	
Ethanol	ug/L	2000	2290	114	70-130	
Ethyl-tert-butyl ether	ug/L	100	105	105	70-130	
Ethylbenzene	ug/L	50	52.3	105	70-130	
m&p-Xylene	ug/L	100	109	109	70-130	
Methyl-tert-butyl ether	ug/L	50	50.4	101	70-130	
Naphthalene	ug/L	50	55.6	111	70-130	
o-Xylene	ug/L	50	53.4	107	70-130	
tert-Amyl Alcohol	ug/L	1000	1190	119	70-130	
tert-Amylmethyl ether	ug/L	100	109	109	70-130	
tert-Butyl Alcohol	ug/L	500	548	110	70-130	
tert-Butyl Formate	ug/L	400	474	119	70-130	

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QUALITY CONTROL DATA

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

LABORATORY CONTROL SAMPLE: 3463660

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	50	49.0	98	70-130	
Xylene (Total)	ug/L	150	162	108	70-130	
1,2-Dichloroethane-d4 (S)	%			107	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3463661 3463662

Parameter	Units	92572987002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	ND	20	20	17.2	17.1	86	86	70-137	1	30	v3
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	382	384	95	96	39-157	1	30	
Benzene	ug/L	ND	20	20	20.3	19.8	101	99	70-151	2	30	
Diisopropyl ether	ug/L	ND	20	20	17.7	17.2	88	86	63-144	3	30	v3
Ethanol	ug/L	ND	800	800	707	712	88	89	39-176	1	30	
Ethyl-tert-butyl ether	ug/L	ND	40	40	37.7	38.6	94	96	66-137	2	30	
Ethylbenzene	ug/L	ND	20	20	19.8	19.5	99	97	66-153	2	30	
m&p-Xylene	ug/L	ND	40	40	38.7	38.5	97	96	69-152	0	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	19.6	19.3	98	97	54-156	1	30	
Naphthalene	ug/L	ND	20	20	16.2	14.7	81	74	61-148	10	30	
o-Xylene	ug/L	ND	20	20	19.7	19.5	99	98	70-148	1	30	
tert-Amyl Alcohol	ug/L	ND	400	400	393	388	98	97	54-153	1	30	
tert-Amylmethyl ether	ug/L	ND	40	40	37.6	37.6	94	94	69-139	0	30	
tert-Butyl Alcohol	ug/L	ND	200	200	232	240	116	120	43-188	3	30	
tert-Butyl Formate	ug/L	ND	160	160	104	88.2	65	55	10-170	17	30	
Toluene	ug/L	ND	20	20	20.0	19.8	100	99	59-148	1	30	
Xylene (Total)	ug/L	ND	60	60	58.4	58.0	97	97	63-158	1	30	
1,2-Dichloroethane-d4 (S)	%						88	84	70-130			
4-Bromofluorobenzene (S)	%						97	98	70-130			
Toluene-d8 (S)	%						99	99	70-130			

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QUALITY CONTROL DATA

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

QC Batch: 661264
QC Batch Method: EPA 8260D
Analysis Method: EPA 8260D
Analysis Description: 8260 MSV SC
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92573219042, 92573219047, 92573219049, 92573219053

METHOD BLANK: 3464707 Matrix: Water
Associated Lab Samples: 92573219042, 92573219047, 92573219049, 92573219053

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	11/20/21 03:27	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	11/20/21 03:27	
Benzene	ug/L	ND	5.0	1.7	11/20/21 03:27	
Diisopropyl ether	ug/L	ND	5.0	3.5	11/20/21 03:27	
Ethanol	ug/L	ND	200	144	11/20/21 03:27	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	11/20/21 03:27	
Ethylbenzene	ug/L	ND	5.0	1.8	11/20/21 03:27	
m&p-Xylene	ug/L	ND	10.0	4.1	11/20/21 03:27	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	11/20/21 03:27	
Naphthalene	ug/L	ND	5.0	2.1	11/20/21 03:27	
o-Xylene	ug/L	ND	5.0	2.0	11/20/21 03:27	
tert-Amyl Alcohol	ug/L	ND	100	65.6	11/20/21 03:27	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	11/20/21 03:27	
tert-Butyl Alcohol	ug/L	ND	100	91.0	11/20/21 03:27	
tert-Butyl Formate	ug/L	ND	50.0	24.1	11/20/21 03:27	
Toluene	ug/L	ND	5.0	2.0	11/20/21 03:27	
Xylene (Total)	ug/L	ND	5.0	5.0	11/20/21 03:27	
1,2-Dichloroethane-d4 (S)	%	92	70-130		11/20/21 03:27	
4-Bromofluorobenzene (S)	%	100	70-130		11/20/21 03:27	
Toluene-d8 (S)	%	105	70-130		11/20/21 03:27	

LABORATORY CONTROL SAMPLE: 3464708

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	49.2	98	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	969	97	70-130	
Benzene	ug/L	50	48.2	96	70-130	
Diisopropyl ether	ug/L	50	49.7	99	70-130	
Ethanol	ug/L	2000	2030	102	70-130	
Ethyl-tert-butyl ether	ug/L	100	107	107	70-130	
Ethylbenzene	ug/L	50	48.9	98	70-130	
m&p-Xylene	ug/L	100	99.4	99	70-130	
Methyl-tert-butyl ether	ug/L	50	53.4	107	70-130	
Naphthalene	ug/L	50	51.0	102	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	101	101	70-130	
tert-Butyl Alcohol	ug/L	500	535	107	70-130	
tert-Butyl Formate	ug/L	400	461	115	70-130	

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QUALITY CONTROL DATA

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

LABORATORY CONTROL SAMPLE: 3464708

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	50	45.7	91	70-130	
Xylene (Total)	ug/L	150	149	100	70-130	
1,2-Dichloroethane-d4 (S)	%			102	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3464709 3464710

Parameter	Units	92572987032 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	ND	20	20	16.5	16.0	82	80	70-137	3	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	409	397	102	99	39-157	3	30	
Benzene	ug/L	ND	20	20	14.4	11.4	72	57	70-151	23	30	M1
Diisopropyl ether	ug/L	ND	20	20	14.3	13.4	72	67	63-144	6	30	
Ethanol	ug/L	ND	800	800	830	810	104	101	39-176	2	30	
Ethyl-tert-butyl ether	ug/L	ND	40	40	33.1	30.5	83	76	66-137	8	30	
Ethylbenzene	ug/L	ND	20	20	12.6	10.8	63	54	66-153	15	30	M1
m&p-Xylene	ug/L	ND	40	40	23.3	20.7	58	52	69-152	11	30	M1
Methyl-tert-butyl ether	ug/L	ND	20	20	16.4	16.3	82	81	54-156	1	30	
Naphthalene	ug/L	ND	20	20	9.7	8.8	49	44	61-148	9	30	M1
o-Xylene	ug/L	ND	20	20	11.8	10.4	59	52	70-148	13	30	M1
tert-Amyl Alcohol	ug/L	ND	400	400	375	380	94	95	54-153	1	30	
tert-Amylmethyl ether	ug/L	ND	40	40	34.0	33.2	85	83	69-139	2	30	
tert-Butyl Alcohol	ug/L	ND	200	200	265	275	133	137	43-188	4	30	
tert-Butyl Formate	ug/L	ND	160	160	ND	ND	0	0	10-170		30	P5
Toluene	ug/L	ND	20	20	13.6	11.3	68	56	59-148	19	30	M1
Xylene (Total)	ug/L	ND	60	60	35.1	31.2	59	52	63-158	12	30	MS
1,2-Dichloroethane-d4 (S)	%						96	98	70-130			
4-Bromofluorobenzene (S)	%						100	102	70-130			
Toluene-d8 (S)	%						103	102	70-130			

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QUALITY CONTROL DATA

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

QC Batch: 661269
QC Batch Method: EPA 8260D
Analysis Method: EPA 8260D
Analysis Description: 8260 MSV SC
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92573219040, 92573219046, 92573219051

METHOD BLANK: 3464738 Matrix: Water
Associated Lab Samples: 92573219040, 92573219046, 92573219051

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	11/20/21 05:00	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	11/20/21 05:00	
Benzene	ug/L	ND	5.0	1.7	11/20/21 05:00	
Diisopropyl ether	ug/L	ND	5.0	3.5	11/20/21 05:00	
Ethanol	ug/L	ND	200	144	11/20/21 05:00	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	11/20/21 05:00	
Ethylbenzene	ug/L	ND	5.0	1.8	11/20/21 05:00	
m&p-Xylene	ug/L	ND	10.0	4.1	11/20/21 05:00	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	11/20/21 05:00	
Naphthalene	ug/L	ND	5.0	2.1	11/20/21 05:00	
o-Xylene	ug/L	ND	5.0	2.0	11/20/21 05:00	
tert-Amyl Alcohol	ug/L	ND	100	65.6	11/20/21 05:00	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	11/20/21 05:00	
tert-Butyl Alcohol	ug/L	ND	100	91.0	11/20/21 05:00	
tert-Butyl Formate	ug/L	ND	50.0	24.1	11/20/21 05:00	
Toluene	ug/L	ND	5.0	2.0	11/20/21 05:00	
Xylene (Total)	ug/L	ND	5.0	5.0	11/20/21 05:00	
1,2-Dichloroethane-d4 (S)	%	94	70-130		11/20/21 05:00	
4-Bromofluorobenzene (S)	%	116	70-130		11/20/21 05:00	
Toluene-d8 (S)	%	95	70-130		11/20/21 05:00	

LABORATORY CONTROL SAMPLE: 3464739

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	50.9	102	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1140	114	70-130	
Benzene	ug/L	50	49.8	100	70-130	
Diisopropyl ether	ug/L	50	47.6	95	70-130	
Ethanol	ug/L	2000	2050	103	70-130	
Ethyl-tert-butyl ether	ug/L	100	93.5	93	70-130	
Ethylbenzene	ug/L	50	47.3	95	70-130	
m&p-Xylene	ug/L	100	94.1	94	70-130	
Methyl-tert-butyl ether	ug/L	50	55.2	110	70-130	
Naphthalene	ug/L	50	57.7	115	70-130	
o-Xylene	ug/L	50	47.3	95	70-130	
tert-Amyl Alcohol	ug/L	1000	1080	108	70-130	
tert-Amylmethyl ether	ug/L	100	107	107	70-130	
tert-Butyl Alcohol	ug/L	500	587	117	70-130	
tert-Butyl Formate	ug/L	400	372	93	70-130	

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QUALITY CONTROL DATA

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

LABORATORY CONTROL SAMPLE: 3464739

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	50	58.1	116	70-130	
Xylene (Total)	ug/L	150	141	94	70-130	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			83	70-130	
Toluene-d8 (S)	%			120	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3464740 3464741

Parameter	Units	92573219046 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	ND	100	100	101	109	101	109	70-137	8	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	2000	2000	2160	2200	108	110	39-157	2	30	
Benzene	ug/L	791	100	100	1090	960	299	168	70-151	13	30	E,M1
Diisopropyl ether	ug/L	103	100	100	219	186	116	83	63-144	16	30	
Ethanol	ug/L	ND	4000	4000	3710	3470	93	87	39-176	7	30	
Ethyl-tert-butyl ether	ug/L	ND	200	200	204	197	102	98	66-137	4	30	
Ethylbenzene	ug/L	265	100	100	367	372	102	107	66-153	1	30	
m&p-Xylene	ug/L	792	200	200	952	997	80	103	69-152	5	30	
Methyl-tert-butyl ether	ug/L	84.9	100	100	214	189	129	104	54-156	12	30	
Naphthalene	ug/L	137	100	100	209	224	73	88	61-148	7	30	
o-Xylene	ug/L	ND	100	100	80.3	114	76	109	70-148	35	30	R1
tert-Amyl Alcohol	ug/L	2090	2000	2000	5500	4900	170	140	54-153	12	30	M1
tert-Amylmethyl ether	ug/L	30.3J	200	200	277	261	124	115	69-139	6	30	
tert-Butyl Alcohol	ug/L	ND	1000	1000	1170	1010	109	93	43-188	15	30	
tert-Butyl Formate	ug/L	ND	800	800	743	789	93	99	10-170	6	30	
Toluene	ug/L	16.2J	100	100	137	125	121	109	59-148	9	30	
Xylene (Total)	ug/L	792	300	300	1030	1110	80	106	63-158	7	30	RS
1,2-Dichloroethane-d4 (S)	%						92	91	70-130			
4-Bromofluorobenzene (S)	%						79	99	70-130			
Toluene-d8 (S)	%						116	96	70-130			

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QUALITY CONTROL DATA

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

QC Batch: 661568
QC Batch Method: EPA 8260D
Analysis Method: EPA 8260D
Analysis Description: 8260 MSV SC
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92573219002, 92573219013, 92573219014, 92573219015, 92573219016, 92573219043, 92573219048

METHOD BLANK: 3466333 Matrix: Water
Associated Lab Samples: 92573219002, 92573219013, 92573219014, 92573219015, 92573219016, 92573219043, 92573219048

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	11/24/21 00:40	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	11/24/21 00:40	
Benzene	ug/L	ND	5.0	1.7	11/24/21 00:40	
Diisopropyl ether	ug/L	ND	5.0	3.5	11/24/21 00:40	
Ethanol	ug/L	ND	200	144	11/24/21 00:40	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	11/24/21 00:40	
Ethylbenzene	ug/L	ND	5.0	1.8	11/24/21 00:40	
m&p-Xylene	ug/L	ND	10.0	4.1	11/24/21 00:40	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	11/24/21 00:40	
Naphthalene	ug/L	ND	5.0	2.1	11/24/21 00:40	
o-Xylene	ug/L	ND	5.0	2.0	11/24/21 00:40	
tert-Amyl Alcohol	ug/L	ND	100	65.6	11/24/21 00:40	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	11/24/21 00:40	
tert-Butyl Alcohol	ug/L	ND	100	91.0	11/24/21 00:40	
tert-Butyl Formate	ug/L	ND	50.0	24.1	11/24/21 00:40	
Toluene	ug/L	ND	5.0	2.0	11/24/21 00:40	
Xylene (Total)	ug/L	ND	5.0	5.0	11/24/21 00:40	
1,2-Dichloroethane-d4 (S)	%	91	70-130		11/24/21 00:40	
4-Bromofluorobenzene (S)	%	102	70-130		11/24/21 00:40	
Toluene-d8 (S)	%	105	70-130		11/24/21 00:40	

LABORATORY CONTROL SAMPLE: 3466334

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	49.4	99	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	976	98	70-130	
Benzene	ug/L	50	47.7	95	70-130	
Diisopropyl ether	ug/L	50	47.1	94	70-130	
Ethanol	ug/L	2000	1970	99	70-130	
Ethyl-tert-butyl ether	ug/L	100	102	102	70-130	
Ethylbenzene	ug/L	50	45.8	92	70-130	
m&p-Xylene	ug/L	100	91.1	91	70-130	
Methyl-tert-butyl ether	ug/L	50	52.4	105	70-130	
Naphthalene	ug/L	50	49.8	100	70-130	
o-Xylene	ug/L	50	45.7	91	70-130	
tert-Amyl Alcohol	ug/L	1000	963	96	70-130	
tert-Amylmethyl ether	ug/L	100	94.6	95	70-130	
tert-Butyl Alcohol	ug/L	500	485	97	70-130	
tert-Butyl Formate	ug/L	400	430	108	70-130	

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QUALITY CONTROL DATA

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

LABORATORY CONTROL SAMPLE: 3466334

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	50	45.8	92	70-130	
Xylene (Total)	ug/L	150	137	91	70-130	
1,2-Dichloroethane-d4 (S)	%			103	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3466335 3466336

Parameter	Units	92573219002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	ND	2500	2500	2570	2540	103	102	70-137	1	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	50000	50000	54400	49700	109	99	39-157	9	30	
Benzene	ug/L	3340	2500	2500	6500	6490	126	126	70-151	0	30	
Diisopropyl ether	ug/L	ND	2500	2500	2330	2410	93	96	63-144	3	30	
Ethanol	ug/L	ND	100000	100000	102000	95800	102	96	39-176	6	30	
Ethyl-tert-butyl ether	ug/L	ND	5000	5000	5090	4730	102	95	66-137	7	30	
Ethylbenzene	ug/L	1410	2500	2500	4240	4150	113	110	66-153	2	30	
m&p-Xylene	ug/L	10200	5000	5000	16200	15700	119	110	69-152	3	30	
Methyl-tert-butyl ether	ug/L	ND	2500	2500	2610	2500	102	97	54-156	5	30	
Naphthalene	ug/L	768	2500	2500	3170	3430	96	106	61-148	8	30	
o-Xylene	ug/L	5850	2500	2500	8740	8740	115	115	70-148	0	30	
tert-Amyl Alcohol	ug/L	ND	50000	50000	50900	45300	102	91	54-153	12	30	
tert-Amylmethyl ether	ug/L	ND	5000	5000	5250	5210	105	104	69-139	1	30	
tert-Butyl Alcohol	ug/L	ND	25000	25000	24400	21800	98	87	43-188	11	30	
tert-Butyl Formate	ug/L	ND	20000	20000	18900	15200	95	76	10-170	22	30	
Toluene	ug/L	22800	2500	2500	24400	24400	65	65	59-148	0	30	
Xylene (Total)	ug/L	16100	7500	7500	24900	24500	118	112	63-158	2	30	
1,2-Dichloroethane-d4 (S)	%						102	99	70-130			
4-Bromofluorobenzene (S)	%						101	100	70-130			
Toluene-d8 (S)	%						99	99	70-130			

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QUALITY CONTROL DATA

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

QC Batch: 661570
QC Batch Method: EPA 8260D
Analysis Method: EPA 8260D
Analysis Description: 8260 MSV SC
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92573219001, 92573219007, 92573219012, 92573219017, 92573219025, 92573219027, 92573219044, 92573219054, 92573219057, 92573219058, 92573219059

METHOD BLANK: 3466340 Matrix: Water
Associated Lab Samples: 92573219001, 92573219007, 92573219012, 92573219017, 92573219025, 92573219027, 92573219044, 92573219054, 92573219057, 92573219058, 92573219059

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	11/23/21 00:50	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	11/23/21 00:50	
Benzene	ug/L	ND	5.0	1.7	11/23/21 00:50	
Diisopropyl ether	ug/L	ND	5.0	3.5	11/23/21 00:50	
Ethanol	ug/L	ND	200	144	11/23/21 00:50	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	11/23/21 00:50	
Ethylbenzene	ug/L	ND	5.0	1.8	11/23/21 00:50	
m&p-Xylene	ug/L	ND	10.0	4.1	11/23/21 00:50	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	11/23/21 00:50	
Naphthalene	ug/L	ND	5.0	2.1	11/23/21 00:50	
o-Xylene	ug/L	ND	5.0	2.0	11/23/21 00:50	
tert-Amyl Alcohol	ug/L	ND	100	65.6	11/23/21 00:50	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	11/23/21 00:50	
tert-Butyl Alcohol	ug/L	ND	100	91.0	11/23/21 00:50	
tert-Butyl Formate	ug/L	ND	50.0	24.1	11/23/21 00:50	
Toluene	ug/L	ND	5.0	2.0	11/23/21 00:50	
Xylene (Total)	ug/L	ND	5.0	5.0	11/23/21 00:50	
1,2-Dichloroethane-d4 (S)	%	90	70-130		11/23/21 00:50	
4-Bromofluorobenzene (S)	%	98	70-130		11/23/21 00:50	
Toluene-d8 (S)	%	107	70-130		11/23/21 00:50	

LABORATORY CONTROL SAMPLE: 3466341

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	51.0	102	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1020	102	70-130	
Benzene	ug/L	50	50.0	100	70-130	
Diisopropyl ether	ug/L	50	49.9	100	70-130	
Ethanol	ug/L	2000	1930	96	70-130	
Ethyl-tert-butyl ether	ug/L	100	105	105	70-130	
Ethylbenzene	ug/L	50	48.6	97	70-130	
m&p-Xylene	ug/L	100	95.5	95	70-130	
Methyl-tert-butyl ether	ug/L	50	53.2	106	70-130	
Naphthalene	ug/L	50	46.9	94	70-130	
o-Xylene	ug/L	50	47.5	95	70-130	
tert-Amyl Alcohol	ug/L	1000	1010	101	70-130	
tert-Amylmethyl ether	ug/L	100	98.0	98	70-130	

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QUALITY CONTROL DATA

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

LABORATORY CONTROL SAMPLE: 3466341

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butyl Alcohol	ug/L	500	506	101	70-130	
tert-Butyl Formate	ug/L	400	404	101	70-130	
Toluene	ug/L	50	47.9	96	70-130	
Xylene (Total)	ug/L	150	143	95	70-130	
1,2-Dichloroethane-d4 (S)	%			104	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3466342 3466343

Parameter	Units	92573219027 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	ND	200	200	204	196	102	98	70-137	4	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	4000	4000	4120	4400	103	110	39-157	6	30	
Benzene	ug/L	183	200	200	396	400	106	108	70-151	1	30	
Diisopropyl ether	ug/L	ND	200	200	177	173	88	86	63-144	2	30	
Ethanol	ug/L	ND	8000	8000	7690	7750	96	97	39-176	1	30	
Ethyl-tert-butyl ether	ug/L	ND	400	400	372	375	93	94	66-137	1	30	
Ethylbenzene	ug/L	1610	200	200	1830	1860	110	123	66-153	1	30	
m&p-Xylene	ug/L	1040	400	400	1450	1490	103	112	69-152	2	30	
Methyl-tert-butyl ether	ug/L	ND	200	200	182	192	91	96	54-156	6	30	
Naphthalene	ug/L	636	200	200	928	953	146	159	61-148	3	30	M1
o-Xylene	ug/L	200	200	200	402	406	101	103	70-148	1	30	
tert-Amyl Alcohol	ug/L	ND	4000	4000	4230	4580	92	101	54-153	8	30	
tert-Amylmethyl ether	ug/L	ND	400	400	392	401	98	100	69-139	2	30	
tert-Butyl Alcohol	ug/L	ND	2000	2000	2190	2430	110	121	43-188	10	30	
tert-Butyl Formate	ug/L	ND	1600	1600	608	617	38	39	10-170	1	30	
Toluene	ug/L	337	200	200	525	526	94	94	59-148	0	30	
Xylene (Total)	ug/L	1240	600	600	1850	1890	102	109	63-158	2	30	
1,2-Dichloroethane-d4 (S)	%						101	99	70-130			
4-Bromofluorobenzene (S)	%						99	97	70-130			
Toluene-d8 (S)	%						102	101	70-130			

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QUALITY CONTROL DATA

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

QC Batch: 661918
QC Batch Method: EPA 8260D
Analysis Method: EPA 8260D
Analysis Description: 8260 MSV SC
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92573219008, 92573219056

METHOD BLANK: 3468106 Matrix: Water
Associated Lab Samples: 92573219008, 92573219056

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	11/24/21 02:21	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	11/24/21 02:21	
Benzene	ug/L	ND	5.0	1.7	11/24/21 02:21	
Diisopropyl ether	ug/L	ND	5.0	3.5	11/24/21 02:21	
Ethanol	ug/L	ND	200	144	11/24/21 02:21	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	11/24/21 02:21	
Ethylbenzene	ug/L	ND	5.0	1.8	11/24/21 02:21	
m&p-Xylene	ug/L	ND	10.0	4.1	11/24/21 02:21	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	11/24/21 02:21	
Naphthalene	ug/L	ND	5.0	2.1	11/24/21 02:21	
o-Xylene	ug/L	ND	5.0	2.0	11/24/21 02:21	
tert-Amyl Alcohol	ug/L	ND	100	65.6	11/24/21 02:21	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	11/24/21 02:21	
tert-Butyl Alcohol	ug/L	ND	100	91.0	11/24/21 02:21	
tert-Butyl Formate	ug/L	ND	50.0	24.1	11/24/21 02:21	
Toluene	ug/L	ND	5.0	2.0	11/24/21 02:21	
Xylene (Total)	ug/L	ND	5.0	5.0	11/24/21 02:21	
1,2-Dichloroethane-d4 (S)	%	80	70-130		11/24/21 02:21	
4-Bromofluorobenzene (S)	%	94	70-130		11/24/21 02:21	
Toluene-d8 (S)	%	98	70-130		11/24/21 02:21	

LABORATORY CONTROL SAMPLE: 3468107

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	39.8	80	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	986	99	70-130	
Benzene	ug/L	50	47.6	95	70-130	
Diisopropyl ether	ug/L	50	37.9	76	70-130	
Ethanol	ug/L	2000	1770	88	70-130	
Ethyl-tert-butyl ether	ug/L	100	85.3	85	70-130	
Ethylbenzene	ug/L	50	49.1	98	70-130	
m&p-Xylene	ug/L	100	99.5	99	70-130	
Methyl-tert-butyl ether	ug/L	50	43.5	87	70-130	
Naphthalene	ug/L	50	53.4	107	70-130	
o-Xylene	ug/L	50	51.1	102	70-130	
tert-Amyl Alcohol	ug/L	1000	953	95	70-130	
tert-Amylmethyl ether	ug/L	100	91.2	91	70-130	
tert-Butyl Alcohol	ug/L	500	454	91	70-130	
tert-Butyl Formate	ug/L	400	325	81	70-130	

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QUALITY CONTROL DATA

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

LABORATORY CONTROL SAMPLE: 3468107

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	50	48.9	98	70-130	
Xylene (Total)	ug/L	150	151	100	70-130	
1,2-Dichloroethane-d4 (S)	%			81	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3468108 3468109

Parameter	Units	92573882011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	ND	20	20	16.2	16.6	81	83	70-137	2	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	383	406	96	102	39-157	6	30	
Benzene	ug/L	ND	20	20	19.5	20.3	98	102	70-151	4	30	
Diisopropyl ether	ug/L	ND	20	20	15.7	16.5	79	82	63-144	5	30	
Ethanol	ug/L	ND	800	800	695	717	87	90	39-176	3	30	
Ethyl-tert-butyl ether	ug/L	ND	40	40	34.8	36.2	87	90	66-137	4	30	
Ethylbenzene	ug/L	ND	20	20	19.8	21.1	99	105	66-153	6	30	
m&p-Xylene	ug/L	ND	40	40	40.4	43.4	101	108	69-152	7	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	17.5	18.4	88	92	54-156	5	30	
Naphthalene	ug/L	ND	20	20	20.6	22.5	103	112	61-148	9	30	
o-Xylene	ug/L	ND	20	20	20.2	21.7	101	109	70-148	7	30	
tert-Amyl Alcohol	ug/L	ND	400	400	388	409	97	102	54-153	5	30	
tert-Amylmethyl ether	ug/L	ND	40	40	36.4	38.8	91	97	69-139	6	30	
tert-Butyl Alcohol	ug/L	ND	200	200	236	258	118	129	43-188	9	30	
tert-Butyl Formate	ug/L	ND	160	160	67.7	56.9	42	36	10-170	17	30	
Toluene	ug/L	ND	20	20	19.8	20.8	99	104	59-148	5	30	
Xylene (Total)	ug/L	ND	60	60	60.6	65.1	101	108	63-158	7	30	
1,2-Dichloroethane-d4 (S)	%						80	80	70-130			
4-Bromofluorobenzene (S)	%						99	99	70-130			
Toluene-d8 (S)	%						98	98	70-130			

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QUALITY CONTROL DATA

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

QC Batch: 661476
QC Batch Method: EPA 8011
Analysis Method: EPA 8011
Analysis Description: GCS 8011 EDB DBCP
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92573219001, 92573219002, 92573219003, 92573219004, 92573219005, 92573219006, 92573219007, 92573219008, 92573219009, 92573219010, 92573219011, 92573219012, 92573219013, 92573219014, 92573219015, 92573219016, 92573219017, 92573219018

METHOD BLANK: 3465701 Matrix: Water
Associated Lab Samples: 92573219001, 92573219002, 92573219003, 92573219004, 92573219005, 92573219006, 92573219007, 92573219008, 92573219009, 92573219010, 92573219011, 92573219012, 92573219013, 92573219014, 92573219015, 92573219016, 92573219017, 92573219018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.0070	11/22/21 19:38	
1-Chloro-2-bromopropane (S)	%	100	60-140		11/22/21 19:38	

LABORATORY CONTROL SAMPLE & LCSD: 3465702 3465703

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.25	0.26	0.25	103	98	60-140	5	20	
1-Chloro-2-bromopropane (S)	%				103	100	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3465705 3465706

Parameter	Units	92573219002 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	26.8	0.25	0.25	19.4	19.0	-2950	-3100	60-140	2	20	M1
1-Chloro-2-bromopropane (S)	%						133	130	60-140			

SAMPLE DUPLICATE: 3465704

Parameter	Units	92573219001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	107	109			

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QUALITY CONTROL DATA

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

QC Batch: 661477
QC Batch Method: EPA 8011
Analysis Method: EPA 8011
Analysis Description: GCS 8011 EDB DBCP
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92573219019, 92573219020, 92573219021, 92573219022, 92573219023, 92573219024, 92573219025, 92573219026, 92573219027, 92573219028, 92573219029, 92573219030, 92573219031, 92573219032, 92573219033, 92573219034, 92573219035, 92573219036, 92573219037, 92573219038

METHOD BLANK: 3465708 Matrix: Water
Associated Lab Samples: 92573219019, 92573219020, 92573219021, 92573219022, 92573219023, 92573219024, 92573219025, 92573219026, 92573219027, 92573219028, 92573219029, 92573219030, 92573219031, 92573219032, 92573219033, 92573219034, 92573219035, 92573219036, 92573219037, 92573219038

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.0070	11/22/21 14:57	
1-Chloro-2-bromopropane (S)	%	101	60-140		11/22/21 14:57	

LABORATORY CONTROL SAMPLE & LCSD: 3465709 3465710

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.25	0.27	0.27	109	107	60-140	2	20	
1-Chloro-2-bromopropane (S)	%				109	106	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3465712 3465713

Parameter	Units	92573219020 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	0.25	0.25	0.27	0.26	108	106	60-140	2	20	
1-Chloro-2-bromopropane (S)	%						108	107	60-140			

SAMPLE DUPLICATE: 3465711

Parameter	Units	92573219019 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	106	109			

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QUALITY CONTROL DATA

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

QC Batch: 661478
QC Batch Method: EPA 8011
Analysis Method: EPA 8011
Analysis Description: GCS 8011 EDB DBCP
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92573219039, 92573219040, 92573219041, 92573219042, 92573219043, 92573219044, 92573219045, 92573219046, 92573219047, 92573219048, 92573219049, 92573219051, 92573219052, 92573219053, 92573219054, 92573219055, 92573219056, 92573219057, 92573219058, 92573219059

METHOD BLANK: 3465714 Matrix: Water
Associated Lab Samples: 92573219039, 92573219040, 92573219041, 92573219042, 92573219043, 92573219044, 92573219045, 92573219046, 92573219047, 92573219048, 92573219049, 92573219051, 92573219052, 92573219053, 92573219054, 92573219055, 92573219056, 92573219057, 92573219058, 92573219059

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.0070	11/22/21 19:44	
1-Chloro-2-bromopropane (S)	%	112	60-140		11/22/21 19:44	

LABORATORY CONTROL SAMPLE & LCSD: 3465715 3465716

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.25	0.27	0.28	110	113	60-140	3	20	
1-Chloro-2-bromopropane (S)	%				111	114	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3465718 3465719

Parameter	Units	92573219040 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	0.24	0.24	0.27	0.27	109	111	60-140	1	20	
1-Chloro-2-bromopropane (S)	%						111	112	60-140			

SAMPLE DUPLICATE: 3465717

Parameter	Units	92573219039 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	113	112			

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QUALIFIERS

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
MS	Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the calculated result.
P5	The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.
R1	RPD value was outside control limits.
RS	The RPD value in one of the constituent analytes was outside the control limits.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.
v2	The continuing calibration verification was below the method acceptance limit. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.
v3	The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have low bias.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92573219001	MW-2	EPA 8011	661476	EPA 8011	661563
92573219002	MW-3	EPA 8011	661476	EPA 8011	661563
92573219003	MW-4	EPA 8011	661476	EPA 8011	661563
92573219004	MW-6	EPA 8011	661476	EPA 8011	661563
92573219005	MW-7	EPA 8011	661476	EPA 8011	661563
92573219006	MW-8	EPA 8011	661476	EPA 8011	661563
92573219007	MW-9	EPA 8011	661476	EPA 8011	661563
92573219008	MW-10	EPA 8011	661476	EPA 8011	661563
92573219009	MW-11	EPA 8011	661476	EPA 8011	661563
92573219010	MW-15	EPA 8011	661476	EPA 8011	661563
92573219011	MW-16	EPA 8011	661476	EPA 8011	661563
92573219012	MW-17	EPA 8011	661476	EPA 8011	661563
92573219013	MW-18	EPA 8011	661476	EPA 8011	661563
92573219014	MW-19	EPA 8011	661476	EPA 8011	661563
92573219015	MW-20	EPA 8011	661476	EPA 8011	661563
92573219016	MW-22	EPA 8011	661476	EPA 8011	661563
92573219017	MW-23	EPA 8011	661476	EPA 8011	661563
92573219018	MW-25	EPA 8011	661476	EPA 8011	661563
92573219019	MW-26	EPA 8011	661477	EPA 8011	661564
92573219020	MW-27	EPA 8011	661477	EPA 8011	661564
92573219021	MW-28	EPA 8011	661477	EPA 8011	661564
92573219022	MW-29	EPA 8011	661477	EPA 8011	661564
92573219023	MW-30	EPA 8011	661477	EPA 8011	661564
92573219024	MW-31	EPA 8011	661477	EPA 8011	661564
92573219025	MW-32	EPA 8011	661477	EPA 8011	661564
92573219026	MW-33	EPA 8011	661477	EPA 8011	661564
92573219027	MW-35	EPA 8011	661477	EPA 8011	661564
92573219028	MW-36	EPA 8011	661477	EPA 8011	661564
92573219029	MW-37	EPA 8011	661477	EPA 8011	661564
92573219030	MW-41	EPA 8011	661477	EPA 8011	661564
92573219031	MW-43	EPA 8011	661477	EPA 8011	661564
92573219032	MW-44	EPA 8011	661477	EPA 8011	661564
92573219033	MW-45	EPA 8011	661477	EPA 8011	661564
92573219034	MW-46	EPA 8011	661477	EPA 8011	661564
92573219035	MW-48	EPA 8011	661477	EPA 8011	661564
92573219036	MW-49	EPA 8011	661477	EPA 8011	661564
92573219037	MW-50	EPA 8011	661477	EPA 8011	661564
92573219038	MW-51	EPA 8011	661477	EPA 8011	661564
92573219039	MW-53	EPA 8011	661478	EPA 8011	661565
92573219040	MW-55	EPA 8011	661478	EPA 8011	661565
92573219041	MW-62	EPA 8011	661478	EPA 8011	661565
92573219042	MW-63	EPA 8011	661478	EPA 8011	661565
92573219043	MW-SAR	EPA 8011	661478	EPA 8011	661565
92573219044	PW-1R	EPA 8011	661478	EPA 8011	661565
92573219045	DW-1	EPA 8011	661478	EPA 8011	661565
92573219046	DW-3	EPA 8011	661478	EPA 8011	661565
92573219047	DW-4	EPA 8011	661478	EPA 8011	661565
92573219048	DW-5	EPA 8011	661478	EPA 8011	661565

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92573219049	DW-9	EPA 8011	661478	EPA 8011	661565
92573219051	UNK-1	EPA 8011	661478	EPA 8011	661565
92573219052	UNK-3	EPA 8011	661478	EPA 8011	661565
92573219053	UNK-4	EPA 8011	661478	EPA 8011	661565
92573219054	UNK-5	EPA 8011	661478	EPA 8011	661565
92573219055	SW-1	EPA 8011	661478	EPA 8011	661565
92573219056	DUP-1	EPA 8011	661478	EPA 8011	661565
92573219057	DUP-2	EPA 8011	661478	EPA 8011	661565
92573219058	DUP-3	EPA 8011	661478	EPA 8011	661565
92573219059	FB	EPA 8011	661478	EPA 8011	661565
92573219055	SW-1	EPA 8260D	661077		
92573219001	MW-2	EPA 8260D	661570		
92573219002	MW-3	EPA 8260D	661568		
92573219003	MW-4	EPA 8260D	660929		
92573219004	MW-6	EPA 8260D	660929		
92573219005	MW-7	EPA 8260D	660929		
92573219006	MW-8	EPA 8260D	660929		
92573219007	MW-9	EPA 8260D	661570		
92573219008	MW-10	EPA 8260D	661918		
92573219009	MW-11	EPA 8260D	660929		
92573219010	MW-15	EPA 8260D	660929		
92573219011	MW-16	EPA 8260D	660929		
92573219012	MW-17	EPA 8260D	661570		
92573219013	MW-18	EPA 8260D	661568		
92573219014	MW-19	EPA 8260D	661568		
92573219015	MW-20	EPA 8260D	661568		
92573219016	MW-22	EPA 8260D	661568		
92573219017	MW-23	EPA 8260D	661570		
92573219018	MW-25	EPA 8260D	660929		
92573219019	MW-26	EPA 8260D	660929		
92573219020	MW-27	EPA 8260D	660929		
92573219021	MW-28	EPA 8260D	660929		
92573219022	MW-29	EPA 8260D	660929		
92573219023	MW-30	EPA 8260D	660929		
92573219024	MW-31	EPA 8260D	660929		
92573219025	MW-32	EPA 8260D	661570		
92573219026	MW-33	EPA 8260D	660929		
92573219027	MW-35	EPA 8260D	661570		
92573219028	MW-36	EPA 8260D	660941		
92573219029	MW-37	EPA 8260D	660941		
92573219030	MW-41	EPA 8260D	660941		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CLOUDS CHEVRON
Pace Project No.: 92573219

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92573219031	MW-43	EPA 8260D	660941		
92573219032	MW-44	EPA 8260D	660941		
92573219033	MW-45	EPA 8260D	660941		
92573219034	MW-46	EPA 8260D	660941		
92573219035	MW-48	EPA 8260D	660941		
92573219036	MW-49	EPA 8260D	660941		
92573219037	MW-50	EPA 8260D	660941		
92573219038	MW-51	EPA 8260D	660941		
92573219039	MW-53	EPA 8260D	660941		
92573219040	MW-55	EPA 8260D	661269		
92573219041	MW-62	EPA 8260D	660974		
92573219042	MW-63	EPA 8260D	661264		
92573219043	MW-SAR	EPA 8260D	661568		
92573219044	PW-1R	EPA 8260D	661570		
92573219045	DW-1	EPA 8260D	660941		
92573219046	DW-3	EPA 8260D	661269		
92573219047	DW-4	EPA 8260D	661264		
92573219048	DW-5	EPA 8260D	661568		
92573219049	DW-9	EPA 8260D	661264		
92573219051	UNK-1	EPA 8260D	661269		
92573219052	UNK-3	EPA 8260D	660974		
92573219053	UNK-4	EPA 8260D	661264		
92573219054	UNK-5	EPA 8260D	661570		
92573219056	DUP-1	EPA 8260D	661918		
92573219057	DUP-2	EPA 8260D	661570		
92573219058	DUP-3	EPA 8260D	661570		
92573219059	FB	EPA 8260D	661570		
92573219060	TB-1	EPA 8260D	660981		
92573219061	TB-2	EPA 8260D	660981		

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LAB WO# : 92573219

92573219

r Number or

Y

Company: SCDHEC	Billing Information:
Address: 2600 Bull St	
Report To: R. Dunn	Email To: DunnRA@dhec.sc.gov
Copy To:	Site Collection Info/Address: Taylor St & Two Notch Rd
Customer Project Name/Number: Clouds Chevron	State: SC / County/City: Columbia / Time Zone Collected: [ ] PT [ ] MT [ ] CT [X] ET
Phone: / Email:	Site/Facility ID #: UST # 077771 / 12352 CA#6321 / Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Chris Hawkins	Purchase Order #: / Quote #: / DW PWS ID #: / DW Location Code:
Collected By (signature): [signature]	Turnaround Date Required: / Immediately Packed on Ice: [X] Yes [ ] No
Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: ____ [ ] Hold: ____	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply) / Field Filtered (if applicable): [ ] Yes [ ] No / Analysis: ____

Container Preservative Type **: 3 5

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other ____

Analyses

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N NA
Custody Signatures Present	Y N NA
Collector Signature Present	Y N NA
Bottles Intact	Y N NA
Correct Bottles	Y N NA
Sufficient Volume	Y N NA
Samples Received on Ice	Y N NA
VOA - Headspace Acceptable	Y N NA
USDA Regulated Soils	Y N NA
Samples in Holding Time	Y N NA
Residual Chlorine Present	Y N NA
Cl Strips: ____	
Sample pH Acceptable	Y N NA
pH Strips: ____	
Sulfide Present	Y N NA
Lead Acetate Strips: ____	

MS 11/18/21

LAB USE ONLY:
Lab Sample # / Comments:

92573219

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Time	Composite End Date	Time	Res Cl	# of Ctns	BTEX NM 1, 2 DCA 8260D	EDB SOIL	Lab Sample # / Comments
MW-1											DNS
MW-2	GW	G	11/15/21	14:07				6	X	X	Strong odor 001
MW-3	↓	↓	↓	14:23				↓	↓	↓	002
MW-4	↓	↓	↓	14:17				↓	↓	↓	No odor 003
MW-5											DNS
MW-6	GW	G	11/15/21	12:45				6	X	X	no odor 004
MW-7	↓	↓	↓	13:00				↓	↓	↓	005
MW-8	↓	↓	↓	12:50				↓	↓	↓	006
MW-9	↓	↓	↓	9:58				↓	↓	↓	odor 007
MW-10	↓	↓	↓	9:33				↓	↓	↓	Strong odor 008

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used: bubble bags

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2602090

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: 921064
Cooler 1 Temp Upon Receipt: 4.8 oC
Cooler 1 Therm Corr. Factor: 0 oC
Cooler 1 Corrected Temp: 4.8 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
[signature] / MECI	11/17	Josh Mallas/Pace	11/17/21 1105
Josh Mallas/Pace	11/17/21 1821	[signature] PACE HVL	11/18/21 8:00

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES NO

Page: ____ of: ____

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LAB USE ONLY

WO# : 92573219

PM: LNW Due Date: 11/24/21

CLIENT: 92-SCDHEC

Company: SCDHEC	Billing Information:
Address: 2600 Bull Street	
Report To:	Email To: DUNNRA@dhec.sc.gov
Copy To:	Site Collection Info/Address: Taylor St. & 2 notch
Customer Project Name/Number: Clouds Chevron	State: SC / County/City: Columbia / Time Zone Collected: [ ] PT [ ] MT [ ] CT [X] ET
Phone: / Email:	Site/Facility ID #: ust #07777/12352 CAP63212
Collected By (print): Chris Hanson	Purchase Order #: / Quote #:
Collected By (signature): [signature]	Turnaround Date Required:
Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: ____ [ ] Hold: ____	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)

Compliance Monitoring? [ ] Yes [ ] No

DW PWS ID #:

DW Location Code:

Immediately Packed on Ice: [X] Yes [ ] No

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis: ____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Container Preservative Type ** 3 5

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other ____

Analyses: BTEX NM1,2DCA oxys 8260D; EPB Soil

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N NA	
Custody Signatures Present	Y N NA	
Collector Signature Present	Y N NA	
Bottles Intact	Y N NA	MS 11/18/21
Correct Bottles	Y N NA	
Sufficient Volume	Y N NA	
Samples Received on Ice	Y N NA	
VOA - Headspace Acceptable	Y N NA	
USDA Regulated Soils	Y N NA	
Samples in Holding Time	Y N NA	
Residual Chlorine Present	Y N NA	
Cl Strips: ____		
Sample pH Acceptable	Y N NA	
pH Strips: ____		
Sulfide Present	Y N NA	
Lead Acetate Strips: ____		

LAB USE ONLY:

Lab Sample # / Comments:

92573219

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Time	Composite End Date	Time	Res Cl	# of Ctns	BTEX NM1,2DCA oxys 8260D	EPB Soil	Lab Sample # / Comments
MW-11	GW	G	11/15/21	9:41				6	X	X	no odor 009
MW-12											DNS
MW-13											DNS
MW-15	GW	G	11/15/21	10:07				6	X	X	no odor 010
MW-16	↓	↓	↓	12:07				↓	↓	↓	↓ 011
MW-17	↓	↓	↓	12:16				↓	↓	↓	odor 012
MW-18	↓	↓	↓	11:43				↓	↓	↓	Strong odor 013
MW-19	↓	↓	↓	11:08				↓	↓	↓	↓ 014
MW-20	↓	↓	↓	10:17				↓	↓	↓	no odor 015
MW-22	↓	↓	↓	10:33				↓	↓	↓	odor 016

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used: bubble bags

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2546824

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:

Temp Blank Received: Y N NA

Therm ID#: 92T064

Cooler 1 Temp Upon Receipt: 4.8 oC

Cooler 1 Therm Corr. Factor: 0 oC

Cooler 1 Corrected Temp: 4.8 oC

Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
[signature] / MECI		Josh Mallas/Pace	11/17/21 1105
Josh Mallas/Pace	11/17/21 1821	[signature] PACE HW	11/18/21 8:00

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Table #:

Acctnum:

Template:

Prelogin:

PM:

PB:

Trip Blank Received: Y N NA

HCL MeOH TSP Other

Non Conformance(s): YES / NO

of: ____

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LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY

Company: SCDHEC	Billing Information:
Address: 2600 Bull Street	
Report To: DunnRA@dhec.sc.gov	Email To: DunnRA@dhec.sc.gov
Copy To:	Site Collection Info/Address: Taylor Street & 2 notch
Customer Project Name/Number: Clouds Chevron	State: SC / County/City: Columbia / Time Zone Collected: [ ] PT [ ] MT [ ] CT [X] ET
Phone: / Email:	Site/Facility ID #: UST 077771 CA #63212 / Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Chris Hansen	Purchase Order #: / Quote #: / DW PWS ID #: / DW Location Code:
Collected By (signature): [signature]	Turnaround Date Required: / Immediately Packed on Ice: [X] Yes [ ] No
Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: ____ [ ] Hold: ____	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply) / Field Filtered (if applicable): [ ] Yes [ ] No Analysis: ____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Container Preservative Type **: 3 | 3

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other ____

Analyses: BTEX NM1, 2DRA ovys 8260D; EDB 8011

Lab Project Manager:

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N NA	
Custody Signatures Present	Y N NA	
Collector Signature Present	Y N NA	
Bottles Intact	Y N NA	MS 11/18/21
Correct Bottles	Y N NA	
Sufficient Volume	Y N NA	
Samples Received on Ice	Y N NA	
VOA - Headspace Acceptable	Y N NA	
USDA Regulated Soils	Y N NA	
Samples in Holding Time	Y N NA	
Residual Chlorine Present	Y N NA	
Cl Strips:		
Sample pH Acceptable	Y N NA	
pH Strips:		
Sulfide Present	Y N NA	
Lead Acetate Strips:		

LAB USE ONLY:
Lab Sample # / Comments:

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Time	Composite End Date	Time	Res Cl	# of Ctns	BTEX NM1, 2DRA ovys 8260D	EDB 8011	Lab Sample # / Comments
											92573219
MW-23	GW	G	11/15/21	11:27				6	X	X	Strong odor 017
MW-25	↓	↓	↓	11:36				↓	↓	↓	odor 018
MW-26	↓	↓	↓	14:31				↓	↓	↓	slight odor 019
MW-27	↓	↓	↓	11:14				↓	↓	↓	↓ 020
MW-28	↓	↓	↓	10:39				↓	↓	↓	no odor 021
MW-29	↓	↓	↓	10:48				↓	↓	↓	↓ 022
MW-30	↓	↓	↓	10:43				↓	↓	↓	odor 023
MW-31	↓	↓	↓	12:20				↓	↓	↓	↓ 024
MW-32	↓	↓	↓	12:09				↓	↓	↓	no odor 025
MW-33	↓	↓	↓	11:52				↓	↓	↓	Strong odor 026

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used: bubble bags

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2546823

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: 927064
Cooler 1 Temp Upon Receipt: 4.8 oC
Cooler 1 Therm Corr. Factor: 0 oC
Cooler 1 Corrected Temp: 4.8 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
[signature] / MECI	11/17	Josh Mallas/Pace	11/17/21 1105
Josh Mallas/Pace	11/17/21 1821	[signature] PACE KU	11/18/21 8:00

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

MS 11/18/21

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

of: ____

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LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY

Company: SCDHEC

Billing Information:

Address: 2600 Bull Street

Report To: R-Dunn.

Email To: DunnRA@dhec.sc.gov

Copy To:

Site Collection Info/Address: Taylor St. & 2 notch

Customer Project Name/Number: Claudy Chevron

State: SC / County/City: Columbia

Time Zone Collected: [ ] PT [ ] MT [ ] CT [X] ET

Phone:
Email:

Site/Facility ID #: ust # 07771 CA#63212

Compliance Monitoring? [ ] Yes [ ] No

Collected By (print): Chris Hanson

Purchase Order #:
Quote #:

DW PWS ID #:
DW Location Code:

Collected By (signature): [signature]

Turnaround Date Required:

Immediately Packed on Ice: [X] Yes [ ] No

Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold: _____

Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis: _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Container Preservative Type **: 3 | 3

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Analyses: BTEX NM 1,2 DCA Oxys 8260D; EDB Soil

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	BTEX NM 1,2 DCA Oxys 8260D	EDB Soil	Lab Profile/Line
MW-34	—										92573219 DNS
MW-35	GW	G	11/15/21	12:19				6	X	X	Strong odor 027
MW-36	↓	↓	↓	12:15				↓	↓	↓	odor 028
MW-37	↓	↓	↓	12:25				↓	↓	↓	no odor 029
MW-38	—										DNS
MW-39	—										↓
MW-40	—										↓
MW-41	GW	G	11/15/21	12:49				6	X	X	no odor 030
MW-42	—										DNS
MW-43	GW	G	11/15/21	11:53				6	X	X	no odor 031

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N	NA
Custody Signatures Present	Y N	NA
Collector Signature Present	Y N	NA
Bottles Intact	Y N	NA MS 11/18/21
Correct Bottles	Y N	NA
Sufficient Volume	Y N	NA
Samples Received on Ice	Y N	NA
VOA - Headspace Acceptable	Y N	NA
USDA Regulated Soils	Y N	NA
Samples in Holding Time	Y N	NA
Residual Chlorine Present	Y N	NA
Cl Strips:		
Sample pH Acceptable	Y N	NA
pH Strips:		
Sulfide Present	Y N	NA
Lead Acetate Strips:		

LAB USE ONLY:
Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used: bubble bags

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2546822

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: 921064
Cooler 1 Temp Upon Receipt: 4.8 oC
Cooler 1 Therm Corr. Factor: 0 oC
Cooler 1 Corrected Temp: 4.8 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
[signature] /MECI		Josh Mallas/Pace	11/17/21 1105
Josh Mallas/Pace	11/17/21 1821	[signature] PACEHU	11/18/21 8:00

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA HCL MeOH TSP Other

Non Conformance(s): YES / NO

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LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY

Company: SCDHEC	Billing Information:
Address: 2600 Bull Street	
Report To: R. Dunn	Email To: DunnRA@dhec.sc.gov
Copy To:	Site Collection Info/Address: Taylor St & 2 notch
Customer Project Name/Number: Clouds Chevron	State: SC / County/City: Columbia / Time Zone Collected: [ ] PT [ ] MT [ ] CT [X] ET
Phone: / Email:	Site/Facility ID #: UST #07771 CA #63212 / Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Chris Hanson	Purchase Order #: / Quote #: / DW PWS ID #: / DW Location Code:
Collected By (signature):	Turnaround Date Required: / Immediately Packed on Ice: [ ] Yes [ ] No
Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold: _____	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply) / Field Filtered (if applicable): [ ] Yes [ ] No Analysis: _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns
MW-44	GW	G	11/15/21	1549				6
MW-45				1541				
MW-46				1544				
MW-48				1530				
MW-49				1534				
MW-50				1525				
MW-51				950				
MW-53				1027				
MW-54								
MW-55	GW	G	11/15/21	1053				6

Container Preservative Type **: 3 3

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Analyses: BTEX NWI 1,2 DCA only 8260 / EDB SOIL

Lab Project Manager:

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N (NA)
Custody Signatures Present	(Y) N NA
Collector Signature Present	(Y) N NA
Bottles Intact	(Y) N NA
Correct Bottles	(Y) N NA
Sufficient Volume	(Y) N NA
Samples Received on Ice	(Y) N NA
VOA - Headspace Acceptable	Y (N) NA
USDA Regulated Soils	Y N (NA)
Samples in Holding Time	(Y) N NA
Residual Chlorine Present	Y N (NA)
Cl Strips: _____	
Sample pH Acceptable	Y N (NA)
pH Strips: _____	
Sulfide Present	Y N (NA)
Lead Acetate Strips: _____	

LAB USE ONLY:
Lab Sample # / Comments:

92578219

MW-44	no odor 032
MW-45	033
MW-46	034
MW-48	035
MW-49	036
MW-50	037
MW-51	038
MW-53	039
MW-54	DNS
MW-55	odor 040

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: (Wet) Blue Dry None

Packing Material Used: bubble bags

Radchem sample(s) screened (<500 cpm): Y N (NA)

SHORT HOLDS PRESENT (<72 hours): Y (N) N/A

Lab Tracking #: 2546821

Samples received via: FEDEX UPS Client Courier (Pace Courier)

Lab Sample Temperature Info:
Temp Blank Received: Y (N) NA
Therm ID#: 92704
Cooler 1 Temp Upon Receipt: 4.8 oC
Cooler 1 Therm Corr. Factor: .8 oC
Cooler 1 Corrected Temp: 4.8 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
[signature] / SCDHEC		Josh Mallas/Pace	11/17/21 1105
Josh Mallas/Pace	11/17/21 1821	[signature] PACE/HAL	11/18/21 8:00

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: (Y) N NA
(HCL) MeOH TSP Other

Non Conformance(s): (YES) / NO

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CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY

Company: SCDHEC

Billing Information:

Address: 2600 Bull Street

Report To: Dunnra

Email To: Dunnra@dhec.sc.gov

Copy To:

Site Collection Info/Address: Taylor & 2 Notch Rd.

Customer Project Name/Number: Clouds Chevron

State: SC / County/City: Columbia

Time Zone Collected: [ ] PT [ ] MT [ ] CT [X] ET

Phone:

Email:

Site/Facility ID #: UST # 07771 CA# 63212

Compliance Monitoring? [ ] Yes [ ] No

Collected By (print): Chris Hansen

Purchase Order #:

Quote #:

DW PWS ID #:

DW Location Code:

Collected By (signature):

Turnaround Date Required:

Immediately Packed on Ice: [ ] Yes [ ] No

Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold: _____

Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis: _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Container Preservative Type **: 3 3

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Analyses: BTEX NM 1,2 DCA oxys 8260D; EDB 8011

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact Y N NA
Custody Signatures Present Y N NA
Collector Signature Present Y N NA
Bottles Intact Y N NA MS 11/18/21
Correct Bottles Y N NA
Sufficient Volume Y N NA
Samples Received on Ice Y N NA
VOA - Headspace Acceptable Y N NA
USDA Regulated Soils Y N NA
Samples in Holding Time Y N NA
Residual Chlorine Present Y N NA
Cl Strips: _____
Sample pH Acceptable Y N NA
pH Strips: _____
Sulfide Present Y N NA
Lead Acetate Strips: _____

LAB USE ONLY:
Lab Sample # / Comments:

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Time	Composite End Date	Time	Res Cl	# of Ctns	BTEX NM 1,2 DCA oxys 8260D	EDB 8011	Lab Sample # / Comments
											92573219
MW-56											DNS
MW-58											
MW-59											
MW-60											
MW-62	GW	G	11/15/21	12:52				6	X	X	No order 041
MW-63		G	11/15/21	12:59				6	X	X	No order 042
MW-65											DNS
MW-67											
MW-70											
MW-SAR	GW	G	11/15/21	10:37				6	X	X	043

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used: bubble bags

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2547116

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: 92T604
Cooler 1 Temp Upon Receipt: 4.8 oC
Cooler 1 Therm Corr. Factor: 0 oC
Cooler 1 Corrected Temp: 4.8 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
[signature] / DHEC	11/17	Josh Mallas/Pace	11/17/21 1105
Josh Mallas/Pace	11/17/21 1821	[signature] / PACE HW	11/18/21 800

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Pace Analytical®

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY

Company: SCDHEC	Billing Information:
Address: 2600 Bull Street	
Report To: R-Dunn	Email To: DunnRA@dhec.sc.gov
Copy To:	Site Collection Info/Address: Taylor St & 2 notch
Customer Project Name/Number: Clouds Chevron	State: SC / County/City: Columbia Time Zone Collected: [ ] PT [ ] MT [ ] CT [X] ET
Phone: Email:	Site/Facility ID #: UST #07771 CA# 63212 Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Chris Hansen	Purchase Order #: Quote #: DW PWS ID #: DW Location Code:
Collected By (signature): [signature]	Turnaround Date Required: Immediately Packed on Ice: [X] Yes [ ] No
Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: ____ [ ] Hold: ____	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply) Field Filtered (if applicable): [ ] Yes [ ] No Analysis: ____

Container Preservative Type **: 3 | 3

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other ____

Analyses: BTEX NM 1,2 DCA oxys 8260D; EDB 8011

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N NA
Custody Signatures Present	Y N NA
Collector Signature Present	Y N NA
Bottles Intact	Y N NA
Correct Bottles	Y N NA
Sufficient Volume	Y N NA
Samples Received on Ice	Y N NA
VOA - Headspace Acceptable	Y N NA
USDA Regulated Soils	Y N NA
Samples in Holding Time	Y N NA
Residual Chlorine Present	Y N NA
Cl Strips: ____	
Sample pH Acceptable	Y N NA
pH Strips: ____	
Sulfide Present	Y N NA
Lead Acetate Strips: ____	

LAB USE ONLY:
Lab Sample # / Comments:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Time	Composite End Date	Time	Res Cl	# of Ctns	BTEX NM 1,2 DCA oxys 8260D	EDB 8011	Lab Sample # / Comments
~~[illegible]~~ PW-1R	GW	G	11/15/21	13:52							Strong odor 044
DW-1	↓	↓	↓	14:09							no odor 045
DW-2											DNS
DW-3	GW	G	11/15/21	10:34							Strong odor 046
DW-4	↓	↓	↓	10:03							no odor 047
DW-5	↓	↓	↓	9:59							odor 048
DW-6											DNS
DW-7											
DW-8											↓
DW-9	GW	G	11/15/21	11:00							no odor 049

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used: bubble bags

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2547139

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: 92T064
Cooler 1 Temp Upon Receipt: 4.8 oC
Cooler 1 Therm Corr. Factor: 0 oC
Cooler 1 Corrected Temp: 4.8 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
[signature] / MEC I	11/17	Josh Mallas/Pace	11/17/21 1105
Josh Mallas/Pace	11/17/21 1821	[signature] PACE HVL	11/18/21 8:00

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

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CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY

Company: SCDHEC

Billing Information:

Address: 2600 Bull Street

Report To: R. Dunn

Email To: DunnRA@dhcc-sc.gov

Copy To:

Site Collection Info/Address: Taylor St. & 2 notch

Customer Project Name/Number: Clouds chevron

State: SC / County/City: Columbia / Time Zone Collected: [ ] PT [ ] MT [ ] CT [X] ET

Phone:
Email:

Site/Facility ID #: UST # 07771 CA # 63212

Compliance Monitoring? [ ] Yes [ ] No

Collected By (print): Chris Hanson

Purchase Order #:
Quote #:

DW PWS ID #:
DW Location Code:

Collected By (signature): [signature]

Turnaround Date Required:

Immediately Packed on Ice: [X] Yes [ ] No

Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: ____ [ ] Hold: ____

Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis: ____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Container Preservative Type **: 3 | 3

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other ____

Analyses: BTEX NM 1,2 DCA oxys 8260D; EDB soil

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Time	Composite End Date	Time	Res Cl	# of Ctns	BTEX NM 1,2 DCA oxys 8260D	EDB soil	Lab Sample # / Comments
											92573219
unk-1	GW	G	11/15/21	12:13				6	X	X	ODOR 050
unk-2											DVS 051
unk-3	GW	G	11/15/21	14:18				6	X	X	no odor 052
unk-4				11:17							slight odor 053
unk-5				12:13							ODOR 054
SW-1				11:10							LPL 055
Dup-1				9:33							dup1 056
Dup-2				12:13							dup2 057
Dup-3				10:57							dup3 058
FD				14:30							FB 059

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y	N	NA
Custody Signatures Present	Y	N	NA
Collector Signature Present	Y	N	NA
Bottles Intact	Y	N	NA
Correct Bottles	Y	N	NA
Sufficient Volume	Y	N	NA
Samples Received on Ice	Y	N	NA
VOA - Headspace Acceptable	Y	N	NA
USDA Regulated Soils	Y	N	NA
Samples in Holding Time	Y	N	NA
Residual Chlorine Present	Y	N	NA
Cl Strips: ____			
Sample pH Acceptable	Y	N	NA
pH Strips: ____			
Sulfide Present	Y	N	NA
Lead Acetate Strips: ____			

LAB USE ONLY:
Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used: bubble bags

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2546707

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: 92T064
Cooler 1 Temp Upon Receipt: 4.8 oC
Cooler 1 Therm Corr. Factor: 0 oC
Cooler 1 Corrected Temp: 4.8 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
[signature] / PACE I	11/17	Josh Mallas/Pace	11/17/21 1105
Josh Mallas/Pace	11/17/21 1821	[signature] / PACE HVL	11/18/21 8:00

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page 116 of 123

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CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY

Company: SCDHEC	Billing Information:
Address: 2600 Bull Street	
Report To: R- Dunn	Email To: dunnra@dhec-
Copy To:	Site Collection Info/Address: Taylor Street &
Customer Project Name/Number: Clouds Chevron	State: SC / County/City: Columbia / Time Zone Collected: [ ]PT [ ]MT [ ]CT [X]ET
Phone: / Email:	Site/Facility ID #: UST#07771 CA#63252 / Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Chris Hanson	Purchase Order #: / Quote #: / DW PWS ID #: / DW Location Code:
Collected By (signature):	Turnaround Date Required: / Immediately Packed on Ice: [X] Yes [ ] No
Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold: _____	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply) / Field Filtered (if applicable): [ ] Yes [ ] No Analysis: _____

Container Preservative Type **: 3 3

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Analyses: BTEX NM 1,2 DCA OMS 8260B | EDB 504.1

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N (NA)
Custody Signatures Present	Y N NA
Collector Signature Present	Y N NA
Bottles Intact	Y N NA
Correct Bottles	Y N NA
Sufficient Volume	Y N NA
Samples Received on Ice	Y N NA
VOA - Headspace Acceptable	Y (N) NA
USDA Regulated Soils	Y N (NA)
Samples in Holding Time	Y N NA
Residual Chlorine Present	Y N (NA)
Cl Strips: _____	
Sample pH Acceptable	Y N (NA)
pH Strips: _____	
Sulfide Present	Y N (NA)
Lead Acetate Strips: _____	

LAB USE ONLY:
Lab Sample # / Comments:

92573219

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	BTEX NM 1,2 DCA OMS 8260B	EDB 504.1	Lab Sample # / Comments
GAC	GW	G	11/15/21	14:35				6	X	X	GAC
TB-1	GW	G	"	8:00				2	X		TB1 060
TB-2	GW	G	↓	8:00				2	X		TB2 061

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: (Wet) Blue Dry None

Packing Material Used: bubble bags

Radchem sample(s) screened (<500 cpm): Y N (NA)

SHORT HOLDS PRESENT (<72 hours): Y (N) N/A

Lab Tracking #: 2546708

Samples received via: FEDEX UPS Client Courier (Pace Courier)

Lab Sample Temperature Info:
Temp Blank Received: Y (N) NA
Therm ID#: 92706A
Cooler 1 Temp Upon Receipt: 4.8 oC
Cooler 1 Therm Corr. Factor: 0 oC
Cooler 1 Corrected Temp: 4.8 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
[signature] / AECOM	11/17	Josh Mallas/Pace	11/17/21 1105
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Josh Mallas/Pace	11/17/21 1821	[signature] PACE HOU	11/18/21 8:00
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: (Y) N NA
(HCL) MeOH TSP Other

Non Conformance(s): (YES) / NO

Page: _____ of: _____

Pace Analytical®	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: November 15, 2021 Page 2 of 2
	Document No.: F-CAR-CS-033-Rev.08	Issuing Authority: Pace Carolinas Quality Office

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

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

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

Project # **WO#: 92573219**

PM: LNW Due Date: 11/24/21

CLIENT: 92-SCDHEC

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (3 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)	AG0L-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1	\				\	\	\	\			\		\	\	\	6									\	\			
2	\				\	\	\	\			\		\	\	\	6									\	\			
3	\				\	\	\	\			\		\	\	\	6									\	\			
4	\				\	\	\	\			\		\	\	\	6									\	\			
5	\				\	\	\	\			\		\	\	\	6									\	\			
6	\				\	\	\	\			\		\	\	\	6									\	\			
7	\				\	\	\	\			\		\	\	\	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 #

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.

2

Pace Analytical®	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: November 15, 2021 Page 2 of 2
	Document No.: F-CAR-CS-033-Rev.08	Issuing Authority: Pace Carolinas Quality Office

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

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

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

Project #

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (3 vials per kit)-504S kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1																6													
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 #

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.

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

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

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

Project #

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAH (3 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1																6													
2																6													
3																6													
4																6													
5																6													
6																6													
7																5													
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 #

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.

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

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

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

Project #

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAI (3 vials per kit)-504S kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1																6													
2																6													
3																6													
4																6													
5																6													
6																6													
7																6													
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9																6													
10																6													
11																6													
12																6													

extra

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 #

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5

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Project #

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (3 vials per kit)-5035 kit (N/A)	V/GK(3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1																6													
2 (MISSING)																													
3																6													
4																6													
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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 #

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6

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

Project #

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (3 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1																2													
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pH Adjustment Log for Preserved Samples

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

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

Pace Analytical
www.pacelabs.com

Sample Receiving Non-Conformance Form (NCF)

Date: 11/18/21	**Evaluated by:** MS
Client: SCDHEC	

WO#: 92573219
PM: LNW Due Date: 11/24/21
CLIENT: 92-SCDHEC

1. If Chain-of-Custody (COC) is not received: contact client and if necessary, fill out a COC and indicate that it was filled out by lab personnel. Note issues on this NCF.

2. If COC is incomplete, check applicable issues below and add details where appropriate:

✓	Collection date/time missing or incorrect		Analyses or analytes: missing or clarification needed	✓	Samples listed on COC do not match samples received (missing, additional, etc.)
	Sample IDs on COC do not match sample labels		Required trip blanks were not received		Required signatures are missing

Comments/Details/Other Issues not listed above:
MW 62 @1, MW 63, and UNK-2 listed as DNS on chain, 6 DG9H vials received for each sample. UNK 1 not received. No dates/times on any containers

3. Sample integrity issues: check applicable issues below and add details where appropriate:

	Samples: Past holding time		Samples: Condition needs to be brought to lab personnel's attention (details below)		Preservation: Improper
	Samples: Not field filtered	✓	Containers: Broken or compromised		Temperature: not within acceptance criteria (typically 0-6C)
	Samples: Insufficient volume received		Containers: Incorrect		Temperature: Samples arrived frozen
	Samples: Cooler damaged or compromised		Custody Seals: Missing or compromised on samples, trip blanks or coolers	✓	Vials received with improper headspace
	Samples: contain chlorine or sulfides		Packing Material: Insufficient/Improper		Other:

Comments/Details: Headspace in 1 MW-63, 1 PW 1R, 3 DW-4 vials
1 MW-43 vial arrived cracked

4. If Samples not preserved properly and Sample Receiving adjusts pH, add details below:

Sample ID:	Date/Time:	Amount/type pres added:
Preserved by:	Initial and Final pH:	Lot # of pres added:
Sample ID:	Date/Time:	Amount/type pres added:
Preserved by:	Initial and Final pH:	Lot # of pres added:
Sample ID:	Date/Time:	Amount/type pres added:
Preserved by:	Initial and Final pH:	Lot # of pres added:

5. Client Contact: If client is contacted for any issue listed above, fill in details below:

Client:	Contacted per:	
PM Initials:	Date/Time:	

Client Comments/Instructions:

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

November 24, 2021

Mr. Bryan Shane
Midlands Environmental
PO Box 854
Lexington, SC 29071

RE: Project: CLOUDS CHEVRON GAC
Pace Project No.: 92573319

Dear Mr. Shane:

Enclosed are the analytical results for sample(s) received by the laboratory on November 17, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:
- Pace Analytical Services - Charlotte

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

Sincerely,

Lindsey N Wooten
lindsey.wooten@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Mr. Jeff Coleman, Midlands Environmental
Mr. Kyle Pudney, Midlands Environmental

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

CERTIFICATIONS

Project: CLOUDS CHEVRON GAC
Pace Project No.: 92573319

Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Laboratory ID: 99006
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DoH Drinking Water #: LA029
Virginia/VELAP Certification #: 460221

REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: CLOUDS CHEVRON GAC
Pace Project No.: 92573319

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92573319001	**GAC**	Water	11/15/21 14:35	11/17/21 11:05

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SAMPLE ANALYTE COUNT

Project: CLOUDS CHEVRON GAC
Pace Project No.: 92573319

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92573319001	**GAC**	EPA 8011	HH	2	PASI-C
		EPA 8260D	BSH	20	PASI-C

PASI-C = Pace Analytical Services - Charlotte

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ANALYTICAL RESULTS

Project: CLOUDS CHEVRON GAC
Pace Project No.: 92573319

Sample: GAC **Lab ID: 92573319001** Collected: 11/15/21 14:35 Received: 11/17/21 11:05 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0069	1	11/23/21 11:55	11/23/21 21:51	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	101	%	60-140		1	11/23/21 11:55	11/23/21 21:51	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		11/19/21 21:45	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		11/19/21 21:45	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		11/19/21 21:45	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		11/19/21 21:45	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		11/19/21 21:45	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		11/19/21 21:45	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		11/19/21 21:45	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		11/19/21 21:45	108-20-3	
Ethanol	ND	ug/L	200	144	1		11/19/21 21:45	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		11/19/21 21:45	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		11/19/21 21:45	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		11/19/21 21:45	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		11/19/21 21:45	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		11/19/21 21:45	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		11/19/21 21:45	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		11/19/21 21:45	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		11/19/21 21:45	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		11/19/21 21:45	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%	70-130		1		11/19/21 21:45	17060-07-0	
Toluene-d8 (S)	108	%	70-130		1		11/19/21 21:45	2037-26-5	

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QUALITY CONTROL DATA

Project: CLOUDS CHEVRON GAC
Pace Project No.: 92573319

QC Batch: 661150
QC Batch Method: EPA 8260D
Analysis Method: EPA 8260D
Analysis Description: 8260 MSV SC
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92573319001

METHOD BLANK: 3464152 Matrix: Water
Associated Lab Samples: 92573319001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	11/19/21 16:39	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	11/19/21 16:39	
Benzene	ug/L	ND	5.0	1.7	11/19/21 16:39	
Diisopropyl ether	ug/L	ND	5.0	3.5	11/19/21 16:39	
Ethanol	ug/L	ND	200	144	11/19/21 16:39	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	11/19/21 16:39	
Ethylbenzene	ug/L	ND	5.0	1.8	11/19/21 16:39	
m&p-Xylene	ug/L	ND	10.0	4.1	11/19/21 16:39	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	11/19/21 16:39	
Naphthalene	ug/L	ND	5.0	2.1	11/19/21 16:39	
o-Xylene	ug/L	ND	5.0	2.0	11/19/21 16:39	
tert-Amyl Alcohol	ug/L	ND	100	65.6	11/19/21 16:39	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	11/19/21 16:39	
tert-Butyl Alcohol	ug/L	ND	100	91.0	11/19/21 16:39	
tert-Butyl Formate	ug/L	ND	50.0	24.1	11/19/21 16:39	
Toluene	ug/L	ND	5.0	2.0	11/19/21 16:39	
Xylene (Total)	ug/L	ND	5.0	5.0	11/19/21 16:39	
1,2-Dichloroethane-d4 (S)	%	87	70-130		11/19/21 16:39	
4-Bromofluorobenzene (S)	%	100	70-130		11/19/21 16:39	
Toluene-d8 (S)	%	108	70-130		11/19/21 16:39	

LABORATORY CONTROL SAMPLE: 3464153

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	52.0	104	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1140	114	70-130	
Benzene	ug/L	50	51.3	103	70-130	
Diisopropyl ether	ug/L	50	52.9	106	70-130	
Ethanol	ug/L	2000	2020	101	70-130	
Ethyl-tert-butyl ether	ug/L	100	112	112	70-130	
Ethylbenzene	ug/L	50	52.3	105	70-130	
m&p-Xylene	ug/L	100	105	105	70-130	
Methyl-tert-butyl ether	ug/L	50	55.1	110	70-130	
Naphthalene	ug/L	50	57.5	115	70-130	
o-Xylene	ug/L	50	50.5	101	70-130	
tert-Amyl Alcohol	ug/L	1000	1110	111	70-130	
tert-Amylmethyl ether	ug/L	100	107	107	70-130	
tert-Butyl Alcohol	ug/L	500	539	108	70-130	
tert-Butyl Formate	ug/L	400	399	100	70-130	

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QUALITY CONTROL DATA

Project: CLOUDS CHEVRON GAC
Pace Project No.: 92573319

LABORATORY CONTROL SAMPLE: 3464153

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	50	49.0	98	70-130	
Xylene (Total)	ug/L	150	155	103	70-130	
1,2-Dichloroethane-d4 (S)	%			126	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3464154 3464155

Parameter	Units	92572987018 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	ND	20	20	19.0	18.6	95	93	70-137	2	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	426	386	106	97	39-157	10	30	
Benzene	ug/L	ND	20	20	18.7	18.3	94	92	70-151	2	30	
Diisopropyl ether	ug/L	ND	20	20	17.4	15.9	87	79	63-144	9	30	
Ethanol	ug/L	ND	800	800	838	784	105	98	39-176	7	30	
Ethyl-tert-butyl ether	ug/L	ND	40	40	35.5	33.5	89	84	66-137	6	30	
Ethylbenzene	ug/L	ND	20	20	17.5	16.4	87	82	66-153	6	30	
m&p-Xylene	ug/L	ND	40	40	33.6	30.7	84	77	69-152	9	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	16.7	17.2	84	86	54-156	3	30	
Naphthalene	ug/L	ND	20	20	12.7	10.4	63	52	61-148	20	30	M1
o-Xylene	ug/L	ND	20	20	16.3	15.1	82	76	70-148	8	30	
tert-Amyl Alcohol	ug/L	ND	400	400	372	347	93	87	54-153	7	30	
tert-Amylmethyl ether	ug/L	ND	40	40	37.2	35.4	93	88	69-139	5	30	
tert-Butyl Alcohol	ug/L	ND	200	200	247	247	123	123	43-188	0	30	
tert-Butyl Formate	ug/L	ND	160	160	33.9J	33.3J	21	21	10-170		30	
Toluene	ug/L	ND	20	20	17.9	17.4	90	87	59-148	3	30	
Xylene (Total)	ug/L	ND	60	60	49.9	45.8	83	76	63-158	9	30	
1,2-Dichloroethane-d4 (S)	%						102	100	70-130			
4-Bromofluorobenzene (S)	%						103	101	70-130			
Toluene-d8 (S)	%						103	102	70-130			

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Huntersville, NC 28078
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QUALITY CONTROL DATA

Project: CLOUDS CHEVRON GAC
Pace Project No.: 92573319

QC Batch: 661774
QC Batch Method: EPA 8011
Analysis Method: EPA 8011
Analysis Description: GCS 8011 EDB DBCP
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92573319001

METHOD BLANK: 3467235 Matrix: Water
Associated Lab Samples: 92573319001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.0070	11/23/21 19:54	
1-Chloro-2-bromopropane (S)	%	98	60-140		11/23/21 19:54	

LABORATORY CONTROL SAMPLE & LCSD: 3467236 3467237

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.25	0.27	0.26	107	103	60-140	4	20	
1-Chloro-2-bromopropane (S)	%				108	105	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3467239 3467240

Parameter	Units	92573241017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	0.25	0.25	0.29	0.30	117	118	60-140	0	20	
1-Chloro-2-bromopropane (S)	%						112	109	60-140			

SAMPLE DUPLICATE: 3467238

Parameter	Units	92573241016 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	108	106			

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALIFIERS

Project: CLOUDS CHEVRON GAC
Pace Project No.: 92573319

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CLOUDS CHEVRON GAC
Pace Project No.: 92573319

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92573319001	**GAC**	EPA 8011	661774	EPA 8011	661936
92573319001	**GAC**	EPA 8260D	661150		

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Pace Analytical®

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY: WO# : 92573319

92573319

Company: SC DHEC

Address: 2600 Bull Street

Report To: R. Dunn

Copy To:

Customer Project Name/Number: Clouds Chevron

Phone:

Email:

Collected By (print): Chris Hanson

Collected By (signature):

Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold: _____

Billing Information:

Email To: DUNNRA@dhec.

Site Collection Info/Address: Taylor Street

State: SC / County/City: Columbia

Time Zone Collected: [ ] PT [ ] MT [ ] CT [X] ET

Site/Facility ID #: UST # 07771 CA # 63212

Purchase Order #:

Quote #:

Turnaround Date Required:

Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)

Compliance Monitoring? [ ] Yes [ ] No

DW PWS ID #:

DW Location Code:

Immediately Packed on Ice: [X] Yes [ ] No

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis: _____

Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Container Preservative Type **: 3 | 3

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Analyses

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	BTEX NM 1,2 DCA OVS 8260D	EDB 8011	Lab Profile/Line:
GAC	GW	G	11/15/21	14:35				6	X	X	GAC 001
TB-1	GW	G	↓	8:00				2	X		TB1
TB-2	GW	G	↓	8:00				2	X		TB2

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y	N	NA
Custody Signatures Present	Y	N	NA
Collector Signature Present	Y	N	NA
Bottles Intact	Y	N	NA
Correct Bottles	Y	N	NA
Sufficient Volume	Y	N	NA
Samples Received on Ice	Y	N	NA
VOA - Headspace Acceptable	Y	N	NA
USDA Regulated Soils	Y	N	NA
Samples in Holding Time	Y	N	NA
Residual Chlorine Present	Y	N	NA
Cl Strips:			
Sample pH Acceptable	Y	N	NA
pH Strips:			
Sulfide Present	Y	N	NA
Lead Acetate Strips:			

LAB USE ONLY:

Lab Sample # / Comments: 92573319

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used: bubble bags

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2546708

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:

Temp Blank Received: Y N NA

Therm ID#: 927064

Cooler 1 Temp Upon Receipt: 4.8 oC

Cooler 1 Therm Corr. Factor: .0 oC

Cooler 1 Corrected Temp: 4.8 oC

Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
[signature] / [illegible]	11/17	Josh Mallas/Pace	11/17/21 1105
Josh Mallas/Pace	11/17/21 1821	[signature] PACE HOU	11/18/21 8:00

MTJL LAB USE ONLY

Table #:

Acctnum:

Template:

Prelogin:

PM:

PB:

Trip Blank Received: Y N NA

HCL MeOH TSP Other

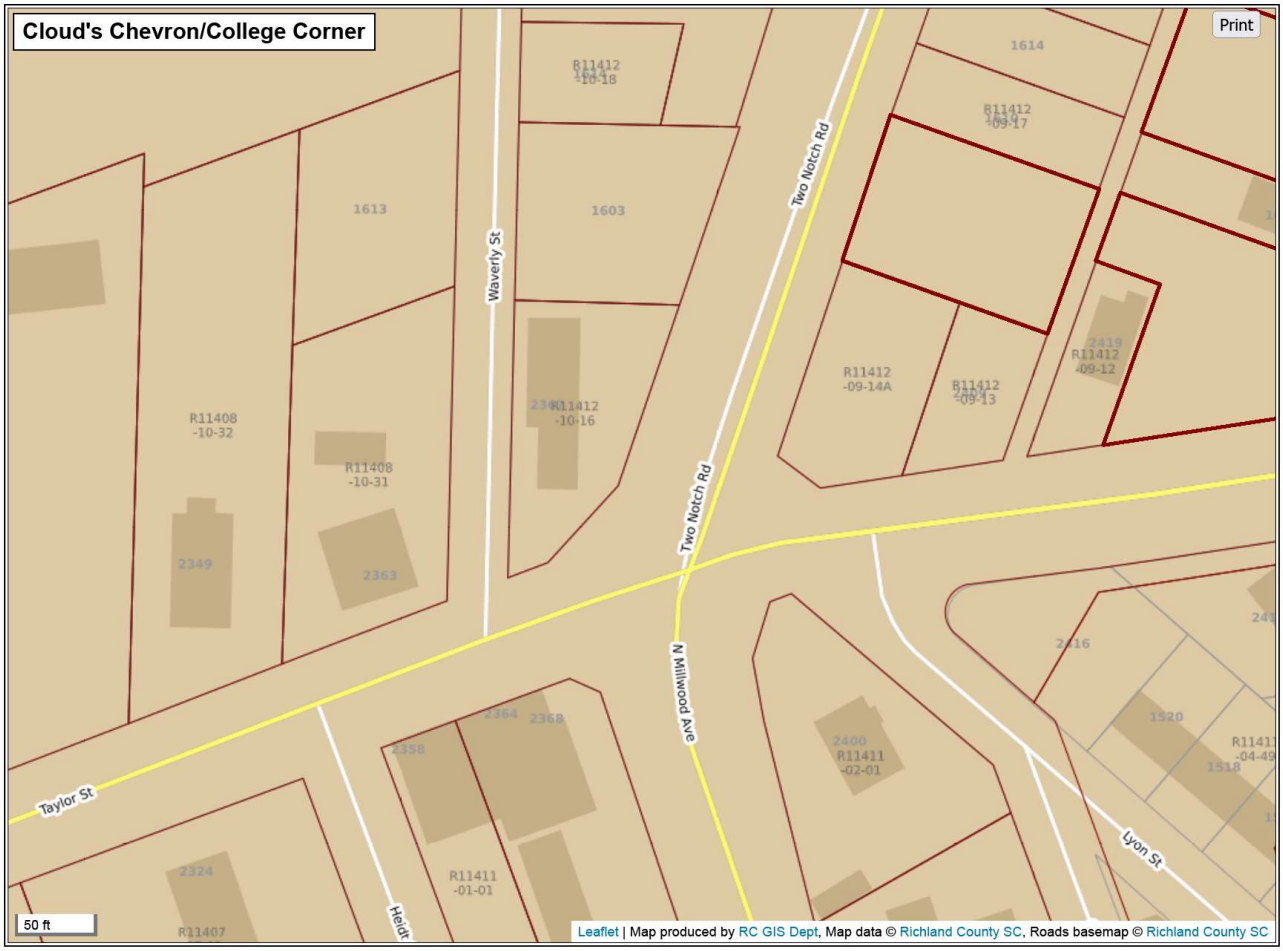
Non Conformance(s): YES / NO

Page: _____ of: _____

MS 11/18/21

APPENDIX B:

TAX MAP


Cloud's Chevron/College Corner
Print
1614
R11412
-09-17
R11412
-10-18
1613
1603
Waverly St
Two Notch Rd
R11412
-09-14A
R11412
-09-13
2419
R11412
-09-12
R11408
-10-32
R11408
-10-31
R11412
-10-16
2349
2363
Two Notch Rd
N Millwood Ave
2416
2364
2368
2358
2400
R11411
-02-01
1520
1518
Taylor St
Lyon St
2324
R11411
-01-01
R11407
Heidt
50 ft
Leaflet | Map produced by RC GIS Dept, Map data © Richland County SC, Roads basemap © Richland County SC

APPENDIX C:

DISPOSAL MANIFEST

Midlands Environmental Consultants, Inc.

November 29, 2021

Re: Treatment of Purge Water
Cloud's Chevron/College Corner
Columbia, South Carolina
SCDHEC Site ID Number 07777, 12352, 07584
MECI Project Number 21-7651

To Whom It May Concern;

Midlands Environmental Consultants, Inc. is providing the following letter as certification that treatment of the referenced purge water complied with the conditions of "Proposed Conditions for Use of Portable Activated Carbon Units for the Treatment of Small Volumes of Petroleum Hydrocarbon Contaminated Groundwater", as described in the following:

Applicability:

Groundwater treated was obtained as a result development of wells and sampling.

Conditions:

1. The purge/bail water from all wells is mixed before usage of the Activated Carbon Unit.
2. No free-product was detected in any of the purge water drums.
3. Analytical results of from well sampling show average concentrations of petroleum hydrocarbon constituents less than 5000 parts per billion (ppb) Benzene and less than 20,000 ppb total BTEX.
4. The existing carbon pack will be replaced/reactivated every 5,000 gallons.
5. Record of usage is maintained by Contractor.
6. Any and all recommendations and conditions issued by the Manufacturer have been adhered to.
7. Any and all recommendations and conditions (even on a site by site basis) issued by the SCDHEC must be adhered to.

All purge waters were treated on-site using an up-flow treatment drum loaded with 80 pounds of activated carbon. Carbon will be loaded to a maximum of 3 pounds of total organic compounds or 5,000 gallons of development/purge water, whichever occurs first.

Post Office Box 854, Lexington, SC 29071 • 231 Dooley Road, Lexington, SC 29073
Telephone: (803) 808-2043 • Fax: (803) 808-2048

A total of 243.50 gallons were treated on November 15, 2021 at the referenced site.

Midlands Environmental also tracks cumulative organic compounds adsorbed on the activated carbon to ensure the capacity of carbon mass is not over-charged. This data is available upon request.

Should you have any questions or comments, please contact the undersigned.

Sincerely,
Midlands Environmental Consultants, Inc.

Jeff L. Coleman
Senior Scientist

APPENDIX D:

ACCESS AGREEMENTS

D H E C

PROMOTE PROTECT PROSPER

2600 Bull Street
Columbia, SC 29201-1708

PROPERTY OWNER

RIGHT OF ENTRY - UST Permit # 07777 and # 12352

If you are the Property Owner or are the authorized representative for that person, but did not own the former or existing underground storage tanks at the time the release was reported, please complete this form.

I, the undersigned, Sisters of Charity Providence Hospitals is certify that ~~I am~~ the legal owner of the property identified below or serve as the authorized representative for the property owner. I authorize the South Carolina Department of Health and Environmental Control (SCDHEC), or a contractor selected by SCDHEC, to enter this property at reasonable times only to conduct assessment and corrective action activities, as required. The contractor will be designated as the contractor for the UST owner or operator for only the required environmental site rehabilitation activities. Compensation to the contractor will be from the SUPERB Account and I will have no obligation to pay the contractor. I understand that SCDHEC will notify me of all activities that are necessary prior to their initiation and will promptly provide to me a summary of the data upon request.
("I" as used herein is synonymous with "Owner".)

Name of Facility Providence Hospital Phone: (803) 256-5313

Street Address of Facility 2435 Forest Drive, Columbia, SC 29204

Town, City, District, Suburb City of Columbia - 1CC Tax District

Name of nearest intersecting street, road, highway, alley Two Notch Road, Forest Drive

Is this facility within the city limits? (yes or no) Yes

Is this facility serviced by a public water or sewer utility? (yes or no) Yes, if no, please provide the name of a person we can contact that can assist in the location of private water and septic tank lines
Name City of Columbia, phone number water - (803) 545-3900
sewer - (803) 545-3910

Were underground storage tanks previously removed from the ground at this facility? (yes or no) Yes If yes, please provide the name of a person we can contact that can assist in the location of the former underground storage tank excavation See below, Phone number

Is the property currently leased or rented to someone? (yes or no) No, if yes, please provide their name — and phone number — and let them know about the pending assessment activities. If vehicles or other mobile structures are parked over the former or existing underground storage tanks, they should be moved before SCDHEC's contractor gets to the site.

NAME of property owner (Please Print): Sisters of Charity Providence Hospitals

Phone Number (home) (work) (803) 256-5313

Current Mailing Address 2435 Forest Drive, Columbia, SC 29204

Signature of Property Owner: Sisters of Charity Providence Hospitals
By: Stephen A. Purves
Stephen A. Purves - President & CEO

Witness: Lauren O. Lee

Date: April Month 15th Day 2003 Year

These USTs were previously reported to SCDHEC and there are monitoring wells on the site. Please refer to SCDHEC files on UST permits # 07777 and # 12352. See also portion of plat attached.

CONSULTECH ENVIRONMENTAL, INC.

Consulting Engineers, Geologists & Scientists

FAXED 678 377-0051

PERMISSION TO ENTER PROPERTY

I, William L. Boyd III, hereby certify that I am the owner of record or otherwise have the legal right to grant entry and access to the property for the purpose described below ("Owner") and do hereby grant SCDHEC, its consulting firm, Consultech Environmental, Inc. (Consultech) and its agents, employees and subcontractors, and assigns the right to enter upon the property located Richland County Tax Parcel Number R11411-02-02, for the purpose of performing an environmental assessment, as requested by SCDHEC which will include the following scope of work:

RECEIVED
MAR 02 2005
UNDERGROUND STORAGE TANK PROGRAM

- Drilling of soil test boring(s);
- Installation of groundwater monitoring well(s);
- Measuring depth to groundwater, about once every three months;
- Collection of groundwater samples, about once every three months; or
- Maintenance of the monitoring well(s).

Access to the monitoring well will be needed for a time period not likely to exceed three to five years after well installation has been completed. The property owner will be notified at least 48 hours in advance of any planned activities on the property. At any time the property owner may contact Consultech if there are any questions or concerns about work performed on the property.

The Permission to Enter Property is effective upon execution of this document.

This Permission to Enter Property is granted with consideration of Consultech making reasonable restoration to the property resulting from Consultech's activities on the property.

Jessica Guthrie
Company Representative

1-17-05
Date

Consultech Environmental, Inc.
Telephone Number (678) 377-0400
Fax Number (678) 377-0051

Agreed and Consented to giving access:

Property Owner's Signature

W.L. Boyd III
Printed Name

UST PROGRAM DOCKETING # 149 Tech

Access Denied:

Property Owner's Signature

1800 MacLeod Drive, Suite F, Lawrenceville, GA 30043-5736
(678) 377-0400 • FAX: (678) 377-0051

APPENDIX E:

DATA VERIFICATION CHECKLIST

Contractor Checklist

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

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

APPENDIX F:

PHOTOS


SW-1





















Healthy People. Healthy Communities.

CERTIFIED MAIL 9214 8969 0099 9790 1422 2961 53

CHARLES CRAWFORD
CRAWFORD ENVIRONMENTAL SERVICES
1701 SHENANDOAH AVE NW
ROANOKE VA 24017

SEP 28 2022

Re: **Notification for Breach of Contract**
UST Permit# 07584, College Corner, 2367 Taylor St., Columbia, SC
Release #1 reported January 30, 1991; CA# 47811
Release #2 reported April 17, 1998; CA# 47812
UST Permit# 07777, Clouds Chevron, 1600 Two Notch Rd., Columbia, SC
Release reported December 31, 1991; CA# 47813
UST Permit# 12352, Clouds Chevron, 1600 Two Notch Rd., Columbia, SC
Release reported December 30, 1991; CA#47814
Contract #IFB-5400007095-1/30/2014-EMW; PO #4600322226
Richland County

Dear Mr. Crawford:

The South Carolina Department of Health and Environmental Control (SCDHEC) has reviewed the technical files and active corrective action contract for the above-referenced releases. Under the terms of the awarded contract, one Notice of Failure to Perform (enclosed) has been issued to Crawford Environmental Services, Inc., and a Corrective Action System Evaluation (CASE) report is past due.

The Failure to Perform letter was sent to Crawford Environmental Services, Inc. on October 2, 2018, and you met with members of DHEC management on October 15, 2018. The last CASE report was submitted in September2019. Since then, no further work has been performed for any of the above-referenced releases.

In accordance with section III.3.4 A 4 of the solicitation for these releases: "If the Contractor does not correct the deficiency (ies) in a satisfactory manner as specified by the Agency within the agree to period of time, the Contractor will be in breach of contract and the contract award may be voided by the Agency." SCDHEC provides this notice that the awarded contract referenced above has been declared void for cause. Please discontinue any further activity in furtherance of performance at any of the above-referenced sites. No further payment of invoices under the contract will be made. Crawford Environmental Services, Inc., as the Contractor, will be suspended from bidding on any UST-related solicitations in South Carolina for one year. SCDHEC will rebid the above-referenced sites for further corrective action.

SCDHEC may consider any contractual remedies available to it, including seeking liquidated damages in accordance with section III. 3.4 A 6: "In the event that the contract award is voided for cause as outlined in Solicitation Item III 3.4 A 4, the Contractor will be required to pay liquidated damages equal to the costs that are incurred by the Agency over and above the Corrective Action Cost in order to complete the corrective action as specified in this contract." Crawford Environmental Services, Inc. may be notified by certified mail of the amount of liquidated damages within fifteen (15) business days following opening of the re-bid and sixty days (60) from the date of notification to make payment of the amount.

On all correspondence regarding these sites, please include a reference to "UST Permit #07584, 07777, and 12352.". Please submit any questions regarding this correspondence to me at winsloem@dhec.sc.gov.

Sincerely,

E. Madison Winslow
Procurement Manager
Division of Procurement Services
Bureau of Business Management

Enc: Notice of Failure to Perform #1 dated October 2, 2018

cc: Crawford Environmental Services, Inc. Contractor File
Adam Looper, UST Management Division
Technical Files 07584, 07777, 12352

dhec
Healthy People. Healthy Communities.

OCT 9 2 2018

UST DOCKETING

CERTIFIED MAIL
9214 8969 0099 9790 1412 9293 13

MR CHARLES F CRAWFORD III
CRAWFORD ENVIRONMENTAL SERVICES
1701 SHENANDOAH AVENUE NW
ROANOKE VA 24017-5550

Re: Notice of Failure to Perform #1 Complaint
Invitation for Bid IFB-5400007095-1/30/2014-EMW;
Purchase Order #4600322226
UST Permit #07584 265 tech
College Corner, 2367 Taylor Street, Columbia, SC
Release #1 reported January 30, 1991
Release #2 reported April 17, 1998
UST Permit #07777 199 tech
Clouds Chevron, 1600 Two Notch Road, Columbia, SC
Release reported December 31, 1991
UST Permit #12352 134 tech
Clouds Chevron, 1600 Two Notch Road, Columbia, SC
Release reported December 30, 1991
CASE report review sent April 6, 2018
Richland County

Dear Mr. Crawford:

In accordance with bid specification item III.3.4.A.4, the Underground Storage Tank (UST) Management Division is providing you with notification of your failure to perform, as you have failed to meet contract specification item III.3.5.B.8 that requires reports to be submitted on a semi-annual basis. The UST Division sent you the attached CASE report review letter which notified you that the next Corrective Action System Evaluation (CASE) report was to be submitted by **June 15, 2018** in accordance with the semi-annual CASE reporting schedule. To date, the Division has not received the required report nor has any notification been provided to the Division that problems existed in meeting the due date.

In accordance with bid specification item III.3.4.A.4, the UST Division requests that you be available for a meeting on October 15, 2018 at 2:00 PM to discuss a remedy for this deficiency, or that you submit the CASE report **within 15 days from the date of this letter**. Additionally, future CASE report due dates should not be affected. CASE reports are due on June 15 and December 15 of each year.

On all correspondence regarding this site, please reference UST Permit numbers #07584, #07777 and #12352. If you have questions concerning this correspondence, feel free to contact me by phone at (803) 898-2622, or by email at mooresct@dhec.sc.gov.

Sincerely,

Carolyn T Moores

Carolyn Moores, Hydrogeologist
Corrective Action & Quality Assurance Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

Enc: CASE Report Review

Cc: Matt Winslow, Bureau of Business Management
Technical File
Contractor Certification File

dhec
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MR CHARLES F CRAWFORD III
CRAWFORD ENVIRONMENTAL SERVICES
15 CHURCH AVENUE SW
ROANOKE VA 24011

APR 06 2018

UST 264 Tech DOCKETING

Re: **Corrective Action System Evaluation (CASE) Report Review**
UST Permit# 07584, College Corner, 2367 Taylor St., Columbia, SC
Release #1 reported January 30, 1991; CA# 47811
Release #2 reported April 17, 1998; CA# 47812
UST Permit # 07777, Clouds Chevron, 1600 Two Notch Rd., Columbia, SC
Release reported December 31, 1991; CA# 47813
UST Permit # 12352, Clouds Chevron, 1600 Two Notch Rd., Columbia, SC
Release reported December 30, 1991; CA# 47814
Contract #IFB-5400007095-1/30/2014-EMW; PO# 4600322226
CASE report received February 28, 2018
Richland County

Dear Mr. Crawford:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed the CASE report documenting the corrective action activities and the January 2018 groundwater sampling event. The CASE report has documented 36.15% Chemical of Concern (CoC) reduction.

The semi-annual CASE 8 report is due on or before **June 15, 2018.**

On all correspondence regarding this site, please reference UST Permit #07584, #07777, & #12352. If you have any questions regarding this correspondence, please contact me by telephone at (803) 898-0634, by fax at (803) 898-0673, or by e-mail at kuhnkm@dhec.sc.gov.

Sincerely,

Kimberly M. Kuhn, Hydrogeologist
Corrective Action & Quality Assurance Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

cc: Sylvan Food Systems, Inc., 1245 Boston Ave, West Columbia, SC 29170
Gilbert Walker, Public Housing Authority, Gonzales Gardens, P.O. Box 4307, Columbia, SC 29240
1500 Millwood Ave, LLC, 1330 Devonshire Drive, Columbia, SC 29204
John M. Suddeth, 1410 N Millwood Ave, Columbia, SC 29204
Fung Lau, 2300 Taylor St, Suite D, Columbia, SC 29204
Technical File

dhec
Healthy People. Healthy Communities.



OCT 14 2022

TAYLOR CANNON
PACE ANALYTICAL SERVICES
9800 KINCEY AVE STE 100
HUNTERSVILLE NC 28078

Re: Laboratory Analyses Approval
Analytical Laboratory Services Bid #IFB-5400019457-04/13/2020-EMW; PO# 4600907254
Cloud's Chevron, 1600 Two Notch Road, Columbia, SC
UST Permit #12352; CA #66284
Richland County

Dear Mr. Cannon:

Under the terms and conditions of the referenced bid package, analytical sampling has been approved for the referenced facility. Please reference the CA number and Purchase Order number on the appropriate invoice submitted for payment against the facility.

If you have any questions or need further assistance, please contact Arthur Brown by email brownaj@dhec.sc.gov or phone (803) 898-0500.

Sincerely,

Matt Wykel, Hydrogeologist
Corrective Action& Quality Assurance Section
UST Management Division
Bureau of Land & Waste Management

Enc: Approved Cost Agreement

Cc: Arthur Brown, UST Management Division, Corrective Action & Field Support Section
Technical File (w/ Enc)

Approved Cost Agreement 66284

Facility: 12352 CLOUDS CHEVRON
WYKELJM
PO Number: 907254-56

Task / Description	Categories	Item	Description	Qty / Pct	Unit Price	Amount
R MISCELLANEOUS						
			R. FULL LIST 8260D	4.0000	$44.350	177.40

Total Amount 177.40

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Tracking Number:

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Your item was delivered to an individual at the address at 12:28 pm on September 30, 2022 in ROANOKE, VA 24017.

Delivered

Delivered, Left with Individual

ROANOKE, VA 24017
September 30, 2022, 12:28 pm

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MEMORANDUM

Date: November 9, 2022

To: E. Madison Winslow, Procurement Manager
Bureau of Business Management

From: Stephanie Briney, Manager SMB
Corrective Action & Field Support Section
Underground Storage Tank Management Division

Subject: Contract Cancellation for Cause
UST Permit# 07584, College Corner, 2367 Taylor St., Columbia, SC
Release #1 reported January 30, 1991; CA# 47811
Release #2 reported April 17, 1998; CA# 47812
UST Permit# 07777, Clouds Chevron, 1600 Two Notch Rd., Columbia, SC
Release reported December 31, 1991; CA# 47813
UST Permit# 12352, Clouds Chevron, 1600 Two Notch Rd., Columbia, SC
Release reported December 30, 1991; CA#47814
Contract #IFB-5400007095-1/30/2014-EMW; PO #4600322226

The Underground Storage Tank Management Division requests that the Bureau of Business Management cancel Contract # IFB-5400007095-1/30/2014-EMW (Contract) for cause:

- Crawford Environmental Services (CES) did not complete the corrective action activities outlined in the Corrective Action Plan Addendum submitted by CES on March 14, 2019.
- One Failure to Perform (FTP) letter was issued. Following the submittal of the last Corrective Action System Evaluation (CASE) Report received on August 30, 2019, CES failed to resume work.
- A notification for Breach of Contract letter was sent September 28, 2022, and no response was received from CES.

Please cancel the Contract for cause so that DHEC may initiate efforts to re-bid the necessary work for this high-risk site. Please allow me to provide more information if more is required to cancel the Contract for cause.

enc: Notification for Breach of Contract letter dated September 28, 2022

cc: Karen Ratigan, Office of General Counsel (w/enc)
Adam Looper, UST Management Division (w/out enc)
Technical file (w/enc)

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CERTIFIED MAIL 9214 8969 0099 9790 1422 2961 53

CHARLES CRAWFORD
CRAWFORD ENVIRONMENTAL SERVICES
1701 SHENANDOAH AVE NW
ROANOKE VA 24017

Re: **Notification for Breach of Contract**
UST Permit# 07584, College Corner, 2367 Taylor St., Columbia, SC
Release #1 reported January 30, 1991; CA# 47811
Release #2 reported April 17, 1998; CA# 47812
UST Permit# 07777, Clouds Chevron, 1600 Two Notch Rd., Columbia, SC
Release reported December 31, 1991; CA# 47813
UST Permit# 12352, Clouds Chevron, 1600 Two Notch Rd., Columbia, SC
Release reported December 30, 1991; CA#47814
Contract #IFB-5400007095-1/30/2014-EMW; PO #4600322226
Richland County

Dear Mr. Crawford:

The South Carolina Department of Health and Environmental Control (SCDHEC) has reviewed the technical files and active corrective action contract for the above-referenced releases. Under the terms of the awarded contract, one Notice of Failure to Perform (enclosed) has been issued to Crawford Environmental Services, Inc., and a Corrective Action System Evaluation (CASE) report is past due.

The Failure to Perform letter was sent to Crawford Environmental Services, Inc. on October 2, 2018, and you met with members of DHEC management on October 15, 2018. The last CASE report was submitted in September2019. Since then, no further work has been performed for any of the above-referenced releases.

In accordance with section III.3.4 A 4 of the solicitation for these releases: "If the Contractor does not correct the deficiency (ies) in a satisfactory manner as specified by the Agency within the agree to period of time, the Contractor will be in breach of contract and the contract award may be voided by the Agency." SCDHEC provides this notice that the awarded contract referenced above has been declared void for cause. Please discontinue any further activity in furtherance of performance at any of the above-referenced sites. No further payment of invoices under the contract will be made. Crawford Environmental Services, Inc., as the Contractor, will be suspended from bidding on any UST-related solicitations in South Carolina for one year. SCDHEC will rebid the above-referenced sites for further corrective action.

SCDHEC may consider any contractual remedies available to it, including seeking liquidated damages in accordance with section III. 3.4 A 6: "In the event that the contract award is voided for cause as outlined in Solicitation Item III 3.4 A 4, the Contractor will be required to pay liquidated damages equal to the costs that are incurred by the Agency over and above the Corrective Action Cost in order to complete the corrective action as specified in this contract." Crawford Environmental Services, Inc. may be notified by certified mail of the amount of liquidated damages within fifteen (15) business days following opening of the re-bid and sixty days (60) from the date of notification to make payment of the amount.

On all correspondence regarding these sites, please include a reference to "UST Permit #07584, 07777, and 12352.". Please submit any questions regarding this correspondence to me at winsloem@dhec.sc.gov.

Sincerely,

E. Madison Winslow
Procurement Manager
Division of Procurement Services
Bureau of Business Management

Enc: Notice of Failure to Perform #1 dated October 2, 2018

cc: Crawford Environmental Services, Inc. Contractor File
Adam Looper, UST Management Division
Technical Files 07584, 07777, 12352

dhec
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OCT 0 2 2018

UST DOCKETING

CERTIFIED MAIL
9214 8969 0099 9790 1412 9293 13

MR CHARLES F CRAWFORD III
CRAWFORD ENVIRONMENTAL SERVICES
1701 SHENANDOAH AVENUE NW
ROANOKE VA 24017-5550

Re: Notice of Failure to Perform #1 Complaint
Invitation for Bid IFB-5400007095-1/30/2014-EMW;
Purchase Order #4600322226
UST Permit #07584 265 tech
College Corner, 2367 Taylor Street, Columbia, SC
Release #1 reported January 30, 1991
Release #2 reported April 17, 1998
UST Permit #07777 199 tech
Clouds Chevron, 1600 Two Notch Road, Columbia, SC
Release reported December 31, 1991
UST Permit #12352 134 tech
Clouds Chevron, 1600 Two Notch Road, Columbia, SC
Release reported December 30, 1991
CASE report review sent April 6, 2018
Richland County

Dear Mr. Crawford:

In accordance with bid specification item III.3.4.A.4, the Underground Storage Tank (UST) Management Division is providing you with notification of your failure to perform, as you have failed to meet contract specification item III.3.5.B.8 that requires reports to be submitted on a semi-annual basis. The UST Division sent you the attached CASE report review letter which notified you that the next Corrective Action System Evaluation (CASE) report was to be submitted by **June 15, 2018** in accordance with the semi-annual CASE reporting schedule. To date, the Division has not received the required report nor has any notification been provided to the Division that problems existed in meeting the due date.

In accordance with bid specification item III.3.4.A.4, the UST Division requests that you be available for a meeting on October 15, 2018 at 2:00 PM to discuss a remedy for this deficiency, or that you submit the CASE report **within 15 days from the date of this letter.** Additionally, future CASE report due dates should not be affected. CASE reports are due on June 15 and December 15 of each year.

On all correspondence regarding this site, please reference UST Permit numbers #07584, #07777 and #12352. If you have questions concerning this correspondence, feel free to contact me by phone at (803) 898-2622, or by email at mooresct@dhec.sc.gov.

Sincerely,

Carolyn T Moores

Carolyn Moores, Hydrogeologist
Corrective Action & Quality Assurance Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

Enc: CASE Report Review

Cc: Matt Winslow, Bureau of Business Management
Technical File
Contractor Certification File

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MR CHARLES F CRAWFORD III
CRAWFORD ENVIRONMENTAL SERVICES
15 CHURCH AVENUE SW
ROANOKE VA 24011

APR 0 6 2018

UST 264 Tech DOCKETING

Re: **Corrective Action System Evaluation (CASE) Report Review**
UST Permit# 07584, College Corner, 2367 Taylor St., Columbia, SC
Release #1 reported January 30, 1991; CA# 47811
Release #2 reported April 17, 1998; CA# 47812
UST Permit # 07777, Clouds Chevron, 1600 Two Notch Rd., Columbia, SC
Release reported December 31, 1991; CA# 47813
UST Permit # 12352, Clouds Chevron, 1600 Two Notch Rd., Columbia, SC
Release reported December 30, 1991; CA# 47814
Contract #IFB-5400007095-1/30/2014-EMW; PO# 4600322226
CASE report received February 28, 2018
Richland County

Dear Mr. Crawford:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed the CASE report documenting the corrective action activities and the January 2018 groundwater sampling event. The CASE report has documented 36.15% Chemical of Concern (CoC) reduction.

The semi-annual CASE 8 report is due on or before **June 15, 2018.**

On all correspondence regarding this site, please reference UST Permit #07584, #07777, & #12352. If you have any questions regarding this correspondence, please contact me by telephone at (803) 898-0634, by fax at (803) 898-0673, or by e-mail at kuhnkm@dhec.sc.gov.

Sincerely,

Kimberly M. Kuhn, Hydrogeologist
Corrective Action & Quality Assurance Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

cc: Sylvan Food Systems, Inc., 1245 Boston Ave, West Columbia, SC 29170
Gilbert Walker, Public Housing Authority, Gonzales Gardens, P.O. Box 4307, Columbia, SC 29240
1500 Millwood Ave, LLC, 1330 Devonshire Drive, Columbia, SC 29204
John M. Suddeth, 1410 N Millwood Ave, Columbia, SC 29204
Fung Lau, 2300 Taylor St, Suite D, Columbia, SC 29204
Technical File

	State of South Carolina **Change Order #1**	PO Number Procurement Officer Phone E-Mail Address Address	4600322226 E. Madison Winslow (803) 898-3487 winsloem@dhec.sc.gov 2600 Bull Street Columbia, S. C. 29201

DESCRIPTION: Corrective action at UST Sites 07584, 07777, and 12352, Columbia, South Carolina

USING GOVERNMENTAL UNIT: South Carolina Department of Health and Environmental Control
Division of Procurement Services

CONTRACTOR'S NAME AND ADDRESS: Crawford Environmental Services, Inc.
15 Church Avenue, SW
Roanoke, VA 24011

TYPE OF CHANGE:

☐ Change to Contract Scope of Work

☐ Change to Contract Pricing Pursuant to Existing Contract Clause.
Clause Name _____. Clause No. _____

☐ Administrative Change to Contract (such as changes in paying office, name of Agency Contract Administrator, etc.)

X Cancellation

☐ Other change

IMPORTANT NOTICE:

X Change Order: Contractor is required to sign this document and return 1 copy to the procurement officer named above by the following date: **November 21, 2022.**

☐ Contract Modification: Contractor is required to acknowledge receipt of this document in writing by the following date: _____. Contractor does not indicate agreement with change simply by acknowledging receipt.

DESCRIPTION OF CHANGE / MODIFICATION:

Cancellation: This is an official cancellation of the above-referenced purchase order as of November 14, 2022, in accordance with section III., No. 3.4.A.4., of solicitation 5400007095. No further payment of invoices under the contract will be made.

Except as provided herein, all terms and conditions of the Contract referenced above remain unchanged and in full force and effect.

SIGNATURE OF PERSON AUTHORIZED TO EXECUTE THIS CHANGE ORDER ON BEHALF OF CONTRACTOR:	SIGNATURE OF PERSON AUTHORIZED TO EXECUTE / ISSUE THIS CHANGE ORDER / CONTRACT MODIFICATION ON BEHALF OF USING GOVERNMENTAL ENTITY:
By: Daniel Fisher (authorized signature)	By: E. Madison Winslow (authorized signature)
Daniel Fisher (printed name of person signing above)	E. Madison Winslow (printed name of person signing above)
Its: Operations Manager (title of person signing above)	Its: Procurement Manager (title of person signing above)
Date: 11/30/22	Date: 11/14/22

CHANGE ORDER (AUG 2004)

RECEIVED
NOV 30 2022
UST DIVISION

dhec
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NOV 06 2023

UST DOCKETING

MICHAEL FARIS
ARM ENVIRONMENTAL SERVICES INC
1210 1st STREET S EXTENSION
COLUMBIA SC 29209

Re: **Notice to Proceed for Tier II Assessment**
Clouds Chevron, 1600 Two Notch Road, Columbia, SC
UST Permit #12352 and #07777; Cost Agreement #67885 and #67884
College Corner, 2367 Taylor Street, Columbia, SC
UST Permit #07584; Cost Agreement release #1- #67882, Cost Agreement release #2- #67883
Monitoring Well Approval UMW-29613
Solicitation #IFB-5400024540; Purchase Order #4600938573
Site-Specific Work Plan and cost proposal received July 3, 2023
Richland County

Dear Mr. Faris:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed the Site-Specific Work Plan and cost proposal for the referenced site. Assessment activities should begin immediately upon receipt of this letter.

Cost agreement numbers referenced above have been approved in the amount shown on the enclosed cost agreements and will be kept on file so that compensation can begin. **DHEC reserves the authority to pay only for work properly performed and/or technically justified and will only pay rates in accordance with the referenced Invitation for Bid (IFB).** Further, the DHEC reserves the right to question and/or reject costs if deemed unreasonable. The DHEC reserves the right to audit project records at any time during the project or after completion of the work. **The Tier II Assessment Report (1 hard copy, 1 electronic copy, 1 copy to each property owner who has a well on their property), QAPP checklist (Appendix K), and invoice should be submitted within 90 days from the date of this correspondence.**

ARM Environmental Services, Inc. can submit an invoice for direct billing from the State Underground Petroleum Environmental Response Bank (SUPERB) Account. Future invoices and/or other criteria included therein must comply with current SUPERB criteria per Section 44-2-20(2). Please reference the approved cost agreement number on all pertinent invoices and correspondence.

Please note that Sections 44-2-110(4) and 44-2-130(B) of the SUPERB Statute state that no costs will be allowed (considered for payment) unless prior approval from DHEC is obtained. If for any reason there is a change in this cost agreement, any associated changes must be pre-approved in writing by DHEC in order for ARM Environmental Services, Inc., to seek future cost compensation. Any temporary well converted to a permanent well will be reimbursed at the permanent well installation rate.

In accordance with section B of the current version of Quality Assurance Program Plan for the UST Management Division (QAPP), if the time interval between collection of groundwater samples from the permanent monitoring well network and receipt of the report and exceeds 60 days, the contractor will submit an updated comprehensive groundwater sampling report to include blank and duplicate samples for all wells and surface water at no additional cost. DHEC reserves the right to deny payment for laboratory analyses if the detection limit exceeds the reporting limit in Appendix F of the QAPP for the UST Division. As agreed to in the referenced contract, the owner/operator and property owner of the referenced facility will not be responsible for any costs associated with this assessment.

Monitoring well approval for up to 32 Temporary monitoring wells and 25 soil cores is enclosed for your records. Please note that all applicable South Carolina certification requirements regarding laboratory analyses, well installation, and report preparation must be met.

DHEC grants pre-approval for transportation of virgin petroleum impacted soil and groundwater from the referenced site to a permitted treatment facility. The Division suggests a roll off container be used for disposal. 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 thirty (30) days. A legible 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, are below Risk-Based Screening Levels (RBSLs), please contact the project manager for approval to dispose of soil and/or groundwater in a location acceptable to the property owner. 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 numbers and Cost Agreement Numbers referenced above. If you have questions concerning this correspondence, or would like to submit additional information, please contact me at (803) 898-7705, fax me at (803) 898-0673, or e-mail me at wykeljm@dhec.sc.gov.

Sincerely,



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

enc: Approved Cost Agreements
Monitoring Well Approval

cc: Caitlin Reilly, UST Management Division (w/ enc.)

Technical File (w/ enc.)

dhec
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Monitoring Well Approval

Approval is granted to: ARM, Inc.
On behalf of: Scott M Wallce, Jack and Alexander Lee, and ACME Petroleum Company
Facility #1: College Corner, 2367 Taylor Street, Columbia, SC
Facility #2: Clouds Chevron, 1600 Two Notch Road, Columbia, SC
UST Permit: #07584, #12352, and #07777
County: Richland

This approval is for the installation of 32 temporary monitoring wells and 25 soil cores The monitoring wells are to be installed in the approved locations. Monitoring wells are to be installed following the South Carolina Well Standards, R.61-71, and the applicable guidance documents.

Please note that R.61-71 requires the following:

1. All wells shall be drilled, constructed, and abandoned by a South Carolina certified well driller per R.61-71.D.1.
2. All monitoring wells shall be labeled as required by R.61-71.H.2.c.
3. A Water Well Record Form or other form provided or approved by the UST Division shall be completed and submitted to the UST Division within 30 days after well completion or abandonment unless another schedule has been approved by the UST Division. The form should contain the "as-built" construction details and all other information required by R.61-71.H.1.f
4. All analytical data and water levels obtained from each monitoring well shall be submitted to the UST Division within 30 days of receipt of laboratory results unless another schedule has been approved by the UST Division as required by R.61-71.H.1.d.
5. If any of the information provided to the UST Division changes, notification to Matt Wykel, the project manager (phone: (803) 898-7705 or email: wykeljm@dhec.sc.gov) shall be provided a minimum of twenty-four (24) hours prior to well construction as required by R.61-71.H.1.a.
6. All temporary monitoring wells shall be abandoned within 5 days of borehole completion using appropriate methods as required by R.61-71.H.4.c. All other wells shall be properly developed per R.61-71.H.2.d.
7. UST Division approval is required prior to abandonment of all monitoring wells as required by R.61-71.H.1.a.

This approval is pursuant to the provisions of Section 44-55-40 of the 1976 South Carolina Code of Laws and R.61-71 of the South Carolina Well Standards and Regulations, dated May 27, 2016. A copy of this approval should be on the site during well installation.

Date of Issuance: November 1, 2023 **Approval #: UMW-29613**

Matt Wykel, Hydrogeologist
Corrective Action & Quality Assurance Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

Approved Cost Agreement 67883

Facility: 07584 COLLEGE CORNER
WYKELJM
PO Number: 938573-5

Task / Description	Categories	Item	Description	Qty / Pct	Unit Price	Amount
A PLAN PREPARATION						
		1.1	SITE SPECIFIC WORK PLAN	0.2500	$300.000	75.00
D MOB/DEMOB						
		1.1	EQUIPMENT	0.5000	$1,350.000	675.00
		2.1	PERSONNEL	0.7500	$600.000	450.00
F SOIL BORINGS (DRILLED)						
		1.1	SOIL BORING/FLD SCR. STANDARD	219.5000	$20.000	4,390.00
K ANALYSES						
	SOIL SOIL	23.1	GRAIN SIZE HYDROMETER	3.0000	$154.000	462.00
Q DISPOSAL						
		1	WASTEWATER	50.0000	$0.660	33.00
		3	SOIL TREATMENT DISPOSAL	0.5000	$82.000	41.00
S REPORT PROJECT MANAGEMENT						
		S	REPORT PREP & PROJ. MANAGEMENT	0.1500	$6,388.500	958.28
Y WELL REPAIR						
		1.1	ADDITIONAL COPIES OF REPORT	3.7500	$70.000	262.50
				Total Amount		7,346.78

Approved Cost Agreement 67882

Facility: 07584 COLLEGE CORNER
WYKELJM
PO Number: 938573-6

Task / Description	Categories	Item	Description	Qty / Pct	Unit Price	Amount
A PLAN PREPARATION						
		1.1	SITE SPECIFIC WORK PLAN	0.2500	$300.000	75.00
D MOB/DEMOB						
		1.1	EQUIPMENT	0.5000	$1,350.000	675.00
		2.1	PERSONNEL	0.7500	$600.000	450.00
F SOIL BORINGS (DRILLED)						
		1.1	SOIL BORING/FLD SCR. STANDARD	219.5000	$20.000	4,390.00
K ANALYSES						
	SOIL SOIL	23.1	GRAIN SIZE HYDROMETER	3.0000	$154.000	462.00
Q DISPOSAL						
		1	WASTEWATER	50.0000	$0.660	33.00
		3	SOIL TREATMENT DISPOSAL	0.5000	$82.000	41.00
S REPORT PROJECT MANAGEMENT						
		S	REPORT PREP & PROJ. MANAGEMENT	0.1500	$6,388.500	958.28
Y WELL REPAIR						
		1.1	ADDITIONAL COPIES OF REPORT	3.7500	$70.000	262.50
				Total Amount		7,346.78

Approved Cost Agreement 67885

Facility: 12352 CLOUDS CHEVRON
WYKELJM
PO Number: 938573-7

Task / Description	Categories	Item	Description	Qty / Pct	Unit Price	Amount
A PLAN PREPARATION						
		1.1	SITE SPECIFIC WORK PLAN	0.2500	$300.000	75.00
D MOB/DEMOB						
		1.1	EQUIPMENT	0.5000	$1,350.000	675.00
		2.1	PERSONNEL	0.7500	$600.000	450.00
F SOIL BORINGS (DRILLED)						
		1.1	SOIL BORING/FLD SCR. STANDARD	219.5000	$20.000	4,390.00
K ANALYSES						
	SOIL SOIL	23.1	GRAIN SIZE HYDROMETER	3.0000	$154.000	462.00
Q DISPOSAL						
		1	WASTEWATER	50.0000	$0.660	33.00
		3	SOIL TREATMENT DISPOSAL	0.5000	$82.000	41.00
S REPORT PROJECT MANAGEMENT						
		S	REPORT PREP & PROJ. MANAGEMENT	0.1500	$6,388.500	958.28
Y WELL REPAIR						
		1.1	ADDITIONAL COPIES OF REPORT	3.7500	$70.000	262.50
				Total Amount		7,346.78

Approved Cost Agreement 67884

Facility: 07777 CLOUDS CHEVRON
WYKELJM
PO Number: 938573-8

Task / Description Categories	Item Description	Qty / Pct	Unit Price	Amount
A PLAN PREPARATION				
	1.1 SITE SPECIFIC WORK PLAN	0.2500	$300.000	75.00
D MOB/DEMOB				
	1.1 EQUIPMENT	0.5000	$1,350.000	675.00
	2.1 PERSONNEL	0.7500	$600.000	450.00
F SOIL BORINGS (DRILLED)				
	1.1 SOIL BORING/FLD SCR. STANDARD	219.5000	$20.000	4,390.00
K ANALYSES				
SOIL SOIL	23.1 GRAIN SIZE HYDROMETER	3.0000	$154.000	462.00
Q DISPOSAL				
	1 WASTEWATER	50.0000	$0.660	33.00
	3 SOIL TREATMENT DISPOSAL	0.5000	$82.000	41.00
S REPORT PROJECT MANAGEMENT				
	S REPORT PREP & PROJ. MANAGEMENT	0.1500	$6,388.500	958.28
Y WELL REPAIR				
	1.1 ADDITIONAL COPIES OF REPORT	3.7500	$70.000	262.50
		Total Amount		7,346.78

ARM
ENVIRONMENTAL SERVICES

RECEIVED
FEB 22 2024
UST DIVISION

February 15, 2024

Matt Wykel, Hydrogeologist
Assessment & Non-Permitted Petroleum Section
UST Management Division
Bureau of Land and Waste Management
South Carolina Department of Health and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

12352 155tcd
07770 224 tcd

UST DOCKETING

Re: Limited Tier II Screening Assessment
Clouds Chevron, 1600 Two Notch Road
UST Permit #12352 & #07777; CA #67885 & #67884
College Corner, 2367 Taylor Street
Columbia, Richland County, South Carolina
UST Permit #07584; CA #67882 (Rel. #1) & #67883 (Rel. #2)
PO #4600938573
ARM Project #32-3010.1-23

Dear Mr. Wykel;

ARM Environmental Services, Inc. (ARM) has completed the limited field screening event requested for the Clouds Chevron and College Corner sites located in Columbia, South Carolina. The pertinent information regarding this assessment is presented on the following pages and in the attached Figures, Tables, and Appendices.

During this assessment, multiple screening points consisting of soil borings and temporary monitoring wells (TMWs) were completed to various depths across the southeastern portion of the project area in order to assess the current distribution and concentration of petroleum Chemicals of Concern (CoC). Based on the data collected, it appears that the contaminant plume remains horizontally and vertically undefined. Multiple CoC remain at concentrations greater than their respective Risk-Based Screening Levels (RBSLs) in the screening points. It is apparent that a sandy or sandy silt layer is acting as a preferential pathway for contaminant migration.

If you should have any questions regarding the results of this assessment, or should you need additional information, please do not hesitate to contact our office.

Sincerely,
ARM Environmental Services, Inc.

Paul Myers

Paul Myers
Staff Geologist

Michael Faris, P.G.
Sr. Geologist / Principal

MICHAEL L. FARIS
REGISTERED
No. 2379
SOUTH CAROLINA
PROFESSIONAL GEOLOGIST

It should be noted that the College Corner site is currently operating as a gas station under a different UST Permit (#18389). UST Permit #18389 has had two additional tanks on the property that were abandoned by removal from the ground on 9/10/2003. One of the tanks was 8,000-gallons and the other was 12,000-gallons. Both tanks were used for the storage of gasoline. Two additional USTs, which are currently in use on the property, were put into operation on October 10, 2003. The in-use tanks consist of one 8,000-gallon gasoline UST and one 12,000-gallon gasoline UST. No releases have been reported from the active UST system on the College Corner site associated with UST Permit #18389.

Numerous iterations of soil and groundwater assessment and/or active remediation have been conducted on the releases from each of the sites. Therefore, a somewhat extensive monitoring well network exists in the area that was previously installed in an attempt to define the horizontal and vertical extents of the contaminant plumes associated with the releases. The most recent assessment conducted at the site, a groundwater sampling event, was performed by Midlands Environmental Consultants, Inc. in November 2021. The results were summarized in a monitoring report dated December 2, 2021.

According to the USGS Topographic Quadrangle Map of *Columbia North, South Carolina*, dated 2020, the elevation of the site is approximately 290 feet above mean sea level (MSL). Based on the data collected during this and previous assessments, groundwater apparently flows in a semi-radial pattern toward the northwest and toward the south/southeast. Groundwater flow in the limited area of study during this assessment is believed to flow primarily toward the south/southeast. A Topographic Site Location Map is included as Figure 1.

Summary of Findings

Soil & Groundwater Screening

All soil boring (SB) and temporary monitoring well (TMW) locations were selected onsite by ARM and DHEC staff prior to the work, and based on the site conditions at the time of the assessment. The site work was completed on December 4 through 7, 2023.

Multiple additional soil and groundwater screening points were requested by the Department, primarily to the west of the work completed during this assessment. However, due to a lack of access to multiple private properties, no additional borings were completed during this round of work.

A total of eleven (11) locations were selected for soil screening. The borings were completed using a drilling rig equipped with direct push tooling. Continuous soil cores, designated SB-1 through SB-11, were completed to total depths between 18 and 30 feet below ground surface (bgs). All downhole tooling was decontaminated between borings to prevent potential cross contamination.
Soils were collected and placed in sealable plastic bags at intervals between two and five feet depending on the depth and the boring. The soil samples were allowed to come to equilibrium with ambient temperatures and then screened with a calibrated photoionization detector (PID) via headspace analysis.

A select set of soil samples were submitted to Pace Analytical Services, LLC (PACE), a South Carolina certified laboratory (certification #32010), for grainsize/hydrometer analysis. Samples were collected from SB-3 at 17 feet and 27 feet, SB-9 at 25 feet, and SB-11 at 27 feet and 30 feet.

A total of thirteen (13) TMWs were completed across the area of study utilizing direct push methodologies. The total depths of the TMWs ranged from 9 to 33 feet bgs depending on the boring location. The TMWs were generally completed to first water. All downhole tooling was decontaminated between wells using industry standard procedures. Samples from each of the TMWs were collected into pre-labeled, laboratory-prepared sample containers and submitted to Pace Analytical Services, LLC (PACE), a South Carolina certified laboratory (certification #32010), for analysis of benzene, toluene, ethylbenzene, total xylenes (BTEX), naphthalene, methyl tertiary butyl ether (MTBE), and 1,2-DCA by Environmental Protection Agency (EPA) approved analytical method 8260D. Each TMW water sample was also analyzed for the 8 oxygenates by approved analytical method 8260D.

Elevated concentrations of multiple CoC were identified in water samples from TMW-1, TMW-2, TMW-7, TMW-10, and TMW-11. No CoC, or only deminimus concentrations of CoC, were observed in TMW-3, TMW-4, TMW-5, TMW-8, TMW-9, TMW-12, or TMW-13.

The locations of each of the SBs and TMWs are indicated on the Site Base Map with Screening Data, included as Figure 2. The soil boring logs and tabulated summaries of the TMW analytical data are included in Appendix D. DHEC 1903 Well Records are included in Appendix E. The complete laboratory analytical reports, including chain-of-custody documentation, are included in Appendix B. iii. Groundwater CoC Site Maps indicating the December 2023 CoC concentrations in the groundwater at each TMW are included as Figure 3A and Figure 3B (Oxygenates).

Property Access Documentation

Abbreviated copies of the report have been submitted to the owner or representative of each of the off-site properties containing sampled monitoring wells. Copies of the permission letters granting off-site access are included in Appendix J.

Contractor Checklist

The SCDHEC QAPP Contractor Checklist is included in Appendix K.

Conclusions and Recommendations

Based on the analytical results from this event, it appears that the contaminant plume remains undefined to the west and southwest of the apparent source areas. The shallow groundwater contaminant plume appears to have been delineated along the eastern boundary of the study area during this assessment.

Based on the available lithology data and field screening information from this assessment, it appears that a layer of sand and/or sandy silt is likely acting as a more permeable layer for contaminant migration toward the southeast. The sand and sandy silt layer, where present, is relatively thin and is located near and above the water table interface. The more permeable layer is located above tighter and more clayey materials. Although the contaminant plume(s) have clearly traveled in multiple directions from the various source areas, it is apparent that a preferential pathway exists roughly from the intersection of Forest Drive and Ontario Street and travels southeast along the eastern side of Ontario Street between Ontario Street and the former Lyon Street. Lyon Street has been demolished as part of the Housing Authority development on the southeastern corner of Forest Drive and Ontario Street. Groundwater samples from TMW-2 and TMW-7 confirm the presence of a relatively narrow pathway of contaminant migration toward the newly installed retention pond area on the Housing Authority development. Just beyond the recently installed retention pond is an unnamed wet weather drainage feature that has previously been found to be impacted with elevated CoC.

References

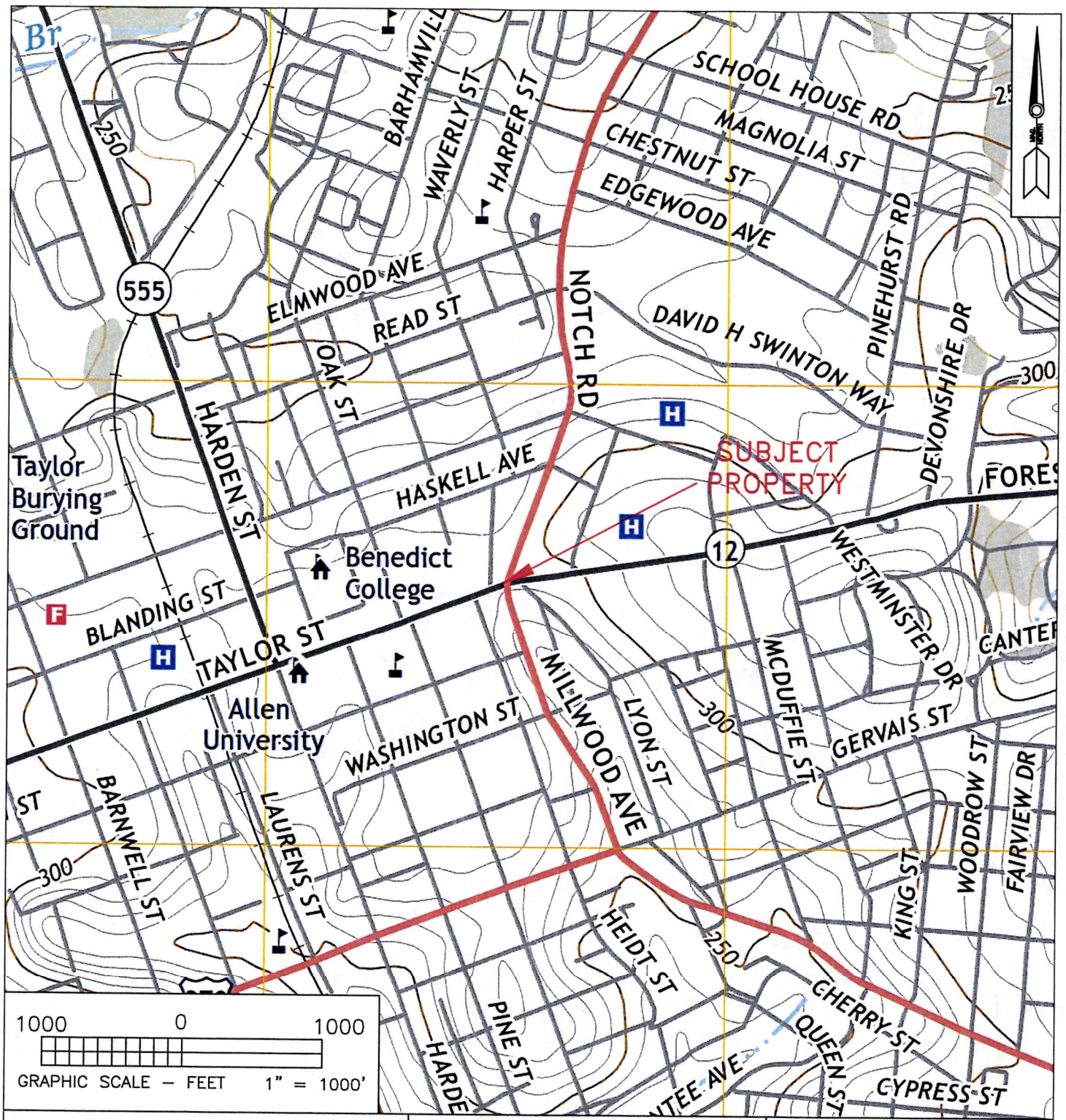
Maybin and Nystrom, 1997, revised by Willoughby, Howard and Nystrom, 2005. Generalized Geologic Map of South Carolina; South Carolina Department of Natural Resources Geological Survey.

USGS Open-File Report 2005-1323, Preliminary integrated geologic map databases for the United States: Alabama, Florida, Georgia, Mississippi, North Carolina, and South Carolina, http://pubs.usgs.gov/of/2005/1323/

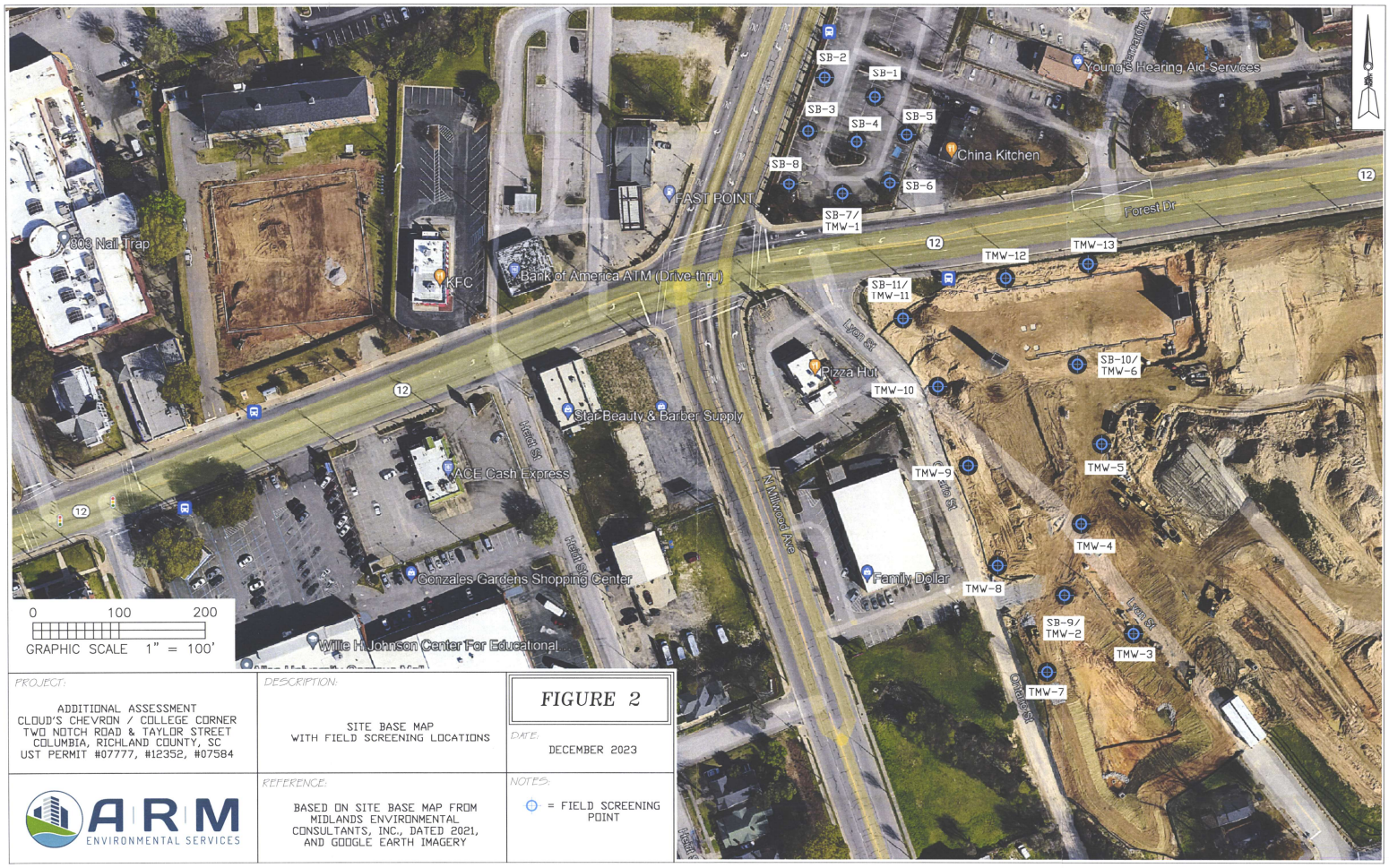
Midlands Environmental Consultants, December 2, 2021. Monitoring Report – Clouds Chevron & College Corner.

FIGURES

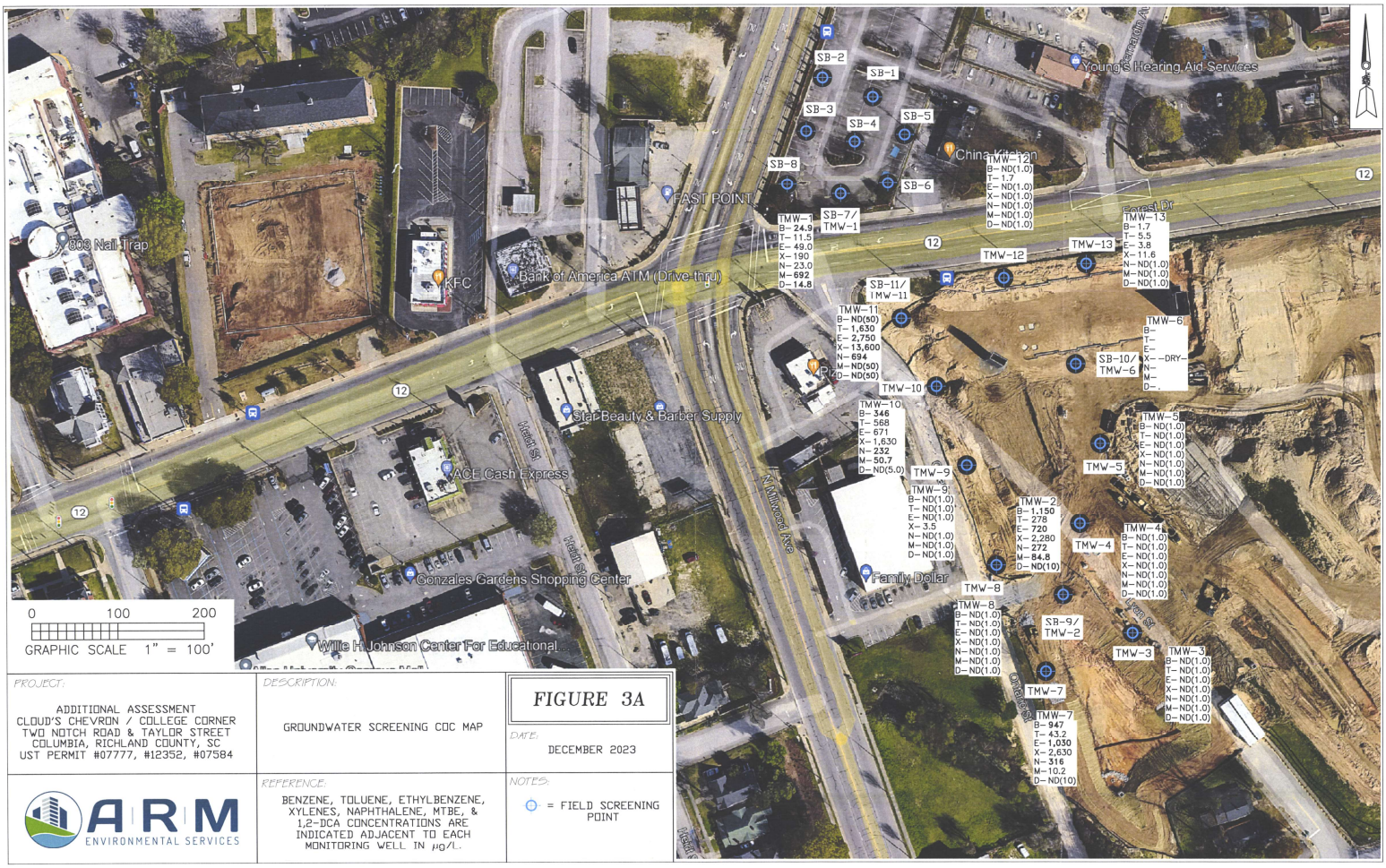
Figure 1 – Site Location Map (Topographic)
Figure 2 – Site Base Map
Figure 3A – Groundwater Screening CoC Map
Figure 3B – Groundwater Screening CoC Map (Oxy)



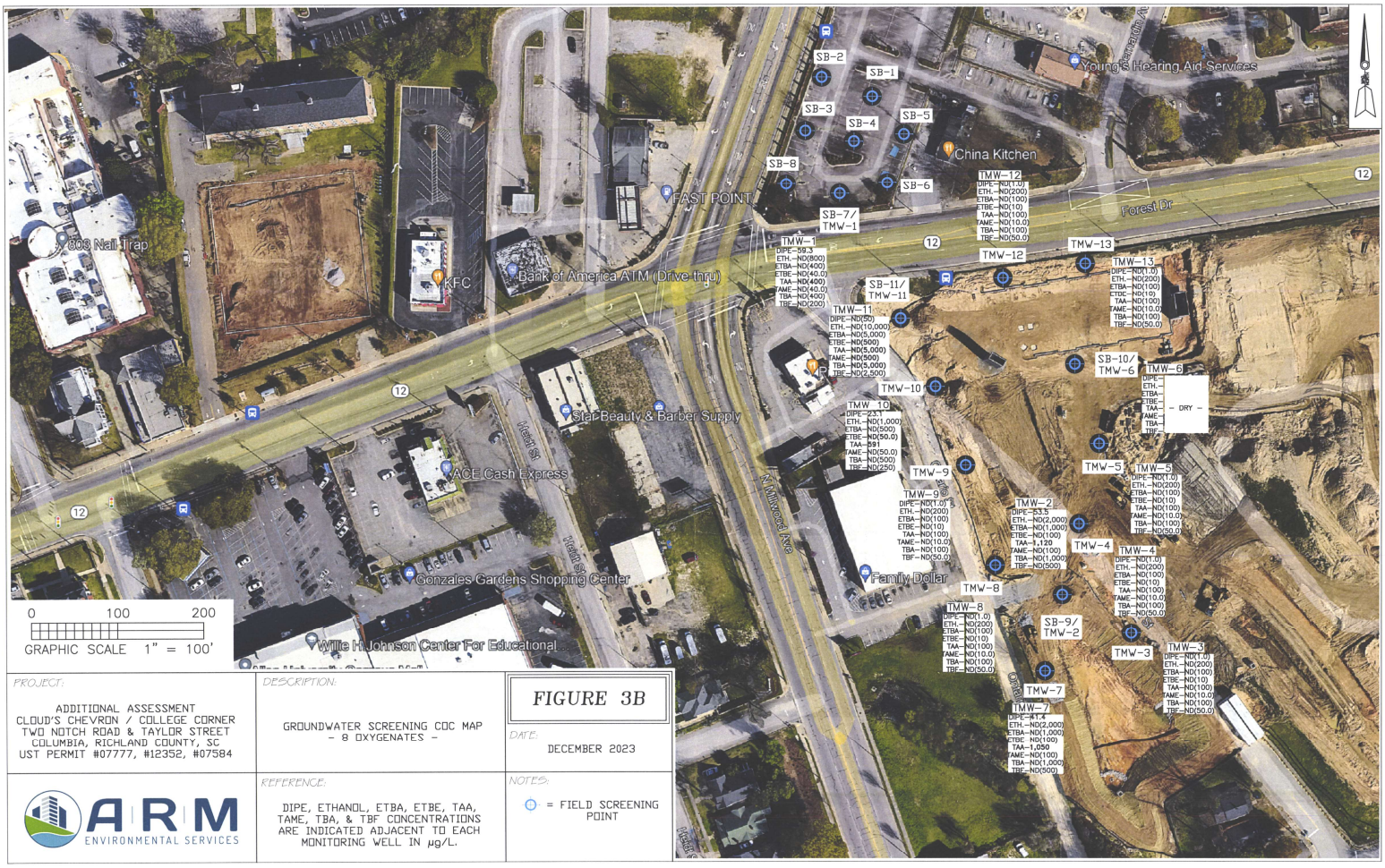
PROJECT: ADDITIONAL ASSESSMENT CLOUD'S CHEVRON / COLLEGE CORNER TWO NOTCH ROAD & TAYLOR STREET COLUMBIA, RICHLAND COUNTY, SC UST PERMIT #07777, #12352, #07584	DESCRIPTION: SITE LOCATION MAP	FIGURE 1 DATE: DECEMBER 2023
ARM ENVIRONMENTAL SERVICES	REFERENCE: U.S.G.S. TOPOGRAPHIC MAP (7.5 MINUTE SERIES) COLUMBIA NORTH - 2020 SOUTH CAROLINA QUADRANGLE	LEGEND:



PROJECT: ADDITIONAL ASSESSMENT CLOUD'S CHEVRON / COLLEGE CORNER TWO NOTCH ROAD & TAYLOR STREET COLUMBIA, RICHLAND COUNTY, SC UST PERMIT #07777, #12352, #07584	DESCRIPTION: SITE BASE MAP WITH FIELD SCREENING LOCATIONS	**FIGURE 2** DATE: DECEMBER 2023
ARM ENVIRONMENTAL SERVICES	REFERENCE: BASED ON SITE BASE MAP FROM MIDLANDS ENVIRONMENTAL CONSULTANTS, INC., DATED 2021, AND GOOGLE EARTH IMAGERY	NOTES: ⊕ = FIELD SCREENING POINT



PROJECT: ADDITIONAL ASSESSMENT CLOUD'S CHEVRON / COLLEGE CORNER TWO NOTCH ROAD & TAYLOR STREET COLUMBIA, RICHLAND COUNTY, SC UST PERMIT #07777, #12352, #07584	DESCRIPTION: GROUNDWATER SCREENING COC MAP	**FIGURE 3A** DATE: DECEMBER 2023
ARM ENVIRONMENTAL SERVICES	REFERENCE: BENZENE, TOLUENE, ETHYLBENZENE, XYLENES, NAPHTHALENE, MTBE, & 1,2-DCA CONCENTRATIONS ARE INDICATED ADJACENT TO EACH MONITORING WELL IN µg/L.	NOTES: = FIELD SCREENING POINT



PROJECT: ADDITIONAL ASSESSMENT CLOUD'S CHEVRON / COLLEGE CORNER TWO NOTCH ROAD & TAYLOR STREET COLUMBIA, RICHLAND COUNTY, SC UST PERMIT #07777, #12352, #07584	DESCRIPTION: GROUNDWATER SCREENING COC MAP - 8 OXYGENATES -	**FIGURE 3B** DATE: DECEMBER 2023
ARM ENVIRONMENTAL SERVICES	REFERENCE: DIPE, ETHANOL, ETBA, ETBE, TAA, TAME, TBA, & TBF CONCENTRATIONS ARE INDICATED ADJACENT TO EACH MONITORING WELL IN µg/L.	NOTES: ⊖ = FIELD SCREENING POINT

TABLES

Table 1 – Tabulated Analytical Data (Screening)
- A. Not Included (Soil Analytical Data)
- B. Groundwater Analytical Data

Table 2 – Not Included (Potentiometric Data)
Table 3 – Not Included (Site Conceptual Model)

APPENDICES

A. Not Included (Site Survey)
B. Sampling Documentation
- iii. Laboratory Analytical Data

C. Not Included (Tax Map Information)
D. Soil Boring / Field Screening Logs
E. 1903 Well Completion Logs
F. Not Included (Aquifer Evaluation)
G. Not Included (Disposal Manifest)
H. Not Included (Local Zoning Regulations)
I. Not Included (Fate & Transport Modeling)
J. Property Access Documentation
K. SCDHEC Contractor Checklist

College Corner, UST Permit #07584 and Clouds Chevron, UST Permit #s12352 & 07777

Table 1.B – Tabulated Field Screening Data (Groundwater)

December 5-7, 2023

Temporary Monitor Well ID	Date Sampled	Depth (feet)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Naphth-alene	MTBE	1,2-DCA
RBSLs	---	---	**5.0**	**1,000**	**700**	**10,000**	**25**	**40**	**5 (MCL)**
TMW-1	12/05/23	33.0	**24.9**	11.5	49.0	190	23.0	**692**	**14.8**
TMW-2	12/05/23	30.0	**1,150**	278	**720**	2,280	**272**	**84.8**	ND (**10.0**)
TMW-3	12/05/23	23.0	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
TMW-4	12/05/23	23.0	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
TMW-5	12/06/23	25.0	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
TMW-6	12/06/23	30.0	Dry (no groundwater sample collected)						
TMW-7	12/06/23	9.0	**947**	43.2	**1,030**	2,630	**316**	10.2	ND (**10.0**)
TMW-8	12/06/23	14.0	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
TMW-9	12/06/23	23.0	ND (1.0)	ND (1.0)	ND (1.0)	3.5	ND (1.0)	ND (1.0)	ND (1.0)
TMW-10	12/07/23	32.0	**346**	568	671	1,630	**232**	**50.7**	ND (**5.0**)
TMW-11	12/07/23	27.0	ND (**50.0**)	**1,630**	**2,750**	**13,600**	**694**	ND (**50.0**)	ND (**50.0**)
TMW-12	12/07/23	33.0	ND (1.0)	1.7	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
TMW-13	12/07/23	29.0	1.7	5.5	3.8	11.6	ND (1.0)	ND (1.0)	ND (1.0)

Note: All units expressed in µg/L (PPB)

ND - Not Detected Above Limit of Quantitation (LOQ)

N/A - Not Applicable

J - Aproximated result below the laboratory reporting limit

College Corner, UST Permit #07584 and Clouds Chevron, UST Permit #s12352 & 07777

Table 1.B – Tabulated Field Screening Data (Groundwater)

- 8 Oxygenates -

December 5-7, 2023

Temporary Monitor Well ID	Date Sampled	Depth (feet)	DIPE	Ethanol	ETBA	ETBE	TAA	TAME	TBA	TBF
RBSLs	---	---	**150**	**10,000**	**N/A**	**47**	**240**	**128**	**1,400**	**N/A**
TMW-1	12/05/23	33.0	59.3	ND (800)	ND (400)	ND (40.0)	ND (**400**)	ND (40.0)	ND (400)	ND (200)
TMW-2	12/05/23	30.0	53.5	ND (2,000)	ND (1,000)	ND (100)	**1,120**	ND (100)	ND (1,000)	ND (500)
TMW-3	12/05/23	23.0	ND (1.0)	ND (200)	ND (100)	ND (10.0)	ND (100)	ND (10.0)	ND (100)	ND (50.0)
TMW-4	12/05/23	23.0	ND (1.0)	ND (200)	ND (100)	ND (10.0)	ND (100)	ND (10.0)	ND (100)	ND (50.0)
TMW-5	12/06/23	25.0	ND (1.0)	ND (200)	ND (100)	ND (10.0)	ND (100)	ND (10.0)	ND (100)	ND (50.0)
TMW-6	12/06/23	30.0	Dry (no groundwater sample collected)							
TMW-7	12/06/23	9.0	41.4	ND (2,000)	ND (1,000)	ND (100)	**1,050**	ND (100)	ND (1,000)	ND (500)
TMW-8	12/06/23	14.0	ND (1.0)	ND (200)	ND (100)	ND (10.0)	ND (100)	ND (10.0)	ND (100)	ND (50.0)
TMW-9	12/06/23	23.0	ND (1.0)	ND (200)	ND (100)	ND (10.0)	ND (100)	ND (10.0)	ND (100)	ND (50.0)
TMW-10	12/07/23	32.0	23.1	ND (1,000)	ND (500)	ND (**50.0**)	**591**	ND (50.0)	ND (500)	ND (250)
TMW-11	12/07/23	27.0	ND (50.0)	ND (10,000)	ND (5,000)	ND (**500**)	ND (**5,000**)	ND (**500**)	ND (**5,000**)	ND (2,500)
TMW-12	12/07/23	33.0	ND (1.0)	ND (200)	ND (100)	ND (10.0)	ND (100)	ND (10.0)	ND (100)	ND (50.0)
TMW-13	12/07/23	29.0	ND (1.0)	ND (200)	ND (100)	ND (10.0)	ND (100)	ND (10.0)	ND (100)	ND (50.0)

Note: All units expressed in µg/L (PPB)

ND - Not Detected Above Limit of Quantitation (LOQ)

N/A - Not Applicable

J - Aproximated result below the laboratory reporting limit

APPENDIX A
NOT INCLUDED

APPENDIX B. iii.
LABORATORY ANALYTICAL DATA

Schnabel ENGINEERING

104 Corporate Boulevard, Suite 420
West Columbia, SC 29169
T/ 803-796-6240
F/ 803-796-6250

TRANSMITTAL

TO:	Joseph Goings	**DATE:**	12/15/23
COMPANY:	ARM Environmental	**SUBJECT:**	Lab Results for College Corner
ADDRESS:	1210 1st Street South Ext. Columbia, South Carolina 29209	**PROJECT NAME/NO.:**	ARM Environmental Lab Testing Schnabel Reference Number: 17C19041.000
FROM:	Stephen Hahn	**CC:**	

COPIES	DATE	NO.	DESCRIPTION
1	--	5	Gradation Curves for College Corner

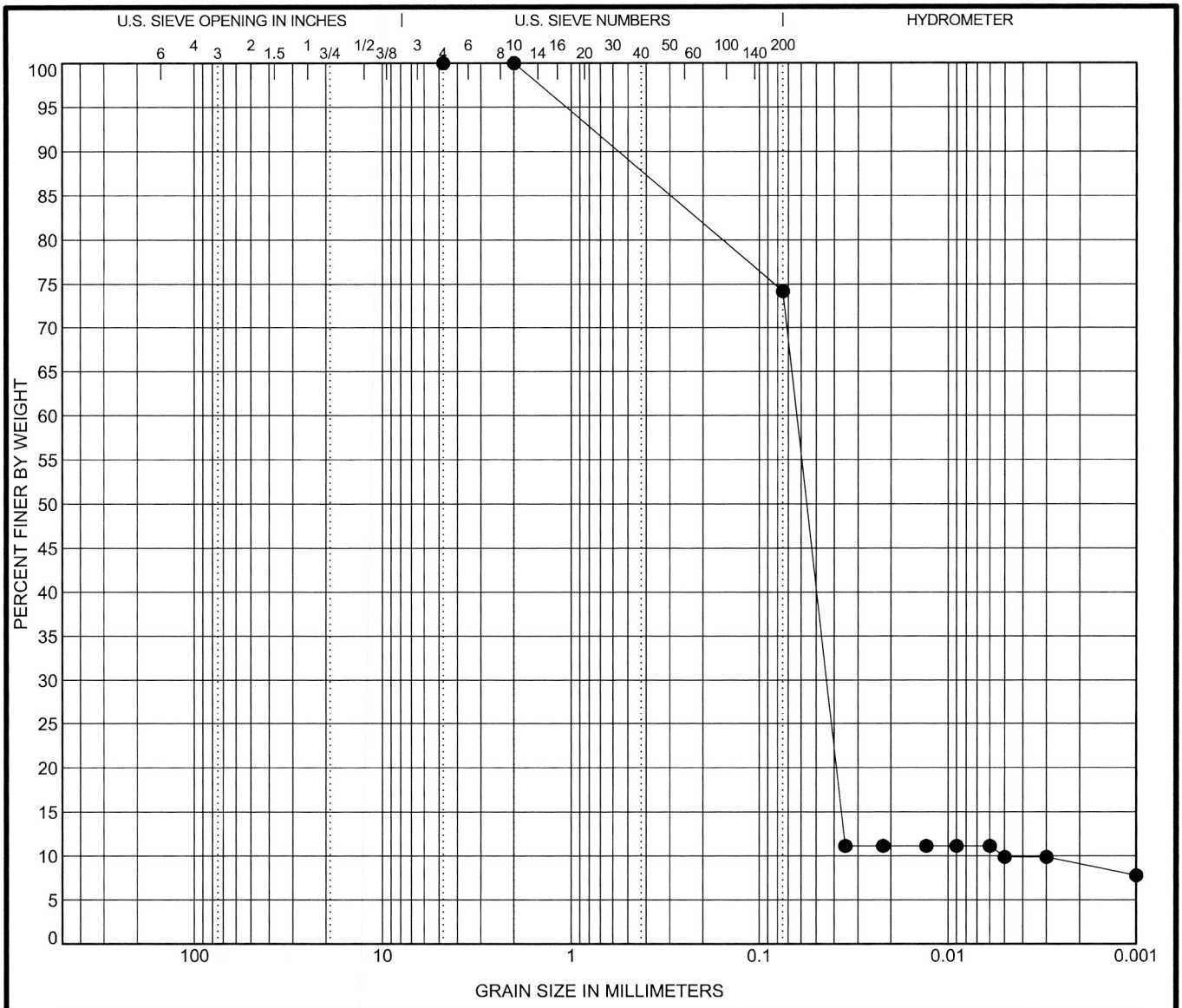
☒ AS REQUESTED ☐ FOR APPROVAL ☐ PLEASE REPLY ☐ FOR YOUR USE

Attached, please find our lab results for the project College Corner
.

Please advise if you have any questions.

SIGNED: Stephen Hahn

SENT VIA: ☐ First Class Mail ☐ Overnight Service ☒ Email ☐ Other



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen	Sample Description	LL	PL	PI	Test Method
● SB-3 17.0 ft	**SILT WITH SAND (ML), reddish brown**	--	--	--	Atterberg ASTM D4318

Test Method	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
ASTM D422	**2**	**0.063**	**0.044**	**0.005**	**0.0**	**25.8**	**65.1**	**9.1**

Percent Finer

Sieve Size	200	10	4
% Finer	74.2	100.0	100.0

Tested By	Tested Date	Reviewed by	Calc by
DLH	12/12/23	SRH	LN

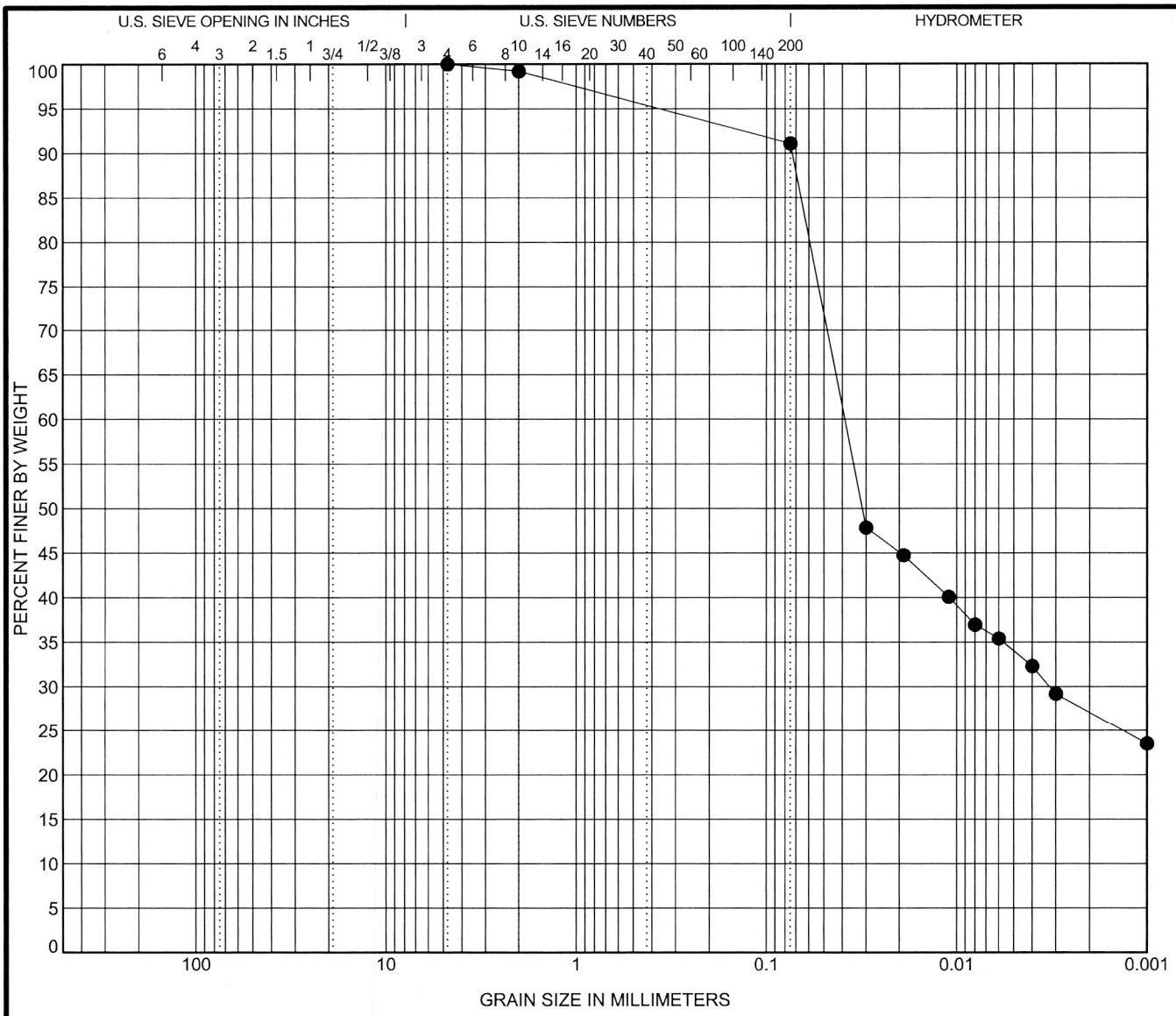
Schnabel ENGINEERING

GRADATION CURVE

Project: ARM Environmental Lab Testing
College Corner
SC

Contract: 17C19041.000

SIEVE 1/SHEET ARM ENV. LAB.GPJ TEST TEMPLATE.GDT 12/17/23



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen		Sample Description	LL	PL	PI	Test Method
● SB-3	27.0 ft	**SILT (ML), brown**	--	--	--	Atterberg ASTM D4318

Test Method	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
ASTM D422	**4.75**	**0.039**	**0.003**		**0.0**	**8.9**	**64.0**	**27.1**

Percent Finer

Sieve Size	200	10	4
% Finer	91.1	99.2	100.0

Tested By	Tested Date	Reviewed by	Calc by
DLH	12/12/23	SRH	LN

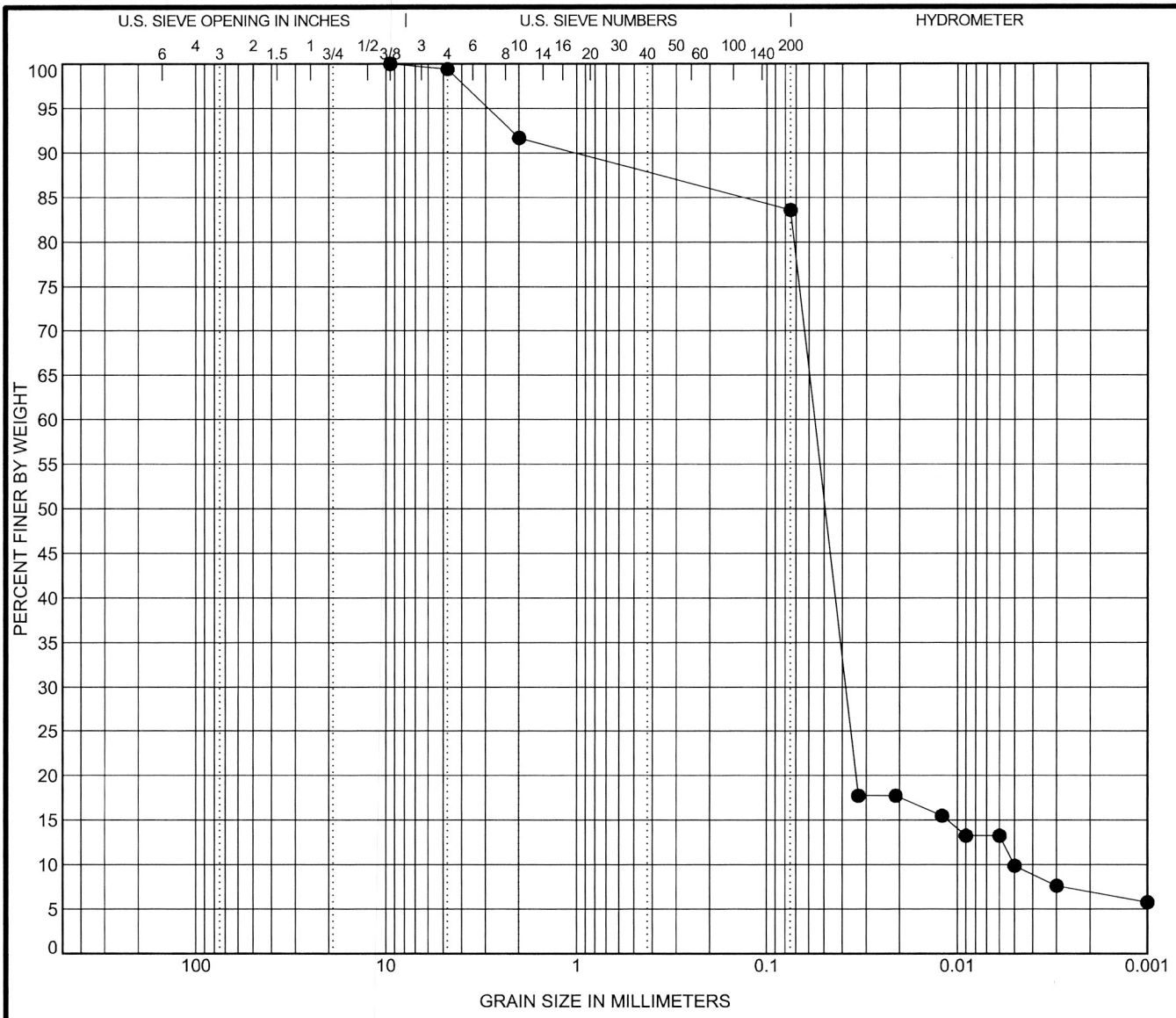
Schnabel ENGINEERING

GRADATION CURVE

Project: ARM Environmental Lab Testing
College Corner
SC

Contract: 17C19041.000

SIEVE 1/SHEET ARM ENV. LAB.GPJ TEST TEMPLATE.GDT 12/17/23



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen	Sample Description	LL	PL	PI	Test Method
● SB-9 25.0 ft	**SILT WITH SAND (ML), light brown**	--	--	--	Atterberg ASTM D4318

Test Method	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
ASTM D422	**9.5**	**0.056**	**0.038**	**0.005**	**0.6**	**15.8**	**76.7**	**6.9**

Percent Finer

Sieve Size	200	10	4	3/8"
% Finer	83.6	91.7	99.4	100.0

Tested By	Tested Date	Reviewed by	Calc by
DLH	12/12/23	SRH	LN

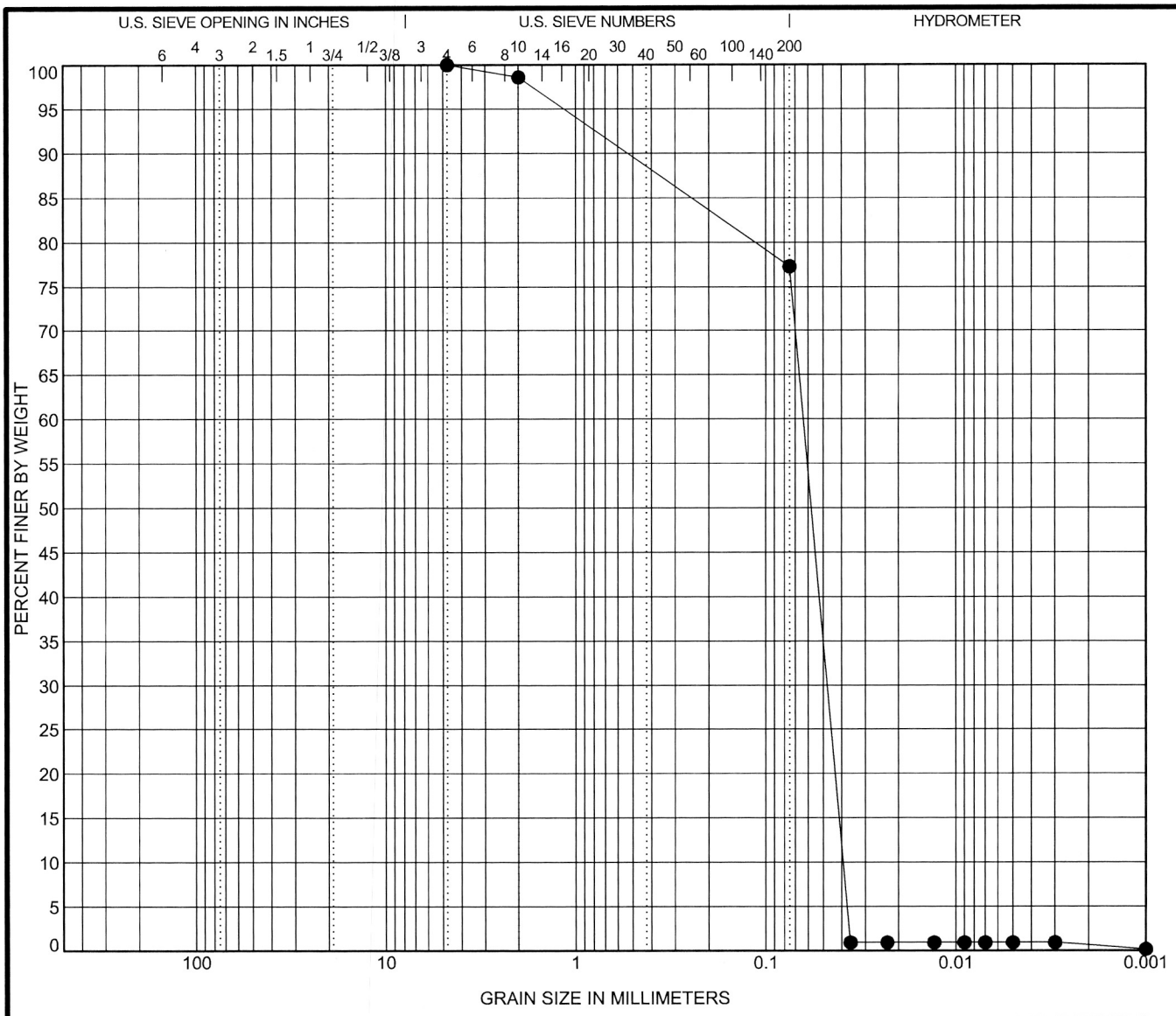
Schnabel ENGINEERING

GRADATION CURVE

Project: ARM Environmental Lab Testing
College Corner
SC

Contract: 17C19041.000

SIEVE 1/SHEET ARM ENV. LAB.GPJ TEST TEMPLATE.GDT 12/17/23



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen	Sample Description	LL	PL	PI	Test Method
● SB-11 27.0 ft	**SILT WITH SAND (ML), light brown**	--	--	--	Atterberg ASTM D4318

Test Method	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
ASTM D422	**4.75**	**0.064**	**0.048**	**0.039**	**0.0**	**22.7**	**76.7**	**0.6**

Percent Finer

Sieve Size	200	10	4
% Finer	77.3	98.6	100.0

Tested By	Tested Date	Reviewed by	Calc by
DLH	12/12/23	SRH	LN

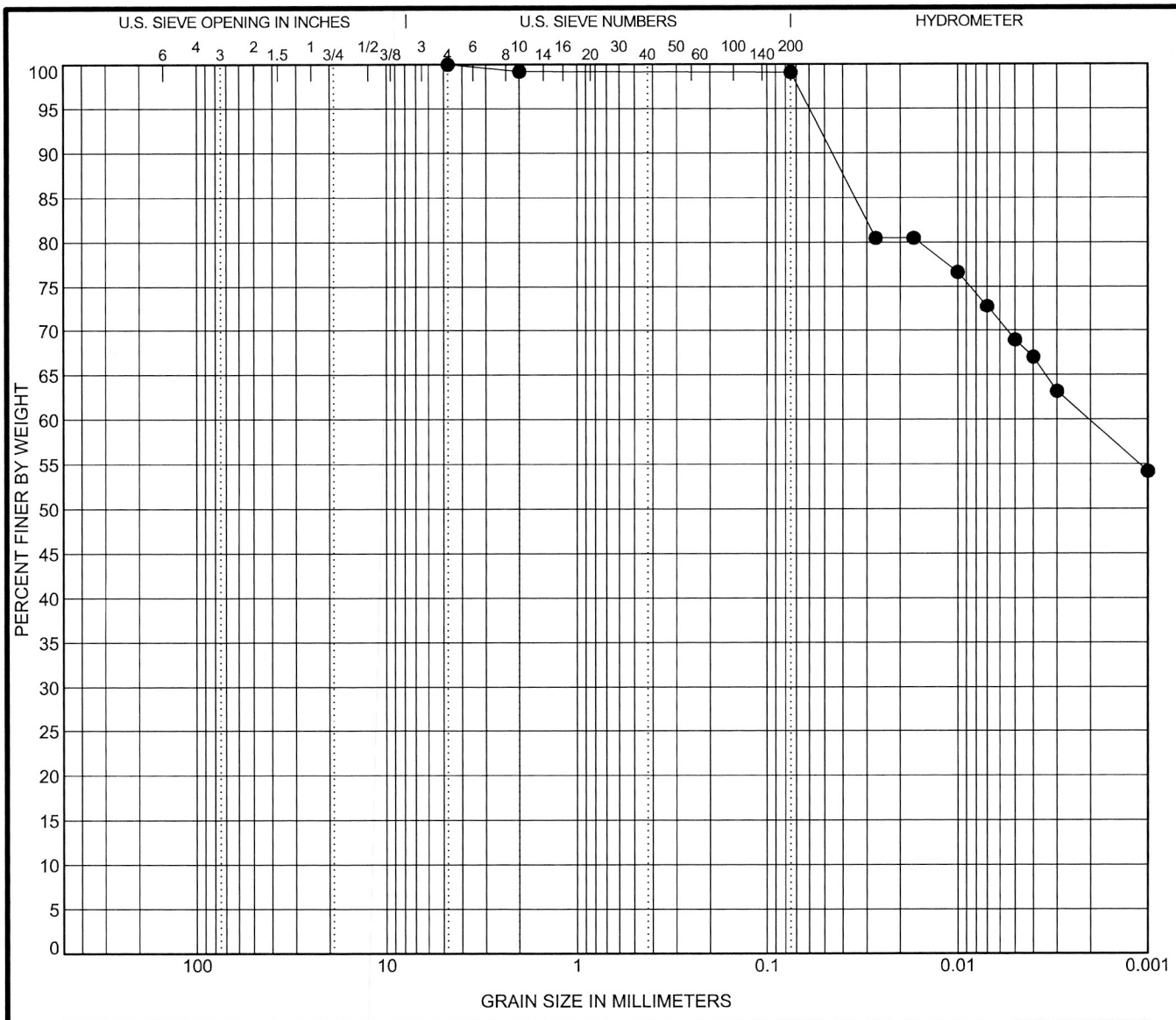
Schnabel ENGINEERING

GRADATION CURVE

Project: ARM Environmental Lab Testing
College Corner
SC

Contract: 17C19041.000

SIEVE 1/SHEET ARM ENV. LAB.GPJ TEST TEMPLATE.GDT 12/17/23



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen	Sample Description	LL	PL	PI	Test Method
● SB-11 30.0 ft	**LEAN CLAY (CL), light brown**	--	--	--	Atterberg ASTM D4318

Test Method	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
ASTM D422	**4.75**	**0.002**			**0.0**	**0.9**	**39.3**	**59.8**

Percent Finer

Sieve Size	200	10	4
% Finer	99.1	99.2	100.0

Tested By	Tested Date	Reviewed by	Calc by
DLH	12/12/23	SRH	LN

Schnabel ENGINEERING

GRADATION CURVE

Project: ARM Environmental Lab Testing
College Corner
SC

Contract: 17C19041.000

SIEVE 1/SHEET ARM ENV. LAB.GPJ TEST TEMPLATE.GDT 12/17/23

17C1904.000

CHAIN OF CUSTODY RECORD

ARM ENVIRONMENTAL SERVICES

1210 1st STREET SOUTH EXTENSION COLUMBIA, SOUTH CAROLINA 29209 PHONE: 803-783-3314 FAX: 803-783-2587

Project #	Preservative 2. NaOH 5. HCl 3. H_2SO_4 6. $Na_2S_2O_3$ 1. Unpreserved 4. HNO_3 7. 5035 Kit	3	2	1	1							# of Containers
33-3010.1-23		5	5	4	1							Preservative
Project Name: College Corner	Laboratory Utilized: Schnabel Engineering											
Sampler Name (print): Paul Myers	Sampler Signature:											

Sample ID / Description	Date	Time	G = Grab C = Composite	Matrix S, GW, DW, DI, Other	BTEX+N+M+DCA+Oxy by 8260D	EDB by 8011	Total Lead by 6010D	Grainsize/ Hydrometer							Remarks
SB-3 @ 17'	12/11/23	09:54	G	S				X							
SB-3 @ 27'	12/11/23	12:30	G	S				X							
SB-9 @ 25'	12/11/23	13:40	G	S				X							
SB-11 @ 27'	12/11/23	15:05	G	S				X							
SB-11 @ 30'	12/11/23	15:00	G	S				X							

Relinquished by / Sampler	Date	Time	Received by	Date	Time	Project Manager
	12/11	1545		12/11/23	3:48 pm	Joseph Goings
Relinquished by	Date	Time	Received by	Date	Time	P.O. Number
Relinquished by	Date	Time	Received by	Date	Time	

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

December 15, 2023

Joseph Goings
ARM Environmental
1210 1st Street S. Extension
Columbia, SC 29209

RE: Project: COLLEGE CORNER
Pace Project No.: 92702649

Dear Joseph Goings:

Enclosed are the analytical results for sample(s) received by the laboratory on December 08, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Charlotte

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

Sincerely,

Angela M. Baioni

Angela Baioni
angela.baioni@pacelabs.com
612-473-6801
Project Manager

Enclosures

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

CERTIFICATIONS

Project: COLLEGE CORNER
Pace Project No.: 92702649

Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Laboratory ID: 99006
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DoH Drinking Water #: LA029
Virginia/VELAP Certification #: 460221

REPORT OF LABORATORY ANALYSIS

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

SAMPLE SUMMARY

Project: COLLEGE CORNER
Pace Project No.: 92702649

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92702649001	**TMW-1**	Water	12/05/23 09:54	12/08/23 08:00
92702649002	**TMW-2**	Water	12/05/23 12:30	12/08/23 08:00
92702649003	**TMW-3**	Water	12/05/23 13:40	12/08/23 08:00
92702649004	**TMW-4**	Water	12/05/23 15:00	12/08/23 08:00
92702649005	**TMW-5**	Water	12/06/23 10:50	12/08/23 08:00
92702649006	**TMW-7**	Water	12/06/23 12:40	12/08/23 08:00
92702649007	**TMW-8**	Water	12/06/23 13:00	12/08/23 08:00
92702649008	**TMW-9**	Water	12/06/23 14:30	12/08/23 08:00
92702649009	**TMW-10**	Water	12/07/23 10:20	12/08/23 08:00
92702649010	**TMW-11**	Water	12/07/23 09:40	12/08/23 08:00
92702649011	**TMW-12**	Water	12/07/23 12:00	12/08/23 08:00
92702649012	**TMW-13**	Water	12/07/23 11:05	12/08/23 08:00

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SAMPLE ANALYTE COUNT

Project: COLLEGE CORNER
Pace Project No.: 92702649

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92702649001	**TMW-1**	EPA 8011	HH	2	PASI-C
		EPA 8260D	SAS	18	PASI-C
92702649002	**TMW-2**	EPA 8011	HH	2	PASI-C
		EPA 8260D	SAS	18	PASI-C
92702649003	**TMW-3**	EPA 8011	HH	2	PASI-C
		EPA 8260D	LMB	18	PASI-C
92702649004	**TMW-4**	EPA 8011	HH	2	PASI-C
		EPA 8260D	LMB	18	PASI-C
92702649005	**TMW-5**	EPA 8011	HH	2	PASI-C
		EPA 8260D	LMB	18	PASI-C
92702649006	**TMW-7**	EPA 8011	HH	2	PASI-C
		EPA 8260D	SAS	18	PASI-C
92702649007	**TMW-8**	EPA 8011	HH	2	PASI-C
		EPA 8260D	SAS	18	PASI-C
92702649008	**TMW-9**	EPA 8011	HH	2	PASI-C
		EPA 8260D	SAS	18	PASI-C
92702649009	**TMW-10**	EPA 8011	HH	2	PASI-C
		EPA 8260D	SAS	18	PASI-C
92702649010	**TMW-11**	EPA 8011	HH	2	PASI-C
		EPA 8260D	SAS	18	PASI-C
92702649011	**TMW-12**	EPA 8011	HH	2	PASI-C
		EPA 8260D	SAS	18	PASI-C
92702649012	**TMW-13**	EPA 8011	HH	2	PASI-C
		EPA 8260D	SAS	18	PASI-C

PASI-C = Pace Analytical Services - Charlotte

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: COLLEGE CORNER
Pace Project No.: 92702649

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92702649001	**TMW-1**					
EPA 8260D	Benzene	24.9	ug/L	4.0	12/15/23 08:55	
EPA 8260D	1,2-Dichloroethane	14.8	ug/L	4.0	12/15/23 08:55	v1
EPA 8260D	Diisopropyl ether	59.3	ug/L	4.0	12/15/23 08:55	
EPA 8260D	Ethylbenzene	49.0	ug/L	4.0	12/15/23 08:55	
EPA 8260D	Methyl-tert-butyl ether	692	ug/L	4.0	12/15/23 08:55	
EPA 8260D	Naphthalene	23.0	ug/L	4.0	12/15/23 08:55	
EPA 8260D	Toluene	11.5	ug/L	4.0	12/15/23 08:55	
EPA 8260D	Xylene (Total)	190	ug/L	4.0	12/15/23 08:55	
92702649002	**TMW-2**					
EPA 8260D	tert-Amyl Alcohol	1120	ug/L	1000	12/15/23 09:13	
EPA 8260D	Benzene	1150	ug/L	10.0	12/15/23 09:13	
EPA 8260D	Diisopropyl ether	53.5	ug/L	10.0	12/15/23 09:13	
EPA 8260D	Ethylbenzene	720	ug/L	10.0	12/15/23 09:13	
EPA 8260D	Methyl-tert-butyl ether	84.8	ug/L	10.0	12/15/23 09:13	
EPA 8260D	Naphthalene	272	ug/L	10.0	12/15/23 09:13	
EPA 8260D	Toluene	278	ug/L	10.0	12/15/23 09:13	
EPA 8260D	Xylene (Total)	2280	ug/L	10.0	12/15/23 09:13	
92702649006	**TMW-7**					
EPA 8260D	tert-Amyl Alcohol	1050	ug/L	1000	12/15/23 10:26	
EPA 8260D	Benzene	947	ug/L	10.0	12/15/23 10:26	
EPA 8260D	Diisopropyl ether	41.4	ug/L	10.0	12/15/23 10:26	
EPA 8260D	Ethylbenzene	1030	ug/L	10.0	12/15/23 10:26	
EPA 8260D	Methyl-tert-butyl ether	10.2	ug/L	10.0	12/15/23 10:26	
EPA 8260D	Naphthalene	316	ug/L	10.0	12/15/23 10:26	
EPA 8260D	Toluene	43.2	ug/L	10.0	12/15/23 10:26	
EPA 8260D	Xylene (Total)	2630	ug/L	10.0	12/15/23 10:26	
92702649008	**TMW-9**					
EPA 8260D	Xylene (Total)	3.5	ug/L	1.0	12/15/23 07:42	
92702649009	**TMW-10**					
EPA 8260D	tert-Amyl Alcohol	591	ug/L	500	12/15/23 10:44	
EPA 8260D	Benzene	346	ug/L	5.0	12/15/23 10:44	
EPA 8260D	Diisopropyl ether	23.1	ug/L	5.0	12/15/23 10:44	
EPA 8260D	Ethylbenzene	671	ug/L	5.0	12/15/23 10:44	
EPA 8260D	Methyl-tert-butyl ether	50.7	ug/L	5.0	12/15/23 10:44	
EPA 8260D	Naphthalene	232	ug/L	5.0	12/15/23 10:44	
EPA 8260D	Toluene	568	ug/L	5.0	12/15/23 10:44	
EPA 8260D	Xylene (Total)	1630	ug/L	5.0	12/15/23 10:44	
92702649010	**TMW-11**					
EPA 8260D	Ethylbenzene	2750	ug/L	50.0	12/15/23 09:31	
EPA 8260D	Naphthalene	694	ug/L	50.0	12/15/23 09:31	
EPA 8260D	Toluene	1630	ug/L	50.0	12/15/23 09:31	
EPA 8260D	Xylene (Total)	13600	ug/L	50.0	12/15/23 09:31	
92702649011	**TMW-12**					
EPA 8260D	Toluene	1.7	ug/L	1.0	12/15/23 08:18	

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SUMMARY OF DETECTION

Project: COLLEGE CORNER
Pace Project No.: 92702649

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92702649012	**TMW-13**					
EPA 8260D	Benzene	1.7	ug/L	1.0	12/15/23 08:00	
EPA 8260D	Ethylbenzene	3.8	ug/L	1.0	12/15/23 08:00	
EPA 8260D	Toluene	5.5	ug/L	1.0	12/15/23 08:00	
EPA 8260D	Xylene (Total)	11.6	ug/L	1.0	12/15/23 08:00	

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ANALYTICAL RESULTS

Project: COLLEGE CORNER
Pace Project No.: 92702649

Sample: TMW-1 **Lab ID: 92702649001** Collected: 12/05/23 09:54 Received: 12/08/23 08:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.021	1	12/11/23 14:53	12/12/23 00:38	106-93-4	L1
Surrogates								
1-Chloro-2-bromopropane (S)	130	%	60-140	1	12/11/23 14:53	12/12/23 00:38	301-79-56	
8260 MSV Low Level SC	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	400	4		12/15/23 08:55	75-85-4	
tert-Amylmethyl ether	ND	ug/L	40.0	4		12/15/23 08:55	994-05-8	
Benzene	**24.9**	ug/L	4.0	4		12/15/23 08:55	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	400	4		12/15/23 08:55	624-95-3	
tert-Butyl Alcohol	ND	ug/L	400	4		12/15/23 08:55	75-65-0	
tert-Butyl Formate	ND	ug/L	200	4		12/15/23 08:55	762-75-4	
1,2-Dichloroethane	**14.8**	ug/L	4.0	4		12/15/23 08:55	107-06-2	v1
Diisopropyl ether	**59.3**	ug/L	4.0	4		12/15/23 08:55	108-20-3	
Ethanol	ND	ug/L	800	4		12/15/23 08:55	64-17-5	
Ethylbenzene	**49.0**	ug/L	4.0	4		12/15/23 08:55	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	40.0	4		12/15/23 08:55	637-92-3	
Methyl-tert-butyl ether	**692**	ug/L	4.0	4		12/15/23 08:55	1634-04-4	
Naphthalene	**23.0**	ug/L	4.0	4		12/15/23 08:55	91-20-3	
Toluene	**11.5**	ug/L	4.0	4		12/15/23 08:55	108-88-3	
Xylene (Total)	**190**	ug/L	4.0	4		12/15/23 08:55	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	4		12/15/23 08:55	460-00-4	
1,2-Dichloroethane-d4 (S)	120	%	70-130	4		12/15/23 08:55	17060-07-0	
Toluene-d8 (S)	101	%	70-130	4		12/15/23 08:55	2037-26-5	

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ANALYTICAL RESULTS

Project: COLLEGE CORNER
Pace Project No.: 92702649

Sample: TMW-2 **Lab ID: 92702649002** Collected: 12/05/23 12:30 Received: 12/08/23 08:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.022	1	12/12/23 10:09	12/12/23 15:51	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	99	%	60-140	1	12/12/23 10:09	12/12/23 15:51	301-79-56	
8260 MSV Low Level SC	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	**1120**	ug/L	1000	10		12/15/23 09:13	75-85-4	
tert-Amylmethyl ether	ND	ug/L	100	10		12/15/23 09:13	994-05-8	
Benzene	**1150**	ug/L	10.0	10		12/15/23 09:13	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	1000	10		12/15/23 09:13	624-95-3	
tert-Butyl Alcohol	ND	ug/L	1000	10		12/15/23 09:13	75-65-0	
tert-Butyl Formate	ND	ug/L	500	10		12/15/23 09:13	762-75-4	
1,2-Dichloroethane	ND	ug/L	10.0	10		12/15/23 09:13	107-06-2	v1
Diisopropyl ether	**53.5**	ug/L	10.0	10		12/15/23 09:13	108-20-3	
Ethanol	ND	ug/L	2000	10		12/15/23 09:13	64-17-5	
Ethylbenzene	**720**	ug/L	10.0	10		12/15/23 09:13	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	100	10		12/15/23 09:13	637-92-3	
Methyl-tert-butyl ether	**84.8**	ug/L	10.0	10		12/15/23 09:13	1634-04-4	
Naphthalene	**272**	ug/L	10.0	10		12/15/23 09:13	91-20-3	
Toluene	**278**	ug/L	10.0	10		12/15/23 09:13	108-88-3	
Xylene (Total)	**2280**	ug/L	10.0	10		12/15/23 09:13	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	10		12/15/23 09:13	460-00-4	
1,2-Dichloroethane-d4 (S)	118	%	70-130	10		12/15/23 09:13	17060-07-0	
Toluene-d8 (S)	101	%	70-130	10		12/15/23 09:13	2037-26-5	

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ANALYTICAL RESULTS

Project: COLLEGE CORNER
Pace Project No.: 92702649

Sample: TMW-3 **Lab ID: 92702649003** Collected: 12/05/23 13:40 Received: 12/08/23 08:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.021	1	12/12/23 10:09	12/12/23 16:01	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	98	%	60-140	1	12/12/23 10:09	12/12/23 16:01	301-79-56	
8260 MSV Low Level SC	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		12/12/23 13:18	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		12/12/23 13:18	994-05-8	
Benzene	ND	ug/L	1.0	1		12/12/23 13:18	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		12/12/23 13:18	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		12/12/23 13:18	75-65-0	v2
tert-Butyl Formate	ND	ug/L	50.0	1		12/12/23 13:18	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/12/23 13:18	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	1		12/12/23 13:18	108-20-3	
Ethanol	ND	ug/L	200	1		12/12/23 13:18	64-17-5	
Ethylbenzene	ND	ug/L	1.0	1		12/12/23 13:18	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		12/12/23 13:18	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/12/23 13:18	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		12/12/23 13:18	91-20-3	
Toluene	ND	ug/L	1.0	1		12/12/23 13:18	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		12/12/23 13:18	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-130	1		12/12/23 13:18	460-00-4	
1,2-Dichloroethane-d4 (S)	84	%	70-130	1		12/12/23 13:18	17060-07-0	
Toluene-d8 (S)	96	%	70-130	1		12/12/23 13:18	2037-26-5	

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ANALYTICAL RESULTS

Project: COLLEGE CORNER
Pace Project No.: 92702649

Sample: TMW-4 **Lab ID: 92702649004** Collected: 12/05/23 15:00 Received: 12/08/23 08:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.021	1	12/12/23 10:09	12/12/23 16:12	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	92	%	60-140	1	12/12/23 10:09	12/12/23 16:12	301-79-56	
8260 MSV Low Level SC	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		12/12/23 13:36	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		12/12/23 13:36	994-05-8	
Benzene	ND	ug/L	1.0	1		12/12/23 13:36	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		12/12/23 13:36	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		12/12/23 13:36	75-65-0	v2
tert-Butyl Formate	ND	ug/L	50.0	1		12/12/23 13:36	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/12/23 13:36	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	1		12/12/23 13:36	108-20-3	
Ethanol	ND	ug/L	200	1		12/12/23 13:36	64-17-5	
Ethylbenzene	ND	ug/L	1.0	1		12/12/23 13:36	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		12/12/23 13:36	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/12/23 13:36	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		12/12/23 13:36	91-20-3	
Toluene	ND	ug/L	1.0	1		12/12/23 13:36	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		12/12/23 13:36	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	94	%	70-130	1		12/12/23 13:36	460-00-4	
1,2-Dichloroethane-d4 (S)	86	%	70-130	1		12/12/23 13:36	17060-07-0	
Toluene-d8 (S)	95	%	70-130	1		12/12/23 13:36	2037-26-5	

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ANALYTICAL RESULTS

Project: COLLEGE CORNER
Pace Project No.: 92702649

Sample: TMW-5 **Lab ID: 92702649005** Collected: 12/06/23 10:50 Received: 12/08/23 08:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	12/12/23 10:09	12/12/23 16:23	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	100	%	60-140	1	12/12/23 10:09	12/12/23 16:23	301-79-56	
8260 MSV Low Level SC	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		12/12/23 13:53	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		12/12/23 13:53	994-05-8	
Benzene	ND	ug/L	1.0	1		12/12/23 13:53	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		12/12/23 13:53	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		12/12/23 13:53	75-65-0	v2
tert-Butyl Formate	ND	ug/L	50.0	1		12/12/23 13:53	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/12/23 13:53	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	1		12/12/23 13:53	108-20-3	
Ethanol	ND	ug/L	200	1		12/12/23 13:53	64-17-5	
Ethylbenzene	ND	ug/L	1.0	1		12/12/23 13:53	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		12/12/23 13:53	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/12/23 13:53	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		12/12/23 13:53	91-20-3	
Toluene	ND	ug/L	1.0	1		12/12/23 13:53	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		12/12/23 13:53	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	95	%	70-130	1		12/12/23 13:53	460-00-4	
1,2-Dichloroethane-d4 (S)	86	%	70-130	1		12/12/23 13:53	17060-07-0	
Toluene-d8 (S)	97	%	70-130	1		12/12/23 13:53	2037-26-5	

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ANALYTICAL RESULTS

Project: COLLEGE CORNER
Pace Project No.: 92702649

Sample: TMW-7 **Lab ID: 92702649006** Collected: 12/06/23 12:40 Received: 12/08/23 08:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	12/12/23 10:09	12/12/23 16:33	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	106	%	60-140	1	12/12/23 10:09	12/12/23 16:33	301-79-56	
8260 MSV Low Level SC	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	**1050**	ug/L	1000	10		12/15/23 10:26	75-85-4	
tert-Amylmethyl ether	ND	ug/L	100	10		12/15/23 10:26	994-05-8	
Benzene	**947**	ug/L	10.0	10		12/15/23 10:26	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	1000	10		12/15/23 10:26	624-95-3	
tert-Butyl Alcohol	ND	ug/L	1000	10		12/15/23 10:26	75-65-0	
tert-Butyl Formate	ND	ug/L	500	10		12/15/23 10:26	762-75-4	
1,2-Dichloroethane	ND	ug/L	10.0	10		12/15/23 10:26	107-06-2	v1
Diisopropyl ether	**41.4**	ug/L	10.0	10		12/15/23 10:26	108-20-3	
Ethanol	ND	ug/L	2000	10		12/15/23 10:26	64-17-5	
Ethylbenzene	**1030**	ug/L	10.0	10		12/15/23 10:26	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	100	10		12/15/23 10:26	637-92-3	
Methyl-tert-butyl ether	**10.2**	ug/L	10.0	10		12/15/23 10:26	1634-04-4	
Naphthalene	**316**	ug/L	10.0	10		12/15/23 10:26	91-20-3	
Toluene	**43.2**	ug/L	10.0	10		12/15/23 10:26	108-88-3	
Xylene (Total)	**2630**	ug/L	10.0	10		12/15/23 10:26	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	10		12/15/23 10:26	460-00-4	
1,2-Dichloroethane-d4 (S)	116	%	70-130	10		12/15/23 10:26	17060-07-0	
Toluene-d8 (S)	102	%	70-130	10		12/15/23 10:26	2037-26-5	

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ANALYTICAL RESULTS

Project: COLLEGE CORNER
Pace Project No.: 92702649

Sample: TMW-8 **Lab ID: 92702649007** Collected: 12/06/23 13:00 Received: 12/08/23 08:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.021	1	12/12/23 10:09	12/12/23 16:44	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	100	%	60-140	1	12/12/23 10:09	12/12/23 16:44	301-79-56	
8260 MSV Low Level SC	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		12/15/23 07:23	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		12/15/23 07:23	994-05-8	
Benzene	ND	ug/L	1.0	1		12/15/23 07:23	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		12/15/23 07:23	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		12/15/23 07:23	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		12/15/23 07:23	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/15/23 07:23	107-06-2	v1
Diisopropyl ether	ND	ug/L	1.0	1		12/15/23 07:23	108-20-3	
Ethanol	ND	ug/L	200	1		12/15/23 07:23	64-17-5	
Ethylbenzene	ND	ug/L	1.0	1		12/15/23 07:23	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		12/15/23 07:23	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/15/23 07:23	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		12/15/23 07:23	91-20-3	
Toluene	ND	ug/L	1.0	1		12/15/23 07:23	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		12/15/23 07:23	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		12/15/23 07:23	460-00-4	
1,2-Dichloroethane-d4 (S)	122	%	70-130	1		12/15/23 07:23	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		12/15/23 07:23	2037-26-5	

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ANALYTICAL RESULTS

Project: COLLEGE CORNER
Pace Project No.: 92702649

Sample: TMW-9 **Lab ID: 92702649008** Collected: 12/06/23 14:30 Received: 12/08/23 08:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.021	1	12/12/23 10:09	12/12/23 16:55	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	102	%	60-140	1	12/12/23 10:09	12/12/23 16:55	301-79-56	
8260 MSV Low Level SC	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		12/15/23 07:42	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		12/15/23 07:42	994-05-8	
Benzene	ND	ug/L	1.0	1		12/15/23 07:42	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		12/15/23 07:42	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		12/15/23 07:42	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		12/15/23 07:42	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/15/23 07:42	107-06-2	v1
Diisopropyl ether	ND	ug/L	1.0	1		12/15/23 07:42	108-20-3	
Ethanol	ND	ug/L	200	1		12/15/23 07:42	64-17-5	
Ethylbenzene	ND	ug/L	1.0	1		12/15/23 07:42	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		12/15/23 07:42	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/15/23 07:42	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		12/15/23 07:42	91-20-3	
Toluene	ND	ug/L	1.0	1		12/15/23 07:42	108-88-3	
Xylene (Total)	**3.5**	ug/L	1.0	1		12/15/23 07:42	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		12/15/23 07:42	460-00-4	
1,2-Dichloroethane-d4 (S)	122	%	70-130	1		12/15/23 07:42	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		12/15/23 07:42	2037-26-5	

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ANALYTICAL RESULTS

Project: COLLEGE CORNER
Pace Project No.: 92702649

Sample: TMW-10 **Lab ID: 92702649009** Collected: 12/07/23 10:20 Received: 12/08/23 08:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.022	1	12/12/23 10:09	12/12/23 17:48	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	105	%	60-140	1	12/12/23 10:09	12/12/23 17:48	301-79-56	
8260 MSV Low Level SC	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	**591**	ug/L	500	5		12/15/23 10:44	75-85-4	
tert-Amylmethyl ether	ND	ug/L	50.0	5		12/15/23 10:44	994-05-8	
Benzene	**346**	ug/L	5.0	5		12/15/23 10:44	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	500	5		12/15/23 10:44	624-95-3	
tert-Butyl Alcohol	ND	ug/L	500	5		12/15/23 10:44	75-65-0	
tert-Butyl Formate	ND	ug/L	250	5		12/15/23 10:44	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	5		12/15/23 10:44	107-06-2	v1
Diisopropyl ether	**23.1**	ug/L	5.0	5		12/15/23 10:44	108-20-3	
Ethanol	ND	ug/L	1000	5		12/15/23 10:44	64-17-5	
Ethylbenzene	**671**	ug/L	5.0	5		12/15/23 10:44	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	50.0	5		12/15/23 10:44	637-92-3	
Methyl-tert-butyl ether	**50.7**	ug/L	5.0	5		12/15/23 10:44	1634-04-4	
Naphthalene	**232**	ug/L	5.0	5		12/15/23 10:44	91-20-3	
Toluene	**568**	ug/L	5.0	5		12/15/23 10:44	108-88-3	
Xylene (Total)	**1630**	ug/L	5.0	5		12/15/23 10:44	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	5		12/15/23 10:44	460-00-4	
1,2-Dichloroethane-d4 (S)	116	%	70-130	5		12/15/23 10:44	17060-07-0	
Toluene-d8 (S)	102	%	70-130	5		12/15/23 10:44	2037-26-5	

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ANALYTICAL RESULTS

Project: COLLEGE CORNER
Pace Project No.: 92702649

Sample: TMW-11 **Lab ID: 92702649010** Collected: 12/07/23 09:40 Received: 12/08/23 08:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	12/12/23 10:09	12/12/23 18:09	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	88	%	60-140	1	12/12/23 10:09	12/12/23 18:09	301-79-56	
8260 MSV Low Level SC	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	5000	50		12/15/23 09:31	75-85-4	
tert-Amylmethyl ether	ND	ug/L	500	50		12/15/23 09:31	994-05-8	
Benzene	ND	ug/L	50.0	50		12/15/23 09:31	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	5000	50		12/15/23 09:31	624-95-3	
tert-Butyl Alcohol	ND	ug/L	5000	50		12/15/23 09:31	75-65-0	
tert-Butyl Formate	ND	ug/L	2500	50		12/15/23 09:31	762-75-4	
1,2-Dichloroethane	ND	ug/L	50.0	50		12/15/23 09:31	107-06-2	v1
Diisopropyl ether	ND	ug/L	50.0	50		12/15/23 09:31	108-20-3	
Ethanol	ND	ug/L	10000	50		12/15/23 09:31	64-17-5	
Ethylbenzene	**2750**	ug/L	50.0	50		12/15/23 09:31	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	500	50		12/15/23 09:31	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	50.0	50		12/15/23 09:31	1634-04-4	
Naphthalene	**694**	ug/L	50.0	50		12/15/23 09:31	91-20-3	
Toluene	**1630**	ug/L	50.0	50		12/15/23 09:31	108-88-3	
Xylene (Total)	**13600**	ug/L	50.0	50		12/15/23 09:31	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	103	%	70-130	50		12/15/23 09:31	460-00-4	
1,2-Dichloroethane-d4 (S)	118	%	70-130	50		12/15/23 09:31	17060-07-0	
Toluene-d8 (S)	102	%	70-130	50		12/15/23 09:31	2037-26-5	

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ANALYTICAL RESULTS

Project: COLLEGE CORNER
Pace Project No.: 92702649

Sample: TMW-12 **Lab ID: 92702649011** Collected: 12/07/23 12:00 Received: 12/08/23 08:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.021	1	12/12/23 10:09	12/12/23 18:41	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	97	%	60-140	1	12/12/23 10:09	12/12/23 18:41	301-79-56	
8260 MSV Low Level SC	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		12/15/23 08:18	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		12/15/23 08:18	994-05-8	
Benzene	ND	ug/L	1.0	1		12/15/23 08:18	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		12/15/23 08:18	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		12/15/23 08:18	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		12/15/23 08:18	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/15/23 08:18	107-06-2	v1
Diisopropyl ether	ND	ug/L	1.0	1		12/15/23 08:18	108-20-3	
Ethanol	ND	ug/L	200	1		12/15/23 08:18	64-17-5	
Ethylbenzene	ND	ug/L	1.0	1		12/15/23 08:18	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		12/15/23 08:18	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/15/23 08:18	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		12/15/23 08:18	91-20-3	
Toluene	**1.7**	ug/L	1.0	1		12/15/23 08:18	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		12/15/23 08:18	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	1		12/15/23 08:18	460-00-4	
1,2-Dichloroethane-d4 (S)	120	%	70-130	1		12/15/23 08:18	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		12/15/23 08:18	2037-26-5	

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ANALYTICAL RESULTS

Project: COLLEGE CORNER
Pace Project No.: 92702649

Sample: TMW-13 **Lab ID: 92702649012** Collected: 12/07/23 11:05 Received: 12/08/23 08:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.022	1	12/12/23 10:09	12/12/23 18:52	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	104	%	60-140	1	12/12/23 10:09	12/12/23 18:52	301-79-56	
8260 MSV Low Level SC	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		12/15/23 08:00	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		12/15/23 08:00	994-05-8	
Benzene	**1.7**	ug/L	1.0	1		12/15/23 08:00	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		12/15/23 08:00	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		12/15/23 08:00	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		12/15/23 08:00	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/15/23 08:00	107-06-2	v1
Diisopropyl ether	ND	ug/L	1.0	1		12/15/23 08:00	108-20-3	
Ethanol	ND	ug/L	200	1		12/15/23 08:00	64-17-5	
Ethylbenzene	**3.8**	ug/L	1.0	1		12/15/23 08:00	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		12/15/23 08:00	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/15/23 08:00	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		12/15/23 08:00	91-20-3	
Toluene	**5.5**	ug/L	1.0	1		12/15/23 08:00	108-88-3	
Xylene (Total)	**11.6**	ug/L	1.0	1		12/15/23 08:00	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	1		12/15/23 08:00	460-00-4	
1,2-Dichloroethane-d4 (S)	120	%	70-130	1		12/15/23 08:00	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		12/15/23 08:00	2037-26-5	

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QUALITY CONTROL DATA

Project: COLLEGE CORNER
Pace Project No.: 92702649

QC Batch: 818674
QC Batch Method: EPA 8260D
Analysis Method: EPA 8260D
Analysis Description: 8260 MSV Low Level SC
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92702649003, 92702649004, 92702649005

METHOD BLANK: 4237669 Matrix: Water
Associated Lab Samples: 92702649003, 92702649004, 92702649005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	1.0	12/12/23 11:31	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	12/12/23 11:31	
Benzene	ug/L	ND	1.0	12/12/23 11:31	
Diisopropyl ether	ug/L	ND	1.0	12/12/23 11:31	
Ethanol	ug/L	ND	200	12/12/23 11:31	
Ethyl-tert-butyl ether	ug/L	ND	10.0	12/12/23 11:31	
Ethylbenzene	ug/L	ND	1.0	12/12/23 11:31	
Methyl-tert-butyl ether	ug/L	ND	1.0	12/12/23 11:31	
Naphthalene	ug/L	ND	1.0	12/12/23 11:31	
tert-Amyl Alcohol	ug/L	ND	100	12/12/23 11:31	
tert-Amylmethyl ether	ug/L	ND	10.0	12/12/23 11:31	
tert-Butyl Alcohol	ug/L	ND	100	12/12/23 11:31	v2
tert-Butyl Formate	ug/L	ND	50.0	12/12/23 11:31	
Toluene	ug/L	ND	1.0	12/12/23 11:31	
Xylene (Total)	ug/L	ND	1.0	12/12/23 11:31	
1,2-Dichloroethane-d4 (S)	%	86	70-130	12/12/23 11:31	
4-Bromofluorobenzene (S)	%	95	70-130	12/12/23 11:31	
Toluene-d8 (S)	%	96	70-130	12/12/23 11:31	

LABORATORY CONTROL SAMPLE: 4237670

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	17.1	86	70-130	
3,3-Dimethyl-1-Butanol	ug/L	400	348	87	70-130	
Benzene	ug/L	20	18.9	94	70-130	
Diisopropyl ether	ug/L	20	16.7	84	70-130	
Ethanol	ug/L	800	719	90	70-130	
Ethyl-tert-butyl ether	ug/L	40	33.0	82	70-130	
Ethylbenzene	ug/L	20	19.4	97	70-130	
Methyl-tert-butyl ether	ug/L	20	16.8	84	70-130	
Naphthalene	ug/L	20	22.3	111	70-130	
tert-Amyl Alcohol	ug/L	400	368	92	70-130	
tert-Amylmethyl ether	ug/L	40	38.0	95	70-130	
tert-Butyl Alcohol	ug/L	200	156	78	70-130	v3
tert-Butyl Formate	ug/L	160	137	86	70-130	
Toluene	ug/L	20	18.8	94	70-130	
Xylene (Total)	ug/L	60	59.3	99	70-130	
1,2-Dichloroethane-d4 (S)	%			88	70-130	
4-Bromofluorobenzene (S)	%			96	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: COLLEGE CORNER
Pace Project No.: 92702649

LABORATORY CONTROL SAMPLE: 4237670

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE SAMPLE: 4237671

Parameter	Units	92702649003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	24.4	122	70-137	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	496	124	39-157	
Benzene	ug/L	ND	20	25.2	126	70-151	
Diisopropyl ether	ug/L	ND	20	23.2	116	63-144	
Ethanol	ug/L	ND	800	957	120	39-176	
Ethyl-tert-butyl ether	ug/L	ND	40	45.7	114	66-137	
Ethylbenzene	ug/L	ND	20	24.2	121	66-153	
Methyl-tert-butyl ether	ug/L	ND	20	22.8	114	54-156	
Naphthalene	ug/L	ND	20	25.9	129	61-148	
tert-Amyl Alcohol	ug/L	ND	400	498	124	54-153	
tert-Amylmethyl ether	ug/L	ND	40	48.5	121	69-139	
tert-Butyl Alcohol	ug/L	ND	200	224	112	43-188	
tert-Butyl Formate	ug/L	ND	160	101	63	10-170	
Toluene	ug/L	ND	20	25.1	122	59-148	
Xylene (Total)	ug/L	ND	60	74.6	124	63-158	
1,2-Dichloroethane-d4 (S)	%				97	70-130	
4-Bromofluorobenzene (S)	%				100	70-130	
Toluene-d8 (S)	%				101	70-130	

SAMPLE DUPLICATE: 4237672

Parameter	Units	92702649004 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	.47J		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Naphthalene	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	.8J		30	
Xylene (Total)	ug/L	ND	3.7		30	
1,2-Dichloroethane-d4 (S)	%	86	100			
4-Bromofluorobenzene (S)	%	94	100			

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QUALITY CONTROL DATA

Project: COLLEGE CORNER
Pace Project No.: 92702649

SAMPLE DUPLICATE: 4237672

Parameter	Units	92702649004 Result	Dup Result	RPD	Max RPD	Qualifiers
Toluene-d8 (S)	%	95	101			

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QUALITY CONTROL DATA

Project: COLLEGE CORNER
Pace Project No.: 92702649

QC Batch: 819557
QC Batch Method: EPA 8260D
Analysis Method: EPA 8260D
Analysis Description: 8260 MSV Low Level SC
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92702649001, 92702649002, 92702649006, 92702649007, 92702649008, 92702649009, 92702649010, 92702649011, 92702649012

METHOD BLANK: 4242258 Matrix: Water
Associated Lab Samples: 92702649001, 92702649002, 92702649006, 92702649007, 92702649008, 92702649009, 92702649010, 92702649011, 92702649012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	1.0	12/15/23 01:18	v1
3,3-Dimethyl-1-Butanol	ug/L	ND	100	12/15/23 01:18	
Benzene	ug/L	ND	1.0	12/15/23 01:18	
Diisopropyl ether	ug/L	ND	1.0	12/15/23 01:18	
Ethanol	ug/L	ND	200	12/15/23 01:18	
Ethyl-tert-butyl ether	ug/L	ND	10.0	12/15/23 01:18	
Ethylbenzene	ug/L	ND	1.0	12/15/23 01:18	
Methyl-tert-butyl ether	ug/L	ND	1.0	12/15/23 01:18	
Naphthalene	ug/L	ND	1.0	12/15/23 01:18	
tert-Amyl Alcohol	ug/L	ND	100	12/15/23 01:18	
tert-Amylmethyl ether	ug/L	ND	10.0	12/15/23 01:18	
tert-Butyl Alcohol	ug/L	ND	100	12/15/23 01:18	
tert-Butyl Formate	ug/L	ND	50.0	12/15/23 01:18	
Toluene	ug/L	ND	1.0	12/15/23 01:18	
Xylene (Total)	ug/L	ND	1.0	12/15/23 01:18	
1,2-Dichloroethane-d4 (S)	%	119	70-130	12/15/23 01:18	
4-Bromofluorobenzene (S)	%	100	70-130	12/15/23 01:18	
Toluene-d8 (S)	%	99	70-130	12/15/23 01:18	

LABORATORY CONTROL SAMPLE: 4242259

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	24.9	125	70-130	v1
3,3-Dimethyl-1-Butanol	ug/L	400	339	85	70-130	
Benzene	ug/L	20	21.9	109	70-130	
Diisopropyl ether	ug/L	20	23.0	115	70-130	
Ethanol	ug/L	800	902	113	70-130	
Ethyl-tert-butyl ether	ug/L	40	44.6	111	70-130	
Ethylbenzene	ug/L	20	20.8	104	70-130	
Methyl-tert-butyl ether	ug/L	20	21.5	108	70-130	
Naphthalene	ug/L	20	17.5	87	70-130	
tert-Amyl Alcohol	ug/L	400	343	86	70-130	
tert-Amylmethyl ether	ug/L	40	40.2	101	70-130	
tert-Butyl Alcohol	ug/L	200	161	80	70-130	
tert-Butyl Formate	ug/L	160	132	82	70-130	
Toluene	ug/L	20	20.3	102	70-130	
Xylene (Total)	ug/L	60	62.7	104	70-130	

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QUALITY CONTROL DATA

Project: COLLEGE CORNER
Pace Project No.: 92702649

LABORATORY CONTROL SAMPLE: 4242259

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane-d4 (S)	%			120	70-130	
4-Bromofluorobenzene (S)	%			106	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE SAMPLE: 4242260

Parameter	Units	92702614001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	22.0	110	70-137	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	370	92	39-157	
Benzene	ug/L	23.5	20	55.9	162	70-151	M1
Diisopropyl ether	ug/L	2.2	20	24.0	109	63-144	
Ethanol	ug/L	ND	800	1030	129	39-176	
Ethyl-tert-butyl ether	ug/L	ND	40	38.8	97	66-137	
Ethylbenzene	ug/L	ND	20	24.6	121	66-153	
Methyl-tert-butyl ether	ug/L	5.9	20	26.8	104	54-156	
Naphthalene	ug/L	14.5	20	58.4	219	61-148	M1
tert-Amyl Alcohol	ug/L	ND	400	589	147	54-153	
tert-Amylmethyl ether	ug/L	ND	40	43.5	109	69-139	
tert-Butyl Alcohol	ug/L	ND	200	267	123	43-188	v3
tert-Butyl Formate	ug/L	ND	160	ND	10	10-170	v2
Toluene	ug/L	ND	20	21.9	109	59-148	
Xylene (Total)	ug/L	ND	60	72.9	121	63-158	
1,2-Dichloroethane-d4 (S)	%				102	70-130	
4-Bromofluorobenzene (S)	%				97	70-130	
Toluene-d8 (S)	%				95	70-130	

SAMPLE DUPLICATE: 4242261

Parameter	Units	92702614002 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	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Naphthalene	ug/L	1.1	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	v2
tert-Butyl Formate	ug/L	ND	ND		30	v2
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	

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QUALITY CONTROL DATA

Project: COLLEGE CORNER
Pace Project No.: 92702649

SAMPLE DUPLICATE: 4242261

Parameter	Units	92702614002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane-d4 (S)	%	120	105			
4-Bromofluorobenzene (S)	%	99	95			
Toluene-d8 (S)	%	101	96			

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QUALITY CONTROL DATA

Project: COLLEGE CORNER
Pace Project No.: 92702649

QC Batch: 818591
QC Batch Method: EPA 8011
Analysis Method: EPA 8011
Analysis Description: GCS 8011 EDB DBCP
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92702649001

METHOD BLANK: 4237268 Matrix: Water
Associated Lab Samples: 92702649001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.021	12/11/23 20:13	
1-Chloro-2-bromopropane (S)	%	121	60-140	12/11/23 20:13	

LABORATORY CONTROL SAMPLE & LCSD: 4237269 4237270

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.26	0.37	0.37	146	147	60-140	0	20	L1
1-Chloro-2-bromopropane (S)	%				135	135	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4237271 4237272

Parameter	Units	92701296019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	0.26	0.26	0.37	0.38	142	145	60-140	3	20	M0
1-Chloro-2-bromopropane (S)	%						126	130	60-140			

SAMPLE DUPLICATE: 4237273

Parameter	Units	92701296022 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	131	128			

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QUALITY CONTROL DATA

Project: COLLEGE CORNER
Pace Project No.: 92702649

QC Batch: 818816
QC Batch Method: EPA 8011
Analysis Method: EPA 8011
Analysis Description: GCS 8011 EDB DBCP
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92702649002, 92702649003, 92702649004, 92702649005, 92702649006, 92702649007, 92702649008

METHOD BLANK: 4238401 Matrix: Water
Associated Lab Samples: 92702649002, 92702649003, 92702649004, 92702649005, 92702649006, 92702649007, 92702649008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	12/12/23 12:28	
1-Chloro-2-bromopropane (S)	%	83	60-140	12/12/23 12:28	

LABORATORY CONTROL SAMPLE & LCSD: 4238402 4238403

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.25	0.27	0.30	110	121	60-140	10	20	
1-Chloro-2-bromopropane (S)	%				106	116	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4238405 4238406

Parameter	Units	92702559006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	0.25	0.25	0.26	0.27	104	109	60-140	5	20	
1-Chloro-2-bromopropane (S)	%						111	108	60-140			

SAMPLE DUPLICATE: 4238404

Parameter	Units	92702559005 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	99	101			

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QUALITY CONTROL DATA

Project: COLLEGE CORNER
Pace Project No.: 92702649

QC Batch: 818817
QC Batch Method: EPA 8011
Analysis Method: EPA 8011
Analysis Description: GCS 8011 EDB DBCP
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92702649009, 92702649010, 92702649011, 92702649012

METHOD BLANK: 4238407 Matrix: Water
Associated Lab Samples: 92702649009, 92702649010, 92702649011, 92702649012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	12/12/23 17:16	
1-Chloro-2-bromopropane (S)	%	102	60-140	12/12/23 17:16	

LABORATORY CONTROL SAMPLE & LCSD: 4238408 4238409

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.25	0.27	0.26	108	103	60-140	5	20	
1-Chloro-2-bromopropane (S)	%				104	102	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4238411 4238412

Parameter	Units	92702649010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	0.25	0.25	0.30	0.30	120	120	60-140	0	20	
1-Chloro-2-bromopropane (S)	%						96	103	60-140			

SAMPLE DUPLICATE: 4238410

Parameter	Units	92702649009 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	105	101			

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QUALIFIERS

Project: COLLEGE CORNER
Pace Project No.: 92702649

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
v1	The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.
v2	The continuing calibration verification was below the method acceptance limit. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.
v3	The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have low bias.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: COLLEGE CORNER
Pace Project No.: 92702649

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92702649001	TMW-1	EPA 8011	818591	EPA 8011	818732
92702649002	TMW-2	EPA 8011	818816	EPA 8011	818926
92702649003	TMW-3	EPA 8011	818816	EPA 8011	818926
92702649004	TMW-4	EPA 8011	818816	EPA 8011	818926
92702649005	TMW-5	EPA 8011	818816	EPA 8011	818926
92702649006	TMW-7	EPA 8011	818816	EPA 8011	818926
92702649007	TMW-8	EPA 8011	818816	EPA 8011	818926
92702649008	TMW-9	EPA 8011	818816	EPA 8011	818926
92702649009	TMW-10	EPA 8011	818817	EPA 8011	818927
92702649010	TMW-11	EPA 8011	818817	EPA 8011	818927
92702649011	TMW-12	EPA 8011	818817	EPA 8011	818927
92702649012	TMW-13	EPA 8011	818817	EPA 8011	818927
92702649001	TMW-1	EPA 8260D	819557		
92702649002	TMW-2	EPA 8260D	819557		
92702649003	TMW-3	EPA 8260D	818674		
92702649004	TMW-4	EPA 8260D	818674		
92702649005	TMW-5	EPA 8260D	818674		
92702649006	TMW-7	EPA 8260D	819557		
92702649007	TMW-8	EPA 8260D	819557		
92702649008	TMW-9	EPA 8260D	819557		
92702649009	TMW-10	EPA 8260D	819557		
92702649010	TMW-11	EPA 8260D	819557		
92702649011	TMW-12	EPA 8260D	819557		
92702649012	TMW-13	EPA 8260D	819557		

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

Sample Condition Upon Receipt

Client Name: ARM

Project #: WO# : 92702649

92702649

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

Custody Seal Present? ☐ Yes ☒ No **Seals Intact?** ☐ Yes ☑ No ☐ N/A

Date/Initials Person Examining Contents: 12/18/23

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

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

Thermometer: ☐ IR Gun ID: 92702

Type of Ice: ☐ Wet ☐ Blue ☐ None

Cooler Temp: 3.0 **Correction Factor:** Add/Subtract (°C) -0.1

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

Cooler Temp Corrected (°C): 2.9

USDA Regulated Soil (☑ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☒ No

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

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

***Check all unpreserved Nitrates for chlorine

Project #

WO# : 92702649

PM: AMB Due Date: 12/15/23

CLIENT: 92-ARM

(1)

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (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)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1																5													
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11																													
12																													

pH Adjustment Log for Preserved Samples

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

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

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

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

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

***Check all unpreserved Nitrates for chlorine

Project #

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (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)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1	\				\	\	\	\			\		\	\	\	5									\	\			
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3	\				\	\	\	\			\		\	\	\	5									\	\			
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6	\				\	\	\	\			\		\	\	\										\	\			
7	\				\	\	\	\			\		\	\	\										\	\			
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11	\				\	\	\	\			\		\	\	\										\	\			
12	\				\	\	\	\			\		\	\	\										\	\			

pH Adjustment Log for Preserved Samples

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

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

ARM ENVIRONMENTAL SERVICES

CHAIN OF CUSTODY RECORD

PAGE 1 OF 2

1210 1st STREET SOUTH EXTENSION COLUMBIA, SOUTH CAROLINA 29209 PHONE: 803-783-3314 FAX: 803-783-2587

Project #	Preservative 2. NaOH 5. HCl 3. H_2SO_4 6. $Na_2S_2O_3$ 1. Unpreserved 4. HNO_3 7. 5035 Kit	3	2	1								# of Containers
33-3010.1-23		5	5	4								Preservative
Project Name: College Corner	Laboratory Utilized: Pace Analytical LLC											
Sampler Name (print): Paul Myers	Sampler Signature: [signature]											92702649

Sample ID / Description	Date	Time	G = Grab C = Composite	Matrix S, GW, DW, DI, Other	BTEX+N+M+DCA+Oxy by 8260D	EDB by 8011	Total Lead by 6010D	Remarks
TMW-1	12/05/23	09:54	G	GW	X	X		001
TMW-2	12/05/23	12:30	G	GW	X	X		002
TMW-3	12/05/23	13:40	G	GW	X	X		003
TMW-4	12/05/23	15:00	G	GW	X	X		004
TMW-5	12/06/23	10:50	G	GW	X	X		005
TMW-7	12/06/23	12:40	G	GW	X	X		006
TMW-8	12/06/23	13:00	G	GW	X	X		007
TMW-9	12/06/23	14:30	G	GW	X	X		008
TMW-10	12/07/23	10:20	G	GW	X	X		009
TMW-11	12/07/23	09:40	G	GW	X	X		010

Relinquished by / Sampler	Date	Time	Received by	Date	Time	Project Manager
[signature]	12/7	16:13	[signature]	12/7/23	1613	Joseph Goings
Relinquished by: [signature]	Date 12/7/23	Time 1613	Received by: mt Pace HVL	Date 12/8/23	Time 800	P.O. Number
Relinquished by	Date	Time	Received by	Date	Time	

CHAIN OF CUSTODY RECORD

PAGE 2 OF 2

ARM ENVIRONMENTAL SERVICES
1210 1st STREET SOUTH EXTENSION COLUMBIA, SOUTH CAROLINA 29209 PHONE: 803-783-3314 FAX: 803-783-2587

Project #	Preservative 2. NaOH 5. HCl 3. H_2SO_4 6. $Na_2S_2O_3$ 1. Unpreserved 4. HNO_3 7. 5035 Kit														# of Containers
33-3010.1-23					3	2	1								Preservative
Project Name	Laboratory Utilized				5	5	4								
College Corner	Pace Analytical LLC														
Sampler Name (print)	Sampler Signature														907026049
Paul Myers															

Sample ID / Description	Date	Time	G = Grab C = Composite	Matrix S, GW, DW, DI, Other	BTEX+N+M+DCA+Oxy by 8260D	EDB by 8011	Total Lead by 6010D							Remarks
TMW-12	12/07/23	1200	G	GW	X	X									011
TMW-13	12/07/23	1105	G	GW	X	X									012

Relinquished by / Sampler	Date	Time	Received by	Date	Time	Project Manager
	12/7	16:13		12/7/23	1613	Joseph Goings
Relinquished by	Date	Time	Received by	Date	Time	P.O. Number
	12/7/23	1613	Pace Hub	12/8/23	800	
Relinquished by	Date	Time	Received by	Date	Time	

APPENDIX C
NOT INCLUDED