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

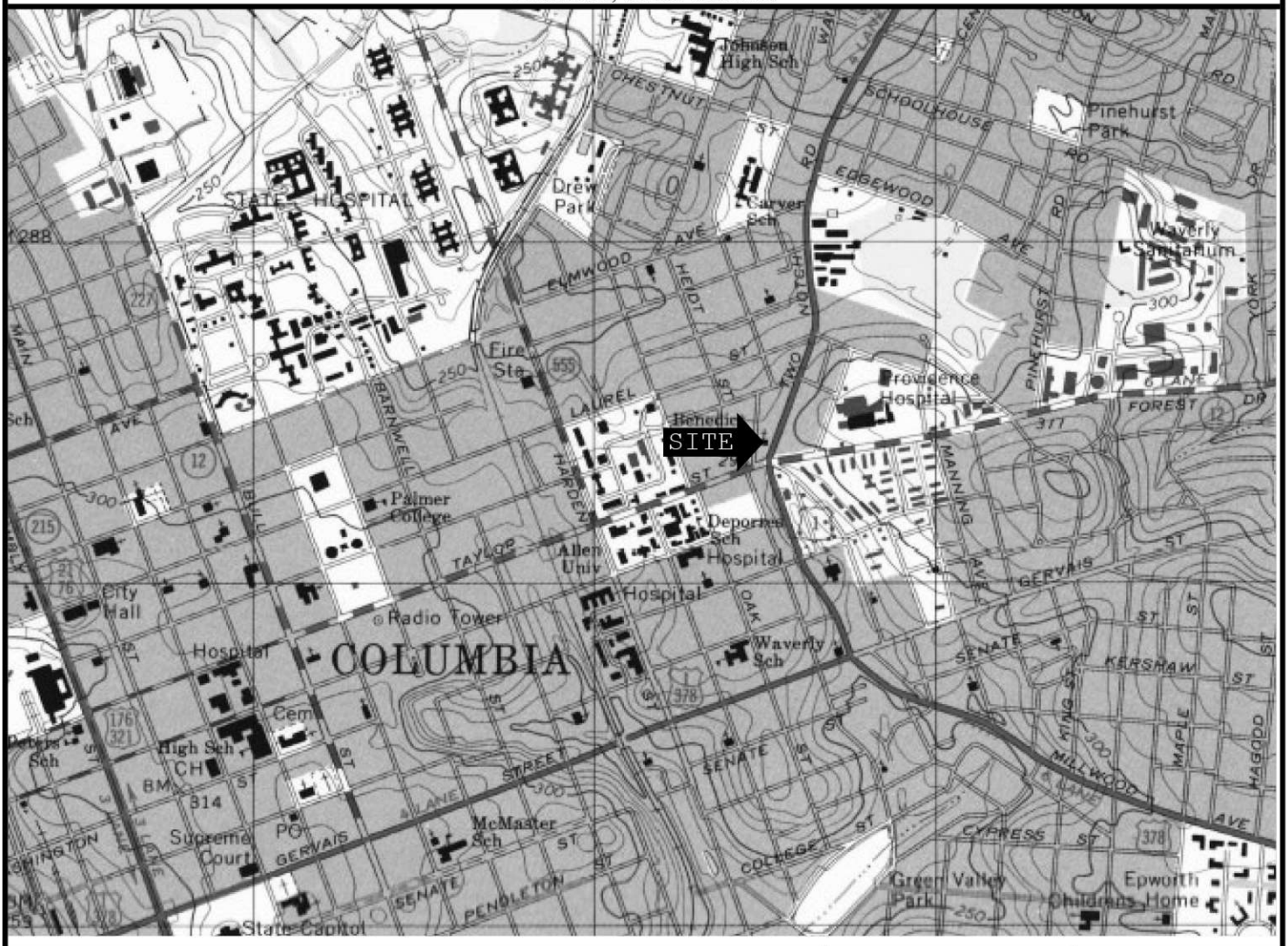
Initial>SSTL	421858.00
Subsequent>SSTL	270088.20
COC Reduction	35.98%

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

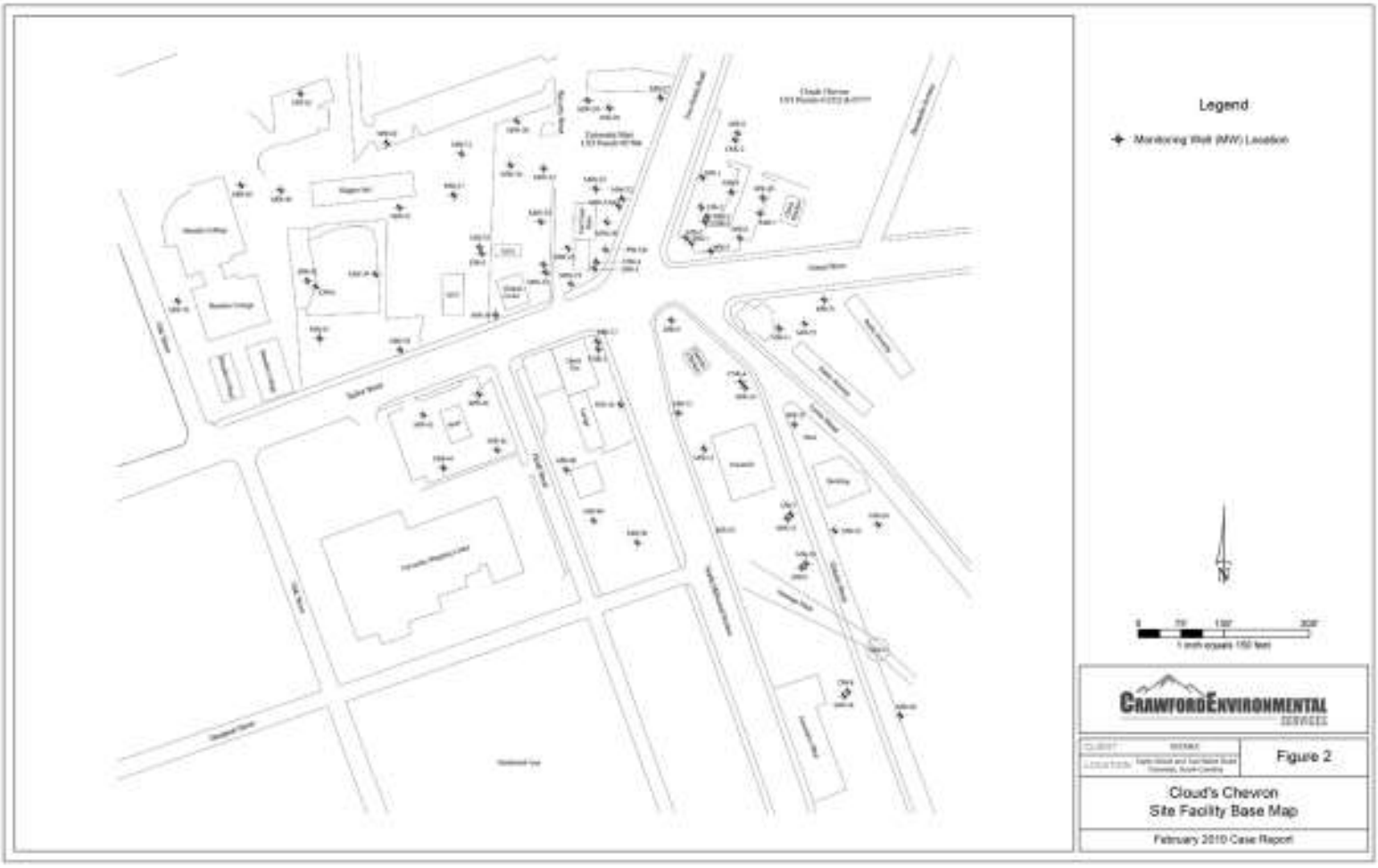
Source: U.S.G.S. Topographic Map of the Columbia North Quadrangle, Virginia, 7.5 Minute Series (1977, revised 1988)
Scale: 1:24,000 Contour Interval: 20 Feet
Vertical Datum: National Geodetic Vertical Datum 1929
Horizontal Datum: North American Datum1927

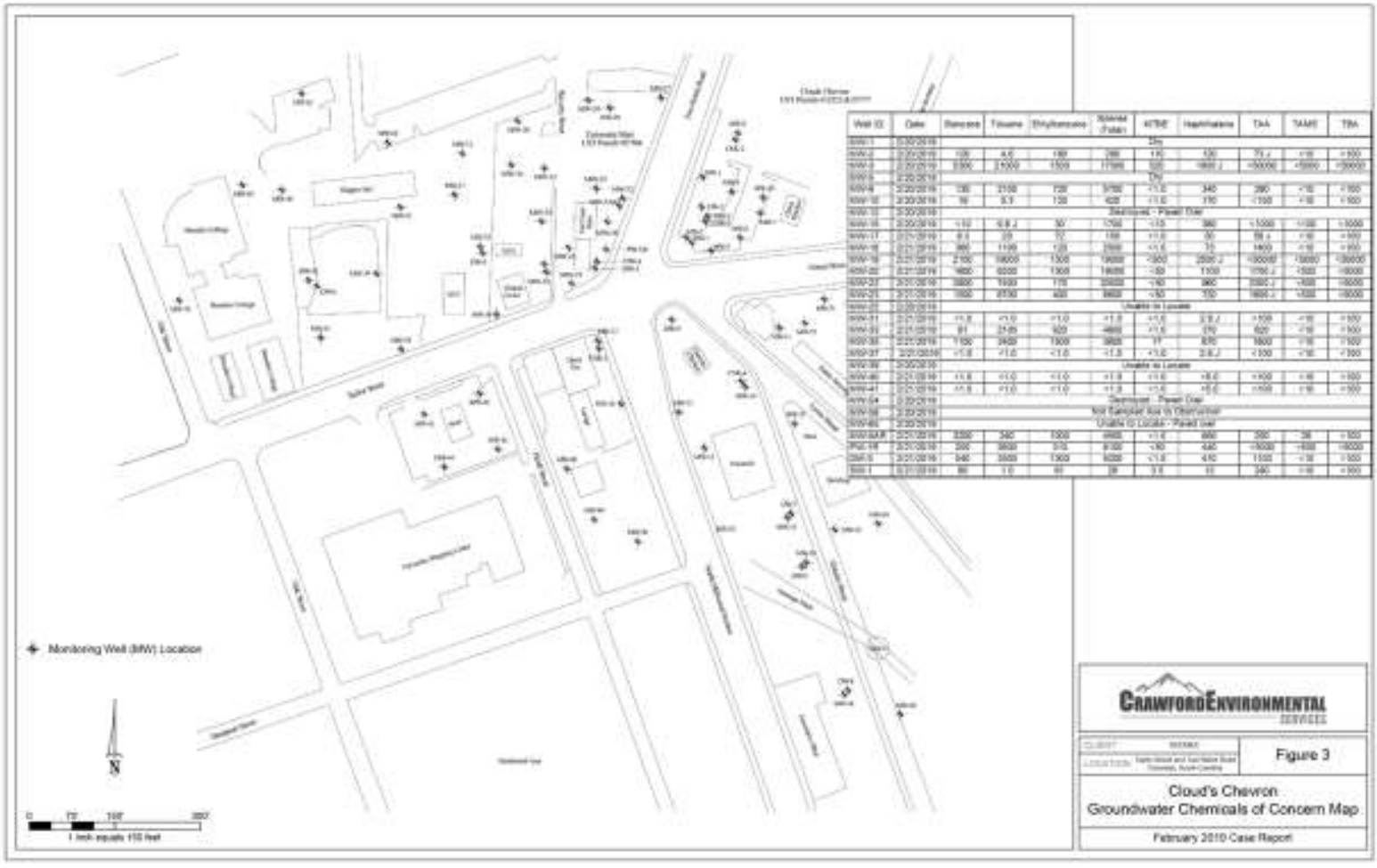
Project: February 2019 CASE Report

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

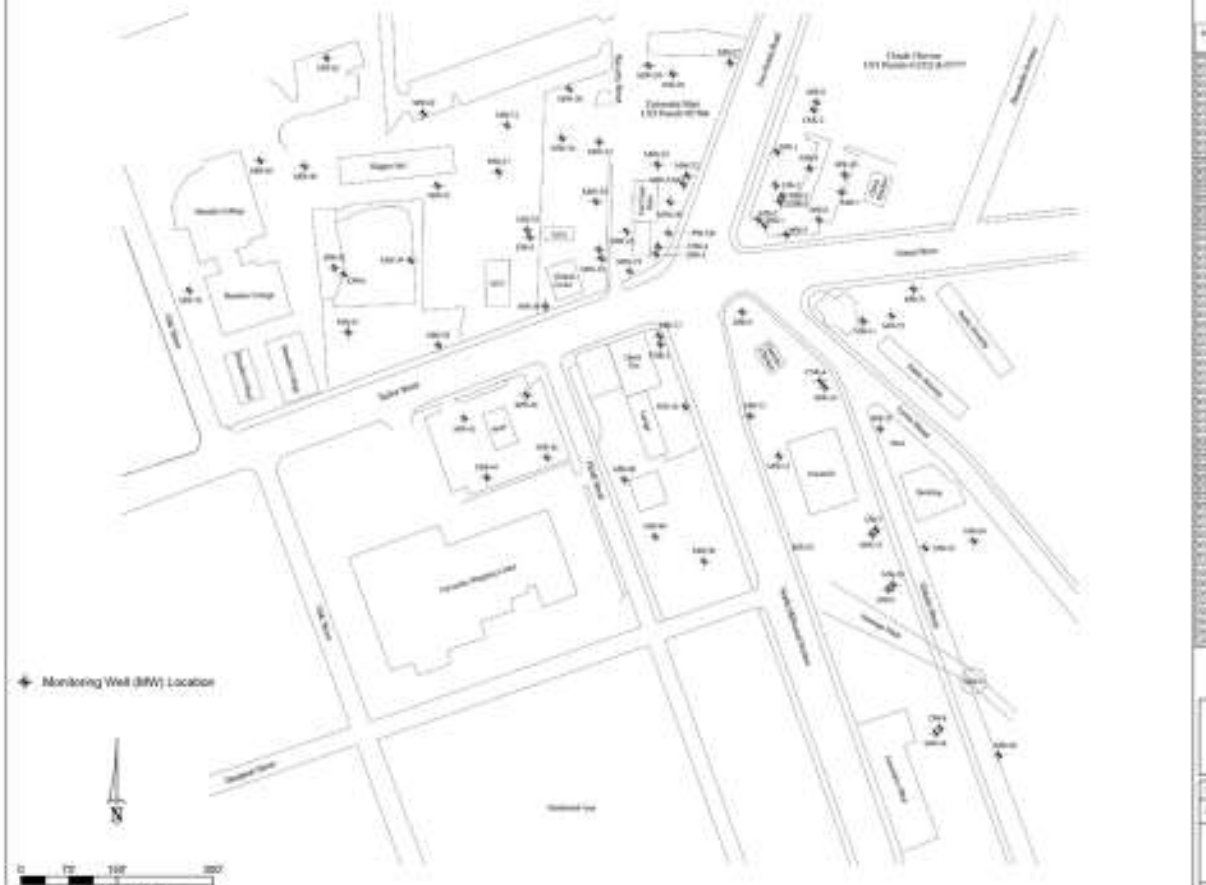
CLIENT: Cloud's Chevron

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 >>								
	mw22	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: _____

_____

_____

_____ 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 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
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

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-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

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-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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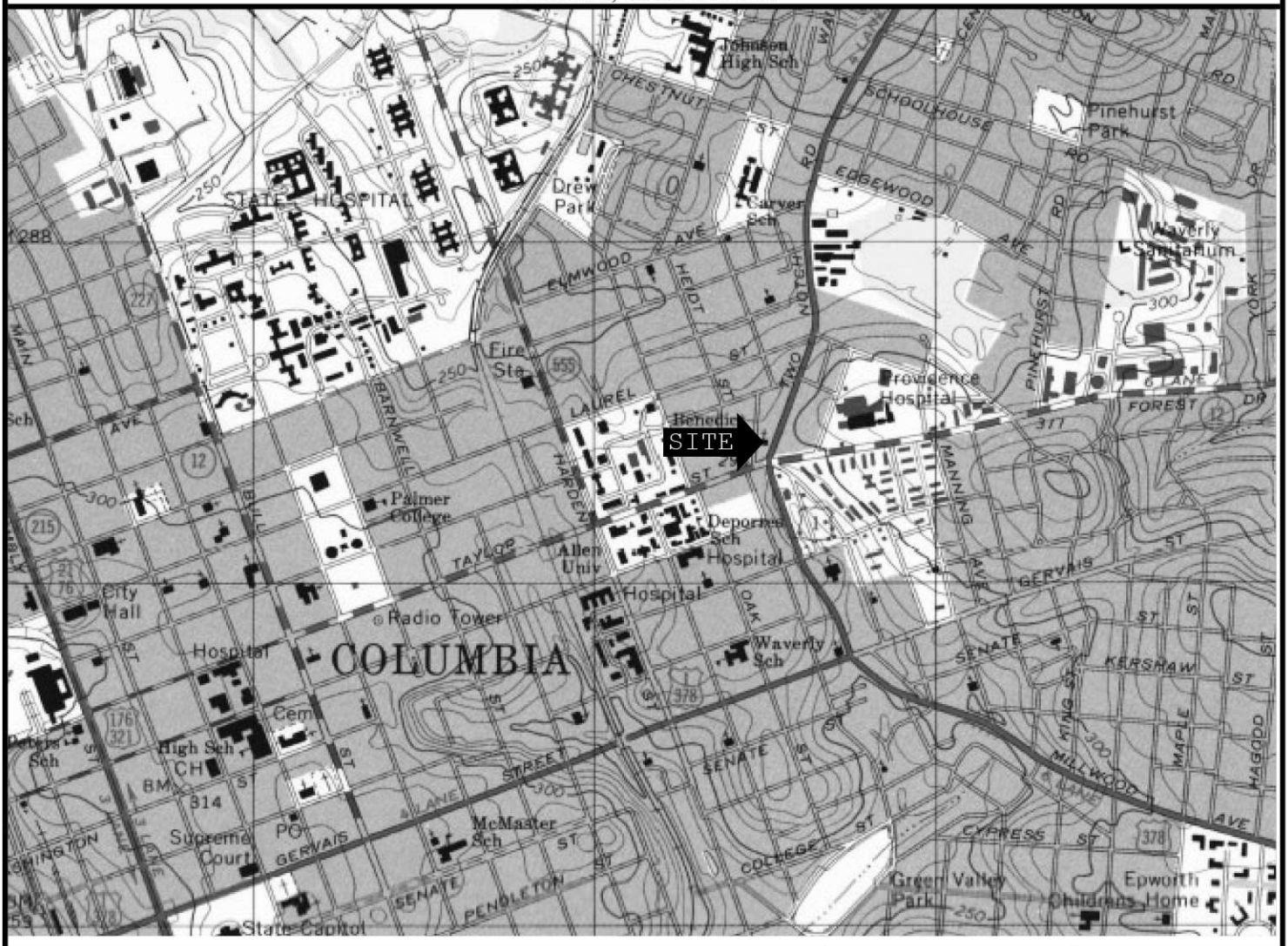
Initial>SSTL	421888.00
Subsequent>SSTL	100191.20
COC Reduction	76.26%

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

1701 Shenandoah Avenue, NW
Roanoke Virginia, 24017

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

NORTH COLUMBIA, SOUTH CAROLINA

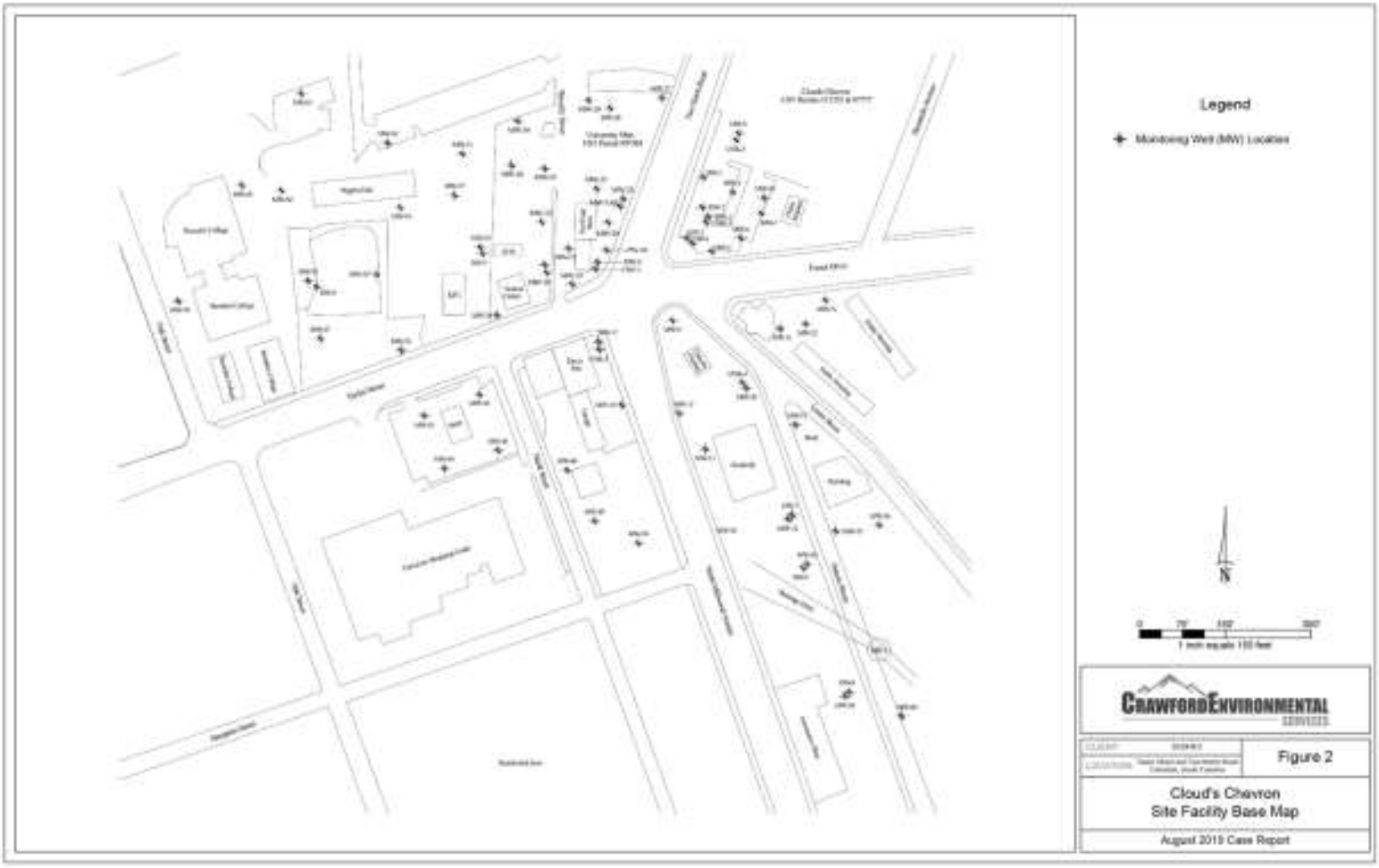
Source: U.S.G.S. Topographic Map of the Columbia North Quadrangle, Virginia, 7.5 Minute Series (1977, revised 1988)
Scale: 1:24,000 Contour Interval: 20 Feet
Vertical Datum: National Geodetic Vertical Datum 1929
Horizontal Datum: North American Datum1927

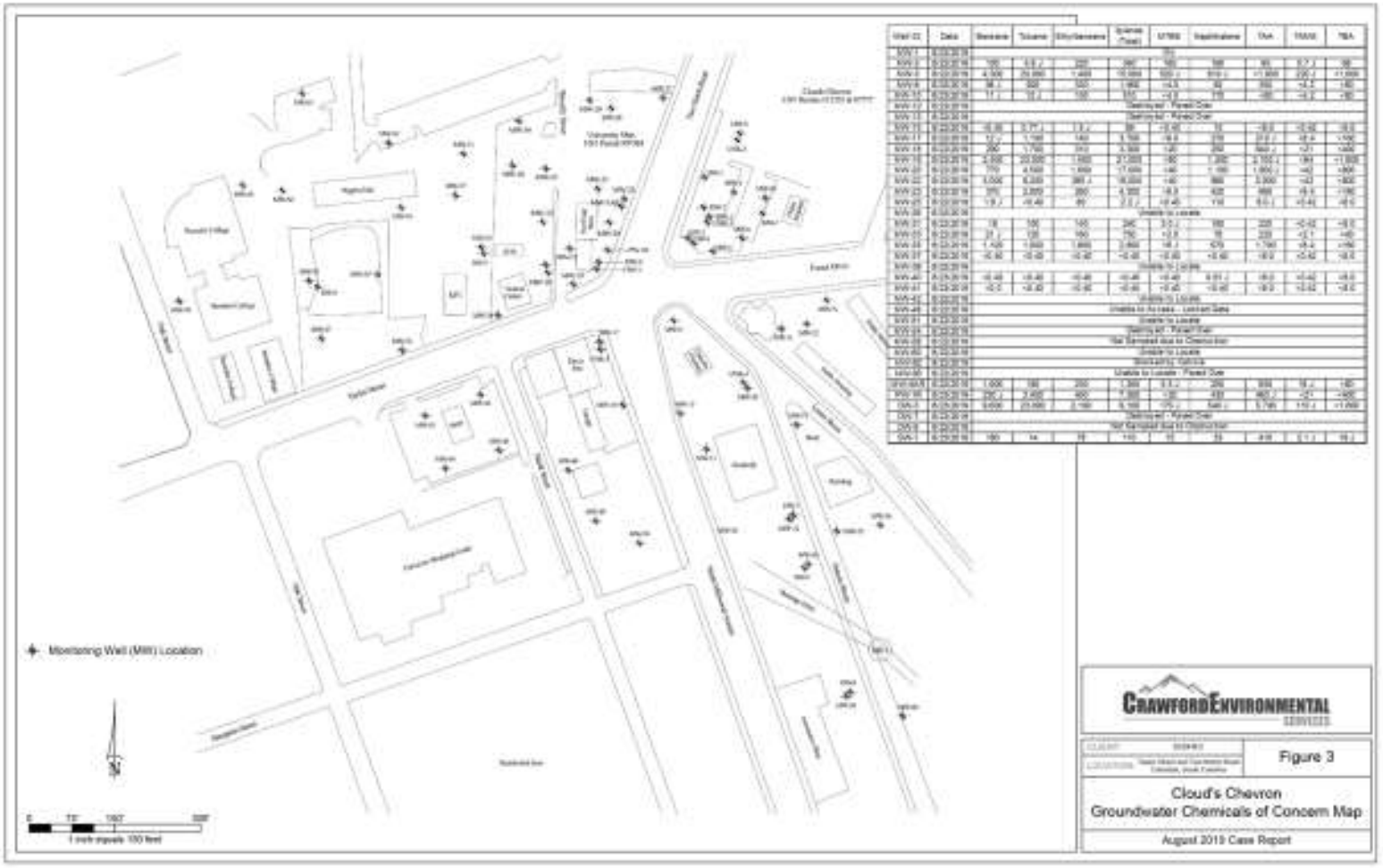
Project: August 2019 CASE Report

Client: SCDHEC

CES Job #: 7.0547

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


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

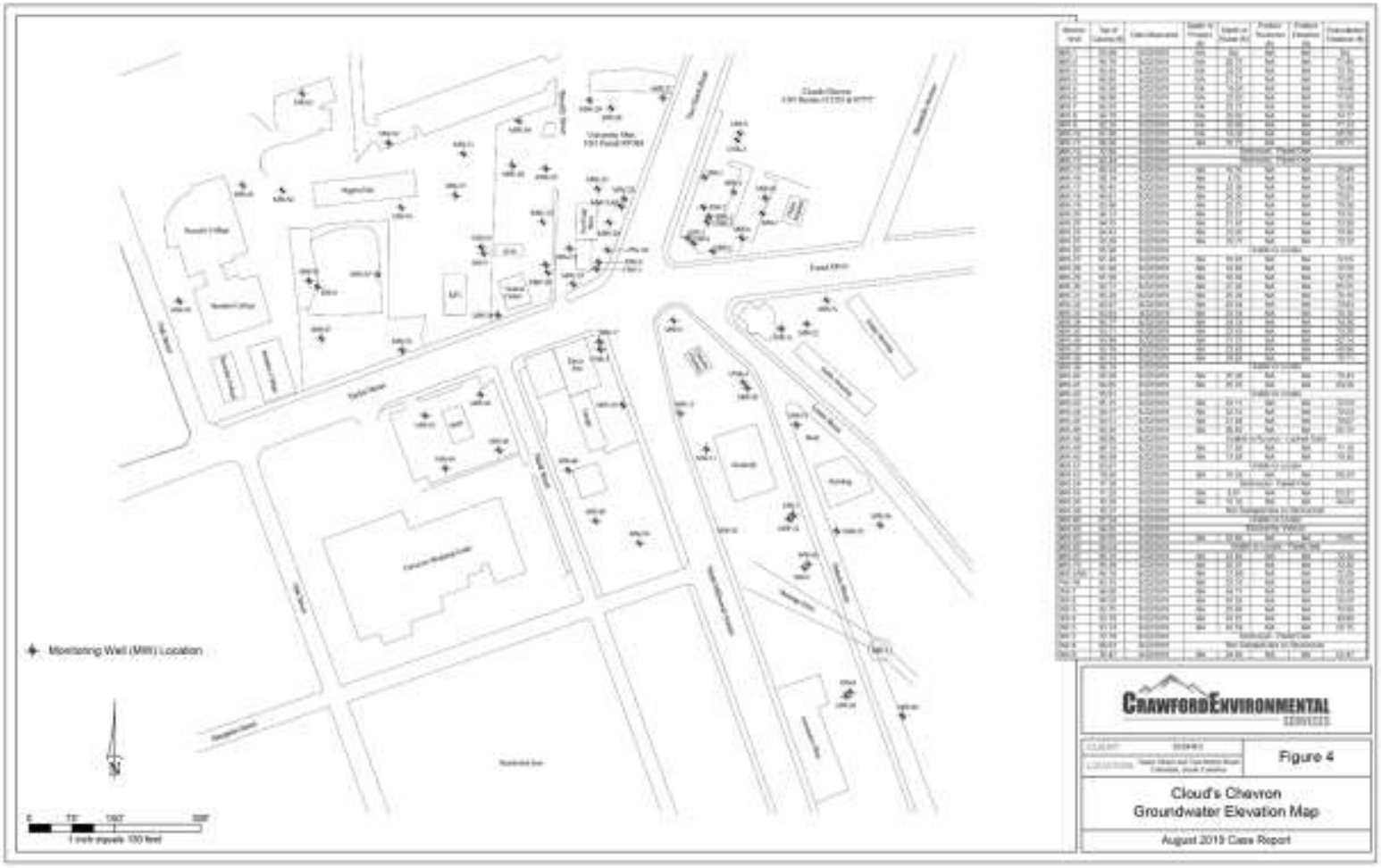
CLIENT: Chevron

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 Recovered	Product Elevation (ft)	Groundwater Elevation (ft)
MW-1	96.58	8/27/2019	n/a	20.70	n/a	n/a	75.88
MW-2	96.39	8/27/2019	n/a	20.51	n/a	n/a	75.88
MW-3	96.62	8/27/2019	n/a	20.74	n/a	n/a	75.88
MW-4	96.62	8/27/2019	n/a	20.74	n/a	n/a	75.88
MW-5	96.58	8/27/2019	n/a	20.70	n/a	n/a	75.88
MW-6	96.58	8/27/2019	n/a	20.70	n/a	n/a	75.88
MW-7	96.58	8/27/2019	n/a	20.70	n/a	n/a	75.88
MW-8	96.58	8/27/2019	n/a	20.70	n/a	n/a	75.88
MW-9	96.58	8/27/2019	n/a	20.70	n/a	n/a	75.88
MW-10	96.58	8/27/2019	n/a	20.70	n/a	n/a	75.88
MW-11	96.58	8/27/2019	n/a	20.70	n/a	n/a	75.88
MW-12	96.58	8/27/2019	n/a	20.70	n/a	n/a	75.88
MW-13	96.58	8/27/2019	n/a	20.70	n/a	n/a	75.88
MW-14	96.58	8/27/2019	n/a	20.70	n/a	n/a	75.88
MW-15	96.58	8/27/2019	n/a	20.70	n/a	n/a	75.88
MW-16	96.58	8/27/2019	n/a	20.70	n/a	n/a	75.88
MW-17	96.58	8/27/2019	n/a	20.70	n/a	n/a	75.88
MW-18	96.58	8/27/2019	n/a	20.70	n/a	n/a	75.88
MW-19	96.58	8/27/2019	n/a	20.70	n/a	n/a	75.88
MW-20	96.58	8/27/2019	n/a	20.70	n/a	n/a	75.88
MW-21	96.58	8/27/2019	n/a	20.70	n/a	n/a	75.88
MW-22	96.58	8/27/2019	n/a	20.70	n/a	n/a	75.88
MW-23	96.58	8/27/2019	n/a	20.70	n/a	n/a	75.88
MW-24	96.58	8/27/2019	n/a	20.70	n/a	n/a	75.88
MW-25	96.58	8/27/2019	n/a	20.70	n/a	n/a	75.88
MW-26	96.58	8/27/2019	n/a	20.70	n/a	n/a	75.88
MW-27	96.58	8/27/2019	n/a	20.70	n/a	n/a	75.88
MW-28	96.58	8/27/2019	n/a	20.70	n/a	n/a	75.88
MW-29	96.58	8/27/2019	n/a	20.70	n/a	n/a	75.88
MW-30	96.58	8/27/2019	n/a	20.70	n/a	n/a	75.88
MW-31	96.58	8/27/2019	n/a	20.70	n/a	n/a	75.88
MW-32	96.58	8/27/2019	n/a	20.70	n/a	n/a	75.88
MW-33	96.58	8/27/2019	n/a	20.70	n/a	n/a	75.88
MW-34	96.58	8/27/2019	n/a	20.70	n/a	n/a	75.88
MW-35	96.58	8/27/2019	n/a	20.70	n/a	n/a	75.88
MW-36	96.58	8/27/2019	n/a	20.70	n/a	n/a	75.88
MW-37	96.58	8/27/2019	n/a	20.70	n/a	n/a	75.88
MW-38	96.58	8/27/2019	n/a	20.70	n/a	n/a	75.88
MW-39	96.58	8/27/2019	n/a	20.70	n/a	n/a	75.88
MW-40	96.58	8/27/2019	n/a	20.70	n/a	n/a	75.88
MW-41	96.58	8/27/2019	n/a	20.70	n/a	n/a	75.88
MW-42	96.58	8/27/2019	n/a	20.70	n/a	n/a	75.88
MW-43	96.58	8/27/2019	n/a	20.70	n/a	n/a	75.88
MW-44	96.58	8/27/2019	n/a	20.70	n/a	n/a	75.88
MW-45	96.58	8/27/2019	n/a	20.70	n/a	n/a	75.88
MW-46	96.58	8/27/2019	n/a	20.70	n/a	n/a	75.88
MW-47	96.58	8/27/2019	n/a	20.70	n/a	n/a	75.88
MW-48	96.58	8/27/2019	n/a	20.70	n/a	n/a	75.88
MW-49	96.58	8/27/2019	n/a	20.70	n/a	n/a	75.88
MW-50	96.58	8/27/2019	n/a	20.70	n/a	n/a	75.88
MW-51	96.58	8/27/2019	n/a	20.70	n/a	n/a	75.88
MW-52	96.58	8/27/2019	n/a	20.70	n/a	n/a	75.88
MW-53	96.58	8/27/2019	n/a	20.70	n/a	n/a	75.88
MW-54	96.58	8/27/2019	n/a	20.70	n/a	n/a	75.88
MW-55	96.58	8/27/2019	n/a	20.70	n/a	n/a	75.88
MW-56	96.58	8/27/2019	n/a	20.70	n/a	n/a	75.88
MW-57	96.58	8/27/2019	n/a	20.70	n/a	n/a	75.88
MW-58	96.58	8/27/2019	n/a	20.70	n/a	n/a	75.88
MW-59	96.58	8/27/2019	n/a	20.70	n/a	n/a	75.88
MW-60	96.58	8/27/2019	n/a	20.70	n/a	n/a	75.88
MW-61	96.58	8/27/2019	n/a	20.70	n/a	n/a	75.88
MW-62	96.58	8/27/2019	n/a	20.70	n/a	n/a	75.88
MW-63	96.58	8/27/2019	n/a	20.70	n/a	n/a	75.88
MW-64	96.58	8/27/2019	n/a	20.70	n/a	n/a	75.88
MW-65	96.58	8/27/2019	n/a	20.70	n/a	n/a	75.88
MW-66	96.58	8/27/2019	n/a	20.70	n/a	n/a	75.88
MW-67	96.58	8/27/2019	n/a	20.70	n/a	n/a	75.88
MW-68	96.58	8/27/2019	n/a	20.70	n/a	n/a	75.88
MW-69	96.58	8/27/2019	n/a	20.70	n/a	n/a	75.88
MW-70	96.58	8/27/2019	n/a	20.70	n/a	n/a	75.88
MW-71	96.58	8/27/2019	n/a	20.70	n/a	n/a	75.88
MW-72	96.58	8/27/2019	n/a	20.70	n/a	n/a	75.88
MW-73	96.58	8/27/2019	n/a	20.70	n/a	n/a	75.88

CRAWFORD ENVIRONMENTAL SERVICES

CLIENT: [redacted]

LOCATION: [redacted]

Figure 4

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	Gr/Grab Co/Composite	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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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

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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

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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

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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

Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

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

Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

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

Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Chain of Custody
and
Miscellaneous Documents

SHEALY ENVIRONMENTAL SERVICES, INC.
106 Vantage Point Drive • West Columbia, SC 29172
Telephone No. 803-791-9700 Fax No. 803-791-9111
www.shealylab.com

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 Agueous	No of Containers by Preservative Type: Organic	No of Containers by Preservative Type: Unpres.	No of Containers by Preservative Type: H2SO4	No of Containers by Preservative Type: HCl	No of Containers by Preservative Type: NaOH	No of Containers by Preservative Type: ZnAc/NaOH	BTEX / MTBE / 2-Pr / DIW Time TBA 8260B	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.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

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: Clouds 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

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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.

UST DOCKETING

SEP 2 3 2019

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

Re: **Corrective Action System Evaluation 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 September 05, 2019
Richland County

Dear: Mr. Crawford

The Underground Storage Tank Management Division (UST Division) of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed the referenced Corrective Action System Evaluation (CASE) report documenting the corrective action activities and the groundwater sampling event. The CASE report has documented 76.25% Chemical of Concern (CoC) reduction. However, the UST Division was unable to calculate a CoC reduction due to Site Specific Target Level (SSTL) wells MW-5, MW-12, MW-39, MW-54, MW-58 and MW-65 not being sampled in this event.

The UST Division would like to provide you with the following comments on the CASE report:

- The UST Division will attempt to locate MW-39 before the next sampling event. MW-12, MW-54, MW-58, and MW-65 will be replaced by the DHEC state lead contractor. These replacement wells should be utilized as the new SSTL wells in future sampling events.
- In Crawford's revised CAPA, it was stated that Chemical and Biological Injection events would occur on May 15, 2019 and August 15, 2019. In the CASE Report received, there is no indication whether or not these events occurred. Crawford should include a summary of injection activities in future CASE Reports.
- Prior to mobilization for sampling, Crawford should attempt to notify property owners so that access to wells behind locked gates may be allowed and the full network can be properly sampled.

Please address these comments during the next reporting period.

The next semi-annual CASE report is due on or before December 15, 2019.

dhec
Healthy People. Healthy Communities.

On all correspondence regarding this site, please reference UST Permit numbers above. If you have any questions regarding this correspondence, please contact me by telephone at (803) 898-0605, by fax at (803) 898-0673, or by e-mail at baldwiba@dhec.sc.gov.

Sincerely,

Brad Baldwin, 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
Adam Looper, UST Management Division
Technical File

dhec

Underground Storage Tank Management Division
Field Activity Request Form

Date of Request: 02/19/20

Type of Request (Check one):
- ☐ Emergency (<2 Working Days)
- ☑ Specific (1-5 Working Days)
- ☐ Routine (10 Working Days)

UST 212 Tech DOCKETING

Please specify type of work to be completed:

Site ID #: 07777

Site Name: [redacted] Handy Pantry (Cloud 9 Chevron)

Site Address: 1600 Two Notch Road

County: Richland

Project Manager: B. Baldwin

Remember to Establish Cost Proposals

PACE CA#: 61245 PACE PO#: 4600750104

Field Staff Information:

Date Field Activity Completed: 2/21/20

Completed By: C. White

Date Field Notes Entered into EFIS: 2/24/20

Notes: Sample drainage ditch in two locations for BTEXNMDCA+OXYS+ETH(8260B). 1 DUP + 1 FB

1 + DUP 950 / 945

SW2 1000

FB 1005

dhec

Underground Storage Tank Management Division
Field Data Information Sheet – Groundwater Sampling

Site Information

Date: 02/21/2020	Site ID #: 07777	Site Name: Handy Pantry
County: Richland	Project Manager: B. Baldwin	Field Personnel: C. White

Well Sampling Information

Well ID	Time	Sampled Y/N	Screen Interval (ft.)	Depth to Product (ft.)	Depth to Water (ft.)	Product Thickness (ft.)	D.O. (mg/L)	Temp. (°C)	Specific Conductivity (µmohs/cm)	pH (S.U.)	Turbidity (NTU)	Notes (e.g., Odor, No Odor, Product, etc.)
SW-1	0945	Y		N/A	N/A							
DUP	0950	Y		N/A	--							
SW-2	1000	Y		N/A	N/A							
F. Blank	1005	Y		--	--							
T. Blank	--	Y		--	--							

Comments: _____

Signature: _____

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

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: SC DHEC	Billing Information:
Address: 2600 Bull St Columbia	
Report To: Robert Dunn	Email To: dunnra@dhec.sc.gov
Copy To:	Site Collection Info/Address:
Customer Project Name/Number: Handy Pantry	State: SC / County/City: Richland / Time Zone Collected: [ ] PT [ ] MT [ ] CT [✓] ET
Phone: (803) 898 0671 / Email:	Site/Facility ID #: 01777 / Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): C. White	Purchase Order #: 4600150104 / Quote #: CA# 61245 / 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 ** | 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: 8260B OXY; 8011 EDB

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 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	8260B OXY	8011 EDB
SW-1	GW	G	2/21/20	945				6	X	X
SW-2	↓	↓	↓	1000				6	X	X
DUP	↓	↓	↓	950				6	X	X
FB *	↓	↓	↓	1005				6	X	X
TB	↓	↓	2/21/20	—				2	X	

Customer Remarks / Special Conditions / Possible Hazards: Report + J values

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2428706

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: _____
Cooler 1 Temp Upon Receipt: _____oC
Cooler 1 Therm Corr. Factor: _____oC
Cooler 1 Corrected Temp: _____oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
DHEC	2/21/20		
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
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, LLC
1800 Elm Street SE
Minneapolis, MN 55414
Phone: 612-607-6400

Pace Analytical®

Instructions for completing Chain of Custody (COC)

1. Complete all client information at the top left of the sheet: Company name, address, phone/fax, contact (the person to contact if there are questions, and who will receive the final report), e-mail address (if available), PO#, Project Name and/or Project Number as you would like it to appear on the report.

2. Billing Information: name and address of the person who is receiving the invoice

3. Site Collection Information: A separate COC must be filled out for each day of sample collection. Record the 2 letter postal code for the US state where samples were collected as well as the county/city and time zone.

4. Regulatory Agency: List the program that is guiding the work to ensure proper regulations are followed in the customer remarks section.

5. Quote #: should be completed if a quote was provided by Pace Analytical.

6. Mark if the sample was filtered in the in the field by marking Y or N in the "Field Filtered" box.

7. The sampler should print and sign their name in the spaces provided.

8. Complete a sample description in the CUSTOMER SAMPLE ID section as you would like it to appear on the laboratory report. Include: sample matrix, sample type (G (grab) or C (composite)). When collecting a composite, the start time and end time should be documented in the respective boxes. Also record the sample temp at collection (if required by state), the total number of containers, and preservative used.

9. Requested Analysis: List required analysis and methods on the lines provided and place a check mark in the column for the samples requiring the analysis. Additional comments should be referenced in the Customer Remarks section or included in attachments for extended lists of parameters.

10. Relinquishing custody of the samples: sign relinquished by, date and time, and include you affiliation.

***Important Note:**
Standard Turnaround Time is 2 Weeks/10 business days. Results will be delivered by end of business on the date due unless other arrangements have been made with your project manager.

Special Project Requirements such as Low Level Detection or level of QC reported must be included on the chain of custody in the Customer Remarks box.

If you have additional questions about how to complete the Chain of Custody (COC) please contact a Pace Project Manager

















dhec
Healthy People. Healthy Communities.



ANGELA BAIONI
PACE ANALYTICAL SERVICES
9800 KINCEY AVE STE 100
HUNTERSVILLE NC 28078

FEB 2 4 2020

Re: Laboratory Analyses Approval
(Analytical) Bid #IFB-5400012961-04/06/17-EMW; PO #4600750104
Clouds Chevron, 1600 Two Notch Road, Columbia, SC
UST Permit #07777; CA #61245
Richland County

Dear Ms. Baioni:

Under the terms and conditions of the referenced bid package, analytical sampling has been approved for the referenced facility. The facility has been assigned an individual Cost Agreement (CA) number listed below. Please reference the CA number and Purchase Order number on the appropriate invoice submitted for payment against the facility.

		Analysis Requested
# of GW Samples (Include Duplicates)		
# of SW Samples	03	(8260B) BTEXNM+Oxys+1,2 DCA+Eth
# of FB	01	(8260B) BTEXNM+Oxys+1,2 DCA+Eth
# of TB		
# of WSW Samples		
# of WSW FB		
# of WSW TB		

Vials/Cooler needed from Pace ☐ RUSH (24hr Notice Required) ☐

If you have any questions or need further assistance, please contact Robert A. Dunn by phone (803) 898-0671 or email dunnra@dhec.sc.gov.

Sincerely,

Brad Baldwin

Brad Baldwin, Hydrogeologist
Corrective Action& Quality Assurance Section
UST Management Division
Bureau of Land & Waste Management

Enc: Approved Cost Agreement

Cc: Robert A. Dunn, UST Management Division, Corrective Action & Field Support Section
Technical File

Approved Cost Agreement 61245

Facility: 07777 CLOUDS CHEVRON
BALDWIBA
PO Number:

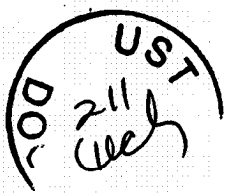
Task / Description	Categories	Item Description	Qty / Pct	Unit Price	Amount
11 ANALYSES					
	GW GROUNDWATER	A2 BTEXNM+OXYGS+1,2-DCA+ETH-8260B	4.0000	$21.000	84.00
			Total Amount		84.00

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

March 02, 2020



Robert Dunn
SCDHEC
2600 Bull St
Columbia, SC 29201



RE: Project: Handy Pantry 07777/61245
Pace Project No.: 92466379

Dear Robert Dunn:
Enclosed are the analytical results for sample(s) received by the laboratory on February 22, 2020. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Angela M. Baioni

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

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Handy Pantry 07777/61245
Pace Project No.: 92466379

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

REPORT OF LABORATORY ANALYSIS

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(704)875-9092

SAMPLE SUMMARY

Project: Handy Pantry 07777/61245
Pace Project No.: 92466379

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92466379001	**SW-1**	Water	02/21/20 09:45	02/22/20 11:20
92466379002	**SW-2**	Water	02/21/20 10:00	02/22/20 11:20
92466379003	**DUP**	Water	02/21/20 09:50	02/22/20 11:20
92466379004	**FB**	Water	02/21/20 10:05	02/22/20 11:20
92466379005	**TB**	Water	02/21/20 00:00	02/22/20 11:20

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SAMPLE ANALYTE COUNT

Project: Handy Pantry 07777/61245
Pace Project No.: 92466379

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92466379001	**SW-1**	EPA 8011	BAJ	2	PASI-C
		EPA 8260D	SAS	20	PASI-C
92466379002	**SW-2**	EPA 8011	BAJ	2	PASI-C
		EPA 8260D	SAS	20	PASI-C
92466379003	**DUP**	EPA 8011	BAJ	2	PASI-C
		EPA 8260D	CL	20	PASI-C
92466379004	**FB**	EPA 8011	BAJ	2	PASI-C
		EPA 8260D	SAS	20	PASI-C
92466379005	**TB**	EPA 8260D	SAS	20	PASI-C

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SUMMARY OF DETECTION

Project: Handy Pantry 07777/61245
Pace Project No.: 92466379

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92466379001	**SW-1**					
EPA 8260D	Benzene	95.6	ug/L	5.0	02/27/20 01:43	
EPA 8260D	Diisopropyl ether	7.4	ug/L	5.0	02/27/20 01:43	
EPA 8260D	Ethylbenzene	31.3	ug/L	5.0	02/27/20 01:43	
EPA 8260D	Naphthalene	7.8	ug/L	5.0	02/27/20 01:43	v3
EPA 8260D	Toluene	4.4J	ug/L	5.0	02/27/20 01:43	
EPA 8260D	Xylene (Total)	35.2	ug/L	5.0	02/27/20 01:43	
EPA 8260D	m&p-Xylene	35.2	ug/L	10.0	02/27/20 01:43	
92466379003	**DUP**					
EPA 8260D	tert-Amyl Alcohol	236	ug/L	100	02/27/20 15:19	
EPA 8260D	Benzene	95.2	ug/L	5.0	02/27/20 15:19	
EPA 8260D	Diisopropyl ether	8.1	ug/L	5.0	02/27/20 15:19	
EPA 8260D	Ethylbenzene	39.8	ug/L	5.0	02/27/20 15:19	
EPA 8260D	Methyl-tert-butyl ether	4.0J	ug/L	5.0	02/27/20 15:19	
EPA 8260D	Naphthalene	14.3	ug/L	5.0	02/27/20 15:19	
EPA 8260D	Toluene	4.9J	ug/L	5.0	02/27/20 15:19	
EPA 8260D	Xylene (Total)	44.8	ug/L	5.0	02/27/20 15:19	
EPA 8260D	m&p-Xylene	44.8	ug/L	10.0	02/27/20 15:19	
EPA 8260D	o-Xylene	2.3J	ug/L	5.0	02/27/20 15:19	

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PROJECT NARRATIVE

Project: Handy Pantry 07777/61245
Pace Project No.: 92466379

Method: EPA 8011
Description: 8011 GCS EDB and DBCP
Client: SCDHEC
Date: March 02, 2020

General Information:
4 samples were analyzed for EPA 8011. 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.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: Handy Pantry 07777/61245
Pace Project No.: 92466379

Method: EPA 8260D
Description: 8260 MSV
Client: SCDHEC
Date: March 02, 2020

General Information:
5 samples were analyzed for EPA 8260D. 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: 527157

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: 2816587)
  - Naphthalene
- FB (Lab ID: 92466379004)
  - Naphthalene
- SW-2 (Lab ID: 92466379002)
  - Naphthalene
- TB (Lab ID: 92466379005)
  - Naphthalene

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: 2816588)
  - Naphthalene
- MS (Lab ID: 2816589)
  - Naphthalene
- MSD (Lab ID: 2816590)
  - Naphthalene
- SW-1 (Lab ID: 92466379001)
  - Naphthalene

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.

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PROJECT NARRATIVE

Project: Handy Pantry 07777/61245
Pace Project No.: 92466379

Method: EPA 8260D
Description: 8260 MSV
Client: SCDHEC
Date: March 02, 2020

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: Handy Pantry 07777/61245
Pace Project No.: 92466379

Sample: SW-1 **Lab ID: 92466379001** Collected: 02/21/20 09:45 Received: 02/22/20 11:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	02/28/20 11:49	02/28/20 21:43	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	87	%	60-140		1	02/28/20 11:49	02/28/20 21:43	301-79-56	
8260 MSV	Analytical Method: EPA 8260D								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		02/27/20 01:43	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		02/27/20 01:43	994-05-8	
Benzene	**95.6**	ug/L	5.0	1.7	1		02/27/20 01:43	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		02/27/20 01:43	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		02/27/20 01:43	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		02/27/20 01:43	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		02/27/20 01:43	107-06-2	
Diisopropyl ether	**7.4**	ug/L	5.0	3.5	1		02/27/20 01:43	108-20-3	
Ethanol	ND	ug/L	200	144	1		02/27/20 01:43	64-17-5	
Ethylbenzene	**31.3**	ug/L	5.0	1.8	1		02/27/20 01:43	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		02/27/20 01:43	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		02/27/20 01:43	1634-04-4	
Naphthalene	**7.8**	ug/L	5.0	2.1	1		02/27/20 01:43	91-20-3	v3
Toluene	**4.4J**	ug/L	5.0	2.0	1		02/27/20 01:43	108-88-3	
Xylene (Total)	**35.2**	ug/L	5.0	5.0	1		02/27/20 01:43	1330-20-7	
m&p-Xylene	**35.2**	ug/L	10.0	4.1	1		02/27/20 01:43	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		02/27/20 01:43	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		02/27/20 01:43	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%	70-130		1		02/27/20 01:43	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		02/27/20 01:43	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Handy Pantry 07777/61245
Pace Project No.: 92466379

Sample: SW-2 **Lab ID: 92466379002** Collected: 02/21/20 10:00 Received: 02/22/20 11:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.021	0.012	1	02/28/20 11:49	02/28/20 21:54	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	85	%	60-140		1	02/28/20 11:49	02/28/20 21:54	301-79-56	
8260 MSV	Analytical Method: EPA 8260D								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		02/27/20 02:01	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		02/27/20 02:01	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		02/27/20 02:01	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		02/27/20 02:01	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		02/27/20 02:01	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		02/27/20 02:01	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		02/27/20 02:01	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		02/27/20 02:01	108-20-3	
Ethanol	ND	ug/L	200	144	1		02/27/20 02:01	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		02/27/20 02:01	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		02/27/20 02:01	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		02/27/20 02:01	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		02/27/20 02:01	91-20-3	v2
Toluene	ND	ug/L	5.0	2.0	1		02/27/20 02:01	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		02/27/20 02:01	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		02/27/20 02:01	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		02/27/20 02:01	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		02/27/20 02:01	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130		1		02/27/20 02:01	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		02/27/20 02:01	2037-26-5	

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ANALYTICAL RESULTS

Project: Handy Pantry 07777/61245
Pace Project No.: 92466379

Sample: DUP **Lab ID: 92466379003** Collected: 02/21/20 09:50 Received: 02/22/20 11:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	02/28/20 11:49	02/28/20 22:06	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	88	%	60-140		1	02/28/20 11:49	02/28/20 22:06	301-79-56	
8260 MSV	Analytical Method: EPA 8260D								
tert-Amyl Alcohol	**236**	ug/L	100	65.6	1		02/27/20 15:19	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		02/27/20 15:19	994-05-8	
Benzene	**95.2**	ug/L	5.0	1.7	1		02/27/20 15:19	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		02/27/20 15:19	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		02/27/20 15:19	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		02/27/20 15:19	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		02/27/20 15:19	107-06-2	
Diisopropyl ether	**8.1**	ug/L	5.0	3.5	1		02/27/20 15:19	108-20-3	
Ethanol	ND	ug/L	200	144	1		02/27/20 15:19	64-17-5	
Ethylbenzene	**39.8**	ug/L	5.0	1.8	1		02/27/20 15:19	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		02/27/20 15:19	637-92-3	
Methyl-tert-butyl ether	**4.0J**	ug/L	5.0	3.1	1		02/27/20 15:19	1634-04-4	
Naphthalene	**14.3**	ug/L	5.0	2.1	1		02/27/20 15:19	91-20-3	
Toluene	**4.9J**	ug/L	5.0	2.0	1		02/27/20 15:19	108-88-3	
Xylene (Total)	**44.8**	ug/L	5.0	5.0	1		02/27/20 15:19	1330-20-7	
m&p-Xylene	**44.8**	ug/L	10.0	4.1	1		02/27/20 15:19	179601-23-1	
o-Xylene	**2.3J**	ug/L	5.0	2.0	1		02/27/20 15:19	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		02/27/20 15:19	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		02/27/20 15:19	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		02/27/20 15:19	2037-26-5	

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ANALYTICAL RESULTS

Project: Handy Pantry 07777/61245
Pace Project No.: 92466379

Sample: FB **Lab ID: 92466379004** Collected: 02/21/20 10:05 Received: 02/22/20 11:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	02/28/20 11:49	02/28/20 22:18	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	95	%	60-140		1	02/28/20 11:49	02/28/20 22:18	301-79-56	
8260 MSV	Analytical Method: EPA 8260D								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		02/26/20 22:27	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		02/26/20 22:27	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		02/26/20 22:27	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		02/26/20 22:27	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		02/26/20 22:27	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		02/26/20 22:27	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		02/26/20 22:27	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		02/26/20 22:27	108-20-3	
Ethanol	ND	ug/L	200	144	1		02/26/20 22:27	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		02/26/20 22:27	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		02/26/20 22:27	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		02/26/20 22:27	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		02/26/20 22:27	91-20-3	v2
Toluene	ND	ug/L	5.0	2.0	1		02/26/20 22:27	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		02/26/20 22:27	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		02/26/20 22:27	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		02/26/20 22:27	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		02/26/20 22:27	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130		1		02/26/20 22:27	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		02/26/20 22:27	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Handy Pantry 07777/61245
Pace Project No.: 92466379

Sample: TB **Lab ID: 92466379005** Collected: 02/21/20 00:00 Received: 02/22/20 11:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260D								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		02/26/20 22:45	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		02/26/20 22:45	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		02/26/20 22:45	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		02/26/20 22:45	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		02/26/20 22:45	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		02/26/20 22:45	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		02/26/20 22:45	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		02/26/20 22:45	108-20-3	
Ethanol	ND	ug/L	200	144	1		02/26/20 22:45	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		02/26/20 22:45	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		02/26/20 22:45	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		02/26/20 22:45	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		02/26/20 22:45	91-20-3	v2
Toluene	ND	ug/L	5.0	2.0	1		02/26/20 22:45	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		02/26/20 22:45	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		02/26/20 22:45	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		02/26/20 22:45	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	104	%	70-130		1		02/26/20 22:45	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1		02/26/20 22:45	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		02/26/20 22:45	2037-26-5	

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QUALITY CONTROL DATA

Project: Handy Pantry 07777/61245
Pace Project No.: 92466379

QC Batch: 527157 Analysis Method: EPA 8260D
QC Batch Method: EPA 8260D Analysis Description: 8260 MSV SC
Associated Lab Samples: 92466379001, 92466379002, 92466379004, 92466379005

METHOD BLANK: 2816587 Matrix: Water
Associated Lab Samples: 92466379001, 92466379002, 92466379004, 92466379005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	02/26/20 21:34	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	02/26/20 21:34	
Benzene	ug/L	ND	5.0	1.7	02/26/20 21:34	
Diisopropyl ether	ug/L	ND	5.0	3.5	02/26/20 21:34	
Ethanol	ug/L	ND	200	144	02/26/20 21:34	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	02/26/20 21:34	
Ethylbenzene	ug/L	ND	5.0	1.8	02/26/20 21:34	
m&p-Xylene	ug/L	ND	10.0	4.1	02/26/20 21:34	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	02/26/20 21:34	
Naphthalene	ug/L	ND	5.0	2.1	02/26/20 21:34	v2
o-Xylene	ug/L	ND	5.0	2.0	02/26/20 21:34	
tert-Amyl Alcohol	ug/L	ND	100	65.6	02/26/20 21:34	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	02/26/20 21:34	
tert-Butyl Alcohol	ug/L	ND	100	91.0	02/26/20 21:34	
tert-Butyl Formate	ug/L	ND	50.0	24.1	02/26/20 21:34	
Toluene	ug/L	ND	5.0	2.0	02/26/20 21:34	
Xylene (Total)	ug/L	ND	5.0	5.0	02/26/20 21:34	
1,2-Dichloroethane-d4 (S)	%	107	70-130		02/26/20 21:34	
4-Bromofluorobenzene (S)	%	100	70-130		02/26/20 21:34	
Toluene-d8 (S)	%	105	70-130		02/26/20 21:34	

LABORATORY CONTROL SAMPLE: 2816588

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	51.1	102	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	993	99	70-130	
Benzene	ug/L	50	50.5	101	70-130	
Diisopropyl ether	ug/L	50	57.2	114	70-130	
Ethanol	ug/L	2000	2070	104	70-130	
Ethyl-tert-butyl ether	ug/L	100	103	103	70-130	
Ethylbenzene	ug/L	50	42.6	85	70-130	
m&p-Xylene	ug/L	100	85.2	85	70-130	
Methyl-tert-butyl ether	ug/L	50	52.5	105	70-130	
Naphthalene	ug/L	50	36.4	73	70-130	v3
o-Xylene	ug/L	50	43.3	87	70-130	
tert-Amyl Alcohol	ug/L	1000	908	91	70-130	
tert-Amylmethyl ether	ug/L	100	102	102	70-130	
tert-Butyl Alcohol	ug/L	500	474	95	70-130	
tert-Butyl Formate	ug/L	400	454	113	70-130	
Toluene	ug/L	50	46.3	93	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Handy Pantry 07777/61245
Pace Project No.: 92466379

LABORATORY CONTROL SAMPLE: 2816588

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	128	86	70-130	
1,2-Dichloroethane-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			96	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2816589 2816590

Parameter	Units	92466395009 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	21.1	22.7	105	114	70-137	8	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	373	425	93	106	39-157	13	30	
Benzene	ug/L	ND	20	20	20.6	21.3	103	106	70-151	3	30	
Diisopropyl ether	ug/L	ND	20	20	22.2	23.5	111	118	63-144	6	30	
Ethanol	ug/L	ND	800	800	868	962	109	120	39-176	10	30	
Ethyl-tert-butyl ether	ug/L	ND	40	40	39.9	43.1	100	108	66-137	8	30	
Ethylbenzene	ug/L	ND	20	20	16.8	17.9	84	90	66-153	6	30	
m&p-Xylene	ug/L	ND	40	40	33.6	35.7	84	89	69-152	6	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	21.4	22.7	107	113	54-156	6	30	
Naphthalene	ug/L	ND	20	20	15.3	15.5	76	78	61-148	2	30	v3
o-Xylene	ug/L	ND	20	20	17.2	18.1	86	90	70-148	5	30	
tert-Amyl Alcohol	ug/L	ND	400	400	355	401	89	100	54-153	12	30	
tert-Amylmethyl ether	ug/L	ND	40	40	40.0	42.3	100	106	69-139	6	30	
tert-Butyl Alcohol	ug/L	ND	200	200	213	252	106	126	43-188	17	30	
tert-Butyl Formate	ug/L	ND	160	160	135	130	84	81	10-170	4	30	
Toluene	ug/L	ND	20	20	18.9	19.4	95	97	59-148	2	30	
Xylene (Total)	ug/L	ND	60	60	50.8	53.7	85	90	63-158	6	30	
1,2-Dichloroethane-d4 (S)	%						99	102	70-130			
4-Bromofluorobenzene (S)	%						100	99	70-130			
Toluene-d8 (S)	%						97	97	70-130			

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QUALITY CONTROL DATA

Project: Handy Pantry 07777/61245
Pace Project No.: 92466379

QC Batch: 527238
QC Batch Method: EPA 8260D
Analysis Method: EPA 8260D
Analysis Description: 8260 MSV SC
Associated Lab Samples: 92466379003

METHOD BLANK: 2816991
Matrix: Water
Associated Lab Samples: 92466379003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	02/27/20 08:36	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	02/27/20 08:36	
Benzene	ug/L	ND	5.0	1.7	02/27/20 08:36	
Diisopropyl ether	ug/L	ND	5.0	3.5	02/27/20 08:36	
Ethanol	ug/L	ND	200	144	02/27/20 08:36	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	02/27/20 08:36	
Ethylbenzene	ug/L	ND	5.0	1.8	02/27/20 08:36	
m&p-Xylene	ug/L	ND	10.0	4.1	02/27/20 08:36	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	02/27/20 08:36	
Naphthalene	ug/L	ND	5.0	2.1	02/27/20 08:36	
o-Xylene	ug/L	ND	5.0	2.0	02/27/20 08:36	
tert-Amyl Alcohol	ug/L	ND	100	65.6	02/27/20 08:36	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	02/27/20 08:36	
tert-Butyl Alcohol	ug/L	ND	100	91.0	02/27/20 08:36	
tert-Butyl Formate	ug/L	ND	50.0	24.1	02/27/20 08:36	
Toluene	ug/L	ND	5.0	2.0	02/27/20 08:36	
Xylene (Total)	ug/L	ND	5.0	5.0	02/27/20 08:36	
1,2-Dichloroethane-d4 (S)	%	97	70-130		02/27/20 08:36	
4-Bromofluorobenzene (S)	%	99	70-130		02/27/20 08:36	
Toluene-d8 (S)	%	103	70-130		02/27/20 08:36	

LABORATORY CONTROL SAMPLE: 2816992

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	53.7	107	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1190	119	70-130	
Benzene	ug/L	50	55.0	110	70-130	
Diisopropyl ether	ug/L	50	58.7	117	70-130	
Ethanol	ug/L	2000	2220	111	70-130	
Ethyl-tert-butyl ether	ug/L	100	108	108	70-130	
Ethylbenzene	ug/L	50	54.5	109	70-130	
m&p-Xylene	ug/L	100	109	109	70-130	
Methyl-tert-butyl ether	ug/L	50	55.0	110	70-130	
Naphthalene	ug/L	50	57.0	114	70-130	
o-Xylene	ug/L	50	54.8	110	70-130	
tert-Amyl Alcohol	ug/L	1000	1140	114	70-130	
tert-Amylmethyl ether	ug/L	100	112	112	70-130	
tert-Butyl Alcohol	ug/L	500	520	104	70-130	
tert-Butyl Formate	ug/L	400	489	122	70-130	
Toluene	ug/L	50	53.9	108	70-130	

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QUALITY CONTROL DATA

Project: Handy Pantry 07777/61245
Pace Project No.: 92466379

LABORATORY CONTROL SAMPLE: 2816992

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	164	109	70-130	
1,2-Dichloroethane-d4 (S)	%			107	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			102	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2817868 2817869

Parameter	Units	92466382021 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	4000	4000	4100	4330	103	108	70-137	6	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	80000	80000	90500	95500	113	119	39-157	5	30	
Benzene	ug/L	8970	4000	4000	13600	13800	115	122	70-151	2	30	
Diisopropyl ether	ug/L	1860	4000	4000	6300	6720	111	122	63-144	7	30	
Ethanol	ug/L	ND	160000	160000	177000	189000	110	118	39-176	7	30	
Ethyl-tert-butyl ether	ug/L	ND	8000	8000	7880	8550	98	107	66-137	8	30	
Ethylbenzene	ug/L	1050	4000	4000	5420	5750	109	117	66-153	6	30	
m&p-Xylene	ug/L	3710	8000	8000	12600	13200	111	119	69-152	4	30	
Methyl-tert-butyl ether	ug/L	29800	4000	4000	36000	35900	154	152	54-156	0	30	
Naphthalene	ug/L	473J	4000	4000	4670	4970	105	112	61-148	6	30	
o-Xylene	ug/L	1210	4000	4000	5670	5860	111	116	70-148	3	30	
tert-Amyl Alcohol	ug/L	29500	80000	80000	122000	129000	116	124	54-153	6	30	
tert-Amylmethyl ether	ug/L	1560J	8000	8000	9940	10800	105	115	69-139	8	30	
tert-Butyl Alcohol	ug/L	ND	40000	40000	45000	45900	105	108	43-188	2	30	
tert-Butyl Formate	ug/L	ND	32000	32000	34000	33400	106	104	10-170	2	30	
Toluene	ug/L	5100	4000	4000	9320	9790	105	117	59-148	5	30	
Xylene (Total)	ug/L	4930	12000	12000	18300	19100	111	118	63-158	4	30	
1,2-Dichloroethane-d4 (S)	%						103	103	70-130			
4-Bromofluorobenzene (S)	%						100	100	70-130			
Toluene-d8 (S)	%						100	101	70-130			

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QUALITY CONTROL DATA

Project: Handy Pantry 07777/61245
Pace Project No.: 92466379

QC Batch: 527688 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 92466379001, 92466379002, 92466379003, 92466379004

METHOD BLANK: 2819182 Matrix: Water
Associated Lab Samples: 92466379001, 92466379002, 92466379003, 92466379004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.011	02/28/20 19:46	
1-Chloro-2-bromopropane (S)	%	108	60-140		02/28/20 19:46	

LABORATORY CONTROL SAMPLE & LCSD: 2819183 2819184

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	0.22	0.23	89	94	60-140	5	20	
1-Chloro-2-bromopropane (S)	%				95	100	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2819186 2819187

Parameter	Units	92466389002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	0.25	0.25	0.25	0.25	101	100	60-140	1	20	
1-Chloro-2-bromopropane (S)	%						101	99	60-140			

SAMPLE DUPLICATE: 2819185

Parameter	Units	92466389001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	99	122			

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

REPORT OF LABORATORY ANALYSIS

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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: Handy Pantry 07777/61245
Pace Project No.: 92466379

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-C Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Handy Pantry 07777/61245
Pace Project No.: 92466379

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92466379001	**SW-1**	EPA 8011	527688	EPA 8011	527772
92466379002	**SW-2**	EPA 8011	527688	EPA 8011	527772
92466379003	**DUP**	EPA 8011	527688	EPA 8011	527772
92466379004	**FB**	EPA 8011	527688	EPA 8011	527772
92466379001	**SW-1**	EPA 8260D	527157		
92466379002	**SW-2**	EPA 8260D	527157		
92466379003	**DUP**	EPA 8260D	527238		
92466379004	**FB**	EPA 8260D	527157		
92466379005	**TB**	EPA 8260D	527157		

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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- Affix Workorder M

WO# : 92466379

92466379

ALL SHADED /

Page 21 of 21

Company: SC DHEC

Billing Information:

Address: 2600 Bull St. Columbia

Report To: Robert Dunn

Email To: dunnra@dhec.sc.gov

Copy To:

Site Collection Info/Address:

Customer Project Name/Number: Handy Pantry

State: SC County/City: Richland

Time Zone Collected: [ ] PT [ ] MT [ ] CT [✓] ET

Phone: (803) 898-0671

Email:

Site/Facility ID #: 07777

Compliance Monitoring? [ ] Yes [ ] No

Collected By (print): C. White

Purchase Order #: 4600750104

Quote #: CA# 61245

DW PWS ID #:

DW Location Code:

Collected By (signature): [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 **

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:	

LAB USE ONLY:

Lab Sample # / Comments: 92466379

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Time	Composite End Date	Time	Res Cl	# of Ctns	8260B OXY	8011 EDB	Lab Sample # / Comments
SW-1	GW	G	2/21/20	945				6	X	X	001
SW-2	↓	↓	↓	1000				6	X	X	002
DUP	↓	↓	↓	950				6	X	X	003
FB *	↓	↓	↓	1005				6	X	X	004
TB	↓	↓	2/21/20	—				2	X		005

Customer Remarks / Special Conditions / Possible Hazards: Report J values

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 #: 2428706

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:

Temp Blank Received: Y N NA

Therm ID#: 9270060

Cooler 1 Temp Upon Receipt: 2.9 oC

Cooler 1 Therm Corr. Factor: 0 oC

Cooler 1 Corrected Temp: 2.9 oC

Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
[signature] / DHEC	2/21/20	Erick Hawney/Pace	2-22-20 1120
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
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:

dhec
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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 II ☑ Groundwater Sampling ☐ GAC
☐ Tier I ☐ Monitoring Well Installation ☐ Other _____

Analyses (Please check all that apply)

Groundwater/Surface Water:

☑ BTEXNMDCA (8260D) ☐ Lead ☐ BOD ☐ Methane
☑ Oxygenates (8260D) ☐ 8 RCRA Metals ☐ Nitrate ☐ Ethanol
☑ EDB (8011) ☐ TPH ☐ Sulfate ☐ Dissolved Iron
☐ PAH (8270E) ☐ pH ☐ Other _____

Drinking Water Supply Wells:

☐ BTEXNMDCA (524.2) ☐ Mecury (200.8 245.1 or 245.2) ☐ EDB (504.1)
☐ Oxygenates & Ethanol (8260D) ☐ RCRA Metals (200.8)

Soil:

☐ BTEXNM ☐ Lead ☐ RCRA Metals ☐ TPH-DRO (3550B/8015B) ☐ Grain Size
☐ PAH ☐ Oil & Grease (9071) ☐ TPH-GRO (5030B/8015B) ☐ TOC

Air:

☐ BTEXN

Sample Collection (Estimate the number of samples of each matrix that are expected to be collected.)

_____ Soil _____ 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

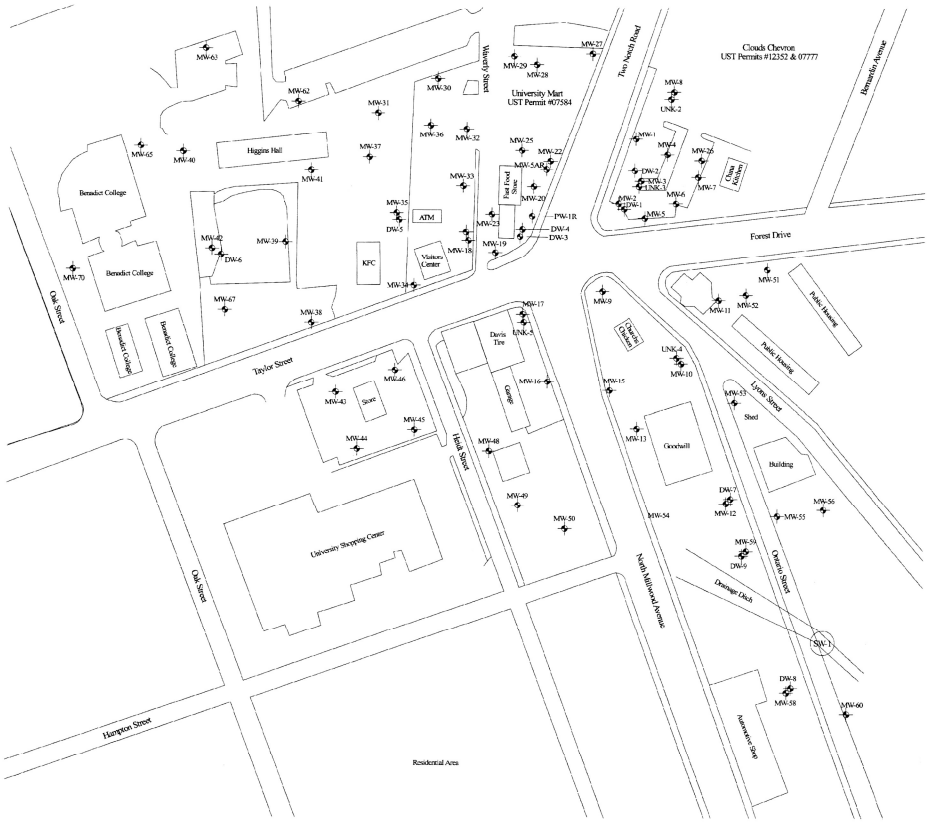
Source: U.S.G.S. Topographic Map of the Columbia North Quadrangle, Virginia, 7.5 Minute Series (1977, revised 1988)
Scale: 1:24,000 Contour Interval: 20 Feet
Vertical Datum: National Geodetic Vertical Datum 1929
Horizontal Datum: North American Datum1927

Project: August 2019 CASE Report

Client: SCDHEC

CES Job #: 7.0547

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



Legend

Monitoring Well (MW) Location

N

0 75' 150' 300'

1 inch equals 150 feet

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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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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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.

-oOo-

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**

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Site Activity Summary

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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-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**

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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**

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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**

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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**

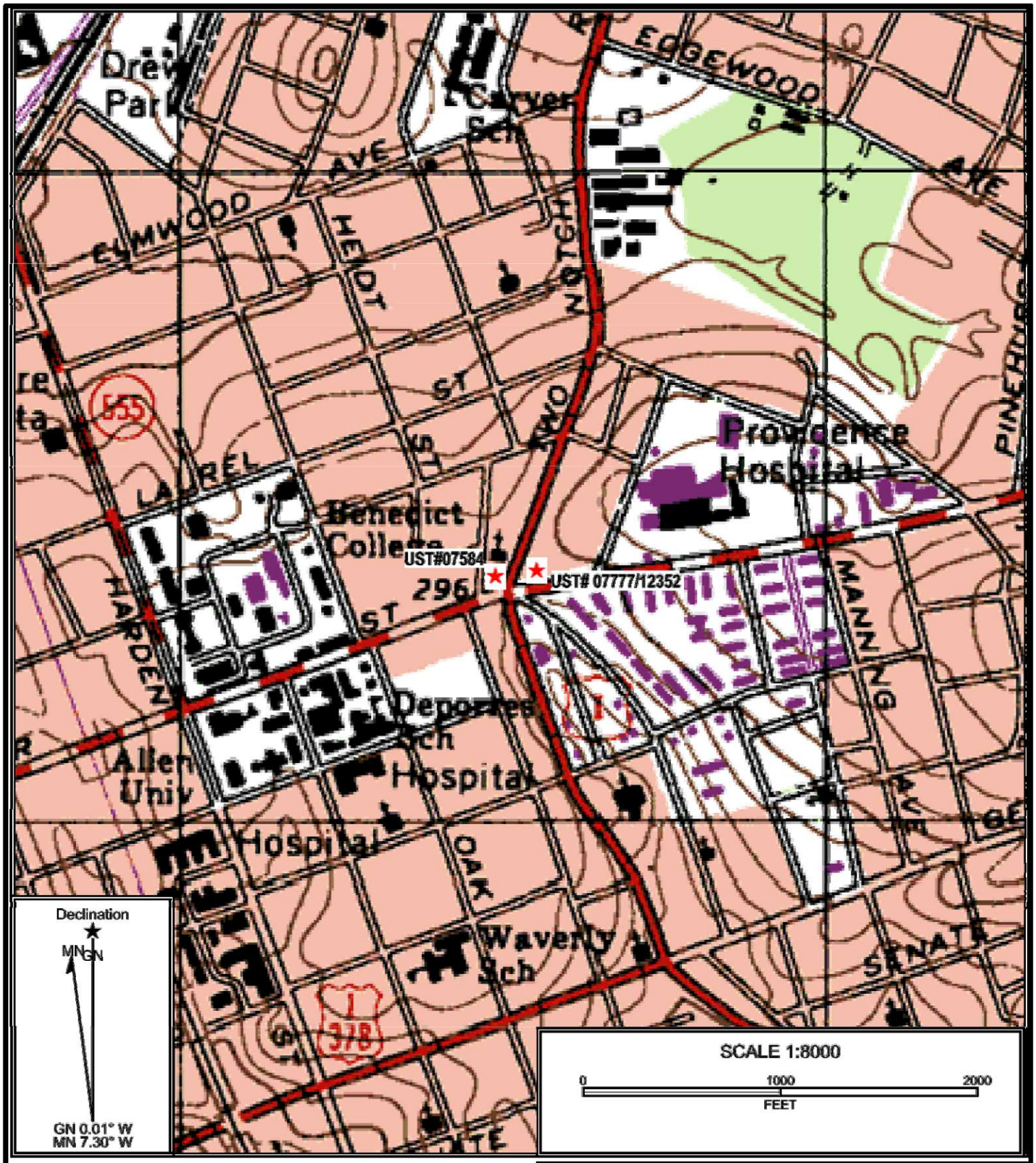
Table 2
Site Activity Summary

UST Permit #: 07777, 12352, 07584
Facility Name: Clouds Chevron & College Corner
County: Richland
Field Personnel: H. Sloan, C. Hansen, J. Canavan, M. Funderburk, T. Adorno, T. Brown

Midlands Environmental Consultants, Inc.

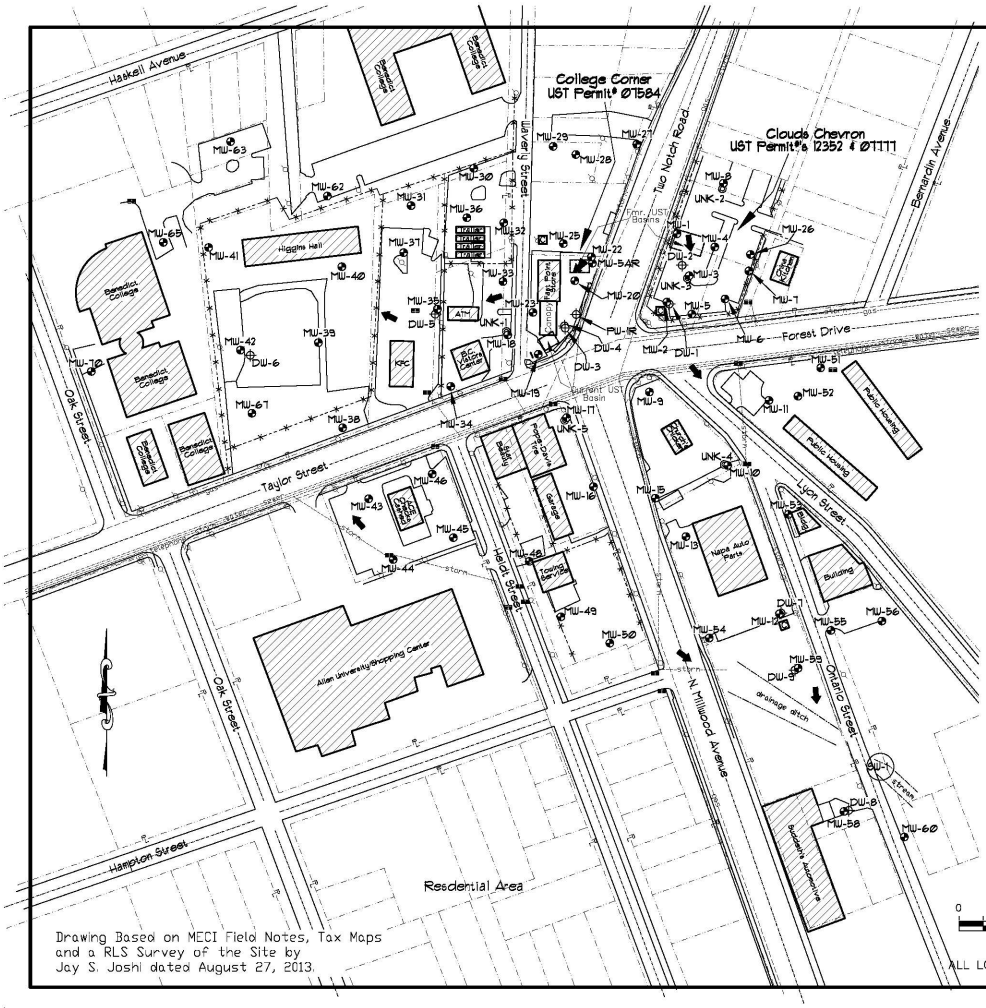
Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	TOC Elevation	Groundwater Elevation	Intial Dissolved Oxygen (mg/L)	# Gals. Purged	Comments
UNK-5	Y	11/15/21	12:13	TD: 27.61	***	22.88	***	98.93	76.05	1.27	4.00	Odor, Replaced Well Cap
SW-1	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:

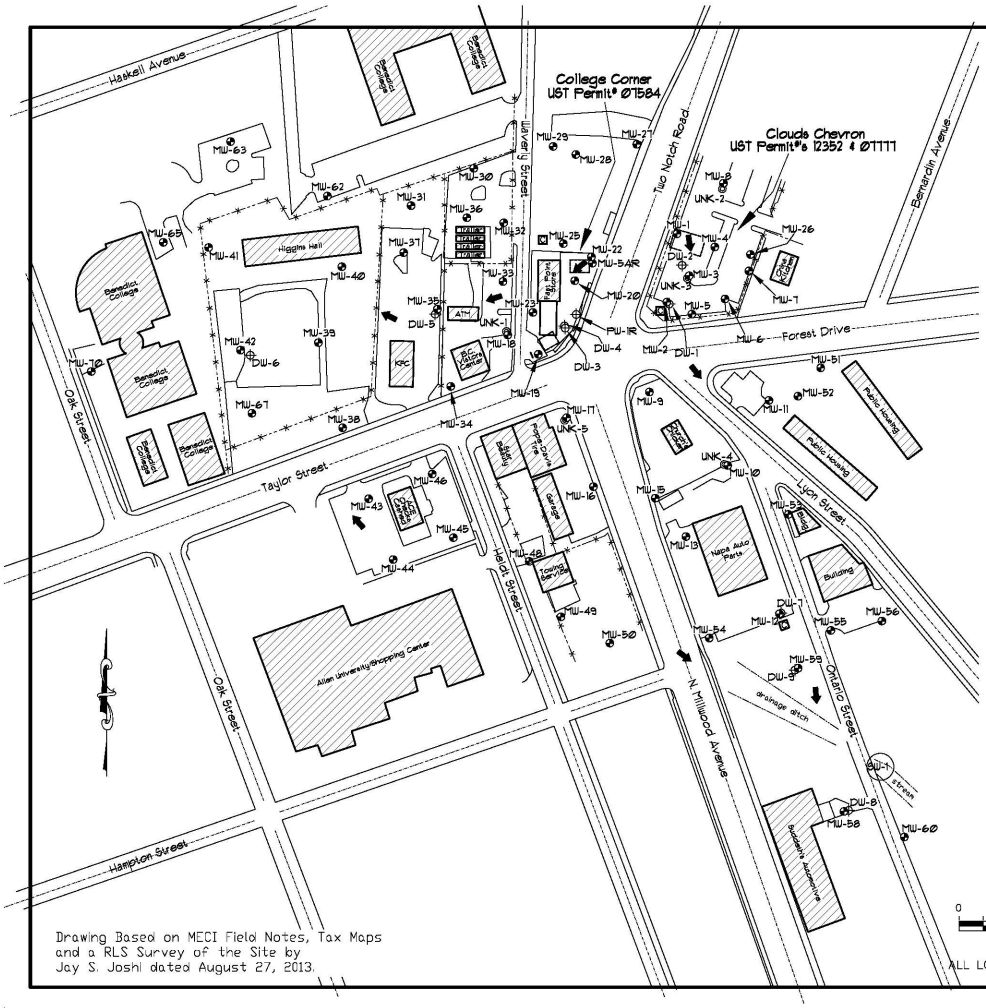
- Location of Watertable Bracketing Monitoring Well
- Location of Double Cased "Deep" Monitoring Well
- Location of Former ACA Product Recovery Well
- (SW) Location of Surface Water Sample Collection
- Estimated Groundwater Flow Direction
- Estimated Location of Removed Underground Storage Tanks
- Estimated 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

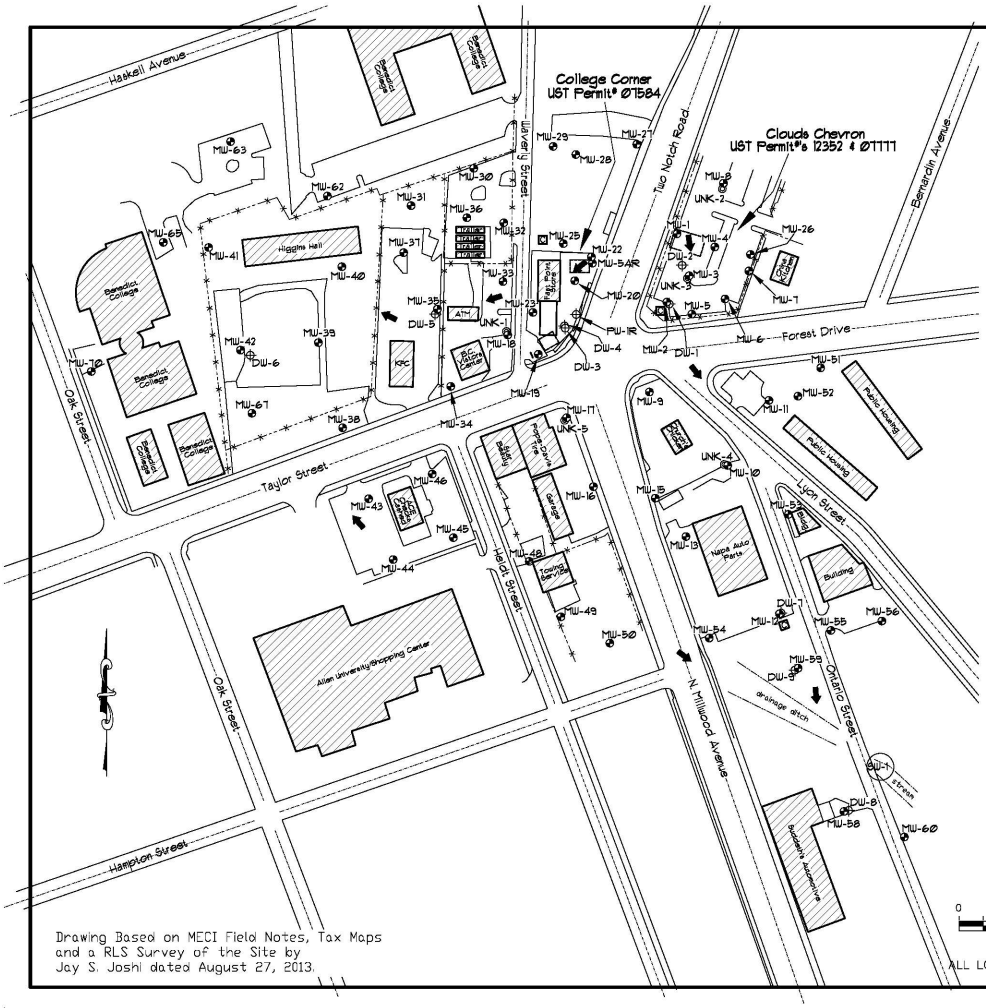
Sample ID	Constituent of Concern	1,2-Dibromoethane (EDB)	1,2-Dichloroethane	3,3-Dimethyl-1-Butanol	Benzene	Diisopropyl ether	Ethanol	Ethyl-tert-butyl ether	Ethylbenzene	Methyl-tert-butyl ether	Naphthalene	Toluene	Xylene (Total)	m&p-Xylene	o-Xylene	tert-Amyl Alcohol	tert-Amylmethyl ether	tert-Butyl Alcohol	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

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-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														

*= (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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1"	0.047
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4"	0.653
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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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-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														

*= (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: 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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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

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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1"	0.047
2"	0.163
4"	0.653
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Case #1	15H101448	12G102878	201301183
Case #2	15E101481	14H103098	201301174
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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

*= (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-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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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-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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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
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														

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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-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

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-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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Sampling Date(s): 11/15

Sampling Case#: 2, 3

Job Name: Clouds Chevron

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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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4"	0.653
6"	1.469

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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-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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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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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 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														

*= (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
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

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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**

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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
	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	

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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														

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Sampling Case#: 2, 3

Job Name: Clouds Chevron

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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														

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Dissolved Oxygen: Yes No

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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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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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Pace Analytical Services, LLC
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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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
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	

REPORT OF LABORATORY ANALYSIS

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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	

REPORT OF LABORATORY ANALYSIS

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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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(704)875-9092

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

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		

REPORT OF LABORATORY ANALYSIS

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

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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CHAIN-OF-CUSTODY Analytical Request Document

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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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CHAIN-OF-CUSTODY Analytical Request Document

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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

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

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] /DHEC I		Josh Mallas/Pace	11/17/21 1105
Josh Mallas/Pace	11/17/21 1821	[signature] PACE HU	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

CHAIN-OF-CUSTODY Analytical Request Document

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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

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CHAIN-OF-CUSTODY Analytical Request Document

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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 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 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
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 soil	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

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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@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

** 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

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 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

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

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CHAIN-OF-CUSTODY Analytical Request Document

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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-
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)
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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.

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)
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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 #

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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 #

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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 #

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5

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pH Adjustment Log for Preserved Samples

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pH Adjustment Log for Preserved Samples

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

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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Huntersville, NC 28078
(704)875-9092

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	

REPORT OF LABORATORY ANALYSIS

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

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	

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

REPORT OF LABORATORY ANALYSIS

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

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

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			

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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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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

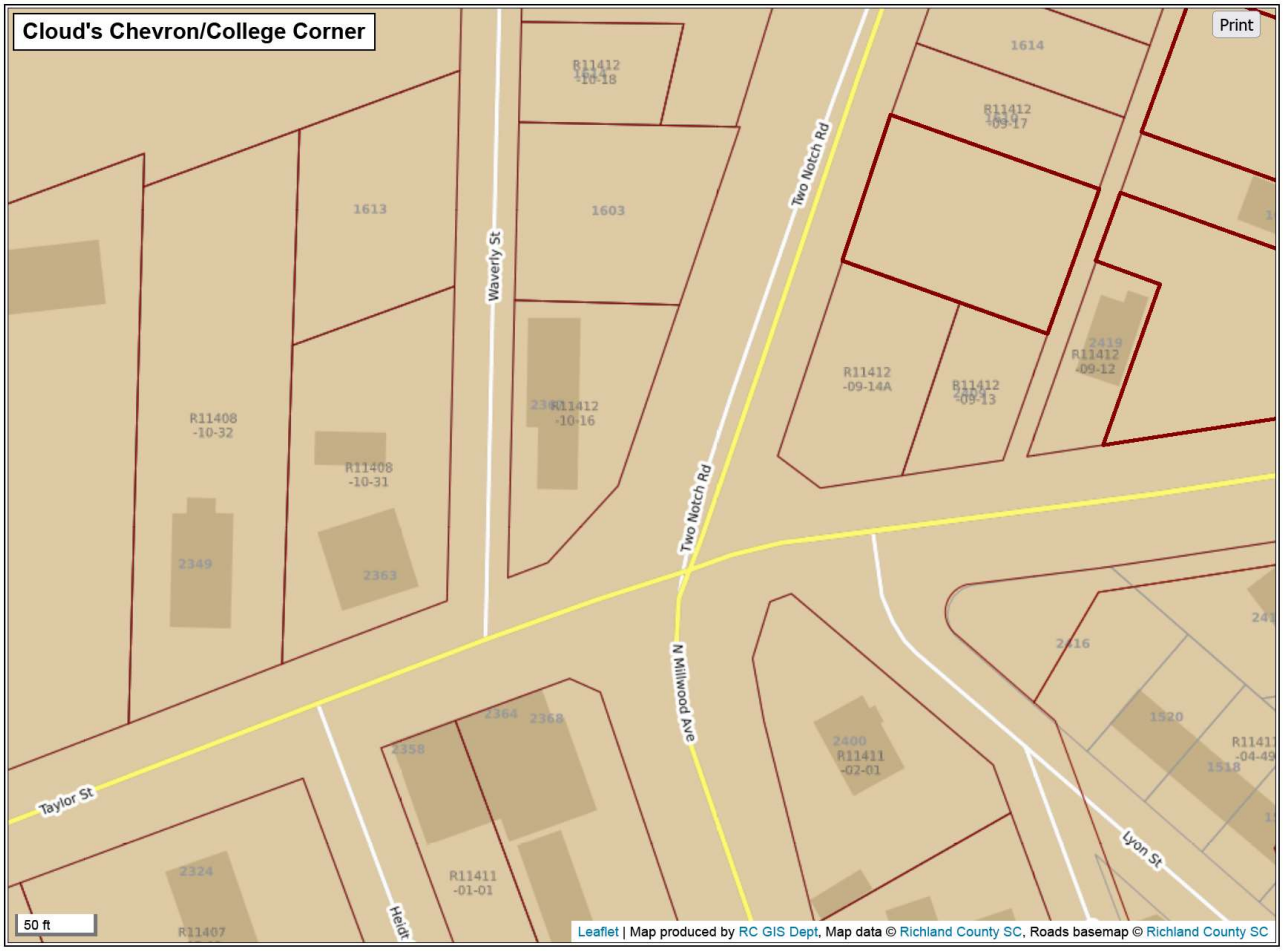
Non Conformance(s): YES / NO

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

Groundwater Sampling Audit Form
Underground Storage Tank Management Division

RESULTS:
☒ Satisfactory
☐ Issues

Date: 10/12/2022 Project Manager: Matt Wykel DHEC Field Staff: M. Vincent

Contractor: DHEC Contractor Field Staff: Matt Wykel

Site Number: 07777 Site Name: cloud's chevron

Time Arrived at Site: 900 Time Leaving Site: 0930 Weather Conditions: sunny, clear Temperature: 60°F

Well allowed to equilibrate before sampling? ..... ☐ YES ☐ NO

Water level obtained correctly? ..... ☐ YES ☐ NO

New plastic sheeting around each well? ..... ☐ YES ☐ NO

New pair of gloves worn for each well? ..... ☒ YES ☐ NO

Meter calibration log(s) present? ..... ☐ YES ☐ NO



Method of Data Collection ..... ☐ Field Data Sheets ☐ Log Book

Method of Purging/Sample Collection ..... ☐ Bailer ☐ Pump ☐ Other: _____

New bailer/string or tubing for each well? ..... ☐ YES ☐ NO

Field parameters obtained correctly? ..... ☐ YES ☐ NO Information recorded? ☐ YES ☐ NO

Meter Information (include type and serial number):

pH/Conductance: _____ DO: _____ Turbidity: _____ Temperature: _____

Adequate purge completed? ..... ☐ YES ☐ NO

Purge water maintenance? ..... ☐ YES ☐ NO

Appropriate sample handling (cooler w/ wet ice, bags, bubble wrap)? ..... ☒ YES ☐ NO

Decontamination of all equipment between wells? ..... ☐ YES ☐ NO

Signature: [signature] Date: 10/12/2022

Notes:

surface water sampling of pond SW-3
Matt sampled the retention pond for the full suite of constituents via 8260.
Field Blank collected onsite (w/ new gloves)

Notes (continued): Matt removed the caps of the vials and filled them at an angle and stopped before vial was overflowing, topped off all vials using the caps (filling it w/ water) so that the preservative did not leave the vial

UST GROUNDWATER SAMPLING AUDIT FORM

- Purpose of the form is to record information gathered during an audit of groundwater sampling activities.
- DHEC UST Project Managers and Field Staff.
- Item-by-item instructions for completing the form.
  - Fill in all Site Information boxes.
  - Answer all the questions and record any applicable information in the blanks.
  - Sign and date the form.
  - Record any applicable notes.
- Form is scanned and saved electronically – Record Group Number 169, Retention Schedule 13300

USPS Tracking®

FAQs >



Remove ×

Tracking Number:

9214896900999790142229615 3

Copy Add to Informed Delivery
(https://informeddelivery.usps.com/)

Latest Update

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

See All Tracking History

Feedback

Text & Email Updates ⌄

Return Receipt Electronic ⌄

USPS Tracking Plus® ⌄

Product Information ⌄

See Less ^

Track Another Package

Enter tracking or barcode numbers

dhec
Healthy People. Healthy Communities.

NOV 01 2022

UST 229 Tech DOCKETING

ADAM DALENBURG
CITY OF COLUMBIA HOUSING AUTHORITY
1917 HARDEN STREET
COLUMBIA SC 29204

Re: **Property Access Request-Contractor Endorsement**
Clouds Chevron, 1600 Two Notch Road, Columbia, SC
UST Permit #07777
Release reported December 31, 1991
Access to property located at 1410 Lyon Street, Columbia, SC
Tax Map #R11411-04-49 & R11411-04-48
Richland County

To Whom It May Concern

The Underground Storage Tank Management Division (UST Division) of the South Carolina Department of Health and Environmental Control (DHEC) has procured the services of Midlands Environmental Consultants to perform site rehabilitation of the above referenced petroleum release on behalf of Wallace Scott. Access to your property is needed to preform field screening and install monitoring wells to fully assess the petroleum release. The monitoring wells will be constructed in accordance with the South Carolina Well Standards and Regulations. The contractor's request letter is enclosed. UST Site Rehabilitation Contractors are required to maintain liability insurance coverage for any damage that may occur as a result of site rehabilitation activities.

Please sign the enclosed form and return it to Midlands Environmental Consultants within fifteen (15) days of the date of this letter. Should you have any questions, please contact me at (803) 898-3807 or reillycm@dhec.sc.gov. Technical questions about this scope of work should be addressed to Kyle Pudney at Midlands Environmental Consultants. You may reach them by phone at 803-360-7365. On all correspondence concerning this site, please reference the above UST Permit number.

Sincerely,

Caitlin Reilly

Caitlin Reilly, Hydrogeologist
Assessment & Non-Permitted Petroleum Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Adjacent Property Access Agreement Form

cc: Midlands Environmental Consultants, PO Box 854, Lexington, SC 29071 (w/o enc)
Technical file (w/ enc)

State Lead Option
Adjacent Property Access Agreement for Site Rehabilitation

Only complete this form if: You are the legal owner of the property **OR** are the designated authorized representative for the legal owner of the property.

I certify that I am the legal owner of the property identified below or serve as the authorized representative for the legal owner of the property. I authorize the South Carolina Department of Health and Environmental Control (DHEC), or a contractor selected by DHEC, 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. I understand that the Agency 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.

UST Permit #		
Property Name (if applicable):		
Property Address:		
Property Phone Number:		
Is property within city limits? (check yes/no)	☐ **Yes**	☐ **No**
Name of nearest intersecting street/road/highway:		
Does public water/sewer utility service this facility?	☐ **Yes**	☐ **No**

*If no, please provide a contact name/number that can assist in the location of private water and septic tank lines:

Name:	**Phone Number:**

Is the property currently leased to someone?	**Yes**	**No**

*If yes, notify them of the pending work scope, and please provide their name/contact number:

Name:	**Phone Number:**

Name of Property Owner (Print):		
Signature of Property Owner or authorized representative:		**Date**
Affiliation (if applicable)		
Signature of Witness		**Date**

Contact Info

Phone Numbers:	**Home:**	**Cell:**
Email Address:		

dhec
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NOV 0 1 2022

UST 2211 DOCKETING

JESSICA PAUL
MEDICAL UNIVERSITY HOSPITAL AUTHORITY
261 CALHOUN ST STE 306 MSC 184
CHARLESTON SC 29425

Re: **Property Access Request-Contractor Endorsement**
Clouds Chevron, 1600 Two Notch Road, Columbia, SC
UST Permit #07777
Release reported December 31, 1991
Access to property located at 2409 Forest Drive, Columbia, SC
Tax Map #R11412-09-14A & R11412-09-13
Richland County

Dear Ms. Paul:

The Underground Storage Tank Management Division (UST Division) of the South Carolina Department of Health and Environmental Control (DHEC) has procured the services of Midlands Environmental Conslutants to perform site rehabilitation of the above referenced petroleum release on behalf of Wallace Scott. Access to your property is needed to preform field screening and install monitoring wells to fully assess the petroleum release. The monitoring wells will be constructed in accordance with the South Carolina Well Standards and Regulations. The contractor's request letter is enclosed. UST Site Rehabilitation Contractors are required to maintain liability insurance coverage for any damage that may occur as a result of site rehabilitation activities.

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Sincerely,

Caitlin Reilly

Caitlin Reilly, Hydrogeologist
Assessment & Non-Permitted Petroleum Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Adjacent Property Access Agreement Form

cc: Midlands Environmental Consultants, PO Box 854, Lexington, SC 29071 (w/o enc)
Technical file (w/ enc)

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UST Permit #			
Property Name (if applicable):			
Property Address:			
Property Phone Number:			
Is property within city limits? (check yes/no)	☐ **Yes**	☐ **No**	
Name of nearest intersecting street/road/highway:			
Does public water/sewer utility service this facility?	☐ **Yes**	☐ **No**	
*If no, please provide a contact name/number that can assist in the location of private water and septic tank lines:			
Name:	**Phone Number:**		
Is the property currently leased to someone?		**Yes**	**No**
*If yes, notify them of the pending work scope, and please provide their name/contact number:			
Name:	**Phone Number:**		

Name of Property Owner (Print):		
Signature of Property Owner or authorized representative:		**Date**
Affiliation (if applicable)		
Signature of Witness		**Date**

Contact Info

Phone Numbers:	**Home:**	**Cell:**
Email Address:		

Healthy People. Healthy Communities.

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)

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

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 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;
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College Corner, 2367 Taylor Street, Columbia, SC
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Release reported December 30, 1991
CASE report review sent April 6, 2018
Richland County

Dear Mr. Crawford:

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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
Healthy People. Healthy Communities.

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

	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

ARM
ENVIRONMENTAL SERVICES

RECEIVED
FEB 22 2024
UST DIVISION

February 15, 2024

12352 UST
07770 DOCKETING

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

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

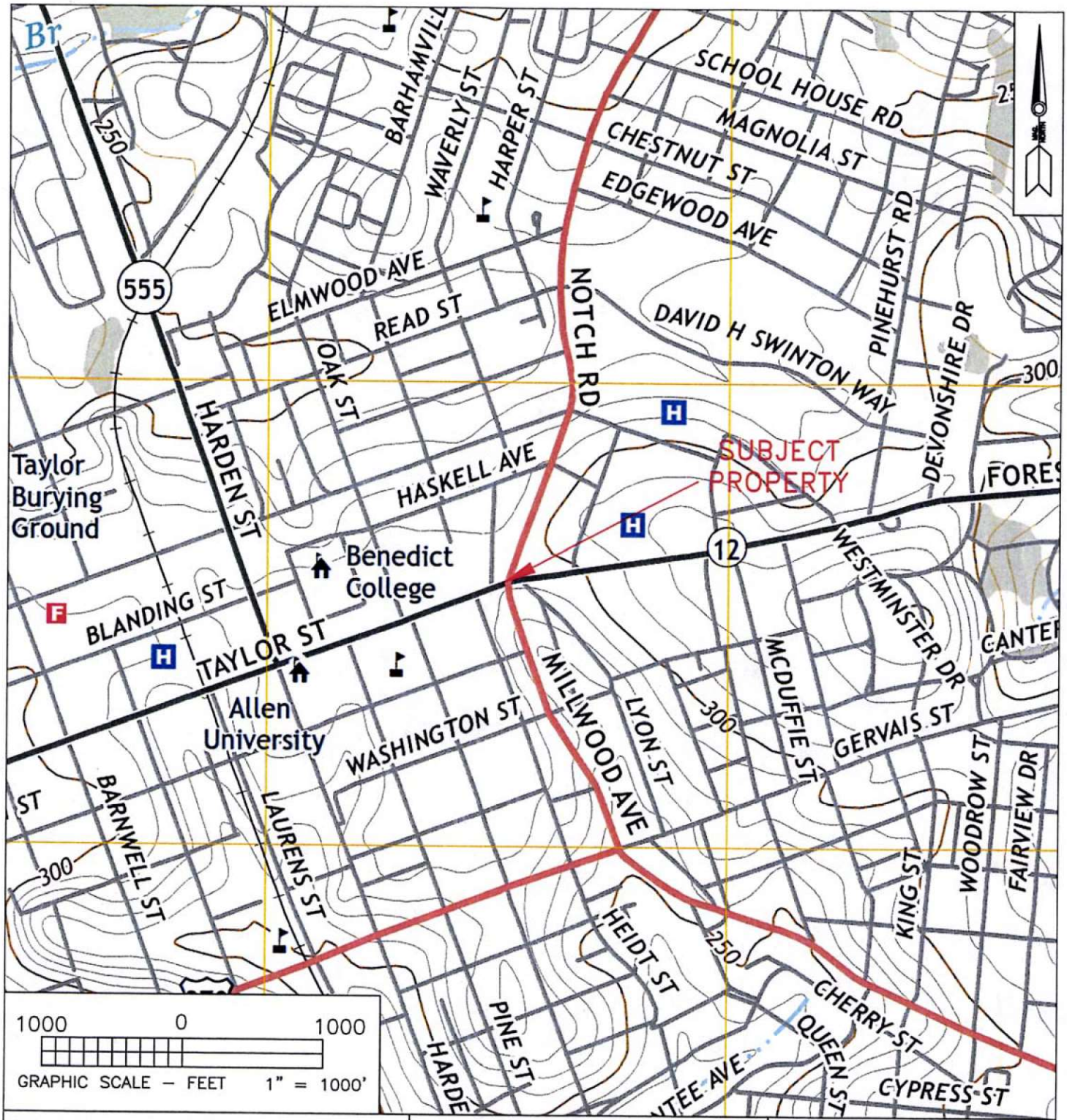
Maybin and Nystrom, 1997, revised by Willoughby, Howard and Nystrom, 2005. Generalized Geologic Map of South Carolina; South Carolina Department of Natural Resources Geological Survey.

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/

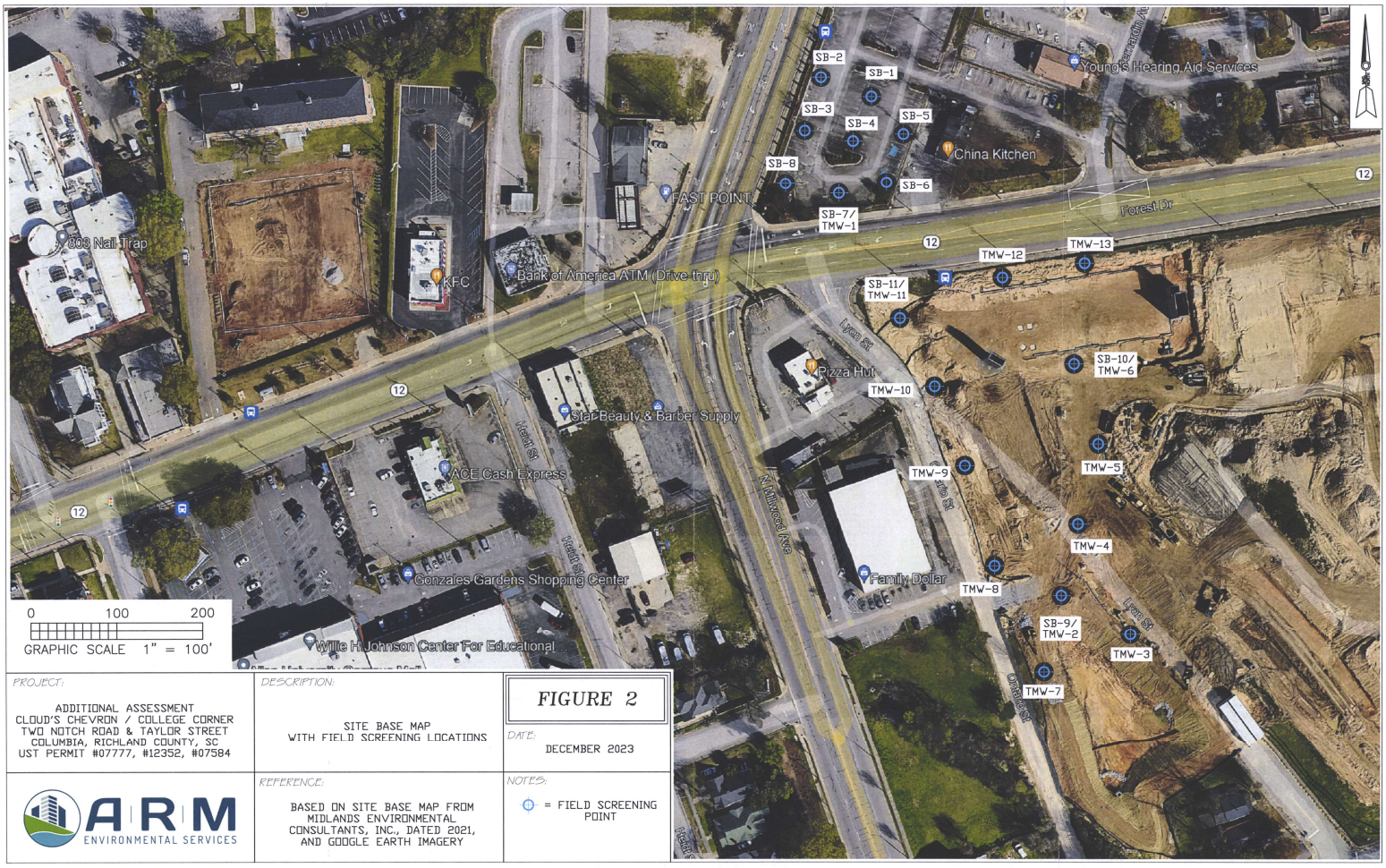
Midlands Environmental Consultants, December 2, 2021. Monitoring Report – Clouds Chevron & College Corner.

FIGURES

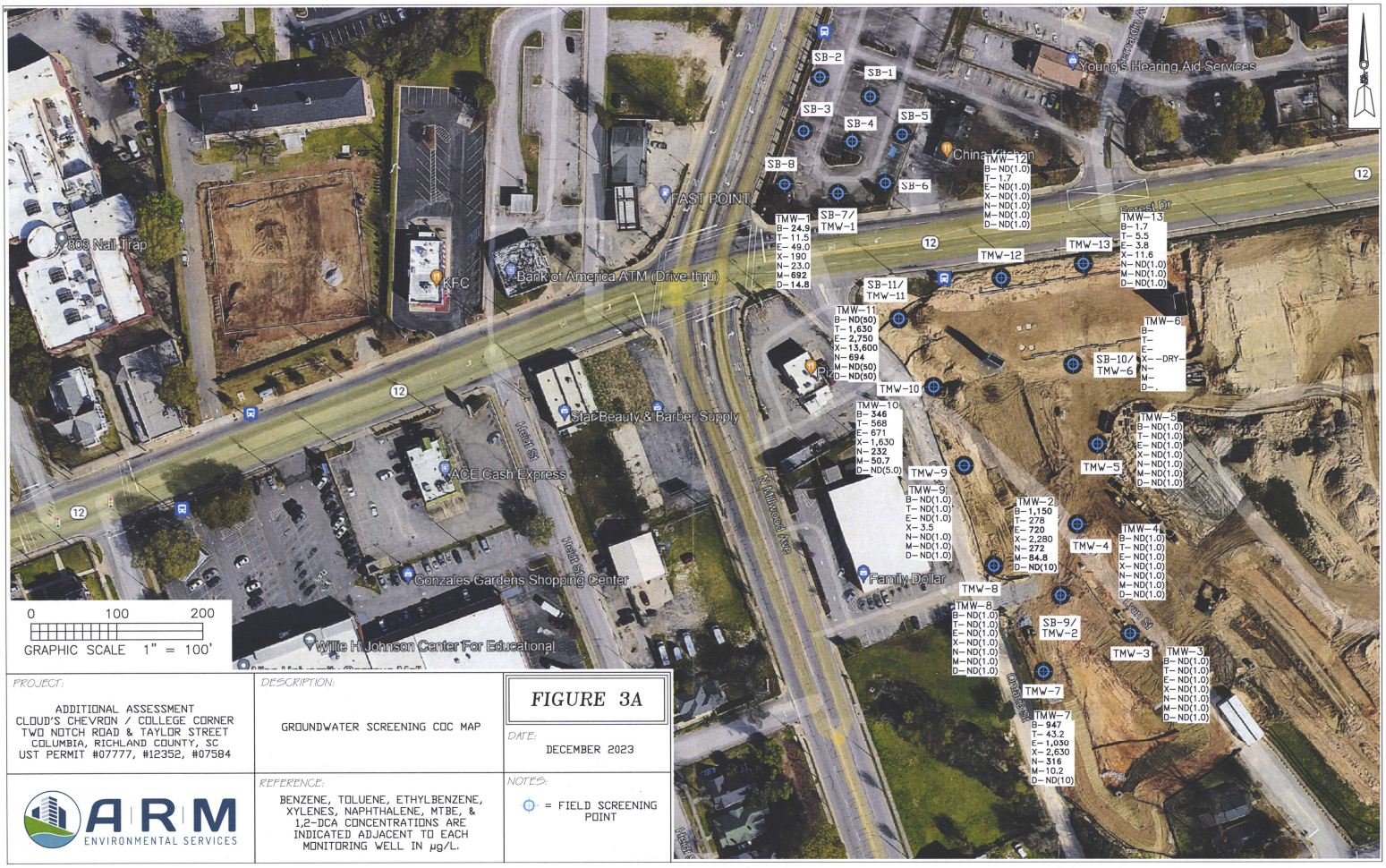
Figure 1 – Site Location Map (Topographic)
Figure 2 – Site Base Map
Figure 3A – Groundwater Screening CoC Map
Figure 3B – Groundwater Screening CoC Map (Oxy)



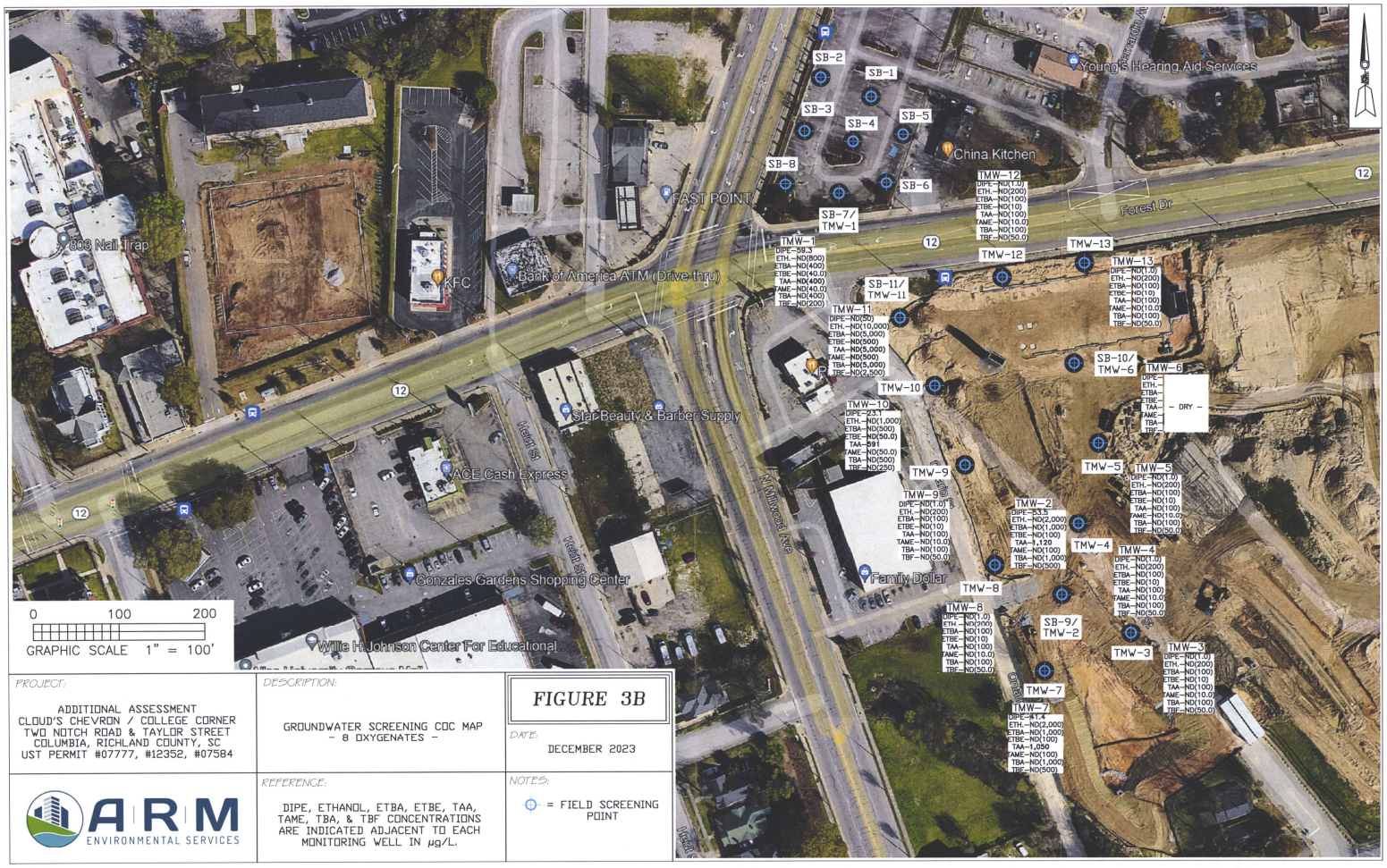
PROJECT: ADDITIONAL ASSESSMENT CLOUD'S CHEVRON / COLLEGE CORNER TWO NOTCH ROAD & TAYLOR STREET COLUMBIA, RICHLAND COUNTY, SC UST PERMIT #07777, #12352, #07584	DESCRIPTION: SITE LOCATION MAP	FIGURE 1 DATE: DECEMBER 2023
ARM ENVIRONMENTAL SERVICES	REFERENCE: U.S.G.S. TOPOGRAPHIC MAP (7.5 MINUTE SERIES) 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
A|R|M 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

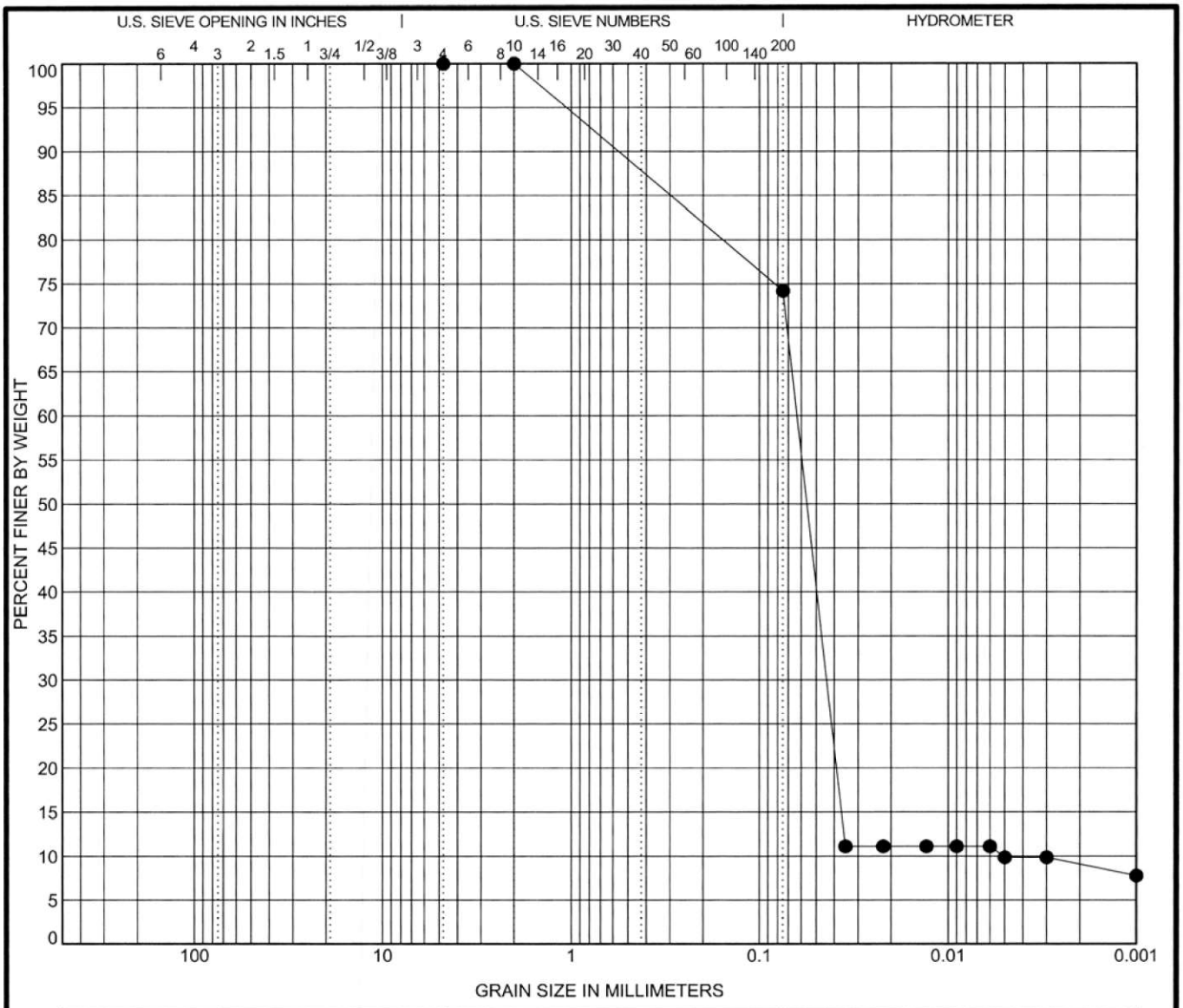
.

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

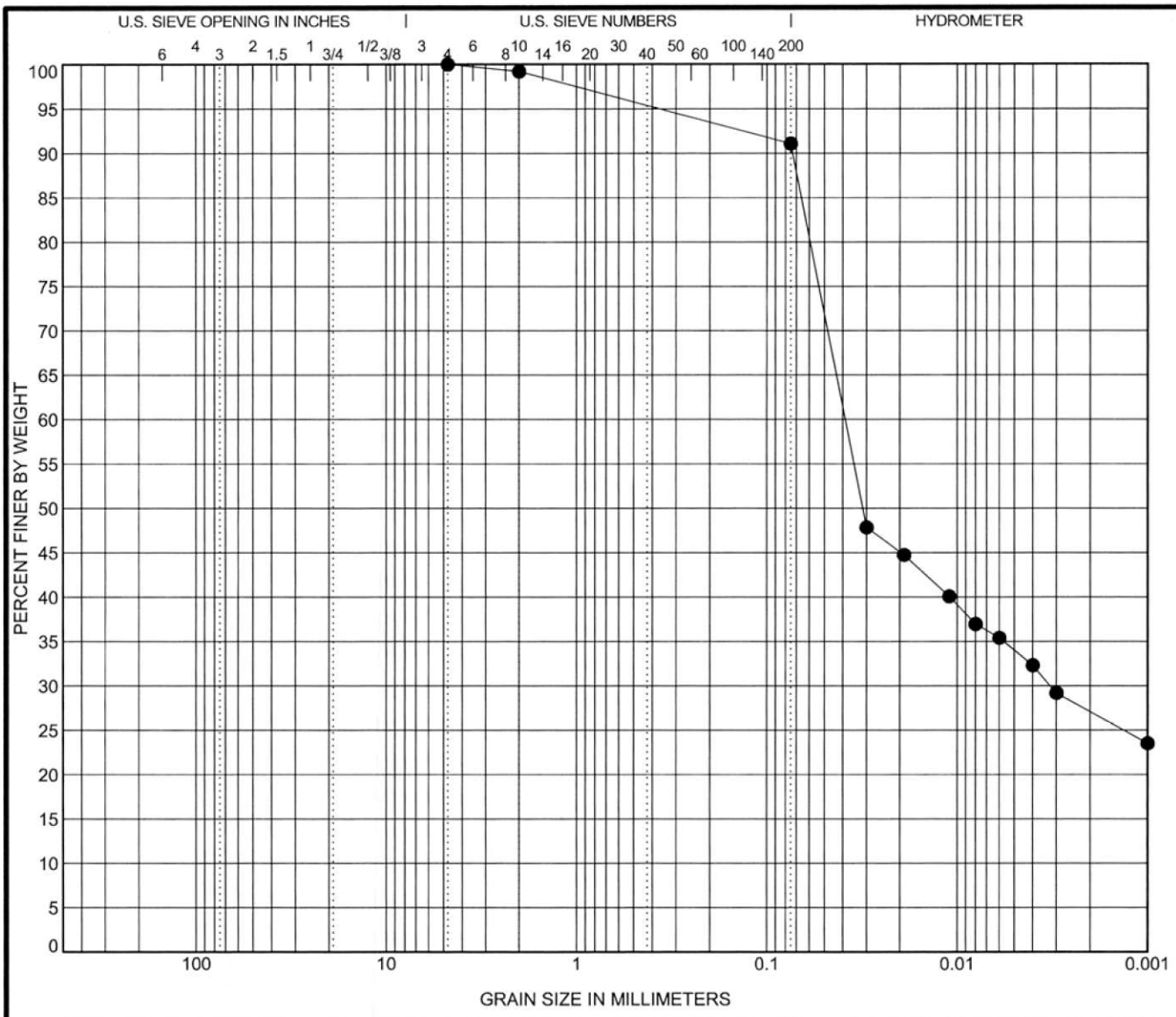
Schnabel ENGINEERING

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

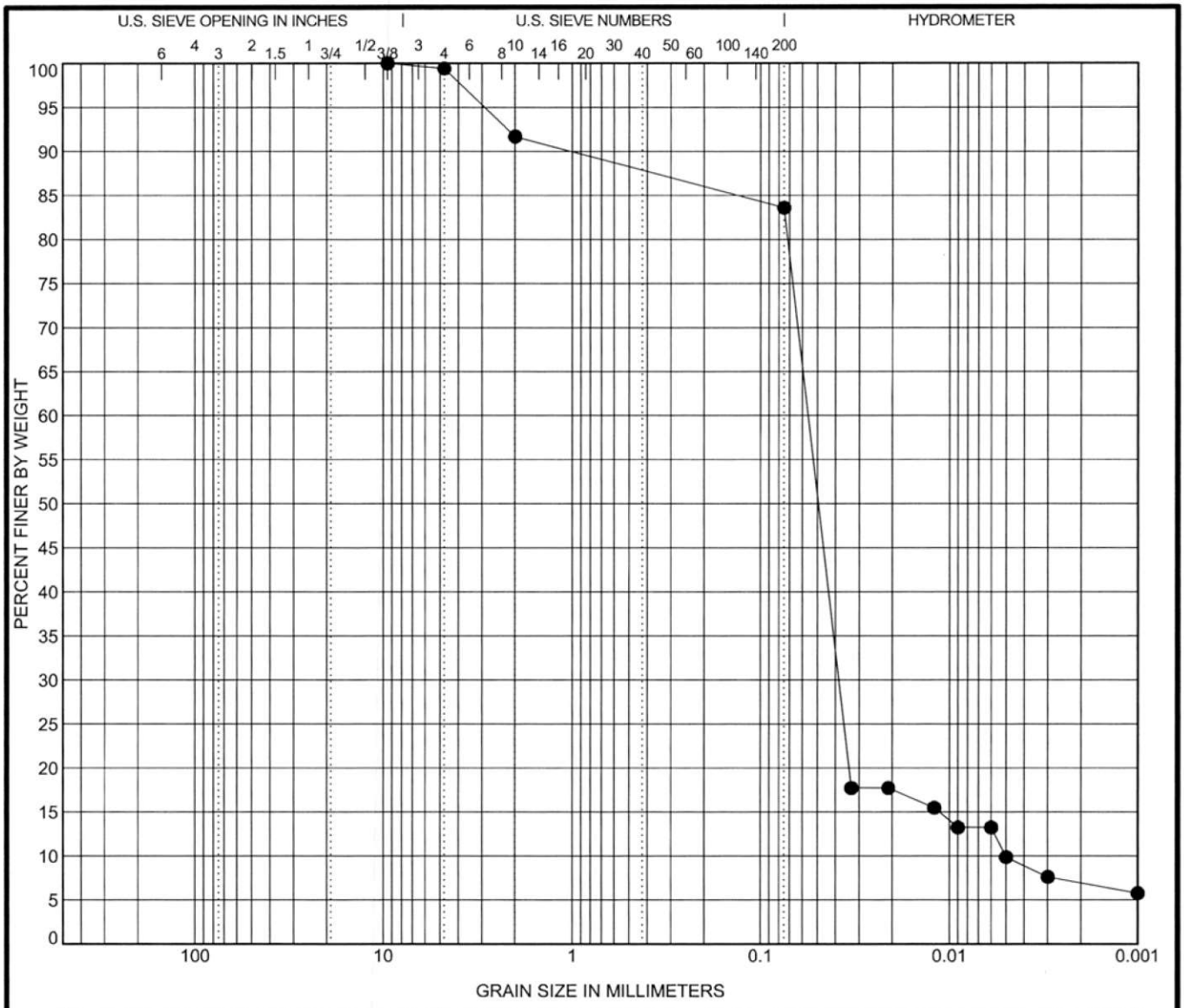
Schnabel ENGINEERING

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

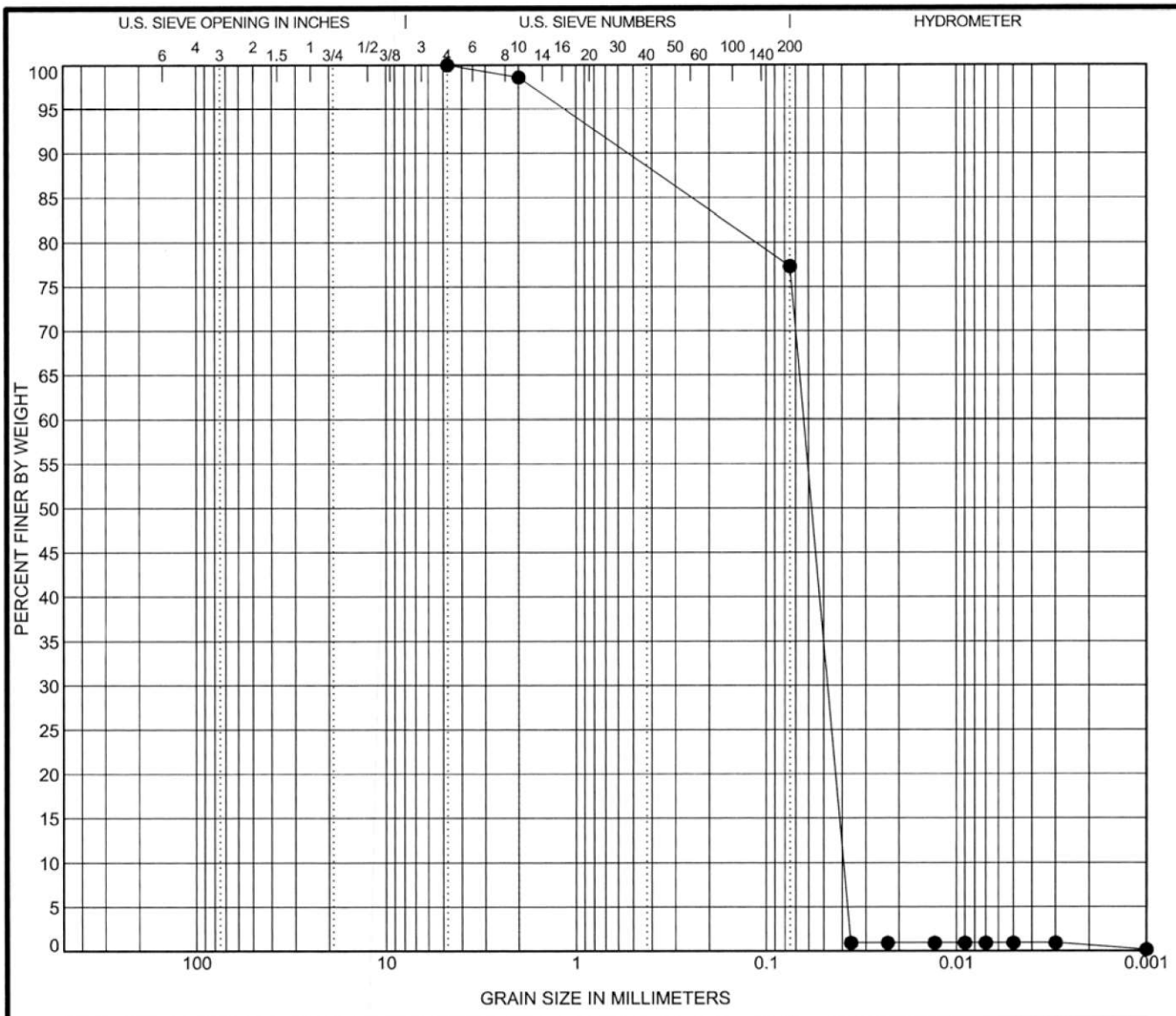
Schnabel ENGINEERING

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

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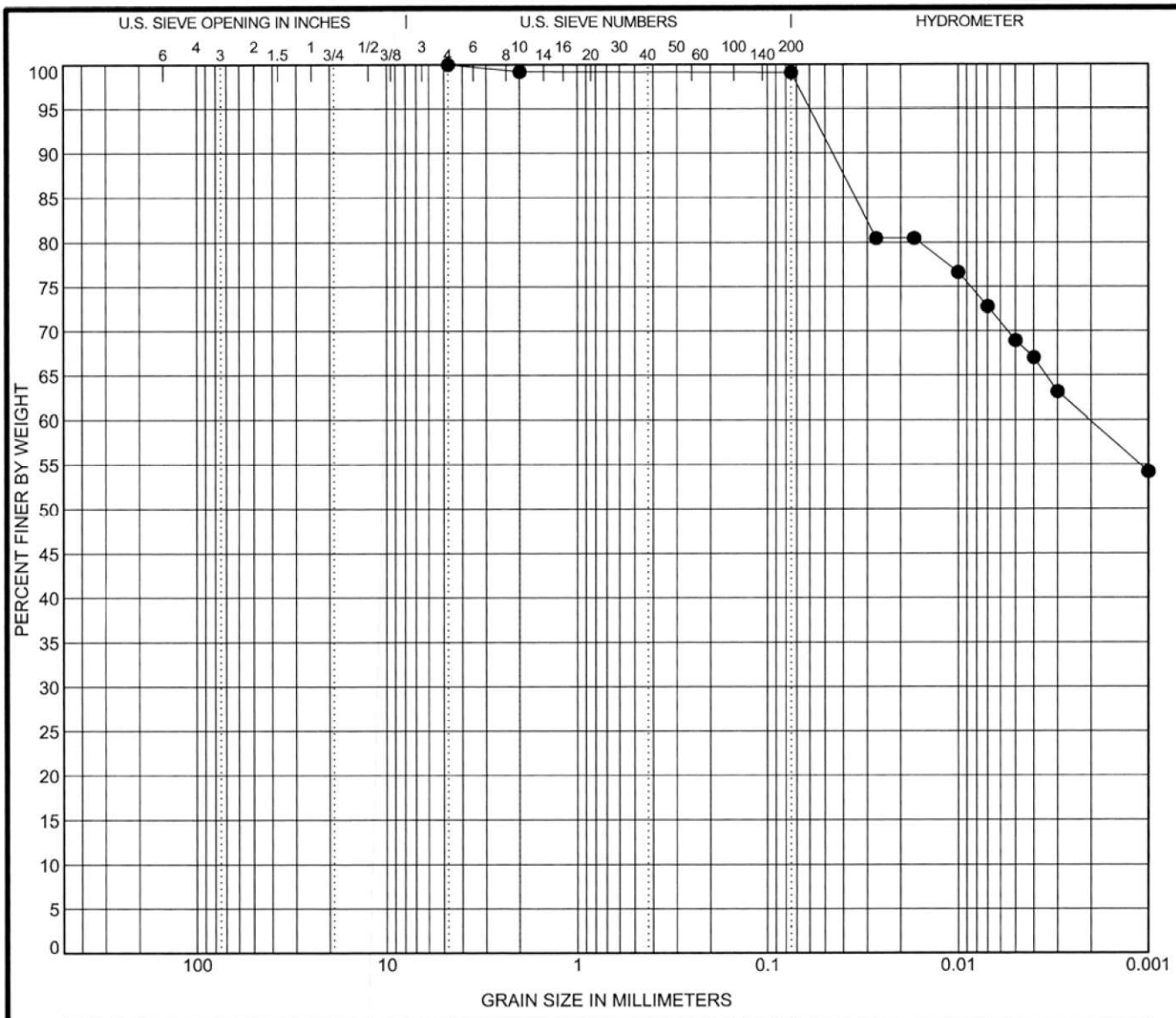
College Corner
SC

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

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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

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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

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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	

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
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	

REPORT OF LABORATORY ANALYSIS

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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	

REPORT OF LABORATORY ANALYSIS

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

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

Cooler Temp Corrected (°C): 2.9

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☑ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☒ No

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

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC? -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													
2																5													
3																5													
4																5													
5																5													
6																5													
7																5													
8																5													
9																5													
10																5													
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													
2																5													
3																5													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

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

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

CHAIN OF CUSTODY RECORD

PAGE 1 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				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				3	2	1								# of Containers
33-3010.1-23					5	5	4								Preservative
Project Name: College Corner	Laboratory Utilized: Pace Analytical LLC		G = Grab C = Composite	Matrix S, GW, DW, DI, Other	BTEX+N+M+DCA+Oxy by 8260D	EDB by 8011	Total Lead by 6010D								
Sampler Name (print): Paul Myers	Sampler Signature: [signature]														92702649
Sample ID / Description	Date	Time													Remarks
TMW-12	12/07/23	12:00	G	GW	X	X									011
TMW-13	12/07/23	11:05	G	GW	X	X									012

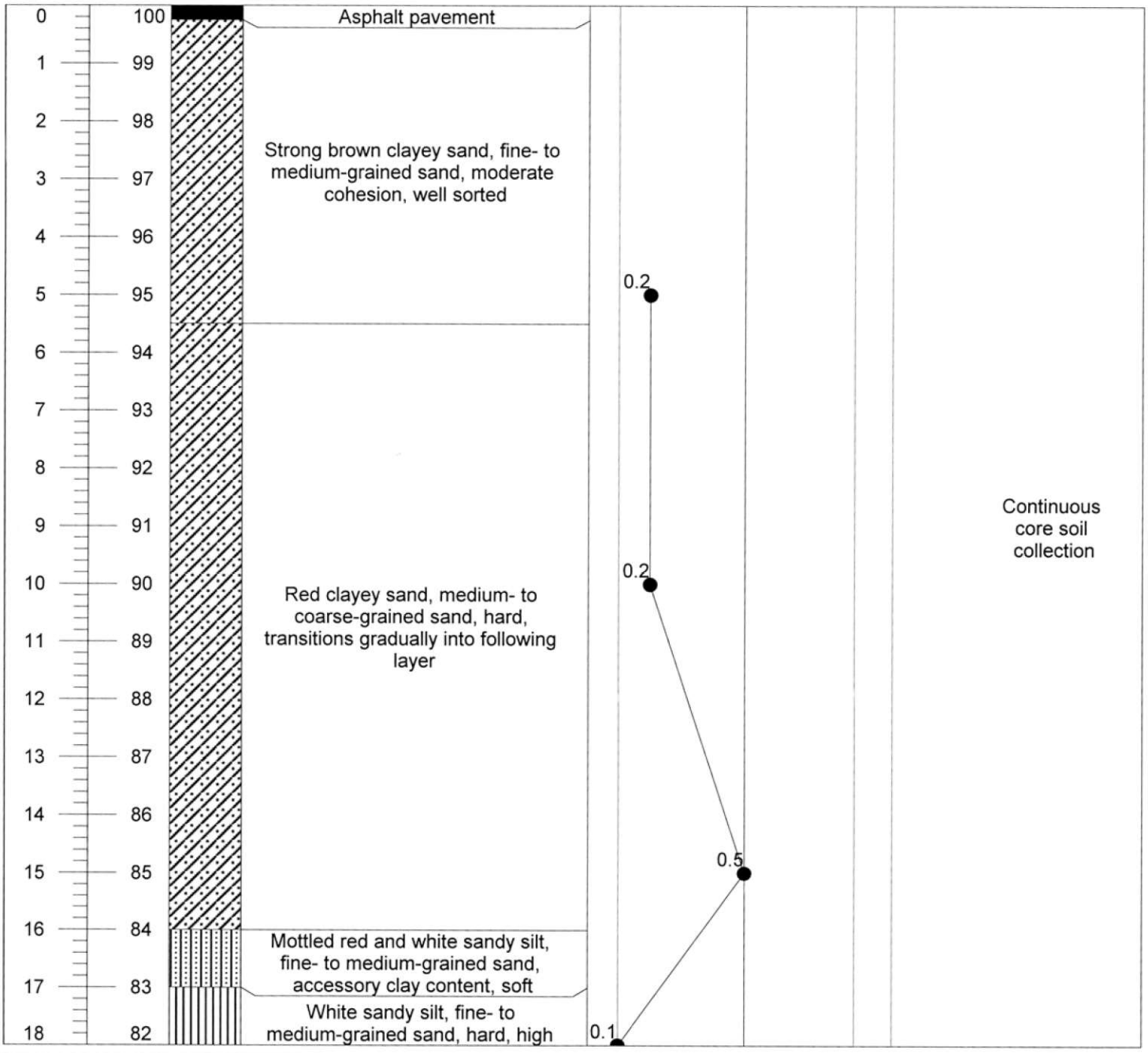
Relinquished by / Sampler	Date	Time	Received by	Date	Time	Project Manager
[signature]	12/7	16:13	[signature]	12/7/23	1613	Joseph Goings
Relinquished by: [signature]	Date 12/7/23	Time 1613	Received by: [signature] Pace Hdl	Date 12/8/23	Time 900	P.O. Number
Relinquished by	Date	Time	Received by	Date	Time	

APPENDIX C
NOT INCLUDED

APPENDIX D
SOIL BORING/ FIELD SCREENING LOGS

ARM ENVIRONMENTAL SERVICES

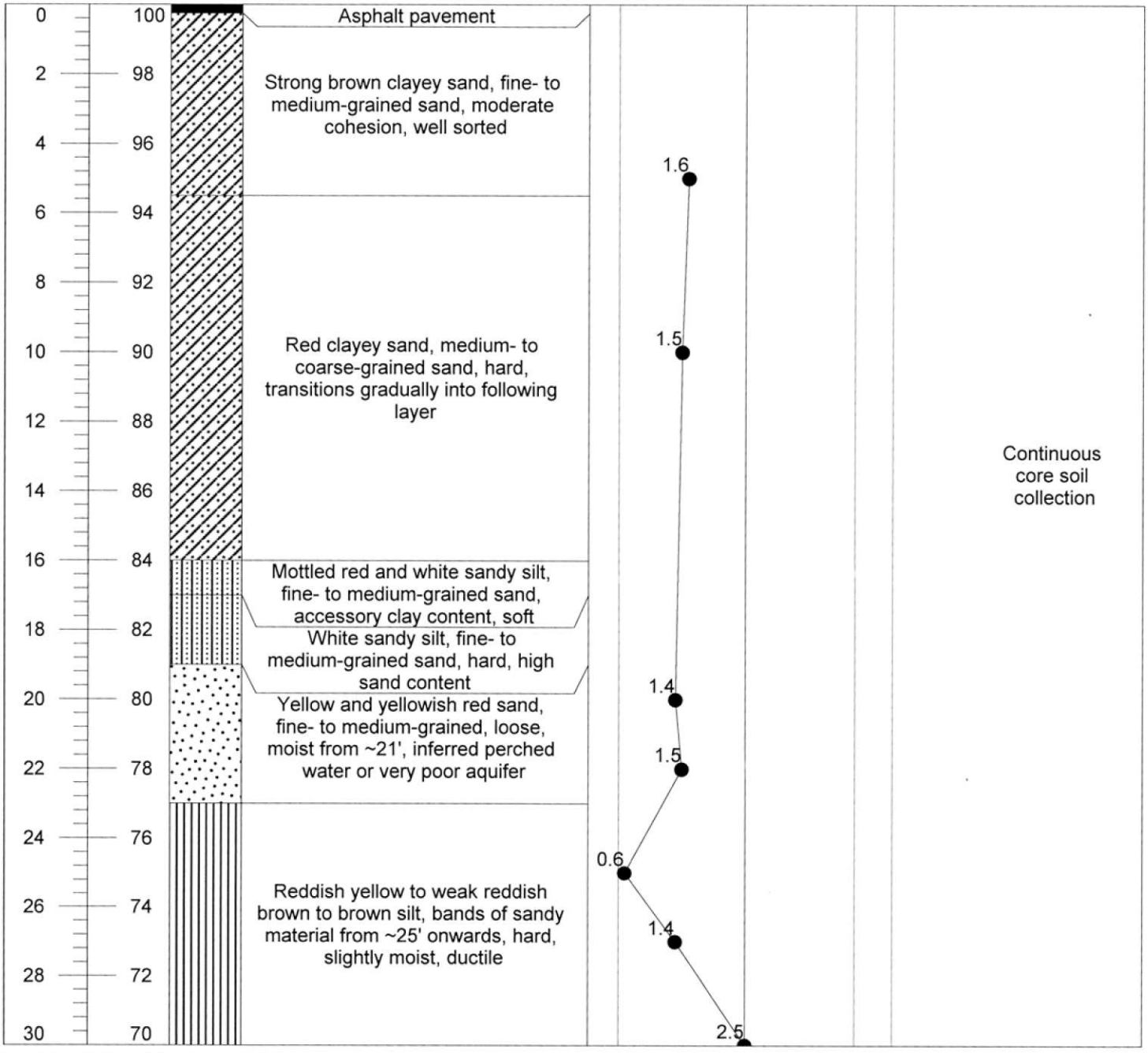
Borehole ID: SB-1



Project Name: Clouds Chevron / College Corner	Drill Method: Direct push	Driller: William Walker, cert #2042B
Project Number: 33-3010.1-23	Drill Date: 12/04/23	Total Depth of Well: 18.0'
Client Name: SC DHEC	Latitude: 34.013121°	Casing Diameter: N/A"
Location: Columbia, SC	Longitude: -81.015517°	Depth to Water: N/A'

ARM ENVIRONMENTAL SERVICES

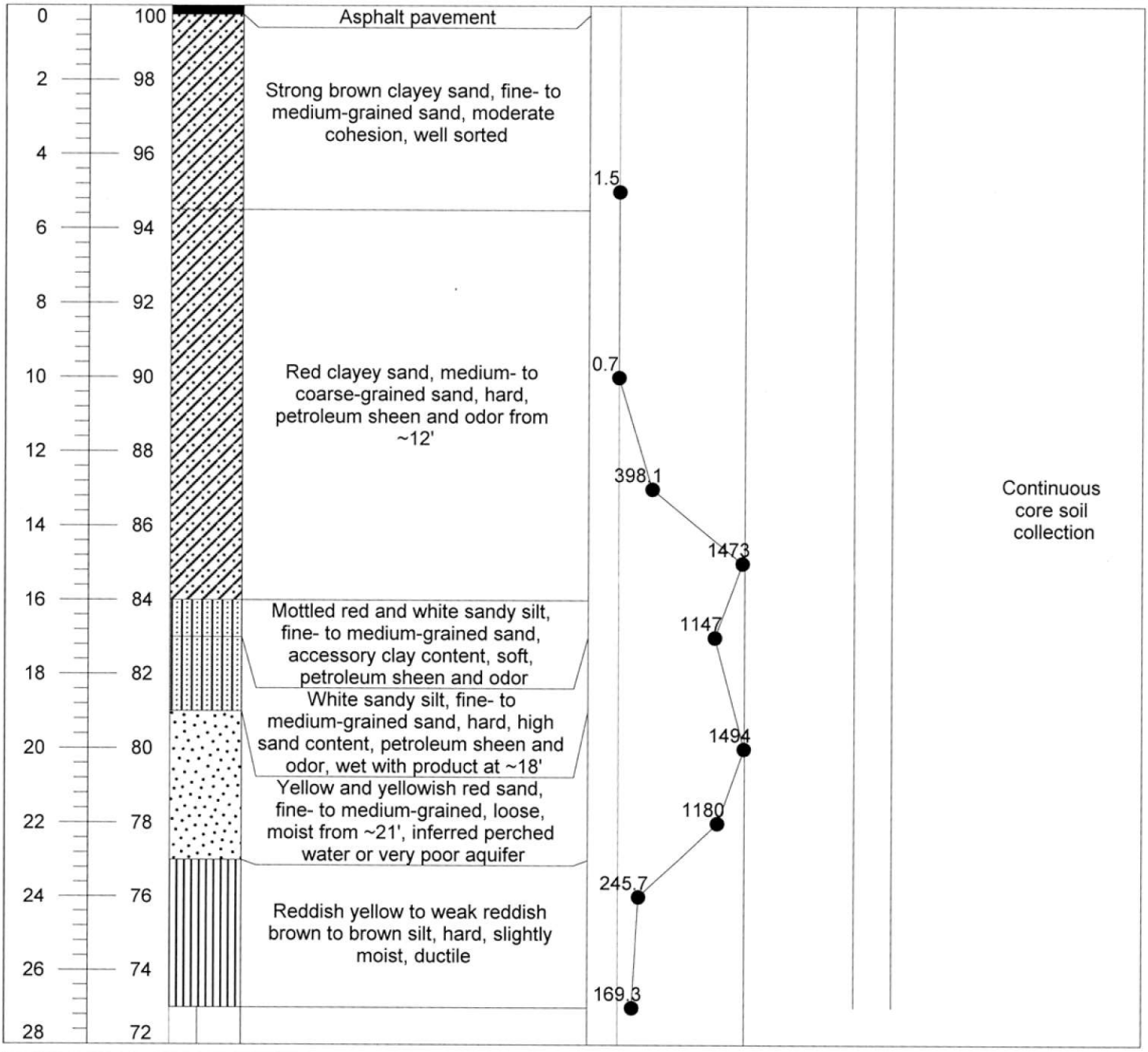
Borehole ID: SB-2



Project Name: Clouds Chevron / College Corner	Drill Method: Direct push	Driller: William Walker, cert #2042B
Project Number: 33-3010.1-23	Drill Date: 12/04/23	Total Depth of Well: 27.0'
Client Name: SC DHEC	Latitude: 34.013121°	Casing Diameter: N/A"
Location: Columbia, SC	Longitude: -81.015517°	Depth to Water: N/A'

ARM ENVIRONMENTAL SERVICES

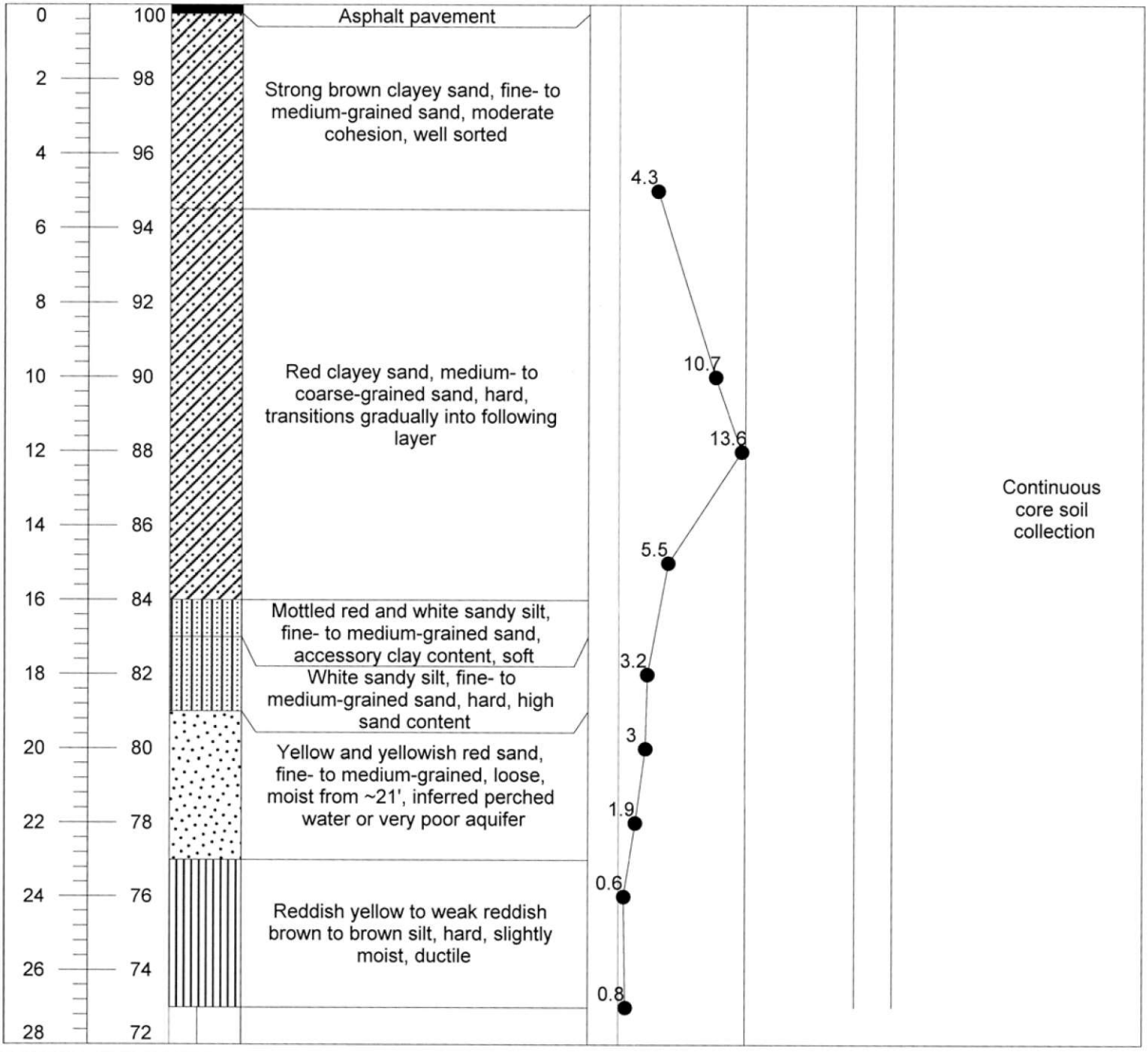
Borehole ID: SB-3



Project Name: Clouds Chevron / College Corner	Drill Method: Direct push	Driller: William Walker, cert #2042B
Project Number: 33-3010.1-23	Drill Date: 12/04/23	Total Depth of Well: 27.0'
Client Name: SC DHEC	Latitude: 34.013121°	Casing Diameter: N/A"
Location: Columbia, SC	Longitude: -81.015517°	Depth to Water: N/A'

ARM ENVIRONMENTAL SERVICES

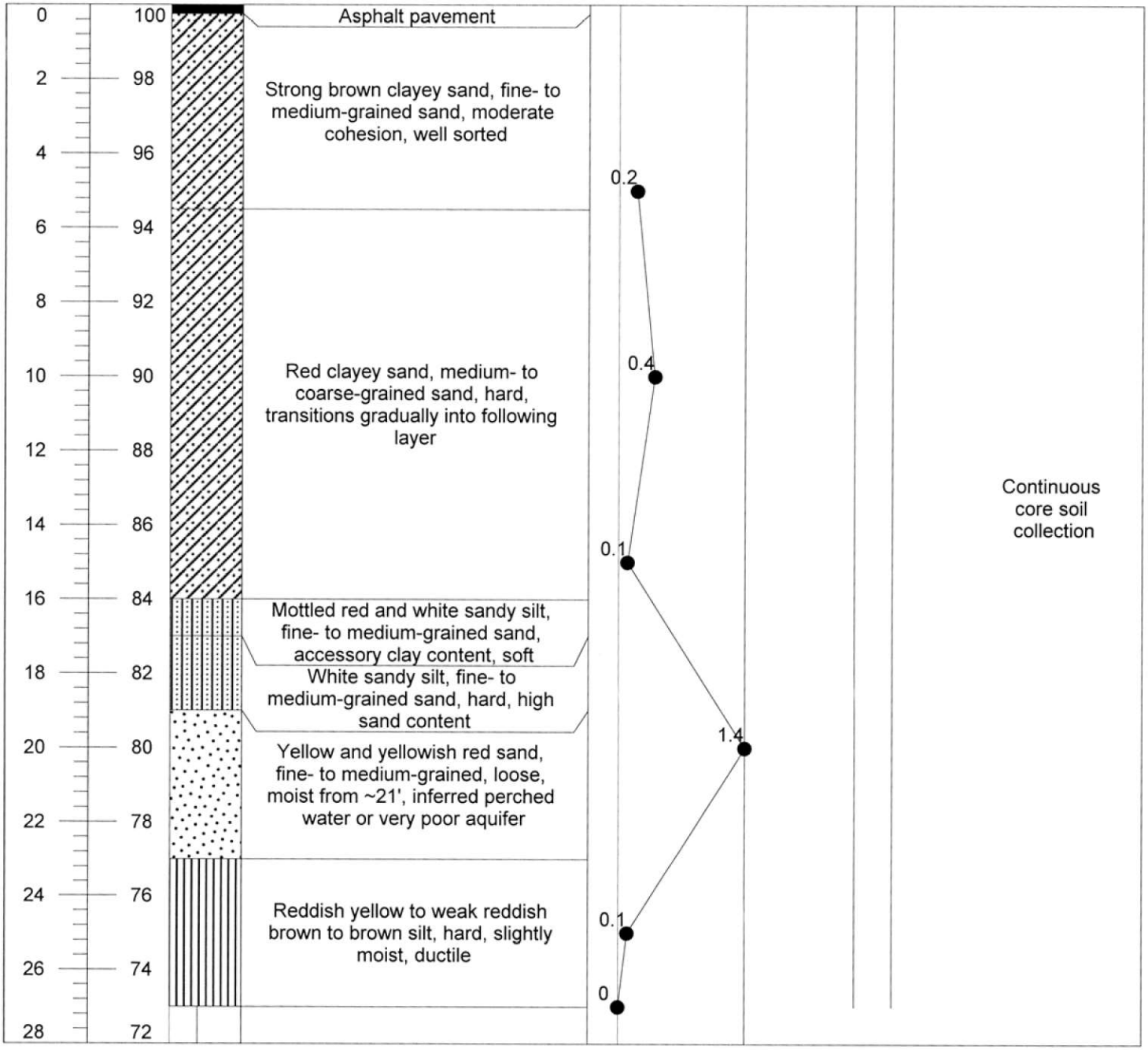
Borehole ID: SB-4



Project Name: Clouds Chevron / College Corner	Drill Method: Direct push	Driller: William Walker, cert #2042B
Project Number: 33-3010.1-23	Drill Date: 12/04/23	Total Depth of Well: 27.0'
Client Name: SC DHEC	Latitude: 34.013121°	Casing Diameter: N/A"
Location: Columbia, SC	Longitude: -81.015517°	Depth to Water: N/A'

ARM ENVIRONMENTAL SERVICES

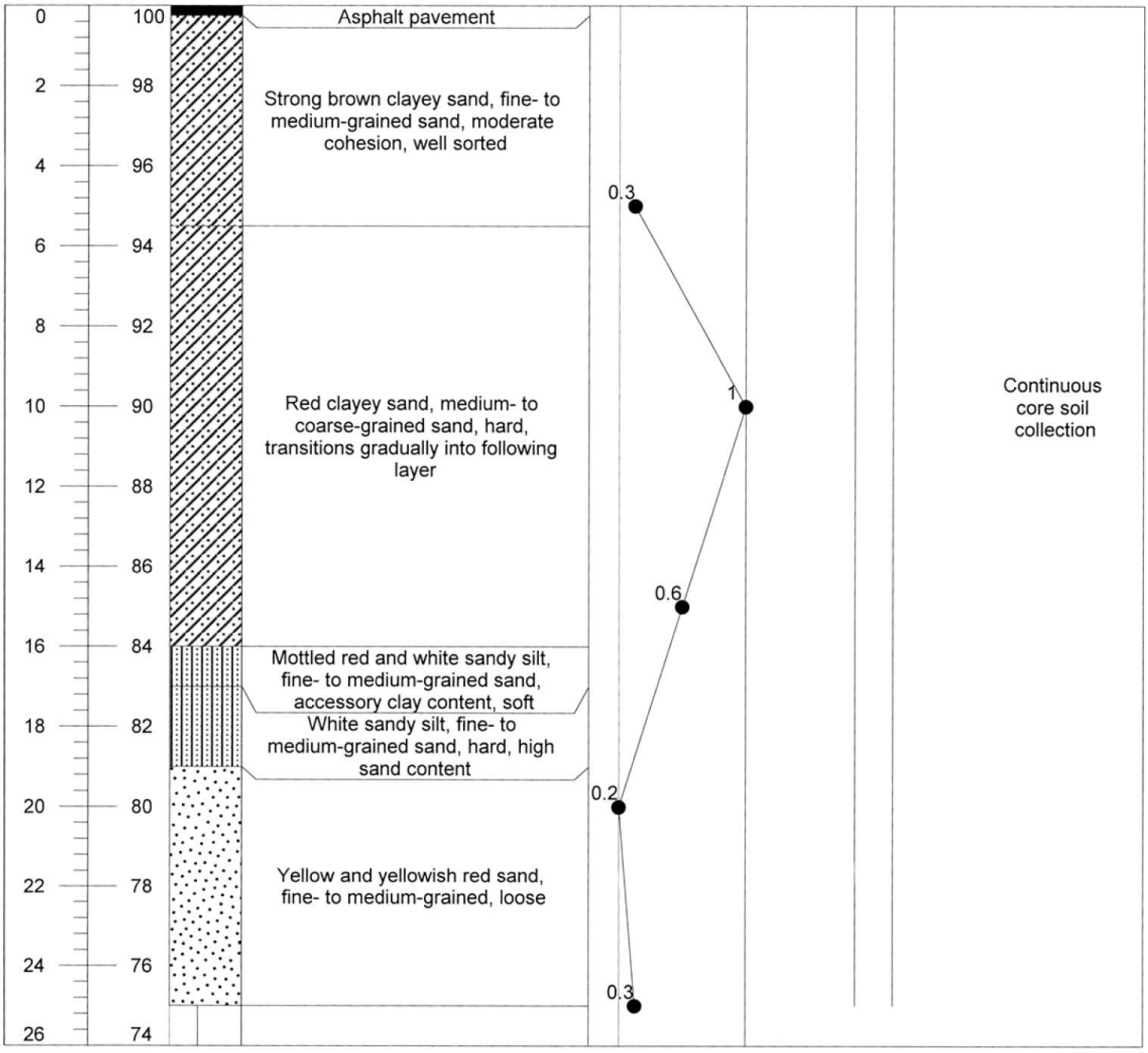
Borehole ID: SB-5



Project Name: Clouds Chevron / College Corner	Drill Method: Direct push	Driller: William Walker, cert #2042B
Project Number: 33-3010.1-23	Drill Date: 12/04/23	Total Depth of Well: 27.0'
Client Name: SC DHEC	Latitude: 34.013121°	Casing Diameter: N/A"
Location: Columbia, SC	Longitude: -81.015517°	Depth to Water: N/A'

ARM ENVIRONMENTAL SERVICES

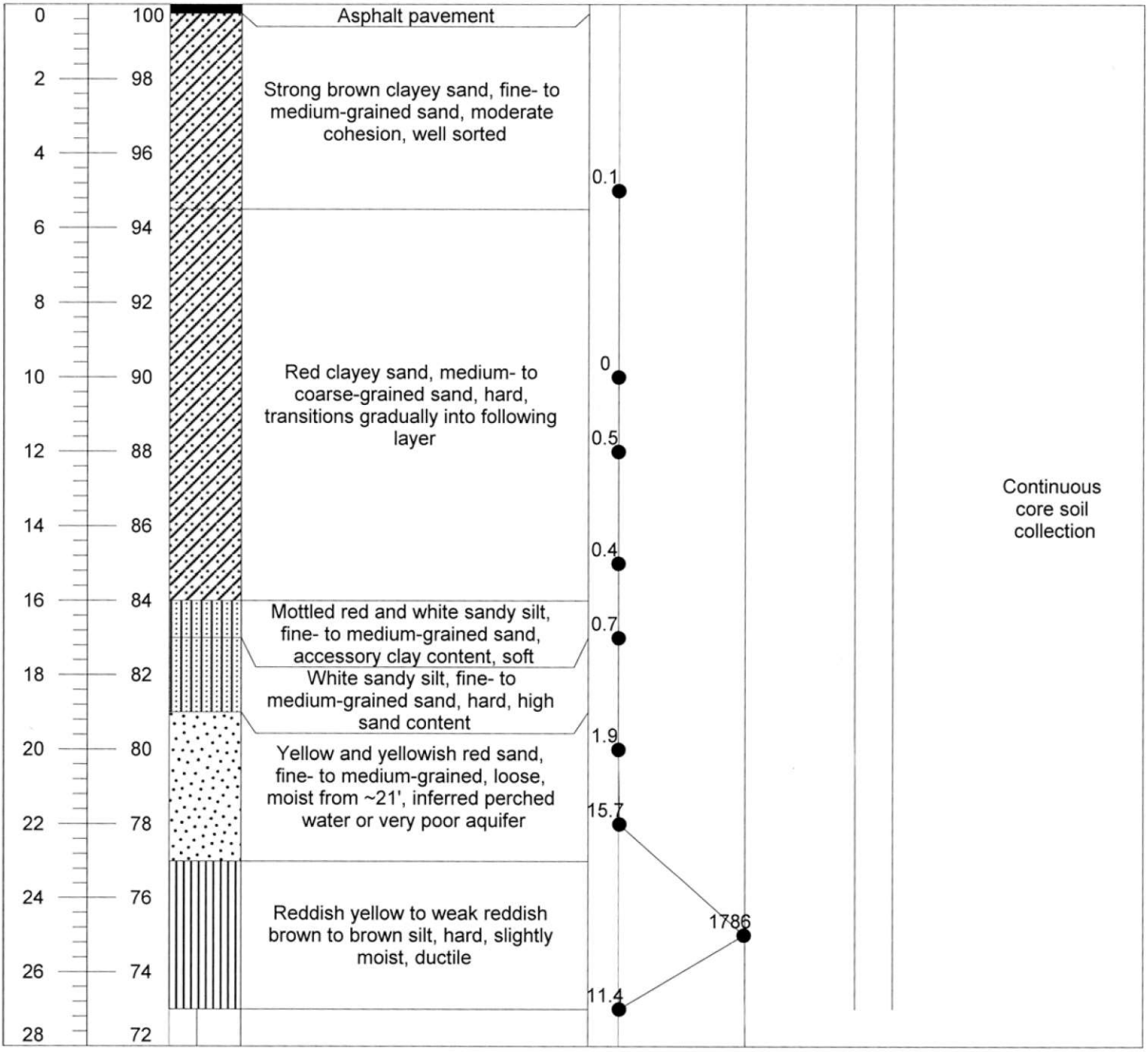
Borehole ID: SB-6



Project Name: Clouds Chevron / College Corner	Drill Method: Direct push	Driller: William Walker, cert #2042B
Project Number: 33-3010.1-23	Drill Date: 12/04/23	Total Depth of Well: 20.0'
Client Name: SC DHEC	Latitude: 34.013121°	Casing Diameter: N/A"
Location: Columbia, SC	Longitude: -81.015517°	Depth to Water: N/A'

ARM ENVIRONMENTAL SERVICES

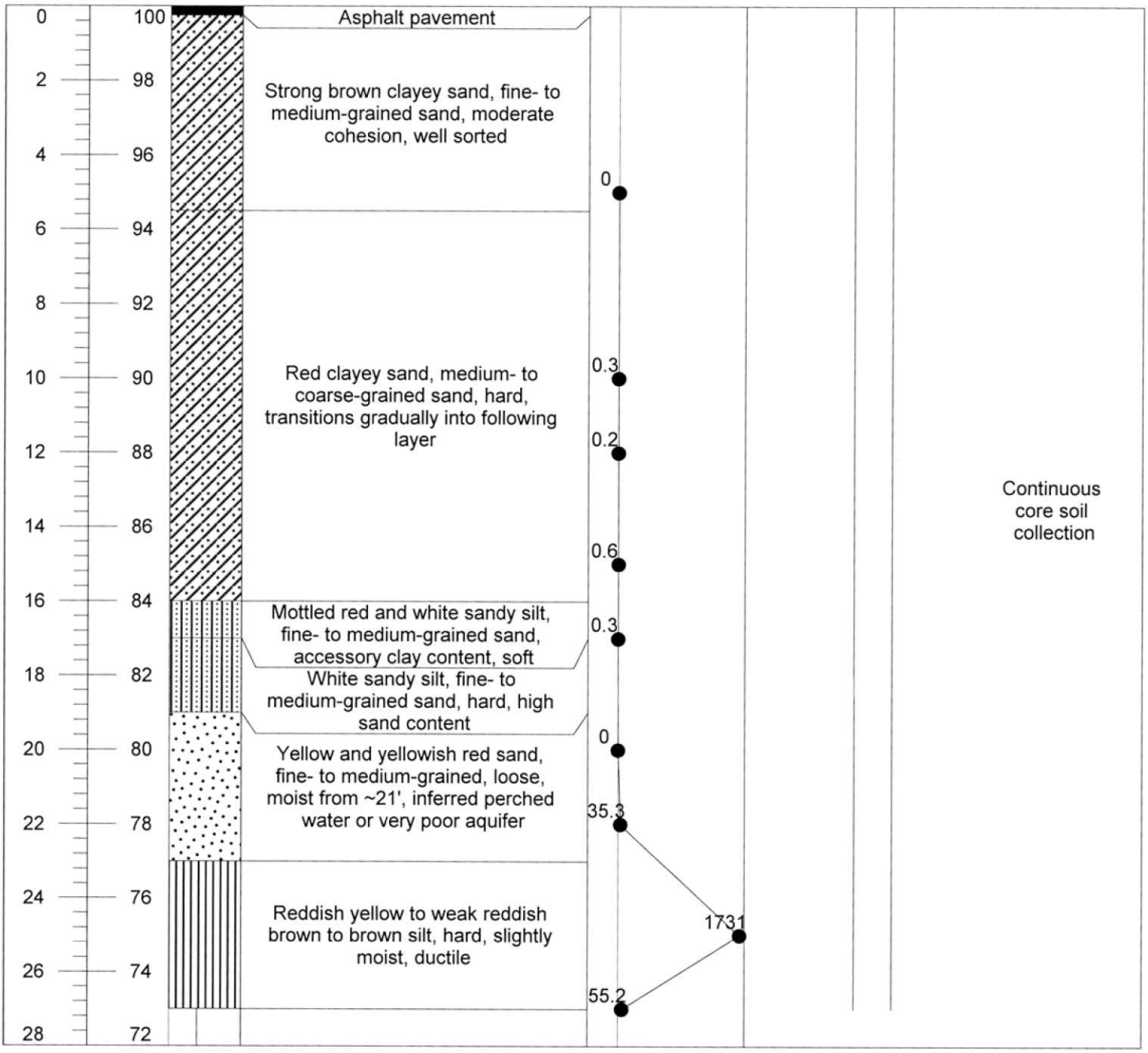
Borehole ID: SB-7



Project Name: Clouds Chevron / College Corner	Drill Method: Direct push	Driller: William Walker, cert #2042B
Project Number: 33-3010.1-23	Drill Date: 12/04/23	Total Depth of Well: 27.0'
Client Name: SC DHEC	Latitude: 34.013121°	Casing Diameter: N/A"
Location: Columbia, SC	Longitude: -81.015517°	Depth to Water: N/A'

ARM ENVIRONMENTAL SERVICES

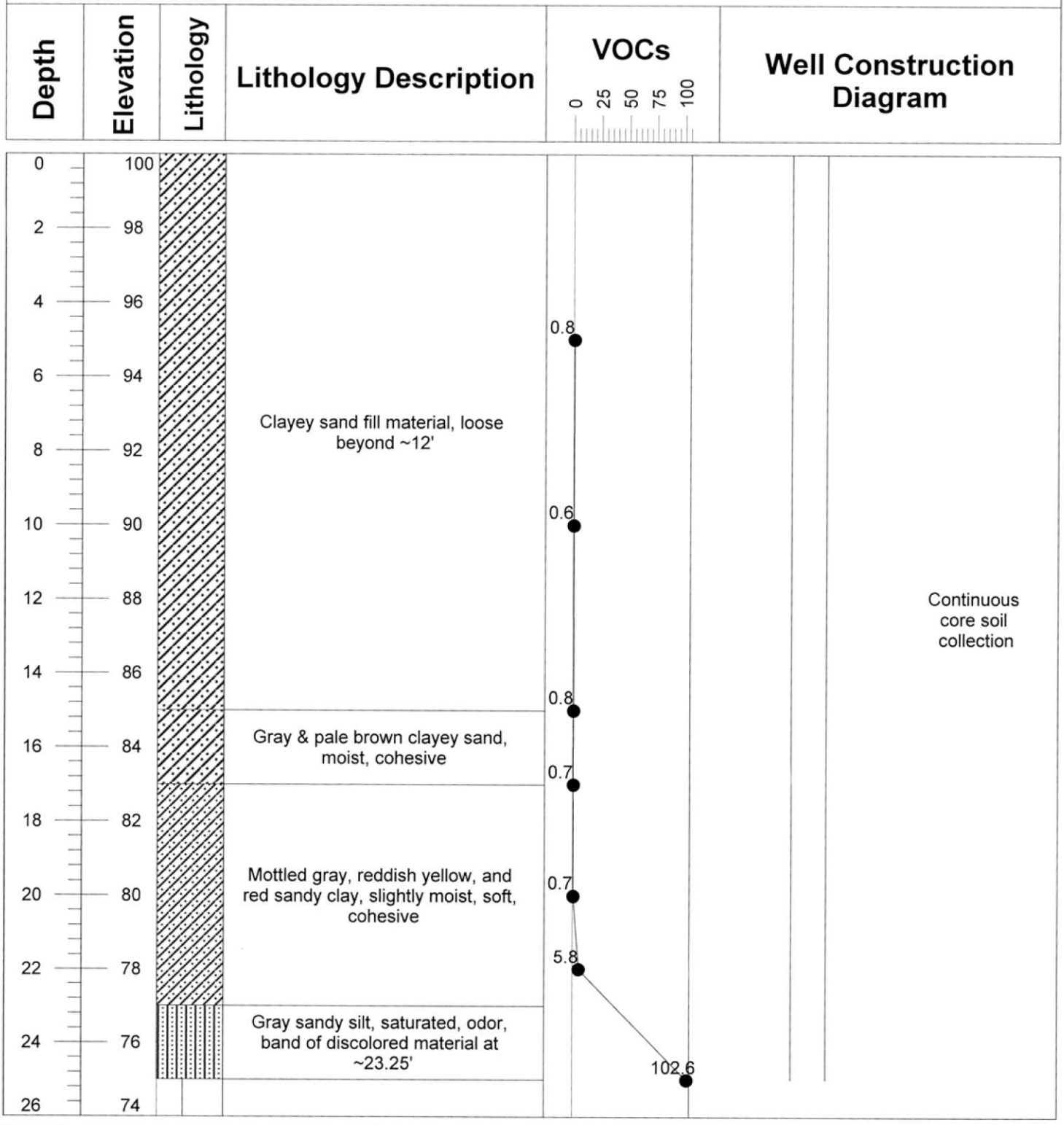
Borehole ID: SB-8



Project Name: Clouds Chevron / College Corner	Drill Method: Direct push	Driller: William Walker, cert #2042B
Project Number: 33-3010.1-23	Drill Date: 12/05/23	Total Depth of Well: 27.0'
Client Name: SC DHEC	Latitude: 34.013121°	Casing Diameter: N/A"
Location: Columbia, SC	Longitude: -81.015517°	Depth to Water: N/A'

ARM ENVIRONMENTAL SERVICES

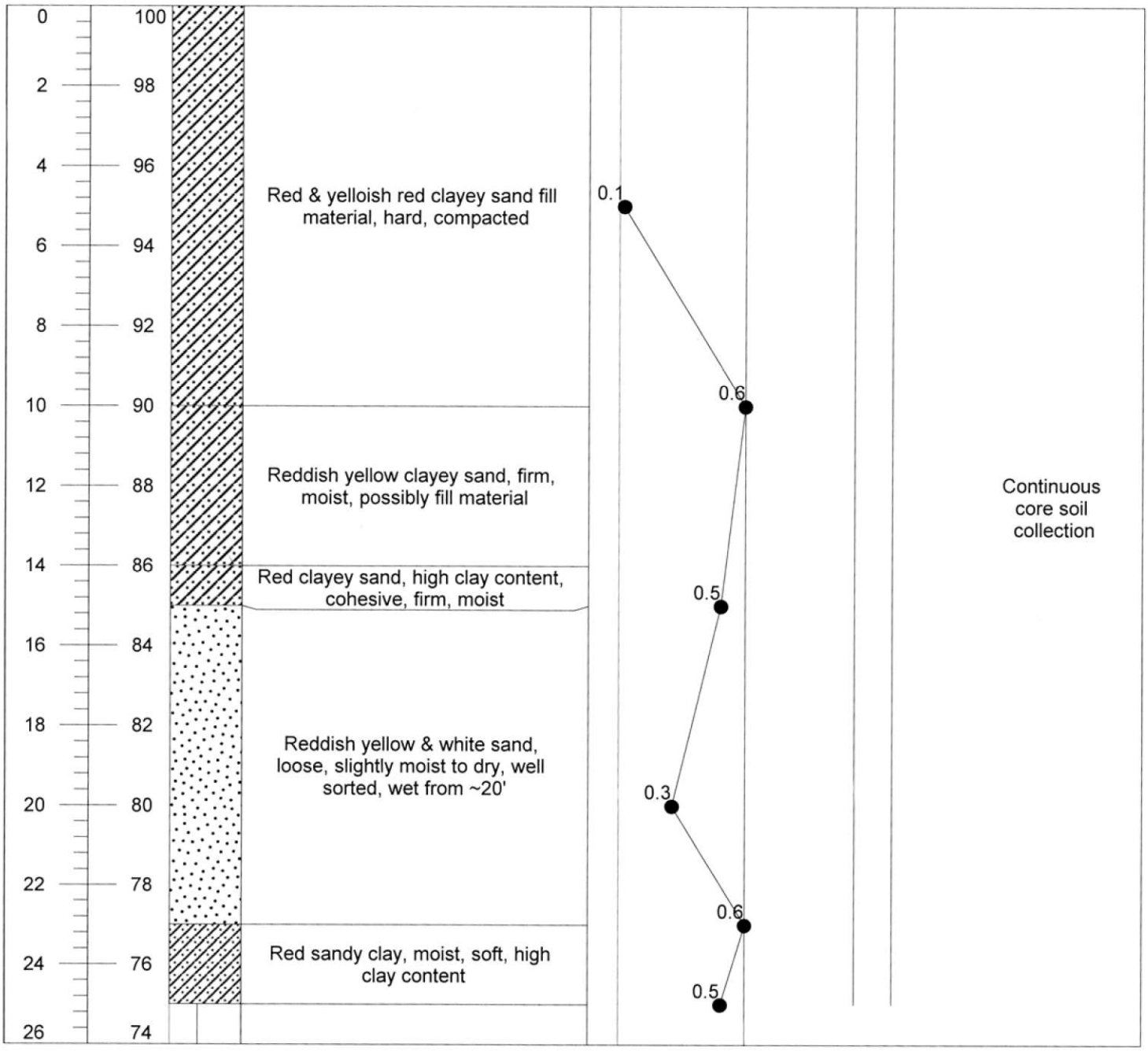
Borehole ID: SB-9



Project Name: Clouds Chevron / College Corner	Drill Method: Direct push	Driller: William Walker, cert #2042B
Project Number: 33-3010.1-23	Drill Date: 12/06/23	Total Depth of Well: 25.0'
Client Name: SC DHEC	Latitude: 34.012278°	Casing Diameter: N/A"
Location: Columbia, SC	Longitude: -81.014573°	Depth to Water: N/A'

ARM ENVIRONMENTAL SERVICES

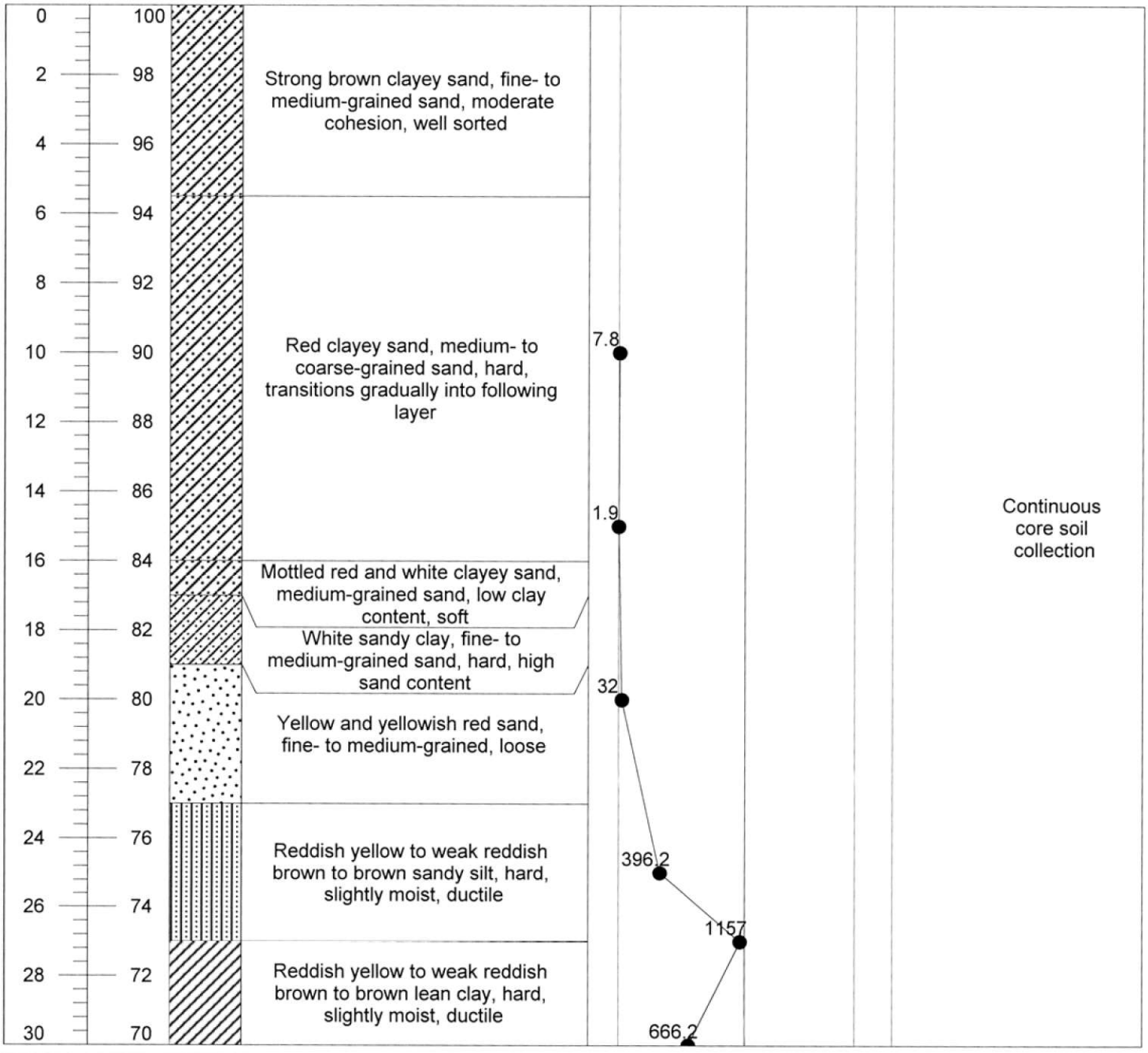
Borehole ID: SB-10



Project Name: Clouds Chevron / College Corner	Drill Method: Direct push	Driller: William Walker, cert #2042B
Project Number: 33-3010.1-23	Drill Date: 12/07/23	Total Depth of Well: 25.0'
Client Name: SC DHEC	Latitude: 34.012278°	Casing Diameter: N/A"
Location: Columbia, SC	Longitude: -81.014573°	Depth to Water: N/A'

ARM ENVIRONMENTAL SERVICES

Borehole ID: SB-11



Project Name: Clouds Chevron / College Corner	Drill Method: Direct push	Driller: William Walker, cert #2042B
Project Number: 33-3010.1-23	Drill Date: 12/07/23	Total Depth of Well: 30.0'
Client Name: SC DHEC	Latitude: 34.012278°	Casing Diameter: N/A"
Location: Columbia, SC	Longitude: -81.014573°	Depth to Water: N/A'

ARM ENVIRONMENTAL SERVICES

Borehole ID: TMW-1

Depth	Elevation	Lithology	Lithology Description	VOCs (0, 0.25, 0.5, 0.75, 1)	Well Construction Diagram
0	100				
2	98				
4	96				
6	94				
8	92				
10	90				
12	88				
14	86				1.5" Steel rod
16	84				
18	82				
20	80				
22	78				
24	76				
26	74				
28	72				
30	70				1.5" Steel screenpoint sampler
32	68				
34	66				

Project Name: Clouds Chevron / College Corner	Drill Method: Direct push	Driller: William Walker, cert #2042B
Project Number: 33-3010.1-23	Drill Date: 12/05/23	Total Depth of Well: 33.0'
Client Name: SC DHEC	Latitude: 34.013121°	Casing Diameter: 1.5"
Location: Columbia, SC	Longitude: -81.015517°	Depth to Water: N/A'

ARM ENVIRONMENTAL SERVICES

Borehole ID: TMW-2

Depth	Elevation	Lithology	Lithology Description	VOCs (0, 0.25, 0.5, 0.75, 1)	Well Construction Diagram
0	100				
2	98				
4	96				
6	94				
8	92				
10	90				
12	88				
14	86				1.5" Steel rod
16	84				
18	82				
20	80				
22	78				
24	76				
26	74				
28	72				1.5" Steel screenpoint sampler
30	70				

Project Name: Clouds Chevron / College Corner
Project Number: 33-3010.1-23
Client Name: SC DHEC
Location: Columbia, SC

Drill Method: Direct push
Drill Date: 12/05/23
Latitude: 34.012278°
Longitude: -81.014573°

Driller: William Walker, cert #2042B
Total Depth of Well: 30.0'
Casing Diameter: 1.5"
Depth to Water: N/A'

ARM ENVIRONMENTAL SERVICES

Borehole ID: TMW-3

Depth	Elevation	Lithology	Lithology Description	VOCs (0, 0.25, 0.5, 0.75, 1)	Well Construction Diagram
0	100				
2	98				
4	96				
6	94				
8	92				
10	90				1.5" Steel rod
12	88				
14	86				
16	84				
18	82				
20	80				
22	78				1.5" Steel screenpoint sampler
24	76				

Project Name: Clouds Chevron / College Corner
Project Number: 33-3010.1-23
Client Name: SC DHEC
Location: Columbia, SC

Drill Method: Direct push
Drill Date: 12/05/23
Latitude: 34.012278°
Longitude: -81.014573°

Driller: William Walker, cert #2042B
Total Depth of Well: 23.0'
Casing Diameter: 1.5"
Depth to Water: N/A'

ARM ENVIRONMENTAL SERVICES

Borehole ID: TMW-4

Depth	Elevation	Lithology	Lithology Description	VOCs (0, 0.25, 0.5, 0.75, 1)	Well Construction Diagram
0	100				
2	98				
4	96				
6	94				
8	92				
10	90				1.5" Steel rod
12	88				
14	86				
16	84				
18	82				
20	80				
22	78				1.5" Steel screenpoint sampler
24	76				

Project Name: Clouds Chevron / College Corner
Project Number: 33-3010.1-23
Client Name: SC DHEC
Location: Columbia, SC

Drill Method: Direct push
Drill Date: 12/05/23
Latitude: 34.012278°
Longitude: -81.014573°

Driller: William Walker, cert #2042B
Total Depth of Well: 23.0'
Casing Diameter: 1.5"
Depth to Water: N/A'

ARM ENVIRONMENTAL SERVICES

Borehole ID: TMW-5

Depth	Elevation	Lithology	Lithology Description	VOCs (0, 0.25, 0.5, 0.75, 1)	Well Construction Diagram
0	100				
2	98				
4	96				
6	94				
8	92				
10	90				
12	88				1.5" Steel rod
14	86				
16	84				
18	82				
20	80				
22	78				
24	76				1.5" Steel screenpoint sampler
26	74				

Project Name: Clouds Chevron / College Corner
Project Number: 33-3010.1-23
Client Name: SC DHEC
Location: Columbia, SC

Drill Method: Direct push
Drill Date: 12/06/23
Latitude: 34.012278°
Longitude: -81.014573°

Driller: William Walker, cert #2042B
Total Depth of Well: 25.0'
Casing Diameter: 1.5"
Depth to Water: N/A'

ARM ENVIRONMENTAL SERVICES

Borehole ID: TMW-6

Depth	Elevation	Lithology	Lithology Description	VOCs (0, 0.25, 0.5, 0.75, 1)	Well Construction Diagram
0	100				
2	98				
4	96				
6	94				
8	92				
10	90				
12	88				
14	86				1.5" Steel rod
16	84				
18	82				
20	80				
22	78				
24	76				
26	74				
28	72				1.5" Steel screenpoint sampler
30	70				

Project Name: Clouds Chevron / College Corner
Project Number: 33-3010.1-23
Client Name: SC DHEC
Location: Columbia, SC

Drill Method: Direct push
Drill Date: 12/06/23
Latitude: 34.012278°
Longitude: -81.014573°

Driller: William Walker, cert #2042B
Total Depth of Well: 30.0'
Casing Diameter: 1.5"
Depth to Water: N/A'

ARM ENVIRONMENTAL SERVICES

Borehole ID: TMW-7

Depth	Elevation	Lithology	Lithology Description	VOCs (0, 0.25, 0.5, 0.75, 1)	Well Construction Diagram
0	100				
0.5	99.5				
1	99				
1.5	98.5				
2	98				
2.5	97.5				
3	97				1.5" Steel rod
3.5	96.5				
4	96				
4.5	95.5				
5	95				
5.5	94.5				
6	94				
6.5	93.5				
7	93				
7.5	92.5				
8	92				1.5" Steel screenpoint sampler
8.5	91.5				
9	91				

Project Name: Clouds Chevron / College Corner	Drill Method: Direct push	Driller: William Walker, cert #2042B
Project Number: 33-3010.1-23	Drill Date: 12/06/23	Total Depth of Well: 9.0'
Client Name: SC DHEC	Latitude: 34.012278°	Casing Diameter: 1.5"
Location: Columbia, SC	Longitude: -81.014573°	Depth to Water: N/A'

ARM ENVIRONMENTAL SERVICES

Borehole ID: TMW-8

Depth	Elevation	Lithology	Lithology Description	VOCs (0, 0.25, 0.5, 0.75, 1)	Well Construction Diagram
0	100				
1	99				
2	98				
3	97				
4	96				
5	95				1.5" Steel rod
6	94				
7	93				
8	92				
9	91				
10	90				
11	89				
12	88				
13	87				1.5" Steel screenpoint sampler
14	86				

Project Name: Clouds Chevron / College Corner
Project Number: 33-3010.1-23
Client Name: SC DHEC
Location: Columbia, SC

Drill Method: Direct push
Drill Date: 12/06/23
Latitude: 34.012278°
Longitude: -81.014573°

Driller: William Walker, cert #2042B
Total Depth of Well: 14.0'
Casing Diameter: 1.5"
Depth to Water: N/A'

ARM ENVIRONMENTAL SERVICES

Borehole ID: TMW-9

Depth	Elevation	Lithology	Lithology Description	VOCs (0, 0.25, 0.5, 0.75, 1)	Well Construction Diagram
0	100				
2	98				
4	96				
6	94				
8	92				
10	90				1.5" Steel rod
12	88				
14	86				
16	84				
18	82				
20	80				
22	78				1.5" Steel screenpoint sampler
24	76				

Project Name: Clouds Chevron / College Corner	Drill Method: Direct push	Driller: William Walker, cert #2042B
Project Number: 33-3010.1-23	Drill Date: 12/06/23	Total Depth of Well: 23.0'
Client Name: SC DHEC	Latitude: 34.012278°	Casing Diameter: 1.5"
Location: Columbia, SC	Longitude: -81.014573°	Depth to Water: N/A'

ARM ENVIRONMENTAL SERVICES

Borehole ID: TMW-10

Depth	Elevation	Lithology	Lithology Description	VOCs (0, 0.25, 0.5, 0.75, 1)	Well Construction Diagram
0	100				
2	98				
4	96				
6	94				
8	92				
10	90				
12	88				
14	86				1.5" Steel rod
16	84				
18	82				
20	80				
22	78				
24	76				
26	74				
28	72				
30	70				1.5" Steel screenpoint sampler
32	68				

Project Name: Clouds Chevron / College Corner
Project Number: 33-3010.1-23
Client Name: SC DHEC
Location: Columbia, SC

Drill Method: Direct push
Drill Date: 12/07/23
Latitude: 34.012278°
Longitude: -81.014573°

Driller: William Walker, cert #2042B
Total Depth of Well: 32.0'
Casing Diameter: 1.5"
Depth to Water: N/A'

ARM ENVIRONMENTAL SERVICES

Borehole ID: TMW-11

Depth	Elevation	Lithology	Lithology Description	VOCs (0, 0.25, 0.5, 0.75, 1)	Well Construction Diagram
0	100				
2	98				
4	96				
6	94				
8	92				
10	90				
12	88				1.5" Steel rod
14	86				
16	84				
18	82				
20	80				
22	78				
24	76				
26	74				1.5" Steel screenpoint sampler
28	72				

Project Name: Clouds Chevron / College Corner
Project Number: 33-3010.1-23
Client Name: SC DHEC
Location: Columbia, SC

Drill Method: Direct push
Drill Date: 12/07/23
Latitude: 34.012278°
Longitude: -81.014573°

Driller: William Walker, cert #2042B
Total Depth of Well: 27.0'
Casing Diameter: 1.5"
Depth to Water: N/A'

ARM ENVIRONMENTAL SERVICES

Borehole ID: TMW-12

Depth	Elevation	Lithology	Lithology Description	VOCs (0, 0.25, 0.5, 0.75, 1)	Well Construction Diagram
0	100				
2	98				
4	96				
6	94				
8	92				
10	90				
12	88				
14	86				1.5" Steel rod
16	84				
18	82				
20	80				
22	78				
24	76				
26	74				
28	72				
30	70				1.5" Steel screenpoint sampler
32	68				
34	66				

Project Name: Clouds Chevron / College Corner
Project Number: 33-3010.1-23
Client Name: SC DHEC
Location: Columbia, SC

Drill Method: Direct push
Drill Date: 12/07/23
Latitude: 34.012278°
Longitude: -81.014573°

Driller: William Walker, cert #2042B
Total Depth of Well: 33.0'
Casing Diameter: 1.5"
Depth to Water: N/A'

ARM ENVIRONMENTAL SERVICES

Borehole ID: TMW-13

Depth	Elevation	Lithology	Lithology Description	VOCs (0, 0.25, 0.5, 0.75, 1)	Well Construction Diagram
0	100				
2	98				
4	96				
6	94				
8	92				
10	90				
12	88				1.5" Steel rod
14	86				
16	84				
18	82				
20	80				
22	78				
24	76				
26	74				
28	72				1.5" Steel screenpoint sampler
30	70				

Project Name: Clouds Chevron / College Corner
Project Number: 33-3010.1-23
Client Name: SC DHEC
Location: Columbia, SC

Drill Method: Direct push
Drill Date: 12/07/23
Latitude: 34.012278°
Longitude: -81.014573°

Driller: William Walker, cert #2042B
Total Depth of Well: 29.0'
Casing Diameter: 1.5"
Depth to Water: N/A'

APPENDIX E
1903 WELL COMPLETION LOGS

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

Note: Personal information provided on this document is subject to public scrutiny or release.

1. WELL OWNER INFORMATION:
Name: Lee, Jack & Alexandra (last) (first)
Address: 3733 Greenbriar Dr.
City: Columbia State: SC Zip: 29206
Telephone: Work: Home:

2. LOCATION OF WELL: SC **COUNTY:** Columbia
Name: Clouds Chevron / College Corder
Street Address: 1600 Two Notch Rd./2367 Taylor St.
City: Columbia Zip: 29204
Latitude: 34.013121° Longitude: -81.015517°

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☑ Yes ☐ No
Give Details Below
Grouted Depth: from total depth ft. to 0.0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Screening Points (total footage)	9 pts	241.0 ft
SB-1 through SB-8		
TMW-1		
Max depth	33.0 ft	TMW-1
Min depth	18.0 ft	SB-1
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS:		

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☑ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER: UMW-29613, UST Permit #12352, #07777, #07584

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

9. WELL DEPTH (completed) Date Started: 12/04/23
241.0 (total) ft. Date Completed: 12/07/23

10. CASING: ☑ Threaded ☐ Welded
Diam.: 1.5"
Type: ☐ PVC ☐ Galvanized ☑ Steel ☐ Other
1.5" in. to see logs ft. depth
_____ in. to _____ ft. depth
Height: Above/Below Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: Scree-point sampler Diam.: 1.5"
Slot/Gauge: 0.010" Length: 3.0'
Set Between: see logs ft. and see logs ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

13. PUMPING LEVEL Below Land Surface.
_____ ft. after _____ hrs. Pumping _____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield: _____

14. WATER QUALITY
Chemical Analysis ☑ Yes ☐ No Bacterial Analysis ☐ Yes ☑ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☑ No
Installed from _____ ft. to _____ ft.
Effective size _____ Uniformity Coefficient _____

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From total depth ft. to 0.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: site ft. _____ direction
Type petroleum
Well Disinfected ☐ Yes ☑ No Type: _____ Amount: _____

18. PUMP: Date installed: _____ Not installed ☑
Mfr. Name: _____ Model No.: _____
H.P._____ Volts_____ Length of drop pipe_____ ft. Capacity ____ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: William Walker **CERT. NO.:** 2042
Address: (Print) Level: A B C D (circle one)
PO Box 8446, Columbia, SC, 29202
Telephone No.: 803-351-7936 Fax No.:

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: William Walker Digitally signed by William Walker DN: cn=William Walker, o=Walker, ou=Walker, email=wwenvironmental@gmail.com, c=US Date: 2024.02.09 15:56:06 -05'00' Date: 2/9/24
Well Driller

If D Level Driller, provide supervising driller's name:

DHEC 1903 (08/2017)

COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER

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

Note: Personal information provided on this document is subject to public scrutiny or release.

1. WELL OWNER INFORMATION:
Name: Scott, Wallace M. (last) (first)
Address: 76 Whiteford Way
City: Lexington State: SC Zip: 29072
Telephone: Work: Home:

2. LOCATION OF WELL: SC **COUNTY:** Columbia
Name: Clouds Chevron / College Corder
Street Address: 1600 Two Notch Rd./2367 Taylor St.
City: Columbia Zip: 29204
Latitude: 34.013121° Longitude: -81.015517°

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☑ Yes ☐ No
Give Details Below
Grouted Depth: from total depth ft. to 0.0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Screening Points (total footage)	9 pts	243.0 ft
TMW-5, TMW-8 through TMW-13		
SB-10, SB-11		
Max depth	32.0 ft	TMW-10
Min depth	14.0 ft	TMW-8
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☑ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER: UMW-29613, UST Permit #12352, #07777, #07584

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

9. WELL DEPTH (completed) Date Started: 12/04/23
243.0 (total) ft. Date Completed: 12/07/23

10. CASING: ☑ Threaded ☐ Welded
Diam.: 1.5"
Type: ☐ PVC ☐ Galvanized ☑ Steel ☐ Other
1.5" in. to see logs ft. depth
_____ in. to _____ ft. depth
Height: Above/Below Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: Scree-point sampler Diam.: 1.5"
Slot/Gauge: 0.010" Length: 3.0'
Set Between: see logs ft. and see logs ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

13. PUMPING LEVEL Below Land Surface.
_____ ft. after _____ hrs. Pumping _____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield: _____

14. WATER QUALITY
Chemical Analysis ☑ Yes ☐ No Bacterial Analysis ☐ Yes ☑ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☑ No
Installed from _____ ft. to _____ ft.
Effective size _____ Uniformity Coefficient _____

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From total depth ft. to 0.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: site ft. _____ direction
Type petroleum
Well Disinfected ☐ Yes ☑ No Type: _____ Amount: _____

18. PUMP: Date installed: _____ Not installed ☑
Mfr. Name: _____ Model No.: _____
H.P._____ Volts_____ Length of drop pipe_____ ft. Capacity ____ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: William Walker **CERT. NO.:** 2042
Address: (Print) Level: A B C D (circle one)
PO Box 8446, Columbia, SC, 29202
Telephone No.: Fax No.:

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: William Walker Digitally signed by William Walker DN: cn=William Walker, o=Walker, ou=Walker, email=wwenvironmental@gmail.com, c=US Date: 2024.02.09 15:57:26 -05'00' Date: 2/9/24
Well Driller

If D Level Driller, provide supervising driller's name:

DHEC 1903 (08/2017)

COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER

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

Note: Personal information provided on this document is subject to public scrutiny or release.

1. WELL OWNER INFORMATION:
Name: ACME Petroleum Company (last) (first)
Address: 543 Cox Rd., STE C
City: Gastonia State: NC Zip: 28054
Telephone: Work: Home:

2. LOCATION OF WELL: SC **COUNTY:** Columbia
Name: Clouds Chevron / College Corder
Street Address: 1600 Two Notch Rd./2367 Taylor St.
City: Columbia Zip: 29204
Latitude: 34.013121° Longitude: -81.015517°

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☑ Yes ☐ No
Give Details Below
Grouted Depth: from total depth ft. to 0.0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Screening Points (total footage)	5 pts	110.0 ft
TMW-2 through TMW-4, TMW-7		
SB-9		
Max depth	30.0 ft	TMW-2
Min depth	9.0 ft	TMW-7
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS:		

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☑ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER: UMW-29613, UST Permit #12352, #07777, #07584

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

9. WELL DEPTH (completed) Date Started: 12/04/23
110.0 (total) ft. Date Completed: 12/07/23

10. CASING: ☑ Threaded ☐ Welded
Diam.: 1.5"
Type: ☐ PVC ☐ Galvanized ☑ Steel ☐ Other
1.5" in. to see logs ft. depth
_____ in. to _____ ft. depth
Height: Above/Below Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: Scree-point sampler Diam.: 1.5"
Slot/Gauge: 0.010" Length: 3.0'
Set Between: see logs ft. and see logs ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

13. PUMPING LEVEL Below Land Surface.
_____ ft. after _____ hrs. Pumping _____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield: _____

14. WATER QUALITY
Chemical Analysis ☑ Yes ☐ No Bacterial Analysis ☐ Yes ☑ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☑ No
Installed from _____ ft. to _____ ft.
Effective size _____ Uniformity Coefficient _____

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From total depth ft. to 0.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: site ft. ____ direction
Type petroleum
Well Disinfected ☐ Yes ☑ No Type: _____ Amount: _____

18. PUMP: Date installed: _____ Not installed ☑
Mfr. Name: _____ Model No.: _____
H.P._____ Volts_____ Length of drop pipe_____ ft. Capacity ____ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: William Walker **CERT. NO.:** 2042
Address: (Print) Level: A B C D (circle one)
PO Box 8446, Columbia, SC, 29202
Telephone No.: 803-351-7930 Fax No.:

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: William Walker Digitally signed by William Walker DN: cn=William Walker, o=Walker, ou=Walker, email=owenvironmental@gmail.com, c=US Date: 2024.02.09 15:58:40 -05'00' Date: 2/9/24
Well Driller

If D Level Driller, provide supervising driller's name:

DHEC 1903 (08/2017)

COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER

APPENDIX F
NOT INCLUDED

APPENDIX G
NOT INCLUDED

APPENDIX H
NOT INCLUDED

APPENDIX I
NOT INCLUDED

APPENDIX J
PROPERTY ACCESS DOCUMENTATION

ARM
ENVIRONMENTAL SERVICES

June 13, 2023

Housing Authority of the City of Columbia
1917 Harden Street
Columbia, SC 29204

Re: Request for Access to Private Property
College Center
UST Permit #07584, 07777, & 12352
2377 Washington Street & 1410 Lyon Street, Columbia, South Carolina
Richland County Tax Map #R11411-04-48 & R11411-04-49

To Whom it May Concern;

The South Carolina Department of Health and Environmental Control (DHEC) has requested an Assessment on the College Center property (UST Permit #07584, 07777, & 12352) in Columbia, South Carolina. ARM Environmental Services, Inc. (ARM) has been contracted to conduct the assessment required by DHEC.

Multiple petroleum releases have been reported between UST Permit #07584, 07777, & 12352 since 1991. The responsible party for the release is SCDHEC.

ARM is requesting your permission to install temporary and/or permanent monitoring wells on your properties **(Richland County TMS #R11411-04-48 & R11411-04-49)** in order to evaluate the extents of the contaminant plume. Temporary monitoring wells are small in diameter, and will be abandoned after installation and sample collection, with surface finishing matching the surrounding area (i.e. concrete, asphalt).

When installed, the permanent monitoring wells will have manhole covers approximately eight inches in diameter and will be finished in concrete, flush with the ground surface. The manhole covers are much like a small underground utility manhole (i.e. water meter). The monitoring wells will be installed in such a way that will not interfere with vehicle or foot traffic. At such time that DHEC closes the release, the monitoring wells will be abandoned in accordance with State regulations and every effort will be made to return the property to its state prior to well installation.

The work required is being done under the direction of DHEC and is also being funded by the State of South Carolina in order to protect human health and the environment.

Request for Access to Private Property
Housing Authority of the City of Columbia
College Center (UST Permit #07584, 07777, & 12352)
Columbia, Richland County, South Carolina
Tax Map #R11411-04-48 & R11411-04-49

ARM is asking for your permission to access your properties for the purposes of monitoring well installation and the associated sampling activities. All efforts will be made to complete the installation activities in a manner to minimize any inconvenience to your business, including completing our assessment activities after business hours. Your permission for site access would be greatly appreciated and will help us to evaluate and monitor the area of groundwater pollution in a timely manner.

Please return the included Right of Entry form in the provided envelope.

We appreciate your assistance in this matter. If you should have any questions or need additional information, please do not hesitate to contact me at (803) 783-3314 or the DHEC project manager for the site, Mr. Matt Wykel, at (803) 898-7705.

Sincerely,
ARM Environmental Services, Inc.

Joseph Goings
Senior Hydrogeologist

ARM
ENVIRONMENTAL SERVICES

RIGHT OF ENTRY
Monitoring Well Installation & Sampling

College Center
UST Permit #07584, 07777, & 12352
Taylor Street & Two Notch Road, Columbia, South Carolina

Subject: Housing Authority of the City of Columbia
1917 Harden Street
Columbia, SC 29204
2377 Washington Street & 1410 Lyon Street, Columbia, South Carolina
Richland County Tax Map #R11411-04-48 & R11411-04-49

ARM Environmental Services, Inc. (ARM) is currently completing an environmental assessment on behalf of the South Carolina Department of Health & Environmental Control (SCDHEC) to assess the extent of a petroleum release from the College Center site, underground storage tank (UST) permit #07584, 07777, & 12352. **As part of this assessment, ARM is requesting permission to access your property to install and sample monitoring wells in association with the petroleum release.** This assessment is being completed at no cost to you and a copy of the results will be provided to you upon completion. Most monitoring wells are intended to remain in place until the release is closed by SCDHEC and will require periodic sampling by ARM or another selected contractor.

__X__ Property Access Granted

_____ Property Access Denied

843-810-5073 **Phone**

cherrera@columbiahousingsc.org
Email

LuCinda J. Herrera
Printed Name

LuCinda J. Herrera
Signature

June 21, 2023
Date

Comments:

ARM
ENVIRONMENTAL SERVICES

WATER SUPPLY WELL SURVEY
& REQUEST TO SAMPLE

College Center
UST Permit #07584, 07777, & 12352
Taylor Street & Two Notch Road, Columbia, South Carolina

Subject: Housing Authority of the City of Columbia
1917 Harden Street
Columbia, SC 29204
2377 Washington Street & 1410 Lyon Street, Columbia, South Carolina
Richland County Tax Map #R11411-04-48 & R11411-04-49

ARM Environmental Services, Inc. (ARM) is currently completing an environmental assessment on behalf of the South Carolina Department of Health & Environmental Control (SCDHEC) to assess the extent of a petroleum release from the College Center site, underground storage tank (UST) permit #07584, 07777, & 12352. As part of this assessment, ARM is conducting a water supply well survey of properties within a certain radius of the UST system.

Please complete the questions below to the best of your ability and return in the enclosed envelope.

1) What is the source of drinking water for the subject property?
__X__ Municipal Water ____ Water Supply Well _____ Other

2) Is there a water supply well on the subject property? ____ Yes __X__ No

3) What is the well typically used for? ___ Drinking ___ Irrigation ___ Not in Use

ARM requests your permission to sample your well for petroleum compounds at no cost to you. A copy of the results will be provided.

__X__ Property Access Granted

____ Property Access Denied

843-810-5073 **Phone**
cherrera@columbiahousingsc.org
Email

LuCinda J. Herrera
Printed Name

LuCinda J. Herrera
Signature

June 21, 2023
Date

dhec
Healthy People. Healthy Communities.

March 24, 2023

SUBJECT: Letter of Introduction
Assessment of Releases from Permitted Underground Storage Tank Facilities

Dear Property Owner:

A release of petroleum products has occurred from the underground storage tanks located at the facility identified in the attached letter. The tank owner/operator of the facility has elected to allow the South Carolina Department of Health and Environmental Control (DHEC) to procure the services of a site rehabilitation contractor on their behalf to investigate the extent and severity of the release. DHEC has entered into a contract with ARM Environmental Services, Inc. (ARM) to conduct all necessary assessment activities. DHEC will pay costs for all necessary assessment activities at no cost to you or a future landowner.

During the course of the assessment, ARM may need to access the highway right-of -way and your property to collect needed soil and groundwater samples to determine the extent of the problem and any potential risk to human health and the environment. Should access to your property be requested, please provide approval in a timely fashion so any problems can be quickly identified and cleanup, if required, can be started in a timely fashion.

All work will be conducted in a professional manner and every effort will be made to minimize any disturbance to your property and any inconvenience to you. ARM is expected to discuss with you the proposed locations of any sample collection points or monitoring wells before doing any work on or near your property. The location of the wells or sampling points can be moved as needed based on your requests. Screening points consist of pushing rods or auguring small holes into the ground, collecting a soil and sometimes a groundwater sample, and immediately filling in the hole. Monitoring wells are a small diameter hole bored or drilled into the ground to collect groundwater samples. The wells will consist of a 2-foot by 2-foot, or smaller concrete pad finished flush with the ground and a small diameter manhole cover similar to a water meter. As soon as the assessment and any corrective action activities are completed, the well will be filled in and the well pad removed from any grassed area with no permanent effect to your property. A copy of the assessment report will be mailed or if you prefer e-mailed to your attention upon completion of this work.

Your cooperation is greatly appreciated. If you have any questions, please e-mail me at reillycm@dhec.sc.gov. You can fax me at (803) 898-0673 or contact me at (803) 898-3807.

Sincerely,

Caitlin Reilly

Caitlin Reilly, Hydrogeologist
Assessment & Non-Permitted Petroleum Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

APPENDIX K
SCDHEC CONTRACTOR CHECKLIST

Contractor Checklist

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

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

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

Explanation for missing and incomplete information?

UST DOCKETING

State Lead Option
Adjacent Property Access Agreement for Site Rehabilitation

Only complete this form if: You are the legal owner of the property **OR** are the designated authorized representative for the legal owner of the property.

I certify that I am the legal owner of the property identified below or serve as the authorized representative for the legal owner of the property. I authorize the South Carolina Department of Health and Environmental Control (DHEC), or a contractor selected by DHEC, 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. I understand that the Agency 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.

UST Permit #	#07584, #07777, #12352	
Property Name (if applicable):		
Property Address:	R11411-02-07 (1410 N. millwood)	
Property Phone Number:	803-553-0897	
Is property within city limits? (check yes/no)	☒ Yes	☐ No
Name of nearest intersecting street/road/highway:	N. Millwood / Forest Dr	
Does public water/sewer utility service this facility?	☐ Yes	☒ No — No Buildings

*If no, please provide a contact name/number that can assist in the location of private water and septic tank lines:

Name: No buildings	**Phone Number:** – No private		
Is the property currently leased to someone?		**Yes**	**No**

*If yes, notify them of the pending work scope, and please provide their name/contact number:

Name: N/A	**Phone Number:** N/A		

Name of Property Owner (Print):	Team 1 Holding LLC	
Signature of Property Owner or authorized representative:	Jared Jensen	3-29-24 **Date**
Affiliation (if applicable)		
Signature of Witness	[signature]	3/29/24 **Date**

Contact Info

Phone Numbers:	**Home:** 803-553-0897	**Cell:**	803-553-0897
Email Address:	yodyeem@yahoo.com		

State Lead Option
Adjacent Property Access Agreement for Site Rehabilitation

Only complete this form if: You are the legal owner of the property **OR** are the designated authorized representative for the legal owner of the property.

I certify that I am the legal owner of the property identified below or serve as the authorized representative for the legal owner of the property. I authorize the South Carolina Department of Health and Environmental Control (DHEC), or a contractor selected by DHEC, 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. I understand that the Agency 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.

R-11411-02-07

UST Permit #		
Property Name (if applicable):	Suddeth Automotive	
Property Address:	1410 N. Millwood Ave. Columbia SC 29204	
Property Phone Number:	803-553-0897	
Is property within city limits? (check yes/no)	☒ Yes	☐ No
Name of nearest intersecting street/road/highway:	N. Millwood / Washington Street	
Does public water/sewer utility service this facility?	☒ Yes	☐ No

*If no, please provide a contact name/number that can assist in the location of private water and septic tank lines:

Name:	**Phone Number:**	
Is the property currently leased to someone?	(Yes)	No

*If yes, notify them of the pending work scope, and please provide their name/contact number:

Name:	Same Owner different Company	**Phone Number:**	

Name of Property Owner (Print):	Team 1 Holding LLC	
Signature of Property Owner or authorized representative:	Jared Jensen	3-29-24 **Date**
Affiliation (if applicable)		
Signature of Witness		3/29/24 **Date**

Contact Info

Phone Numbers:	**Home:** 803-553-0897	**Cell:**	803-553-0897
Email Address:	Yodyeem@yahoo.com		

State Lead Option
Adjacent Property Access Agreement for Site Rehabilitation

Only complete this form if: You are the legal owner of the property **OR** are the designated authorized representative for the legal owner of the property.

I certify that I am the legal owner of the property identified below or serve as the authorized representative for the legal owner of the property. I authorize the South Carolina Department of Health and Environmental Control (DHEC), or a contractor selected by DHEC, 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. I understand that the Agency 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.

UST Permit #		
Property Name (if applicable):		
Property Address:	R11411-02-04 1401 Ontario	
Property Phone Number:	803-553-0897	
Is property within city limits? (check yes/no)	☒ Yes	☐ No
Name of nearest intersecting street/road/highway:	Ontario / Forest Dr	
Does public water/sewer utility service this facility?	☐ Yes	☒ No

*If no, please provide a contact name/number that can assist in the location of private water and septic tank lines:

Name: ~~No Name~~ Lot	**Phone Number:**	No private

Is the property currently leased to someone?	**Yes**	**No**

*If yes, notify them of the pending work scope, and please provide their name/contact number:

Name:	N/A	**Phone Number:**	N/A

Name of Property Owner (Print):	Team 7 Holding LLC	
Signature of Property Owner or authorized representative:	Jared Jenser	3-29-24 **Date**
Affiliation (if applicable)		
Signature of Witness	Witness Signature	3/29/24 **Date**

Contact Info

Phone Numbers:	**Home:** 803-553-0897	**Cell:**	803-553-0897
Email Address:	Yodyeem@yahoo.com		

ARM
ENVIRONMENTAL SERVICES

RECEIVED
APR 25 2024
UST DIVISION

UST
225-Tech
2907
157-Tech
DOCKETING

TRANSMITTAL COVER SHEET

TO: **Matt Wykel, Hydrogeologist**

COMPANY / AGENCY: **UST Program / Bureau of Land and Waste Management**

FROM: **Paul Myers**

RE: **College Corner / Cloud's Chevron**
UST Permit #07777, #07584, #12352
Site-Specific Work Plan & Cost Proposal
Monitoring Well Installation & Surface Water Assessment

DATE: **May 23, 2023**

TRANSMITTAL VIA:

_✓_ **Standard US Mail**	___ **Priority US Mail**
_✓_ **Electronic Delivery**	___ **Hand Delivery**

COMMENTS:

Enclosed you will find the Site-Specific Work Plan and Assessment Component Cost Proposal for the activities requested at the site.

Upon your approval of this SSWP and cost proposal, ARM personnel will initiate the assessment.

Please do not hesitate to give me a call if you have any questions or if further information is required.

Sincerely,
ARM Environmental Services, Inc.

Paul Myers
Staff Geologist

RECEIVED
APR 25 2024
UST DIVISION

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

UST 2907 SCDHEC

To: Matt Wykel (SCDHEC Project Manager)
From: Michael Faris (Contractor Project Manager)
Contractor: ARM Environmental Services, Inc. UST Contractor Certification Number: 4

Facility Name: Cloud's Chevron (#07777 / #12352) UST Permit #: College Corner (#07584)
Facility Address: Two Notch Road & Taylor Street, Columbia, SC
Responsible Party: Jack Lee & Alexander Lee / 3733 Greenbriar Drive, Columbia SC 2920 Phone: Acme Petroleum & Fuel Company
RP Address: Wallace Scott / 76 Whiteford Way, Lexington SC 29072 543 Cox Rd, Suite C, Gastonia, NC 28054
Property Owner (if different): Cloud's Chevron: Medical University Hospital Authority, 22 Westedge St, Charleston, SC 29403
Property Owner Address: College Corner: Fast Point Food Stores Inc., 2811 Reidville Rd, Suite 16, Spartanburg, SC 29301
Current Use of Property: Cloud's Chevron: Hospital parking lot // College Corner: Gas station & convenience store

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
- ☐ PAH
- ☐ Lead
- ☐ RCRA Metals
- ☐ Oil & Grease (9071)
- ☐ TPH-DRO (3550B/8015B)
- ☐ TPH-GRO (5030B/8015B)
- ☐ Grain Size
- ☐ TOC

Air:

- ☐ BTEXN

Sample Collection (Estimate the number of samples of each matrix that are expected to be collected.)

1 Soil	____ Water Supply Wells	____ Air	1 Field Blank
____ Monitoring Wells	5 Surface Water	1 Duplicate	1 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: 1 Estimated Footage: 5 feet per point
# of deep points proposed: ____ Estimated Footage: ____ feet per point
Field Screening Methodology: A shallow soil sample will be collected from the stream bed, as marked on the map

Permanent Monitoring Wells

Estimate number and total completed depth for each well, and include their proposed locations on the attached map.

# of shallow wells: 14 Estimated Footage: 35 feet per point
# of deep wells: 1 Estimated Footage: 45 feet per point
# of recovery wells: ____ Estimated Footage: ____ feet per point
Comments, if warranted: Well depth is expected to be highly variable based on proximity to surface water bodies. The final well footage will be adjusted such that shallow wells are completed to first water.

UST Permit #: Cloud's Chevron (#07777 / #12352) Facility Name: College Corner (#07584)

Implementation Schedule (Number of calendar days from approval)

Field Work Start-Up: 30 Field Work Completion: 100

Report Submittal: 120 # of Copies Provided to Property Owners: 15

Aquifer Characterization

Pump Test: ☐ Slug Test: ☐ (Check one and provide explanation below for choice)

Investigation Derived Waste Disposal

Soil: 15 Tons Purge Water: 100 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.

2 equipment mobilizations are requested - if property access is achieved and lithology is favorable, work should be completed in 2-3 weeks. If scope of work takes 3 weeks, an additional equipment mobilization will be requested.

Only the surface water and stream sediment samples are currently proposed to be collected under this cost agreement. Future sampling events would be completed by ARM or by the Department's selected sampling contractor under a separate cover.

Per the request of the SC DHEC project manager, a comprehensive site survey of the entire project area has been proposed.

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: _____

Yes Well Driller as indicated in ACQAP? (Yes/No) If no, indicate driller information below.

Name of Well Driller: _____

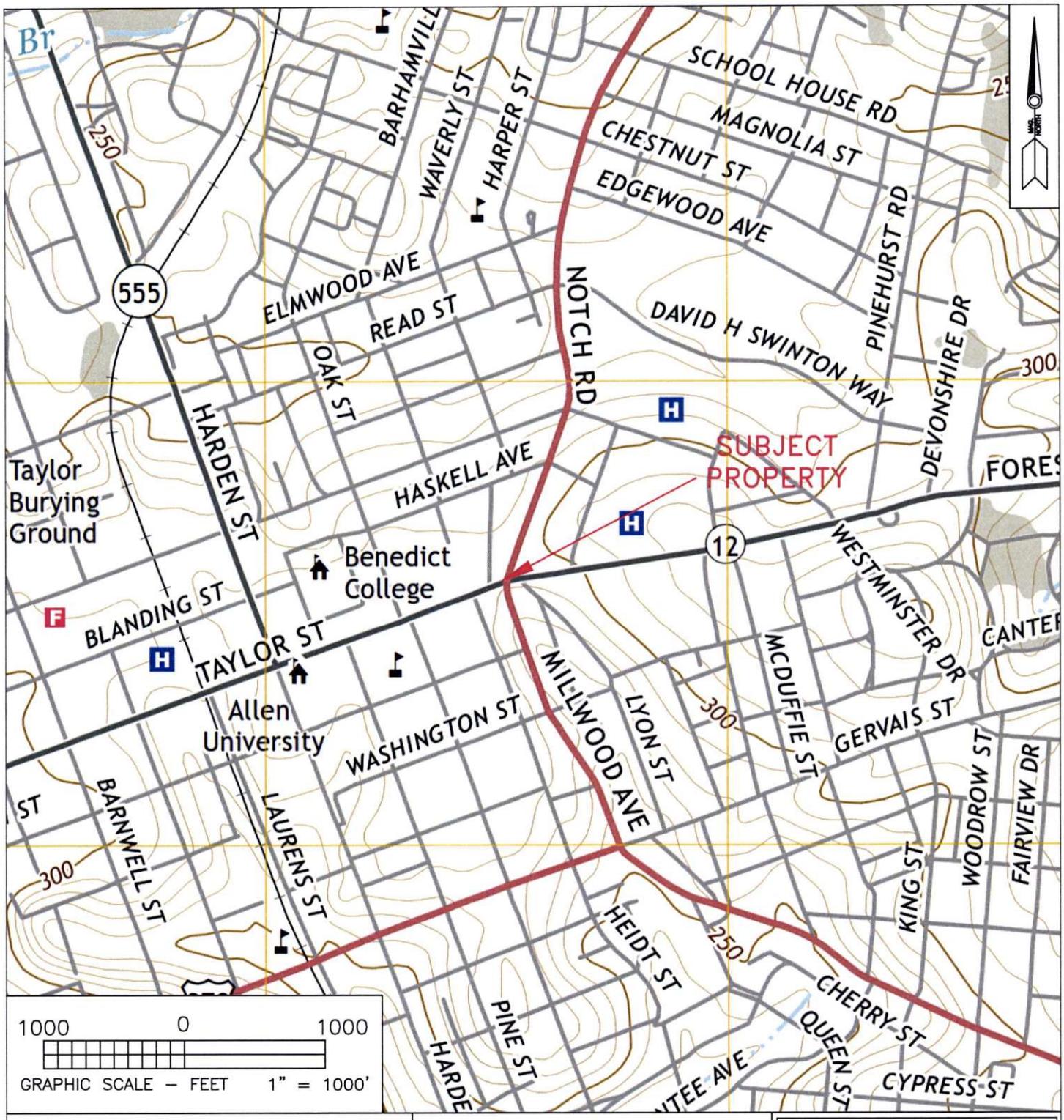
SCLLR Certification Number: _____

XXX Other variations from ACQAP. Please describe below.

ARM understands this scope of work is intended to provide data to the Department for future solicitation of Active Corrective Action. The requested scope of work is intended to provide delineation of the contaminant plume in the direction of identified surface water receptors and to identify potential preferential pathways that may be driving the movement of contaminants. This proposed scope of work is not intended to fully delineate the contaminant plume in all directions.

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



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:

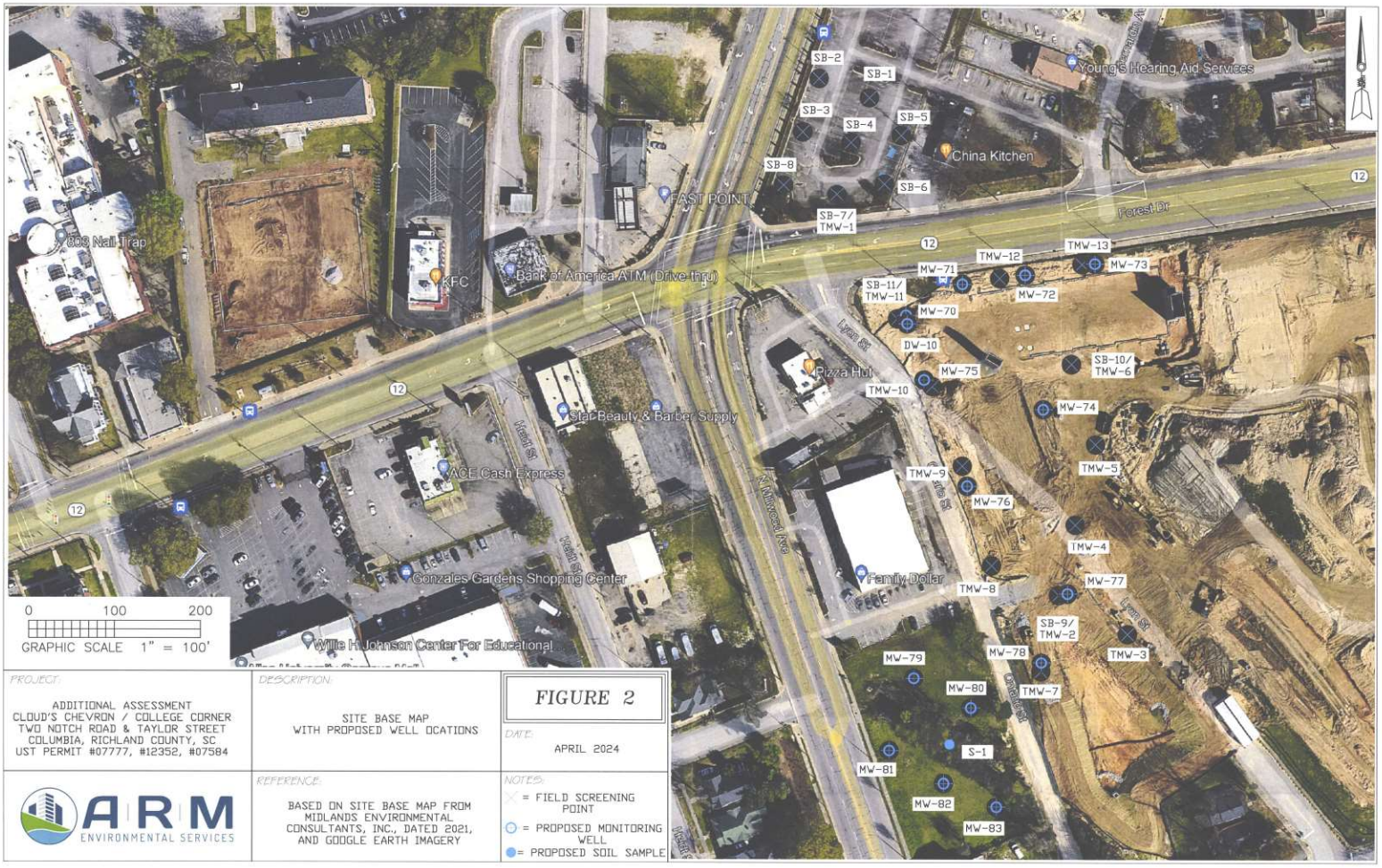
APRIL 2024

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 PROPOSED WELL OCATIONS

FIGURE 2

DATE:

APRIL 2024

ARM ENVIRONMENTAL SERVICES

REFERENCE:

BASED ON SITE BASE MAP FROM MIDLANDS ENVIRONMENTAL CONSULTANTS, INC., DATED 2021, AND GOOGLE EARTH IMAGERY

NOTES:

= FIELD SCREENING POINT
= PROPOSED MONITORING WELL
= PROPOSED SOIL SAMPLE

dhec
Healthy People. Healthy Communities.

ASSESSMENT COMPONENT COST AGREEMENT
SOUTH CAROLINA

Department of Health and Environmental Control
Underground Storage Tank Management Division
State Underground Petroleum Environmental Response Bank Account
PO#

Facility Name: College Corner / Cloud's Chevron

UST Permit #: 07777, 12352, 07584 **Cost Agreement #:** Pending

ITEM	QUANTITY	UNIT	UNIT PRICE		TOTAL
A. **Plan Preparation**					
1.1 Site-specific Work Plan	1	each	$300.00		$300.00
2.1 Tax Map		each	$100.00		$0.00
B. **Receptor Survey ***		each	$750.00		$0.00
C. Survey (500 X 500 feet)					
1.1 Comprehensive Survey	5	each	$1,400.00		$7,000.00
5. Ground Penetrating Radar Survey (GPR)	1	each	$3,600.00		$3,600.00
D. **Mobilization/Demobilization**					
1.1 Equipment Mobilization	2	each	$1,350.00		$2,700.00
2.1 Personnel Mobilization	3	each	$600.00		$1,800.00
3.1 Adverse Terrain Vehicle		each	$1,275.00		$0.00
E.. **Soil Borings (hand auger)***		per foot	$7.00		$0.00
F. **Soil Borings/Field Screening (requiring equipment, push technology, etc) or Field Screening (including sampling and analysis)**					
1.1 Standard Soil Boring/Field Screening		per foot	$20.00		$0.00
2.1 Fractured Rock Screening		per foot	$28.00		$0.00
I. **Well Installation (per foot includes costs associated with soil screening, lithology, development, pad and ID plate)**					
1.1 Shallow monitoring wells installed using a hand auger		per foot	$26.00		$0.00
2.A Single-cased 2" Diameter Monitoring Well (0-50 ft)	525	per foot	$46.50		$24,412.50
2.1. Single-cased 2" Diameter Monitoring Well (>50 ft)		per foot	$49.00		$0.00
3.1 Telescoping		per foot	$62.00		$0.00
4.1 Rock Drilling		per foot	$75.00		$0.00
5.1 2" Rock Coring and Retrieval		per foot	$48.00		$0.00
6.1 Multi-sampling ports/screens		per foot	$50.00		$0.00
7.1 Recovery Well (4" diameter well)		each	$55.00		$0.00
9.1 Rotosonic Drilling (2" diameter well)		each	$65.00		$0.00
J. **Sample Collection / Gauging Depth to Product or Groundwater**					
1.1 Volumetric Groundwater Purge		per well	$72.00		$0.00
2.1 Air or Soil Vapor Sample		per receptor	$125.00		$0.00
3.1 Water Supply Sample		per well/receptor	$40.00		$0.00
4.1. HydraSleeve			$65.00		$0.00
4.2A No purge Groundwater Sample / Surface Water Sample	6	sample	$36.00		$216.00
5.1 Gauging Well Only		per well	$10.00		$0.00
6.1 Sample Below Product		sample	$38.00		$0.00
7.1 Passive Diffusion Bag		sample	$35.00		$0.00
8.1 Field Duplicates (MWs & WSWs) and Field Blank	1	each	$36.00		$36.00
9.1 Groundwater(Low-Flow Purge)		per well/receptor	$118.00		$0.00
10.1 Equipment Blank		each	$25.00		$0.00
11. Sample Product		sample	$50.00		$0.00

Facility Name:	College Corner / Cloud's Chevron					
UST Permit #:	07777, 12352, 07584		Cost Agreement #:	Pending		
K. Laboratory Analyses - Groundwater						
1.1 BTEXN, MTBE including Oxygenates and 1,2 DCA (8260D)	8	sample		$148.00		$1,184.00
2.1 Dissolved Lead (6010D or 6020B)		sample		$25.00		$0.00
3.1 BTEXN, MTBE Including Oxygenates and 1,2 DCA (8260D) **RUSH**		sample		$181.00		$0.00
4.1 Trimethyl, Butyl, and Isopropyl Benzenes (8260D)		sample		$34.00		$0.00
5.1 Polynuclear Aromatic Hydrocarbons (PAHs) (8070E)		sample		$82.00		$0.00
6.1 Total Lead (6010D or 6020B)		sample		$27.00		$0.00
7.1 EDB by 8011		sample		$60.00		$0.00
8.1 EDB by 8011 **RUSH**		sample		$82.00		$0.00
9.1 RCRA 8 Metals		sample		$80.00		$0.00
10.1 TPH - Oil and Grease (9070)		per sample		$54.00		$0.00
11.1 pH (Lab)		per sample		$9.00		$0.00
12.1 BOD		per sample		$28.00		$0.00
13.1 Ethanol - (8015)		per sample		$22.00		$0.00
K. Laboratory Analyses - Drinking Water (Water Supply Wells)						
14.1 BTEXN, MTBE including Oxygenates and 1,2 DCA (524.2)		sample		$162.00		$0.00
15.1 8-Oxygenates (8260D)		sample		$110.00		$0.00
16.1 EDB (504.1)		sample		$98.00		$0.00
17.1 RCRA 8 Metals		sample		$125.00		$0.00
K. **Laboratory Analyses-Soil**						
18.1 BTEXN (8260D)	1	sample		$82.00		$82.00
19.1 PAH's (8270E)		sample		$82.00		$0.00
20.1 RCRA 8 Metals		sample		$80.00		$0.00
21.1 TPH - DRO (3550C/8015C)		sample		$50.00		$0.00
22.1 TPH - GRO (5035B/8015C)		sample		$50.00		$0.00
23.1 Grain size/Hydrometer		sample		$154.00		$0.00
24.1 Total Organic Carbon		sample		$45.00		$0.00
K. **Laboratory Analyses - Air**						
25.1 BTEXN (TO-15)		sample		$365.00		$0.00
K. **Hydrocarbon Fuel Identification**						
27. C3 - C44 Whole Oil (ASTM D3328)		sample		$490.00		$0.00
28. Fuel Oxygenates (1624 Mod)		sample		$463.00		$0.00
29. ALKYL Leads, EDB MMT (8080)		sample		$463.00		$0.00
30. C8 - C40 Full Scan (ASTM 5739)		sample		$695.00		$0.00
31. Simulated Distillation (ASTM 2887)		sample		$463.00		$0.00
32. Parent & Alk. PAH Com. (8270 SIM)		sample		$825.00		$0.00
33. C3 - C10 Piano (8260 Mod)		sample		$695.00		$0.00
34. C10+ Alkane Fingerprint (ASTM 3328)		sample		$695.00		$0.00
35. Expert Data Interpretation & Report		sample		$720.00		$0.00
L. **Aquifer Characterization***						
2.1 Slug Test		per test		$310.00		$0.00
3.1 Fractured Rock		per test		$190.00		$0.00
M. **Free Product Recovery Rate Test***		each		$100.00		$0.00
P. **Subsequent Survey***		each		$300.00		$0.00

Facility Name:	College Corner / Cloud's Chevron					
UST Permit #:	07777, 12352, 07584		Cost Agreement #:	Pending		
Q. **Disposal**						
1. Wastewater (per gallon)	100	gallon		$0.66		$66.00
2. Free Product (per gallon)		gallon		$0.68		$0.00
3. Soil Treatment/Disposal (per ton)	15	ton		$82.00		$1,230.00
4. Drilling fluids (per gallon)		gallon		$0.70		$0.00
Y. **Well Repair**						
1.1 Additional Copies of Report		each		$70.00		$0.00
5.1 Replace well cover bolts		each		$5.00		$0.00
6.1 Replace locking well cap & lock		each		$23.00		$0.00
10.1 Replace missing/illegible well ID plate		each		$25.00		$0.00
S. Report Preparation/Project Coordination	15%	percent		$42,626.50		$6,393.98
TOTAL						$49,020.48

07777-227+
12352-158+

dhec
Healthy People. Healthy Communities.

APR 26 2024

MICHAEL FARIS
ARM ENVIRONMENTAL SERVICES INC
1210 1st STREET S EXTENSION
COLUMBIA SC 29209



Re: **Notice to Proceed for Tier II Assessment**
College Corner, 2367 Taylor St., Columbia, SC
UST Permit #07584; Cost Agreement #68615 and #68616; MWA # UMW-**29782**
Clouds Chevron. 1600 Two Notch Road, Columbia, SC
UST Permits #07777 and 12352; Cost Agreement #68617 and #68618
Solicitation #IFB-5400024540; Purchase Order #4600938573
Site-Specific Work Plan and cost proposal received April 22, 2024
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 provided above has 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 120 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 sixteen wells 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 number listed 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
Assessment & Non-Permitted Petroleum Section
Underground Storage Tank Management Division
Bureau of Land & Waste Management

enc: Approved Cost Agreement
Monitoring Well Approval

cc: Jeymaris Sample-Hilerio, UST Management Division (w/ enc.)

Team 1 Holding, LLC., 100 Columbia Club Dr. W., SC 29016 (w/o enc.)
Columbia Housing Authority, 1917 Harden St., Columbia, SC 29204
Medical University Hospital Authority, 1 Poston Rd., STE 350, Charleston, SC 29407
UST Division - Jeymie Sample-Hilerio (w/enc.)
Technical File (w/ enc.)

Healthy People. Healthy Communities.

Monitoring Well Approval

Approval is granted to: ARM
On behalf of: ACME Petroleum & Food Company
Facility: College Corner, 2367 Taylor St., Columbia, SC
UST Permit: #07584
County: Richland

This approval is for the installation of 15 permanent Monitoring Wells and 1 Temporary boring. 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: April 23, 2024 **Approval #: UMW-29782**

Matt Wykel, Hydrogeologist
Corrective Action & Quality Assurance Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

Approved Cost Agreement 68617

Facility: 07777 CLOUDS CHEVRON
WYKELJM
PO Number:

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
C SURVEY					
		1.1 COMPREHENSIVE SURVEY	1.2500	$1,400.000	1,750.00
		5 GROUND PENET. RADAR (100 X100)	0.2500	$3,600.000	900.00
D MOB/DEMOB					
		1.1 EQUIPMENT	0.5000	$1,350.000	675.00
		2.1 PERSONNEL	0.7500	$600.000	450.00
I WELL INSTALLATION					
		2.A WATER TABLE DRILL RIG 2" DIA	131.2500	$46.500	6,103.13
J SAMPLE COLLECTION					
		4.2A NO-PURGE GW SAMPLE/SURFACE	1.5000	$36.000	54.00
		8.1 FIELD DUPL. (MWS & WSWS) & FB	0.2500	$36.000	9.00
K ANALYSES					
	GW GROUNDWATER	1.1 BTEXNM+OXYGS+1,2 DCA+ETH-8260D	2.0000	$148.000	296.00
	SOIL SOIL	18.1 BTEX+NAPHTHALENE	0.2500	$82.000	20.50
Q DISPOSAL					
		1 WASTEWATER	25.0000	$0.660	16.50
		3 SOIL TREATMENT DISPOSAL	3.7500	$82.000	307.50
S REPORT PROJECT MANAGEMENT					
		S REPORT PREP & PROJ. MANAGEMENT	0.1500	$10,656.630	1,598.49
				Total Amount	12,255.12

Approved Cost Agreement 68616

Facility: 07584 COLLEGE CORNER
WYKELJM
PO Number:

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
C SURVEY					
		1.1 COMPREHENSIVE SURVEY	1.2500	$1,400.000	1,750.00
		5 GROUND PENET. RADAR (100 X100)	0.2500	$3,600.000	900.00
D MOB/DEMOB					
		1.1 EQUIPMENT	0.5000	$1,350.000	675.00
		2.1 PERSONNEL	0.7500	$600.000	450.00
I WELL INSTALLATION					
		2.A WATER TABLE DRILL RIG 2" DIA	131.2500	$46.500	6,103.13
J SAMPLE COLLECTION					
		4.2A NO-PURGE GW SAMPLE/SURFACE	1.5000	$36.000	54.00
		8.1 FIELD DUPL. (MWS & WSWS) & FB	0.2500	$36.000	9.00
K ANALYSES	GW GROUNDWATER	1.1 BTEXNM+OXYGS+1,2 DCA+ETH-8260D	2.0000	$148.000	296.00
	SOIL SOIL	18.1 BTEX+NAPHTHALENE	0.2500	$82.000	20.50
Q DISPOSAL					
		1 WASTEWATER	25.0000	$0.660	16.50
		3 SOIL TREATMENT DISPOSAL	3.7500	$82.000	307.50
S REPORT PROJECT MANAGEMENT					
		S REPORT PREP & PROJ. MANAGEMENT	0.1500	$10,656.630	1,598.49
				Total Amount	12,255.12

Approved Cost Agreement 68615

Facility: 07584 COLLEGE CORNER
WYKELJM
PO Number:

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
C SURVEY					
		1.1 COMPREHENSIVE SURVEY	1.2500	$1,400.000	1,750.00
		5 GROUND PENET. RADAR (100 X100)	0.2500	$3,600.000	900.00
D MOB/DEMOB					
		1.1 EQUIPMENT	0.5000	$1,350.000	675.00
		2.1 PERSONNEL	0.7500	$600.000	450.00
I WELL INSTALLATION					
		2.A WATER TABLE DRILL RIG 2" DIA	131.2500	$46.500	6,103.13
J SAMPLE COLLECTION					
		4.2A NO-PURGE GW SAMPLE/SURFACE	1.5000	$36.000	54.00
		8.1 FIELD DUPL. (MWS & WSWS) & FB	0.2500	$36.000	9.00
K ANALYSES					
	GW GROUNDWATER	1.1 BTEXNM+OXYGS+1,2 DCA+ETH-8260D	2.0000	$148.000	296.00
	SOIL SOIL	18.1 BTEX+NAPHTHALENE	0.2500	$82.000	20.50
Q DISPOSAL					
		1 WASTEWATER	25.0000	$0.660	16.50
		3 SOIL TREATMENT DISPOSAL	3.7500	$82.000	307.50
S REPORT PROJECT MANAGEMENT					
		S REPORT PREP & PROJ. MANAGEMENT	0.1500	$10,656.630	1,598.49
			Total Amount		12,255.12

Approved Cost Agreement 68618

Facility: 12352 CLOUDS CHEVRON
WYKELJM
PO Number:

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
C SURVEY					
		1.1 COMPREHENSIVE SURVEY	1.2500	$1,400.000	1,750.00
		5 GROUND PENET. RADAR (100 X100)	0.2500	$3,600.000	900.00
D MOB/DEMOB					
		1.1 EQUIPMENT	0.5000	$1,350.000	675.00
		2.1 PERSONNEL	0.7500	$600.000	450.00
I WELL INSTALLATION					
		2.A WATER TABLE DRILL RIG 2" DIA	131.2500	$46.500	6,103.13
J SAMPLE COLLECTION					
		4.2A NO-PURGE GW SAMPLE/SURFACE	1.5000	$36.000	54.00
		8.1 FIELD DUPL. (MWS & WSWS) & FB	0.2500	$36.000	9.00
K ANALYSES					
	GW GROUNDWATER	1.1 BTEXNM+OXYGS+1,2 DCA+ETH-8260D	2.0000	$148.000	296.00
	SOIL SOIL	18.1 BTEX+NAPHTHALENE	0.2500	$82.000	20.50
Q DISPOSAL					
		1 WASTEWATER	25.0000	$0.660	16.50
		3 SOIL TREATMENT DISPOSAL	3.7500	$82.000	307.50
S REPORT PROJECT MANAGEMENT					
		S REPORT PREP & PROJ. MANAGEMENT	0.1500	$10,656.630	1,598.49
			Total Amount		12,255.12

ARM
ENVIRONMENTAL SERVICES

RECEIVED
MAY 31 2024
UST DIVISION

UST DOCKETING 228T

TO: **Matt Wykel, Hydrogeologist**

FROM: **Michael Faris**

RE: **College Corner/Clouds Chevron, Richland County, SC**
UST Permit #07777, #12352, #07584
ARM Project #33-3010.2-23

DATE: **May 28, 2024**

ENCLOSED: **One Copy of the Report.**

TRANSMITTAL VIA: **_✓_ Standard US Mail** **___ Priority US Mail**
___ Overnight Courier **___ Hand Delivery**

COMMENTS:

ARM has completed the work at the above referenced location as requested by the South Carolina DHEC. One copy of the report is enclosed for your records.

Please let us know if you have any questions or if you need additional information.

Sincerely,
ARM Environmental Services, Inc.

Michael Faris, P.G.
Senior Geologist

ARM
ENVIRONMENTAL SERVICES

RECEIVED
MAY 31 2024
UST DIVISION

UST
228T
DOCKETING

May 24, 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

Re: Limited Sampling Assessment & Aquifer Evaluation
College Corner / Clouds Chevron
Two Notch Road & Taylor Street
Columbia, Richland County, South Carolina
UST Permit #07777, #12352, #07584
ARM Project #33-3010.2-23

Dear Mr. Wykel;

ARM Environmental Services, Inc. (ARM) has completed the limited sampling event and aquifer evaluation requested for the College Corner / Clouds Chevron site 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.

Based on the results of this assessment, multiple Chemicals of Concern (CoC) were identified above their respective Risk Based Screening Levels (RBSLs) in the collected groundwater and surface water samples.

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
Project Geologist

Michael Faris, P.G.
Senior Geologist/Principal

MICHAEL L. FARIS
REGISTERED
No. 2379
SOUTH CAROLINA
PROFESSIONAL GEOLOGIST

Background

According to the South Carolina Department of Health & Environmental Control's (SCDHEC) Underground Storage Tank (UST) Registry, there have been two different UST permit numbers at the Clouds Chevron site. Each UST permit number has had one (1) release. The releases were both reported to SCDHEC on December 30, 1991. Each release was confirmed on March 18, 1992. The estimated quantity of the releases and cause of the releases are unknown. The former Clouds Chevron property is currently owned by MUSC Health Columbia Medical, whose mailing address is 2345 Forest Dr., Columbia SC 29204.

According to the SCDHEC UST Registry, there have been three (3) releases at the College Corner site. The first release was reported to, and confirmed by, SCDHEC on January 30, 1991. Release #2 was reported on April 17, 1998 and confirmed on May 13, 1998. Release #3 at the site was reported on April 14, 1999 and confirmed on April 29, 1999. Release #3 was issued a conditional No Further Action (CNFA) decision by SCDHEC on May 5, 1999. The estimated quantity of the releases and cause of the releases are unknown. The College Corner property is currently owned by Mahesh Patel, whose mailing address is 2811 Reidville Rd, Suite 11, Spartanburg, SC 29301.

The USTs formerly operated at the Clouds Chevron and College Corner sites are summarized in Table A below. The sites are currently in the corrective action section of the UST Program.

Table A – Current and Former USTs:

Tank ID	Size (gallons)	Contents	Status
Clouds Chevron, UST Permit #07777			
1	8,000	Gasoline	Abandoned – RG (5/28/1992)
2	8,000	Gasoline	Abandoned – RG (5/28/1992)
3	5,000	Gasoline	Abandoned – RG (5/28/1992)
4	5,000	Gasoline	Abandoned – RG (5/28/1992)
Clouds Chevron, UST Permit #12352			
1	500	Waste Oil	Abandoned – RG (10/20/1993)
2	300	Gasoline	Abandoned – RG (10/20/1993)
3	3,000	Gasoline	Abandoned – RG (11/30/2006)
4	3,000	Gasoline	Abandoned – RG (11/30/2006)
College Corner, UST Permit #07584			
1	10,000	Gasoline	Abandoned – RG (1/11/1999)
2	10,000	Gasoline	Abandoned – RG (1/11/1999)
3	10,000	Gasoline	Abandoned – RG (1/11/1999)

RG – Removed from Ground

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 (2) additional tanks on the property that were abandoned by removal from the

ground on September 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 (2) additional USTs, which are currently in use on the property, were put into operation on October 10, 2003. The in-use tanks consist of a single 8,000-gallon gasoline UST and a 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 comprehensive 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.

Additional groundwater screening and well installation work has since been completed, in the vicinity of the former Gonzalez Gardens housing community, to re-establish the monitoring well network along the southern edge of the contaminant plume. As part of this work, monitoring wells MW-70 through MW-83 and deep well DW-10 were installed, as displayed on Figure 2. This work has been completed under a separate directive and will be reported under separate cover. The current scope of work was requested to evaluate the current CoC concentration and distribution along the southern edge of the contaminant plume prior to the Department's solicitation for a corrective action assessment.

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

Gauging

ARM personnel mobilized to the site on May 14, 2024 and gauged monitoring wells MW-77 through MW-83. Prior to the initiation of any gauging, purging or sampling activities, clean plastic sheeting was placed on the ground surface around the well in order to provide a clean work area. Each was opened and gauged with a decontaminated electronic water level indicator to the nearest 0.01 foot. Fluid levels and total depth of the monitoring wells were recorded on field data sheets in indelible ink. It should be noted that wells MW-77 and MW-78 do not yet have permanent well pads and will have a change in top of casing elevation.

Purging

Each well was purged utilizing a low-flow pump equipped with disposable tubing. Prior to purging, the meters were calibrated according to manufacturer's specifications. Also, the meters' calibration was checked midway through and after the sampling activities. The calibration checks indicated that the meters remained calibrated within the acceptable ranges of the meters' standards throughout the purging activities. The Purge Meter Calibration Data Sheet and Monitoring Well Sampling Data Sheets are included in Appendix B.

Sampling

Groundwater samples were collected from monitoring wells MW-77 through MW-83 and placed into pre-labeled, laboratory-prepared sample containers utilizing a low-flow pump and disposable tubing via the straw method. Additionally, five (5) surface water samples were collected from the nearby stream and retention pond utilizing disposable bailers and colorless nylon bailer twine.

Purging parameters were measured and recorded immediately after sample collection. In order to further ensure sample integrity, samples were immediately placed on ice in an insulated cooler upon collection and entered into chain of custody. A field blank was collected at the completion of the sampling activities. A laboratory-prepared trip blank was included with the insulated sample cooler to ensure cross-contamination did not occur between the collected groundwater samples. A duplicate sample was also collected from MW-78 (MW-Dup).

The groundwater samples were submitted to Pace Analytical Services, LLC, a South Carolina certified laboratory (certification #32010), for analysis of benzene, toluene, ethylbenzene, xylenes (BTEX), naphthalene, MTBE, and 1,2-dichloroethane (1,2-DCA) by Environmental Protection Agency (EPA) approved analytical method 8260D. Additionally, samples were analyzed for 1,2-dibromoethane (EDB) by EPA approved method 8011. Groundwater samples were also analyzed for the following eight oxygenates: di-isopropyl ether (DIPE), ethanol, ethyl tert-butyl alcohol (ETBA), ethyl tert-butyl ether (ETBE), tert-amyl alcohol (TAA), tert-amyl methyl ether (TAME), tert-butyl alcohol (TBA), and tert-butyl formate (TBF).

The laboratory analytical results from this assessment (current) are tabulated in Table 1.B. CoC detected at concentrations above the RBSLs established by SCDHEC are indicated in bold type. The complete laboratory analytical results, including chain-of-custody documentation, are included as Appendix B. Groundwater CoC Site Maps indicating the May 2024 CoC concentrations in the groundwater are included as Figure 4 and Figure 4A (Oxygenates).

Grainsize Sampling

ARM personnel mobilized to the site on June 16, 2024 and attempted to collect grainsize sample from two (2) locations in the vicinity of wells MW-79 and MW-80. The target depth of five (5) feet could not be reached despite multiple attempts at several locations due to an apparently widespread layer of large gravel, ranging to a maximum diameter of approximately 50mm, present at approximately three (3) feet in each attempted boring.

Aquifer Evaluation

Slug tests were completed in a total of two (2) monitoring wells during this assessment: MW-77 and MW-80. The wells evaluated during this assessment were selected to obtain further information about the differences in soil permeability and transmissivity across the southeastern portion of the project area.

Displacement in the wells was achieved using a Waterra Well Slug or with disposable bailers. When utilizing the solid slug, the Waterra solid slug was introduced to the well and the water level was allowed to return to equilibrium prior to starting the test. Then the test was initiated, the slug was removed from the well to introduce displacement, and the test was allowed to run to completion.

When using the disposable bailers, displacement was introduced by withdrawing a full bailer of water, initiating the test, and allowing it to run to completion.

The Bouwer-Rice method was utilized with the computer application AQTESOLV to evaluate the slug test data collected using a Level TROLL 700 pressure transducer. The average hydraulic conductivities from each well were utilized to calculate the annual seepage velocities in each location.

The data from the slug tests conducted in wells MW-77 and MW-80 indicated average hydraulic conductivities of 491.97 ft/yr (MW-77) and 402.77 ft/yr (MW-80). The average hydraulic gradient measured in the shallow well network, based on the most recent available data from the December 2021 sampling event, was estimated to be 4.67 E-1 ft/ft (average of gradients between MW-53 to MW-55, MW-15 to MW-50, and MW-50 to MW-55). The effective porosity of the aquifer (sandy silt) was estimated to be approximately 28 percent. The estimated average seepage velocity in the evaluated wells was calculated to be 745.58 ft/yr.

The calculations, equations, data, and AQTESOLV slug test curve-matching graphs are included as Appendix F with this report. A tabulated summary of the vertical hydraulic gradients is also included in Appendix F.

Disposal

Less than ten (10) gallons of contaminated purge water and decontamination fluids were generated during this assessment. This material has been containerized and disposed of alongside the fluids generated during well development. The disposal manifest will be provided under separate cover.

Contractor Checklist

The SCDHEC QAPP Contractor Checklist is included in Appendix K.

Conclusions and Recommendations

The samples collected from wells MW-78, MW-81, and surface water sample SW-4 were found to contain concentrations of CoC greater than their respective regulatory limits during this event. It should be noted that the sample collected from well MW-77 was substantially diluted which resulted in elevated detection limits. Additionally, low levels of petroleum CoCs were identified in well MW-79 and surface water samples SW-3 and SW-5.

Based on the distribution of CoC, it appears that contaminants are flowing south along Ontario Street and, potentially, North Millwood Avenue. It is recommended that a comprehensive sampling event be completed, including all intact wells along North Millwood Avenue, to evaluate the horizontal migration of subsurface contaminants since the November 2021 sampling event. Based on the isolated detections in wells MW-79 and MW-81, it is currently hypothesized that a preferential pathway may exist along North Millwood Avenue and Ontario Street, potentially as a result of underground utility installations. It is recommended that as-built utility schematics, particularly for sanitary and storm sewer utilities, be obtained for the project area, if available.

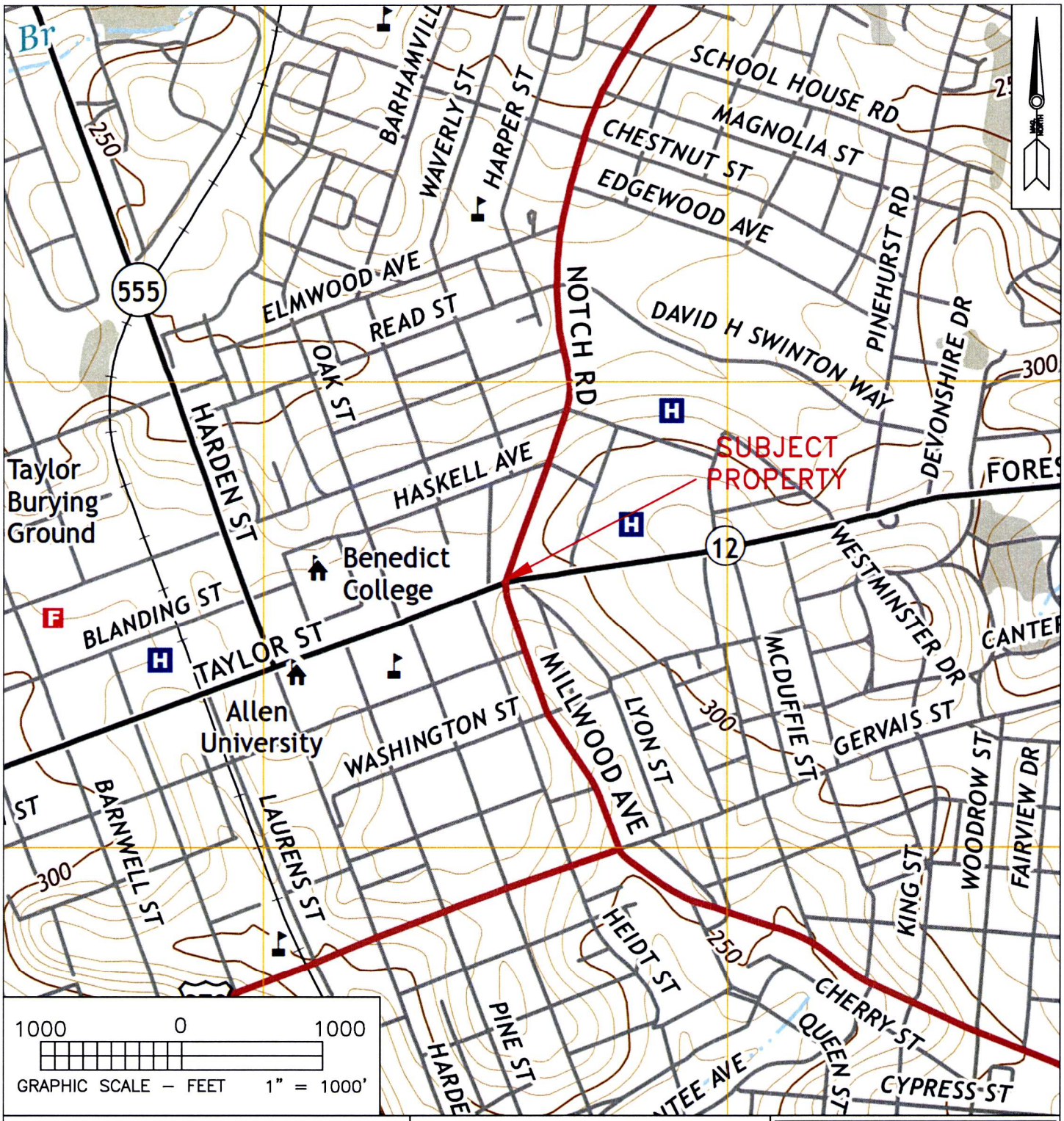
References

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/.

FIGURES

Figure 1 – Site Location Map (Topographic)
Figure 2 – Site Base Map
Figure 3A – Groundwater CoC Map
Figure 3B – Groundwater CoC Map (Oxy)



PROJECT:

LIMITED SAMPLING 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:

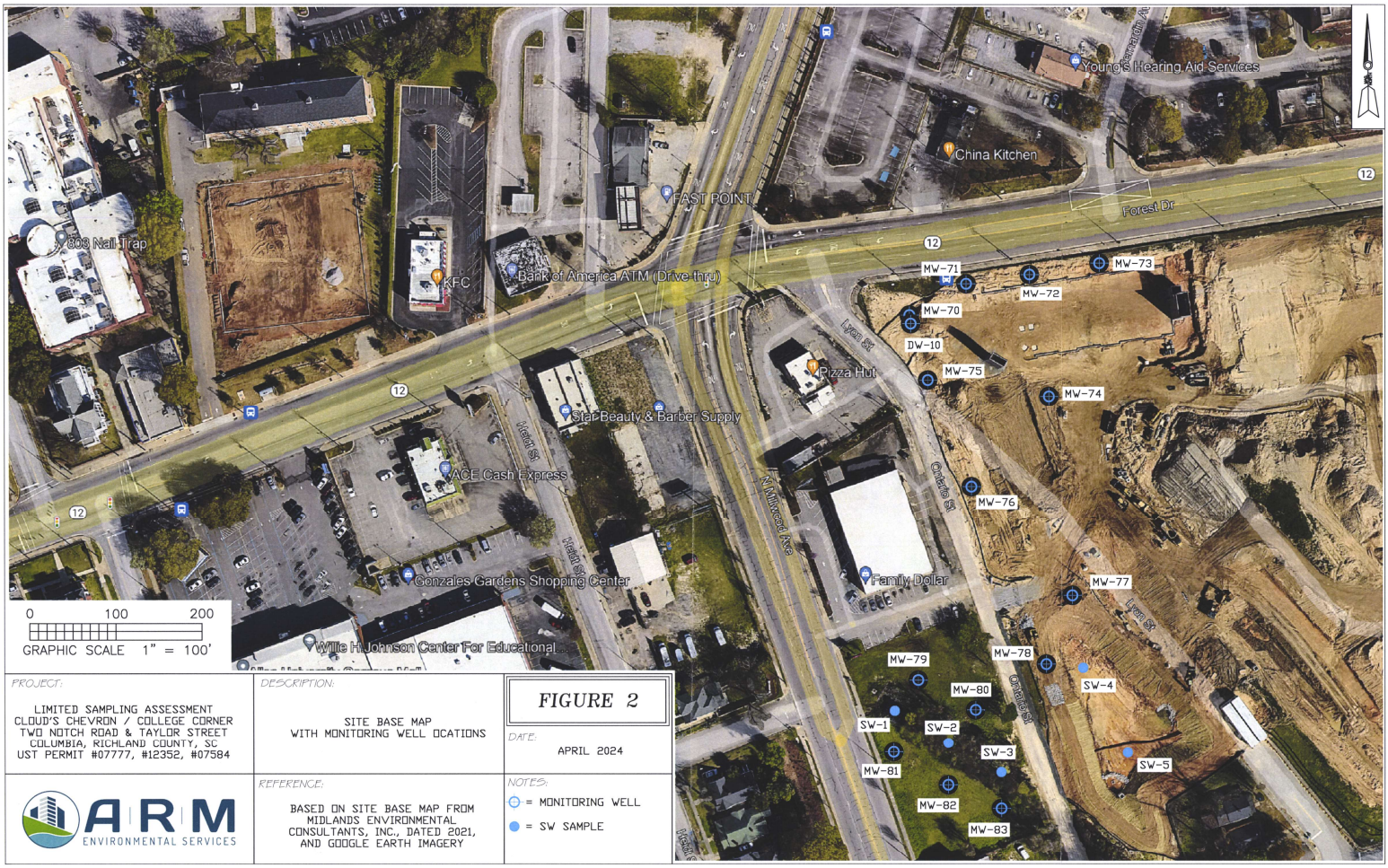
MAY 2024

ARM ENVIRONMENTAL SERVICES

REFERENCE:

U.S.G.S. TOPOGRAPHIC MAP
(7.5 MINUTE SERIES)
COLUMBIA NORTH – 2020
SOUTH CAROLINA QUADRANGLE

LEGEND:



PROJECT:

LIMITED SAMPLING 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 MONITORING WELL OCATIONS

FIGURE 2

DATE:

APRIL 2024

ARM ENVIRONMENTAL SERVICES

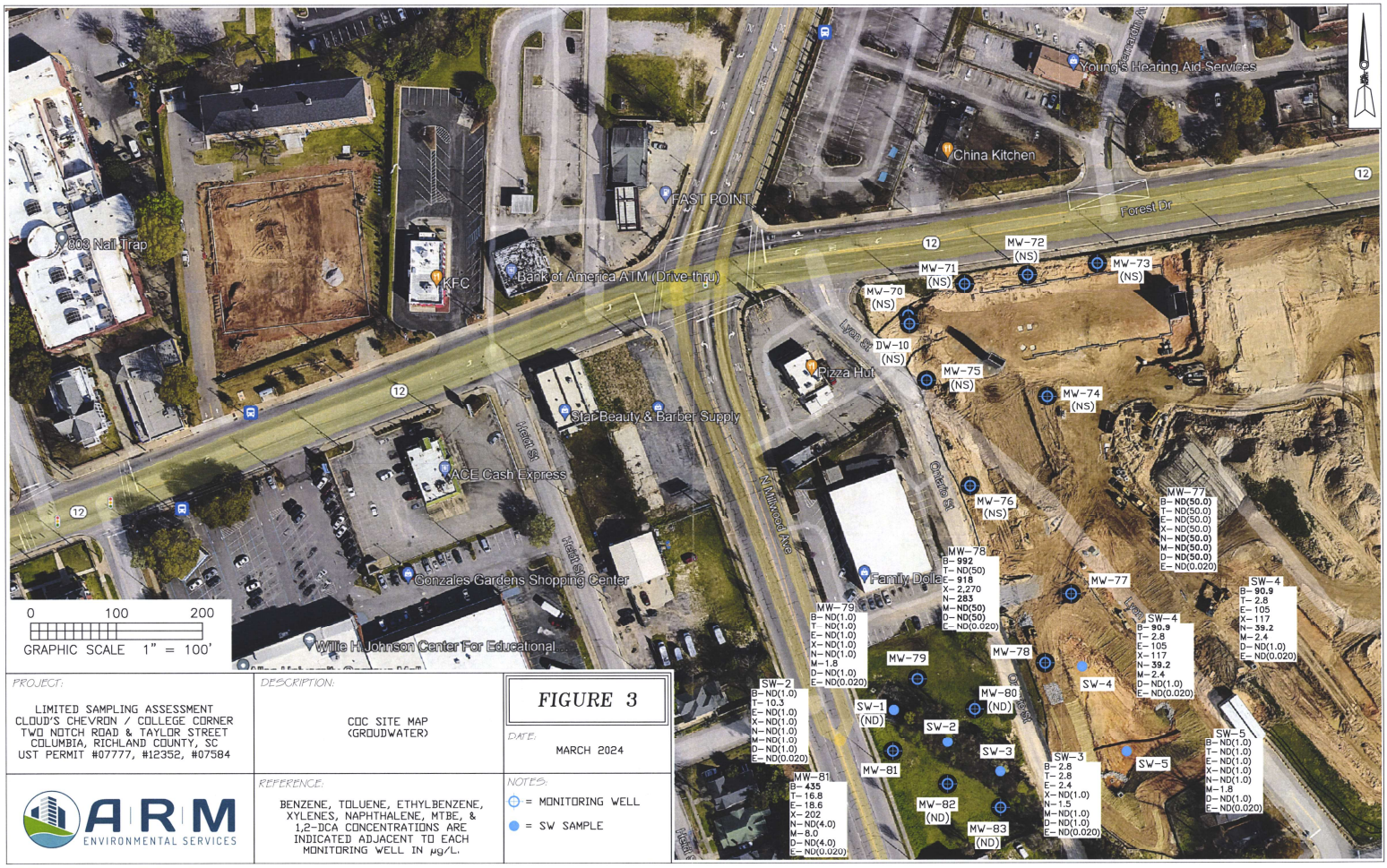
REFERENCE:

BASED ON SITE BASE MAP FROM MIDLANDS ENVIRONMENTAL CONSULTANTS, INC., DATED 2021, AND GOOGLE EARTH IMAGERY

NOTES:

= MONITORING WELL

= SW SAMPLE



PROJECT:

LIMITED SAMPLING ASSESSMENT
CLOUD'S CHEVRON / COLLEGE CORNER
TWO NOTCH ROAD & TAYLOR STREET
COLUMBIA, RICHLAND COUNTY, SC
UST PERMIT #07777, #12352, #07584

DESCRIPTION:

COC SITE MAP
(GROUDWATER)

FIGURE 3

DATE:

MARCH 2024

ARM ENVIRONMENTAL SERVICES

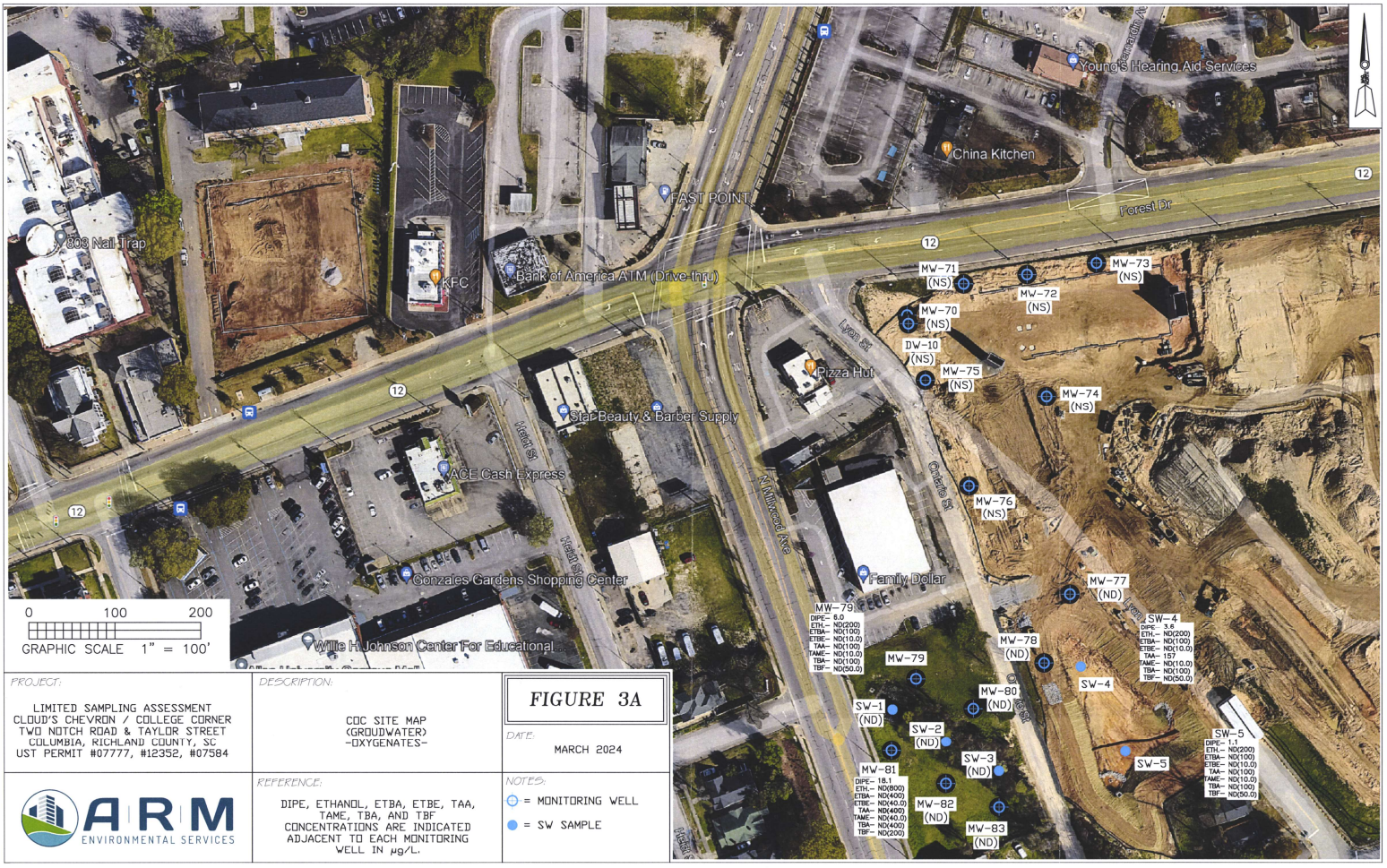
REFERENCE:

BENZENE, TOLUENE, ETHYLBENZENE, XYLENES, NAPHTHALENE, MTBE, & 1,2-DCA CONCENTRATIONS ARE INDICATED ADJACENT TO EACH MONITORING WELL IN µg/L.

NOTES:

○ = MONITORING WELL

● = SW SAMPLE



PROJECT: LIMITED SAMPLING ASSESSMENT CLOUD'S CHEVRON / COLLEGE CORNER TWO NOTCH ROAD & TAYLOR STREET COLUMBIA, RICHLAND COUNTY, SC UST PERMIT #07777, #12352, #07584	DESCRIPTION: COC SITE MAP (GROUDWATER) -OXYGENATES-	**FIGURE 3A** DATE: MARCH 2024
A|R|M ENVIRONMENTAL SERVICES	REFERENCE: DIPE, ETHANOL, ETBA, ETBE, TAA, TAME, TBA, AND TBF CONCENTRATIONS ARE INDICATED ADJACENT TO EACH MONITORING WELL IN µg/L.	NOTES: = MONITORING WELL = SW SAMPLE

TABLES

Table 1 – Tabulated Analytical Data
Table 2 – Not Included (Potentiometric Data)
Table 3 – Not Included (Site Conceptual Model)

APPENDICES

A. Not Included (Site Survey)
B. Sampling Documentation
    ii. Sampling Data Sheets
    iii. Laboratory Analytical Data
C. Not Included (Tax Map Information)
D. Not Included (Soil Boring / Field Screening Logs)
E. Not Included (1903 Well Completion Logs)
F. Aquifer Evaluation
G. Not Included (Disposal Manifest)
H. Not Included (Local Zoning Regulations)
I. Not Included (Fate & Transport Modeling)
J. Not Included (Property Access Documentation)
K. SCDHEC Contractor Checklist

College Corner / Cloud's Chevron, UST Permits #07584, #12352, #07777

Table 1.B – Groundwater Analytical Data (Current)

May 14, 2024

Monitor Well ID	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Naphth-alene	MTBE	1,2-DCA	EDB
RBSLs	---	**5.0**	**1,000**	**700**	**10,000**	**25**	**40**	**5 (MCL)**	**0.05**
MW-77	05/14/24	**ND (50.0)**	ND (50.0)	ND (50.0)	ND (50.0)	**ND (50.0)**	**ND (50.0)**	**ND (50.0)**	ND (0.020)
MW-78	05/14/24	**992**	ND (50.0)	**918**	2,270	**283**	**ND (50.0)**	**ND (50.0)**	ND (0.020)
MW-79	05/14/24	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	1.8	ND (1.0)	ND (0.020)
MW-80	05/14/24	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (0.020)
MW-81	05/14/24	**435**	16.8	18.6	202	ND (4.0)	8.0	ND (4.0)	ND (0.020)
MW-82	05/14/24	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (0.020)
MW-83	05/14/24	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (0.020)
MW-Dup (MW-78)	05/14/24	**829**	35.1	**731**	1,780	**201**	ND (10.0)	**ND (10.0)**	ND (0.020)
SW-1	05/14/24	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (0.020)
SW-2	05/14/24	ND (1.0)	10.3	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (0.020)
SW-3	05/14/24	2.8	2.8	2.4	ND (1.0)	1.5	ND (1.0)	ND (1.0)	ND (0.020)
SW-4	05/14/24	**90.9**	2.8	105	117	**39.2**	2.4	ND (1.0)	ND (0.020)
SW-5	05/14/24	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	1.8	ND (1.0)	ND (0.020)
MW-Field Blank	05/14/24	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (0.020)
Trip Blank	05/14/24	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	NA

Note: All units expressed in µg/L (PPB)
ND - Not Detected at or above Limit of Quantitation (LOQ)
MCL - Maximum Contaminant Level
NA - Not Analyzed

College Corner / Cloud's Chevron, UST Permits #07584, #12352, #07777

Table 1.B – Groundwater Analytical Data (Current)

--8 Oxygenates--

May 14, 2024

Monitor Well ID	Date Sampled	DIPE	Ethanol	ETBA	ETBE	TAA	TAME	TBA	TBF
Action Levels	**----**	**150**	**10,000**	**N/A**	**47**	**240**	**128**	**1,400**	**N/A**
MW-77	05/14/24	ND (50.0)	ND (10,000)	ND (5,000)	**ND (500)**	**ND (5,000)**	**ND (500)**	**ND (5,000)**	ND (2,500)
MW-78	05/14/24	ND (50.0)	ND (10,000)	ND (5,000)	**ND (500)**	**ND (5,000)**	**ND (500)**	**ND (5,000)**	ND (2,500)
MW-79	05/14/24	6.0	ND (200)	ND (100)	ND (10.0)	ND (100)	ND (10.0)	ND (100)	ND (50.0)
MW-80	05/14/24	ND (1.0)	ND (200)	ND (100)	ND (10.0)	ND (100)	ND (10.0)	ND (100)	ND (50.0)
MW-81	05/14/24	18.1	ND (800)	ND (400)	ND (40.0)	**ND (400)**	ND (40.0)	ND (400)	ND (200)
MW-82	05/14/24	ND (1.0)	ND (200)	ND (100)	ND (10.0)	ND (100)	ND (10.0)	ND (100)	ND (50.0)
MW-83	05/14/24	ND (1.0)	ND (200)	ND (100)	ND (10.0)	ND (100)	ND (10.0)	ND (100)	ND (50.0)
MW-Dup (MW-78)	05/14/24	20.7	ND (2,000)	ND (1,000)	ND (100)	**ND (1,000)**	ND (100)	ND (1,000)	ND (500)
SW-1	05/14/24	ND (1.0)	ND (200)	ND (100)	ND (10.0)	ND (100)	ND (10.0)	ND (100)	ND (50.0)
SW-2	05/14/24	ND (1.0)	ND (200)	ND (100)	ND (10.0)	ND (100)	ND (10.0)	ND (100)	ND (50.0)
SW-3	05/14/24	ND (1.0)	ND (200)	ND (100)	ND (10.0)	ND (100)	ND (10.0)	ND (100)	ND (50.0)
SW-4	05/14/24	3.6	ND (200)	ND (100)	ND (10.0)	157	ND (10.0)	ND (100)	ND (50.0)
SW-5	05/14/24	1.1	ND (200)	ND (100)	ND (10.0)	ND (100)	ND (10.0)	ND (100)	ND (50.0)
MW-Field Blank	05/14/24	ND (1.0)	ND (200)	ND (100)	ND (10.0)	ND (100)	ND (10.0)	ND (100)	ND (50.0)
Trip Blank	05/14/24	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 at or above Limit of Quantitation (LOQ)

N/A - Not Applicable

APPENDIX A
NOT INCLUDED

APPENDIX B. ii.
SAMPLING DATA SHEETS

ARM ENVIRONMENTAL SERVICES

Purge Meter Calibration Data Sheet

Site Data

Facility Name: College Corner/Cloud's Chevron Facility Location: Columbia, SC

UST Permit # or Site ID #: 07777, 12352, 07584 Field Personnel: K. Evans / X. Knox Weather: [redacted]

pH / Specific Conductivity Meter

Model & Serial # (check one):
- ____ YSI Pro1030 – 18D102494
- ____ YSI Pro1030 – 19M100336
- ✓ YSI Pro1030 – 19M100337

Dissolved Oxygen Meter

Model & Serial # (check one):
- ____ YSI ProODO – 17F101123
- ____ YSI ProSolo – 23C106847
- ✓ YSI ProSolo – 19E101515

Model & Serial # (check one):
- ____ 122 313366
- ____ 122 348655
- ____ 122 313272
- ____ 122 349097
- ____ 122 348852
- ____ 122 210233
- ____ 101 237535

Turbidity Meter

Model & Serial # (check one):
- ✓ Hach 2100Q S/N 17060C058890
- ____ Hach 2100Q S/N 17060C058895
- ____ Hanna Hi 98703 S/N B0093455
- ____ Hanna Hi 98703 S/N F0006492

Initial Calibration

pH Calibration:	[redacted]	7.02	10.01	
pH Standard:	4.01	7.00	10.01	
Spec. Cond. Calibration:	1412			
Spec. Cond. Standard:	1413			
Hanna Turbidity Calibration:	> 0.1	15.0	100	750
Hach Turbidity Calibration:	[redacted]	[redacted]	[redacted]	[redacted]
	10	20	100	800

Date: [redacted] Time: 0740

Midday Calibration Check

pH Calibration:	4.02	7.01	9.98	
pH Standard:	4.01	7.00	10.01	
Spec. Cond. Calibration:	1412			
Spec. Cond. Standard:	1413			
Hanna Turbidity Calibration:	> 0.1	15.0	100	750
Hach Turbidity Calibration:	10.2	20.2	101	798
	10	20	100	800

Date: 5-14-24 Time: 1238

End-of-Day Calibration Check

pH Calibration:	4.02	7.01	10.02	
pH Standard:	4.01	7.00	10.01	
Spec. Cond. Calibration:	1412			
Spec. Cond. Standard:	1413			
Hanna Turbidity Calibration:	> 0.1	15.0	100	750
Hach Turbidity Calibration:	10.1	19.9	101	802
	10	20	100	800

Date: 5-14-24 Time: 1625

ARM ENVIRONMENTAL SERVICES

Sampling Data Sheet

Date: 5-14-24

Site Data

Facility Name: College Corner/Cloud's Chevron Facility Location: Columbia, SC

UST Permit # or Site ID #: 07777, 12352, 07584 Field Personnel: K. Evans / X. Knox Weather: cloudy

Well Data

Well Number: mw-77 Diameter (in): 2" Well Volume (gal): _____

Total Depth: 24' Static Water Level: 16.53 Static Product Level: _____

Note: Do not purge a certain number of well volumes. Purge the well until the parameters below have stabilized.

1" well: 1 well volume = (TD - SWL) x 0.047
2" well: 1 well volume = (TD - SWL) x 0.163
4" well: 1 well volume = (TD - SWL) x 0.653

Purging Data

	Initial	1st reading	2nd reading	3rd reading	4th reading	5th reading	6th reading	7th reading	Post Sampling
Volume Purged (gal)	.1	.4	.75	1					1.2
Time (military)	1123	1133	1138	1143					1147
Water Level (feet)	16.66	16.67	16.67	16.67					16.61
pH (standard units)	5.87	4.57	4.58	4.62					4.61
Specific Cond. (µS/cm)	184.0	171.0	164.4	165.6					166.2
Water Temp (°C)	20.7	20.2	20.1	20.2					20.1
Turbidity (NTUs)	105	15.3	9.64	7.44					7.82
Dissolved Oxygen	5.61	4.92	4.96	4.96					4.94

Sample Collection Time: 1145 Purging Method: low-flow Sample Collection Method: Straw

Remarks: _____

ARM ENVIRONMENTAL SERVICES

Sampling Data Sheet

Date: 5-14-24

Site Data

Facility Name: College Corner/Cloud's Chevron Facility Location: Columbia, SC

UST Permit # or Site ID #: 07777, 12352, 07584 Field Personnel: K. Evans / X. Knox Weather: Cloudy

Well Data

Well Number: MW-78 Diameter (in): 2" Well Volume (gal): _____

Total Depth: 12' Static Water Level: 5.84 Static Product Level: _____

Note: Do not purge a certain number of well volumes. Purge the well until the parameters below have stabilized.

1" well: 1 well volume = (TD - SWL) x 0.047
2" well: 1 well volume = (TD - SWL) x 0.163
4" well: 1 well volume = (TD - SWL) x 0.653

Purging Data

	Initial	1st reading	2nd reading	3rd reading	4th reading	5th reading	6th reading	7th reading	Post Sampling
Volume Purged (gal)	.1	.4	.75	1					1.2
Time (military)	1200	1210	1215	1220					1225
Water Level (feet)	5.60	5.75	5.81	5.84					5.80
pH (standard units)	6.03	6.06	6.07	6.07					6.08
Specific Cond. (µS/cm)	200.7	205.4	205.4	205.7					204.9
Water Temp (°C)	22.8	23.0	23.0	23.1					23.1
Turbidity (NTUs)	65.8	17.4	11.6	10.4					11.4
Dissolved Oxygen	1.83	0.96	0.98	0.98					0.96

Sample Collection Time: 1222 Purging Method: low-flow Sample Collection Method: straw

Remarks: Dup @ 1223

ARM ENVIRONMENTAL SERVICES

Sampling Data Sheet

Date: 5-14-24

Site Data

Facility Name: College Corner/Cloud's Chevron Facility Location: Columbia, SC

UST Permit # or Site ID #: 07777, 12352, 07584 Field Personnel: K. Evans / X. Knox Weather: Sunny

Well Data

Well Number: MW-79 Diameter (in): 2" Well Volume (gal):

Total Depth: 15.7 Static Water Level: 7.81 Static Product Level:

Note: Do not purge a certain number of well volumes. Purge the well until the parameters below have stabilized.

1" well: 1 well volume = (TD - SWL) x 0.047
2" well: 1 well volume = (TD - SWL) x 0.163
4" well: 1 well volume = (TD - SWL) x 0.653

Purging Data

	Initial	1st reading	2nd reading	3rd reading	4th reading	5th reading	6th reading	7th reading	Post Sampling
Volume Purged (gal)	.1	.4	.75	1.5					1.2
Time (military)	1555	1605	1610	1615					1619
Water Level (feet)	8.30	9.55	9.82	10.02					9.94
pH (standard units)	6.32	6.04	6.05	6.05					6.03
Specific Cond. (µS/cm)	224.4	216.9	225.1	226.3					225.9
Water Temp (°C)	20.5	19.9	19.9	19.8					20.1
Turbidity (NTUs)	29.4	11.4	9.81	8.42					8.82
Dissolved Oxygen	2.60	1.08	1.09	1.09					1.07

Sample Collection Time: 1617 Purging Method: low-flow Sample Collection Method: straw

Remarks:

ARM ENVIRONMENTAL SERVICES

Sampling Data Sheet

Date: 5-14-24

Site Data

Facility Name: College Corner/Cloud's Chevron Facility Location: Columbia, SC

UST Permit # or Site ID #: 07777, 12352, 07584 Field Personnel: K. Evans / X. Knox Weather: cloudy

Well Data

Well Number: MW-80 Diameter (in): 2" Well Volume (gal): _____

Total Depth: 14.5 Static Water Level: 7.05 Static Product Level: _____

Note: Do not purge a certain number of well volumes. Purge the well until the parameters below have stabilized.

1" well: 1 well volume = (TD - SWL) x 0.047
2" well: 1 well volume = (TD - SWL) x 0.163
4" well: 1 well volume = (TD - SWL) x 0.653

Purging Data

	Initial	1st reading	2nd reading	3rd reading	4th reading	5th reading	6th reading	7th reading	Post Sampling
Volume Purged (gal)	0.1	.4	.75	1.1					1.2
Time (military)	1526	1536	1541	1546					1550
Water Level (feet)	7.21	7.73	7.79	7.83					7.76
pH (standard units)	6.33	6.42	6.44	6.44					6.45
Specific Cond. (µS/cm)	245.4	269.9	275.3	275.3					275.6
Water Temp (°C)	20.5	19.6	19.6	19.6					19.8
Turbidity (NTUs)	80.1	16.8	8.52	7.31					7.74
Dissolved Oxygen	2.05	0.49	0.50	0.49					0.51

Sample Collection Time: ~~14~~ 1546 Purging Method: low-flow Sample Collection Method: straw

Remarks: _____

ARM ENVIRONMENTAL SERVICES

Sampling Data Sheet

Date: 5-14-24

Site Data

Facility Name: College Corner/Cloud's Chevron Facility Location: Columbia, SC

UST Permit # or Site ID #: 07777, 12352, 07584 Field Personnel: K. Evans / X. Knox Weather: Sunny

Well Data

Well Number: mw-81 Diameter (in): 2" Well Volume (gal): _____

Total Depth: 11.8 Static Water Level: 2.83 Static Product Level: _____

Note: Do not purge a certain number of well volumes. Purge the well until the parameters below have stabilized.

1" well: 1 well volume = (TD - SWL) x 0.047
2" well: 1 well volume = (TD - SWL) x 0.163
4" well: 1 well volume = (TD - SWL) x 0.653

Purging Data

	Initial	1st reading	2nd reading	3rd reading	4th reading	5th reading	6th reading	7th reading	Post Sampling
Volume Purged (gal)	.1	.4	.75	1	1.2				1.5
Time (military)	1442	1452	1457	1502	1507				1521
Water Level (feet)	3.17	3.81	4.06	4.87	5.03				4.98
pH (standard units)	6.16	6.17	6.19	6.17	6.17				6.16
Specific Cond. (µS/cm)	185.6	195.9	197.1	197.1	198.0				197.8
Water Temp (°C)	21.3	20.2	19.8	19.7	19.7				19.6
Turbidity (NTUs)	38.1	158	176	258	236				251
Dissolved Oxygen	2.57	0.86	1.02	1.03	1.04				1.01

Sample Collection Time: 1509 Purging Method: low-flow Sample Collection Method: Straw

Remarks: Turbidity would not stabilize kept going up each reading.

ARM ENVIRONMENTAL SERVICES

Sampling Data Sheet

Date: 5-14-24

Site Data

Facility Name: College Corner/Cloud's Chevron Facility Location: Columbia, SC

UST Permit # or Site ID #: 07777, 12352, 07584 Field Personnel: K. Evans / X. Knox Weather: Cloudy

Well Data

Well Number: MW-82 Diameter (in): 2" Well Volume (gal): _____

Total Depth: 11.5 Static Water Level: 5.80 Static Product Level: _____

Note: Do not purge a certain number of well volumes. Purge the well until the parameters below have stabilized.

1" well: 1 well volume = (TD - SWL) x 0.047
2" well: 1 well volume = (TD - SWL) x 0.163
4" well: 1 well volume = (TD - SWL) x 0.653

Purging Data

	Initial	1st reading	2nd reading	3rd reading	4th reading	5th reading	6th reading	7th reading	Post Sampling
Volume Purged (gal)	0.1	.4	.75	1					1.4
Time (military)	1406	1416	1421	1426					1430
Water Level (feet)	5.93	5.95	5.96	5.97					5.88
pH (standard units)	6.07	6.31	6.36	6.37					6.38
Specific Cond. (µS/cm)	174.3	168.4	174.5	175.5					175.5
Water Temp (°C)	20.4	20.7	20.8	20.9					21.1
Turbidity (NTUs)	5.71	3.33 ~~3.57~~	3.76	3.79					4.12
Dissolved Oxygen	4.45	3.57	3.61	3.64					3.63

Sample Collection Time: 1424 Purging Method: low-flow Sample Collection Method: Straw

Remarks: _____

ARM ENVIRONMENTAL SERVICES

Sampling Data Sheet

Date: 5-14-24

Site Data

Facility Name: College Corner/Cloud's Chevron Facility Location: Columbia, SC

UST Permit # or Site ID #: 07777, 12352, 07584 Field Personnel: K. Evans / X. Knox Weather: cloudy

Well Data

Well Number: mw-83 Diameter (in): 2" Well Volume (gal):

Total Depth: 12' Static Water Level: 6.06 Static Product Level:

Note: Do not purge a certain number of well volumes. Purge the well until the parameters below have stabilized.

1" well: 1 well volume = (TD - SWL) x 0.047
2" well: 1 well volume = (TD - SWL) x 0.163
4" well: 1 well volume = (TD - SWL) x 0.653

Purging Data

	Initial	1st reading	2nd reading	3rd reading	4th reading	5th reading	6th reading	7th reading	Post Sampling
Volume Purged (gal)	.1	.4	.75	1					1.2
Time (military)	1251	1301	1306	1311					1315
Water Level (feet)	6.06	6.08	6.19	6.21					6.15
pH (standard units)	5.65	5.28	5.28	5.28					5.26
Specific Cond. (µS/cm)	122.8	118.6	114.3	114.9					114.6
Water Temp (°C)	20.5	20.4	20.5	20.4					20.5
Turbidity (NTUs)	51.2	24.3	9.82	6.31					6.88
Dissolved Oxygen	4.31	3.55	3.29	3.31					3.32

Sample Collection Time: 1313 Purging Method: low-flow Sample Collection Method: Straw

Remarks:

ARM ENVIRONMENTAL SERVICES

Sampling Data Sheet

Date: 5-14-24

Site Data

Facility Name: College Corner/Cloud's Chevron Facility Location: Columbia, SC

UST Permit # or Site ID #: 07777, 12352, 07584 Field Personnel: K. Evans / X. Knox Weather: Cloudy

Well Data

Well Number: SW-1 Diameter (in): _____ Well Volume (gal): _____

Total Depth: _____ Static Water Level: _____ Static Product Level: _____

Note: Do not purge a certain number of well volumes. Purge the well until the parameters below have stabilized.

1" well: 1 well volume = (TD - SWL) x 0.047
2" well: 1 well volume = (TD - SWL) x 0.163
4" well: 1 well volume = (TD - SWL) x 0.653

Purging Data

	Initial	1st reading	2nd reading	3rd reading	4th reading	5th reading	6th reading	7th reading	Post Sampling
Volume Purged (gal)									
Time (military)									
Water Level (feet)									
pH (standard units)									
Specific Cond. (µS/cm)									
Water Temp (°C)									
Turbidity (NTUs)									
Dissolved Oxygen									

Sample Collection Time: 1400 Purging Method: _____ Sample Collection Method: _____

Remarks: _____

ARM ENVIRONMENTAL SERVICES

Sampling Data Sheet

Date: 5-14-24

Site Data

Facility Name: College Corner/Cloud's Chevron Facility Location: Columbia, SC

UST Permit # or Site ID # 07777, 12352, 07584 Field Personnel: K. Evans / X. Knox Weather: Sunny

Well Data

Well Number: SW-2 Diameter (in): _____ Well Volume (gal): _____

Total Depth: _____ Static Water Level: _____ Static Product Level: _____

Note: Do not purge a certain number of well volumes. Purge the well until the parameters below have stabilized.

1" well: 1 well volume = (TD - SWL) x 0.047
2" well: 1 well volume = (TD - SWL) x 0.163
4" well: 1 well volume = (TD - SWL) x 0.653

Purging Data

	Initial	1st reading	2nd reading	3rd reading	4th reading	5th reading	6th reading	7th reading	Post Sampling
Volume Purged (gal)									
Time (military)									
Water Level (feet)									
pH (standard units)									
Specific Cond. (µS/cm)									
Water Temp (°C)									
Turbidity (NTUs)									
Dissolved Oxygen									

Sample Collection Time: 1434 Purging Method: — Sample Collection Method: —

Remarks: _____

ARM ENVIRONMENTAL SERVICES

Sampling Data Sheet

Date: 5-14-24

Site Data

Facility Name: College Corner/Cloud's Chevron Facility Location: Columbia, SC

UST Permit # or Site ID # 07777, 12352, 07584 Field Personnel: K. Evans / X. Knox Weather: Sunny

Well Data

Well Number: SW-3 Diameter (in): _____ Well Volume (gal): _____

Total Depth: _____ Static Water Level: _____ Static Product Level: _____

Note: Do not purge a certain number of well volumes. Purge the well until the parameters below have stabilized.

1" well: 1 well volume = (TD - SWL) x 0.047
2" well: 1 well volume = (TD - SWL) x 0.163
4" well: 1 well volume = (TD - SWL) x 0.653

Purging Data

	Initial	1st reading	2nd reading	3rd reading	4th reading	5th reading	6th reading	7th reading	Post Sampling
Volume Purged (gal)									
Time (military)									
Water Level (feet)									
pH (standard units)									
Specific Cond. (µS/cm)									
Water Temp (°C)									
Turbidity (NTUs)									
Dissolved Oxygen									

Sample Collection Time: 1515 Purging Method: _____ Sample Collection Method: _____

Remarks: _____

ARM ENVIRONMENTAL SERVICES

Sampling Data Sheet

Date: 5-14-24

Site Data

Facility Name: College Corner/Cloud's Chevron Facility Location: Columbia, SC

UST Permit # or Site ID #: 07777, 12352, 07584 Field Personnel: K. Evans / X. Knox Weather: Cloudy

Well Data

Well Number: SW-4 Diameter (in): _____ Well Volume (gal): _____

Total Depth: _____ Static Water Level: _____ Static Product Level: _____

Note: Do not purge a certain number of well volumes. Purge the well until the parameters below have stabilized.

1" well: 1 well volume = (TD - SWL) x 0.047
2" well: 1 well volume = (TD - SWL) x 0.163
4" well: 1 well volume = (TD - SWL) x 0.653

Purging Data

	Initial	1st reading	2nd reading	3rd reading	4th reading	5th reading	6th reading	7th reading	Post Sampling
Volume Purged (gal)									
Time (military)									
Water Level (feet)									
pH (standard units)									
Specific Cond. (µS/cm)									
Water Temp (°C)									
Turbidity (NTUs)									
Dissolved Oxygen									

Sample Collection Time: 1224 Purging Method: — Sample Collection Method: —

Remarks: _____

ARM ENVIRONMENTAL SERVICES

Sampling Data Sheet

Date: 5/14/24 ~~5/15/24~~

Site Data

Facility Name: College Corner/Cloud's Chevron Facility Location: Columbia, SC

UST Permit # or Site ID # 07777, 12352, 07584 Field Personnel: K. Evans / X. Knox Weather: Cloudy ~~Sunny~~

Well Data

Well Number: ~~MW-~~SCW-5 Diameter (in): 2" Well Volume (gal): _____

Total Depth: _____ Static Water Level: _____ Static Product Level: _____

Note: Do not purge a certain number of well volumes. Purge the well until the parameters below have stabilized.

1" well: 1 well volume = (TD - SWL) x 0.047
2" well: 1 well volume = (TD - SWL) x 0.163
4" well: 1 well volume = (TD - SWL) x 0.653

Purging Data

	Initial	1st reading	2nd reading	3rd reading	4th reading	5th reading	6th reading	7th reading	Post Sampling
Volume Purged (gal)									
Time (military)									
Water Level (feet)									
pH (standard units)									
Specific Cond. (µS/cm)									
Water Temp (°C)									
Turbidity (NTUs)									
Dissolved Oxygen									

Sample Collection Time: 1233 Purging Method: low-flow Sample Collection Method: Straw

Remarks: _____

APPENDIX B. iii.
LABORATORY ANALYTICAL DATA

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

May 21, 2024

Mr. Michael Faris
ARM Environmental Services
1210 First Street South
Columbia, SC 29209

RE: Project: COLLEGE CORNER
Pace Project No.: 92730880

Dear Mr. Faris:

Enclosed are the analytical results for sample(s) received by the laboratory on May 15, 2024. 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,

Lucas Odom
lucas.odom@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Paul Myers, ARM Environmental Services

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

CERTIFICATIONS

Project: COLLEGE CORNER
Pace Project No.: 92730880

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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SAMPLE SUMMARY

Project: COLLEGE CORNER
Pace Project No.: 92730880

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92730880001	MW-77	Water	05/14/24 11:45	05/15/24 08:00
92730880002	MW-78	Water	05/14/24 12:22	05/15/24 08:00
92730880003	MW-79	Water	05/14/24 16:17	05/15/24 08:00
92730880004	MW-80	Water	05/14/24 15:48	05/15/24 08:00
92730880005	MW-81	Water	05/14/24 15:09	05/15/24 08:00
92730880006	MW-82	Water	05/14/24 14:28	05/15/24 08:00
92730880007	MW-83	Water	05/14/24 13:13	05/15/24 08:00
92730880008	SW-1	Water	05/14/24 14:00	05/15/24 08:00
92730880009	SW-2	Water	05/14/24 14:34	05/15/24 08:00
92730880010	SW-3	Water	05/14/24 15:15	05/15/24 08:00
92730880011	SW-4	Water	05/14/24 12:28	05/15/24 08:00
92730880012	SW-5	Water	05/14/24 12:33	05/15/24 08:00
92730880013	MW-DUP	Water	05/14/24 12:23	05/15/24 08:00
92730880014	MW-FIELD BLANK	Water	05/14/24 16:30	05/15/24 08:00
92730880015	TRIP BLANK	Water	05/14/24 00:00	05/15/24 08:00

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SAMPLE ANALYTE COUNT

Project: COLLEGE CORNER
Pace Project No.: 92730880

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92730880001	MW-77	EPA 8011	HH	2	PASI-C
		EPA 8260D	TMH	18	PASI-C
92730880002	MW-78	EPA 8011	HH	2	PASI-C
		EPA 8260D	TMH	18	PASI-C
92730880003	MW-79	EPA 8011	HH	2	PASI-C
		EPA 8260D	TMH	18	PASI-C
92730880004	MW-80	EPA 8011	HH	2	PASI-C
		EPA 8260D	TMH	18	PASI-C
92730880005	MW-81	EPA 8011	HH	2	PASI-C
		EPA 8260D	TMH	18	PASI-C
92730880006	MW-82	EPA 8011	HH	2	PASI-C
		EPA 8260D	TMH	18	PASI-C
92730880007	MW-83	EPA 8011	HH	2	PASI-C
		EPA 8260D	TMH	18	PASI-C
92730880008	SW-1	EPA 8011	HH	2	PASI-C
		EPA 8260D	TMH	18	PASI-C
92730880009	SW-2	EPA 8011	HH	2	PASI-C
		EPA 8260D	TMH	18	PASI-C
92730880010	SW-3	EPA 8011	HH	2	PASI-C
		EPA 8260D	TMH	18	PASI-C
92730880011	SW-4	EPA 8011	HH	2	PASI-C
		EPA 8260D	TMH	18	PASI-C
92730880012	SW-5	EPA 8011	HH	2	PASI-C
		EPA 8260D	TMH	18	PASI-C
92730880013	MW-DUP	EPA 8011	HH	2	PASI-C
		EPA 8260D	TMH	18	PASI-C
92730880014	MW-FIELD BLANK	EPA 8011	HH	2	PASI-C
		EPA 8260D	TMH	18	PASI-C
92730880015	TRIP BLANK	EPA 8260D	TMH	18	PASI-C

PASI-C = Pace Analytical Services - Charlotte

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SUMMARY OF DETECTION

Project: COLLEGE CORNER
Pace Project No.: 92730880

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92730880002	**MW-78**					
EPA 8260D	Benzene	992	ug/L	50.0	05/16/24 02:25	
EPA 8260D	Ethylbenzene	918	ug/L	50.0	05/16/24 02:25	
EPA 8260D	Naphthalene	283	ug/L	50.0	05/16/24 02:25	
EPA 8260D	Xylene (Total)	2270	ug/L	50.0	05/16/24 02:25	
92730880003	**MW-79**					
EPA 8260D	Diisopropyl ether	6.0	ug/L	1.0	05/18/24 01:27	
EPA 8260D	Methyl-tert-butyl ether	1.8	ug/L	1.0	05/18/24 01:27	
92730880005	**MW-81**					
EPA 8260D	Benzene	435	ug/L	4.0	05/18/24 03:48	
EPA 8260D	Diisopropyl ether	18.1	ug/L	4.0	05/18/24 03:48	
EPA 8260D	Ethylbenzene	18.6	ug/L	4.0	05/18/24 03:48	
EPA 8260D	Methyl-tert-butyl ether	8.0	ug/L	4.0	05/18/24 03:48	
EPA 8260D	Toluene	16.8	ug/L	4.0	05/18/24 03:48	
EPA 8260D	Xylene (Total)	202	ug/L	4.0	05/18/24 03:48	
92730880009	**SW-2**					
EPA 8260D	Toluene	10.3	ug/L	1.0	05/16/24 00:52	
92730880010	**SW-3**					
EPA 8260D	Benzene	2.8	ug/L	1.0	05/16/24 01:10	
EPA 8260D	Ethylbenzene	2.4	ug/L	1.0	05/16/24 01:10	
EPA 8260D	Naphthalene	1.5	ug/L	1.0	05/16/24 01:10	
EPA 8260D	Toluene	2.8	ug/L	1.0	05/16/24 01:10	
92730880011	**SW-4**					
EPA 8260D	tert-Amyl Alcohol	157	ug/L	100	05/16/24 01:29	
EPA 8260D	Benzene	90.9	ug/L	1.0	05/16/24 01:29	
EPA 8260D	Diisopropyl ether	3.6	ug/L	1.0	05/16/24 01:29	
EPA 8260D	Ethylbenzene	105	ug/L	1.0	05/16/24 01:29	
EPA 8260D	Methyl-tert-butyl ether	2.4	ug/L	1.0	05/16/24 01:29	
EPA 8260D	Naphthalene	39.2	ug/L	1.0	05/16/24 01:29	
EPA 8260D	Toluene	2.8	ug/L	1.0	05/16/24 01:29	
EPA 8260D	Xylene (Total)	117	ug/L	1.0	05/16/24 01:29	
92730880012	**SW-5**					
EPA 8260D	Diisopropyl ether	1.1	ug/L	1.0	05/18/24 01:45	
EPA 8260D	Methyl-tert-butyl ether	1.8	ug/L	1.0	05/18/24 01:45	
92730880013	**MW-DUP**					
EPA 8260D	Benzene	829	ug/L	10.0	05/18/24 04:59	
EPA 8260D	Diisopropyl ether	20.7	ug/L	10.0	05/18/24 04:59	
EPA 8260D	Ethylbenzene	731	ug/L	10.0	05/18/24 04:59	
EPA 8260D	Naphthalene	201	ug/L	10.0	05/18/24 04:59	
EPA 8260D	Toluene	35.1	ug/L	10.0	05/18/24 04:59	
EPA 8260D	Xylene (Total)	1780	ug/L	10.0	05/18/24 04:59	

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ANALYTICAL RESULTS

Project: COLLEGE CORNER
Pace Project No.: 92730880

Sample: MW-77 **Lab ID: 92730880001** Collected: 05/14/24 11:45 Received: 05/15/24 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	05/16/24 10:37	05/16/24 14:15	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	115	%	60-140	1	05/16/24 10:37	05/16/24 14:15	301-79-56	
8260 MSV Low Level SC	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	5000	50		05/16/24 02:06	75-85-4	
tert-Amylmethyl ether	ND	ug/L	500	50		05/16/24 02:06	994-05-8	
Benzene	ND	ug/L	50.0	50		05/16/24 02:06	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	5000	50		05/16/24 02:06	624-95-3	
tert-Butyl Alcohol	ND	ug/L	5000	50		05/16/24 02:06	75-65-0	
tert-Butyl Formate	ND	ug/L	2500	50		05/16/24 02:06	762-75-4	
1,2-Dichloroethane	ND	ug/L	50.0	50		05/16/24 02:06	107-06-2	
Diisopropyl ether	ND	ug/L	50.0	50		05/16/24 02:06	108-20-3	
Ethanol	ND	ug/L	10000	50		05/16/24 02:06	64-17-5	
Ethylbenzene	ND	ug/L	50.0	50		05/16/24 02:06	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	500	50		05/16/24 02:06	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	50.0	50		05/16/24 02:06	1634-04-4	
Naphthalene	ND	ug/L	50.0	50		05/16/24 02:06	91-20-3	
Toluene	ND	ug/L	50.0	50		05/16/24 02:06	108-88-3	
Xylene (Total)	ND	ug/L	50.0	50		05/16/24 02:06	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-130	50		05/16/24 02:06	460-00-4	T3
1,2-Dichloroethane-d4 (S)	94	%	70-130	50		05/16/24 02:06	17060-07-0	
Toluene-d8 (S)	103	%	70-130	50		05/16/24 02:06	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: COLLEGE CORNER
Pace Project No.: 92730880

Sample: MW-78 **Lab ID: 92730880002** Collected: 05/14/24 12:22 Received: 05/15/24 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	05/16/24 10:37	05/16/24 14:36	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	123	%	60-140	1	05/16/24 10:37	05/16/24 14:36	301-79-56	
8260 MSV Low Level SC	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	5000	50		05/16/24 02:25	75-85-4	
tert-Amylmethyl ether	ND	ug/L	500	50		05/16/24 02:25	994-05-8	
Benzene	**992**	ug/L	50.0	50		05/16/24 02:25	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	5000	50		05/16/24 02:25	624-95-3	
tert-Butyl Alcohol	ND	ug/L	5000	50		05/16/24 02:25	75-65-0	
tert-Butyl Formate	ND	ug/L	2500	50		05/16/24 02:25	762-75-4	
1,2-Dichloroethane	ND	ug/L	50.0	50		05/16/24 02:25	107-06-2	
Diisopropyl ether	ND	ug/L	50.0	50		05/16/24 02:25	108-20-3	
Ethanol	ND	ug/L	10000	50		05/16/24 02:25	64-17-5	
Ethylbenzene	**918**	ug/L	50.0	50		05/16/24 02:25	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	500	50		05/16/24 02:25	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	50.0	50		05/16/24 02:25	1634-04-4	
Naphthalene	**283**	ug/L	50.0	50		05/16/24 02:25	91-20-3	
Toluene	ND	ug/L	50.0	50		05/16/24 02:25	108-88-3	
Xylene (Total)	**2270**	ug/L	50.0	50		05/16/24 02:25	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	95	%	70-130	50		05/16/24 02:25	460-00-4	T3
1,2-Dichloroethane-d4 (S)	96	%	70-130	50		05/16/24 02:25	17060-07-0	
Toluene-d8 (S)	103	%	70-130	50		05/16/24 02:25	2037-26-5	

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ANALYTICAL RESULTS

Project: COLLEGE CORNER
Pace Project No.: 92730880

Sample: MW-79 **Lab ID: 92730880003** Collected: 05/14/24 16:17 Received: 05/15/24 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	05/16/24 10:37	05/16/24 15:09	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	90	%	60-140	1	05/16/24 10:37	05/16/24 15:09	301-79-56	
8260 MSV Low Level SC	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		05/18/24 01:27	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		05/18/24 01:27	994-05-8	
Benzene	ND	ug/L	1.0	1		05/18/24 01:27	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		05/18/24 01:27	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		05/18/24 01:27	75-65-0	v2
tert-Butyl Formate	ND	ug/L	50.0	1		05/18/24 01:27	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/18/24 01:27	107-06-2	
Diisopropyl ether	**6.0**	ug/L	1.0	1		05/18/24 01:27	108-20-3	
Ethanol	ND	ug/L	200	1		05/18/24 01:27	64-17-5	
Ethylbenzene	ND	ug/L	1.0	1		05/18/24 01:27	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		05/18/24 01:27	637-92-3	
Methyl-tert-butyl ether	**1.8**	ug/L	1.0	1		05/18/24 01:27	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/18/24 01:27	91-20-3	
Toluene	ND	ug/L	1.0	1		05/18/24 01:27	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		05/18/24 01:27	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	86	%	70-130	1		05/18/24 01:27	460-00-4	
1,2-Dichloroethane-d4 (S)	120	%	70-130	1		05/18/24 01:27	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		05/18/24 01:27	2037-26-5	

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ANALYTICAL RESULTS

Project: COLLEGE CORNER
Pace Project No.: 92730880

Sample: MW-80 **Lab ID: 92730880004** Collected: 05/14/24 15:48 Received: 05/15/24 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	05/16/24 10:37	05/16/24 15:20	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	89	%	60-140	1	05/16/24 10:37	05/16/24 15:20	301-79-56	
8260 MSV Low Level SC	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		05/17/24 23:41	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		05/17/24 23:41	994-05-8	
Benzene	ND	ug/L	1.0	1		05/17/24 23:41	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		05/17/24 23:41	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		05/17/24 23:41	75-65-0	v2
tert-Butyl Formate	ND	ug/L	50.0	1		05/17/24 23:41	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/17/24 23:41	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	1		05/17/24 23:41	108-20-3	
Ethanol	ND	ug/L	200	1		05/17/24 23:41	64-17-5	
Ethylbenzene	ND	ug/L	1.0	1		05/17/24 23:41	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		05/17/24 23:41	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/17/24 23:41	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/17/24 23:41	91-20-3	
Toluene	ND	ug/L	1.0	1		05/17/24 23:41	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		05/17/24 23:41	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	99	%	70-130	1		05/17/24 23:41	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	70-130	1		05/17/24 23:41	17060-07-0	
Toluene-d8 (S)	103	%	70-130	1		05/17/24 23:41	2037-26-5	

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ANALYTICAL RESULTS

Project: COLLEGE CORNER
Pace Project No.: 92730880

Sample: MW-81 **Lab ID: 92730880005** Collected: 05/14/24 15:09 Received: 05/15/24 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	05/16/24 10:37	05/16/24 15:31	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	94	%	60-140	1	05/16/24 10:37	05/16/24 15:31	301-79-56	
8260 MSV Low Level SC	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	400	4		05/18/24 03:48	75-85-4	
tert-Amylmethyl ether	ND	ug/L	40.0	4		05/18/24 03:48	994-05-8	
Benzene	**435**	ug/L	4.0	4		05/18/24 03:48	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	400	4		05/18/24 03:48	624-95-3	
tert-Butyl Alcohol	ND	ug/L	400	4		05/18/24 03:48	75-65-0	v3
tert-Butyl Formate	ND	ug/L	200	4		05/18/24 03:48	762-75-4	
1,2-Dichloroethane	ND	ug/L	4.0	4		05/18/24 03:48	107-06-2	
Diisopropyl ether	**18.1**	ug/L	4.0	4		05/18/24 03:48	108-20-3	
Ethanol	ND	ug/L	800	4		05/18/24 03:48	64-17-5	
Ethylbenzene	**18.6**	ug/L	4.0	4		05/18/24 03:48	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	40.0	4		05/18/24 03:48	637-92-3	
Methyl-tert-butyl ether	**8.0**	ug/L	4.0	4		05/18/24 03:48	1634-04-4	
Naphthalene	ND	ug/L	4.0	4		05/18/24 03:48	91-20-3	
Toluene	**16.8**	ug/L	4.0	4		05/18/24 03:48	108-88-3	
Xylene (Total)	**202**	ug/L	4.0	4		05/18/24 03:48	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	4		05/18/24 03:48	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130	4		05/18/24 03:48	17060-07-0	
Toluene-d8 (S)	100	%	70-130	4		05/18/24 03:48	2037-26-5	

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ANALYTICAL RESULTS

Project: COLLEGE CORNER
Pace Project No.: 92730880

Sample: MW-82 **Lab ID: 92730880006** Collected: 05/14/24 14:28 Received: 05/15/24 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	05/16/24 10:37	05/16/24 15:41	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	92	%	60-140	1	05/16/24 10:37	05/16/24 15:41	301-79-56	
8260 MSV Low Level SC	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		05/17/24 23:59	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		05/17/24 23:59	994-05-8	
Benzene	ND	ug/L	1.0	1		05/17/24 23:59	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		05/17/24 23:59	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		05/17/24 23:59	75-65-0	v2
tert-Butyl Formate	ND	ug/L	50.0	1		05/17/24 23:59	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/17/24 23:59	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	1		05/17/24 23:59	108-20-3	
Ethanol	ND	ug/L	200	1		05/17/24 23:59	64-17-5	
Ethylbenzene	ND	ug/L	1.0	1		05/17/24 23:59	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		05/17/24 23:59	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/17/24 23:59	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/17/24 23:59	91-20-3	
Toluene	ND	ug/L	1.0	1		05/17/24 23:59	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		05/17/24 23:59	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1		05/17/24 23:59	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130	1		05/17/24 23:59	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		05/17/24 23:59	2037-26-5	

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ANALYTICAL RESULTS

Project: COLLEGE CORNER
Pace Project No.: 92730880

Sample: MW-83 **Lab ID: 92730880007** Collected: 05/14/24 13:13 Received: 05/15/24 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	05/16/24 10:37	05/16/24 15:52	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	96	%	60-140	1	05/16/24 10:37	05/16/24 15:52	301-79-56	
8260 MSV Low Level SC	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		05/18/24 00:16	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		05/18/24 00:16	994-05-8	
Benzene	ND	ug/L	1.0	1		05/18/24 00:16	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		05/18/24 00:16	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		05/18/24 00:16	75-65-0	v2
tert-Butyl Formate	ND	ug/L	50.0	1		05/18/24 00:16	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/18/24 00:16	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	1		05/18/24 00:16	108-20-3	
Ethanol	ND	ug/L	200	1		05/18/24 00:16	64-17-5	
Ethylbenzene	ND	ug/L	1.0	1		05/18/24 00:16	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		05/18/24 00:16	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/18/24 00:16	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/18/24 00:16	91-20-3	
Toluene	ND	ug/L	1.0	1		05/18/24 00:16	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		05/18/24 00:16	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1		05/18/24 00:16	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130	1		05/18/24 00:16	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		05/18/24 00:16	2037-26-5	

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ANALYTICAL RESULTS

Project: COLLEGE CORNER
Pace Project No.: 92730880

Sample: SW-1 **Lab ID: 92730880008** Collected: 05/14/24 14:00 Received: 05/15/24 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	05/16/24 10:37	05/16/24 16:03	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	99	%	60-140	1	05/16/24 10:37	05/16/24 16:03	301-79-56	
8260 MSV Low Level SC	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		05/16/24 00:33	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		05/16/24 00:33	994-05-8	
Benzene	ND	ug/L	1.0	1		05/16/24 00:33	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		05/16/24 00:33	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		05/16/24 00:33	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		05/16/24 00:33	762-75-4	P5
1,2-Dichloroethane	ND	ug/L	1.0	1		05/16/24 00:33	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	1		05/16/24 00:33	108-20-3	
Ethanol	ND	ug/L	200	1		05/16/24 00:33	64-17-5	
Ethylbenzene	ND	ug/L	1.0	1		05/16/24 00:33	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		05/16/24 00:33	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/16/24 00:33	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/16/24 00:33	91-20-3	
Toluene	ND	ug/L	1.0	1		05/16/24 00:33	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		05/16/24 00:33	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	95	%	70-130	1		05/16/24 00:33	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130	1		05/16/24 00:33	17060-07-0	
Toluene-d8 (S)	103	%	70-130	1		05/16/24 00:33	2037-26-5	

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ANALYTICAL RESULTS

Project: COLLEGE CORNER
Pace Project No.: 92730880

Sample: SW-2 **Lab ID: 92730880009** Collected: 05/14/24 14:34 Received: 05/15/24 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	05/16/24 10:37	05/16/24 16:14	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	107	%	60-140	1	05/16/24 10:37	05/16/24 16:14	301-79-56	
8260 MSV Low Level SC	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		05/16/24 00:52	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		05/16/24 00:52	994-05-8	
Benzene	ND	ug/L	1.0	1		05/16/24 00:52	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		05/16/24 00:52	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		05/16/24 00:52	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		05/16/24 00:52	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/16/24 00:52	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	1		05/16/24 00:52	108-20-3	
Ethanol	ND	ug/L	200	1		05/16/24 00:52	64-17-5	
Ethylbenzene	ND	ug/L	1.0	1		05/16/24 00:52	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		05/16/24 00:52	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/16/24 00:52	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/16/24 00:52	91-20-3	
Toluene	**10.3**	ug/L	1.0	1		05/16/24 00:52	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		05/16/24 00:52	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1		05/16/24 00:52	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	70-130	1		05/16/24 00:52	17060-07-0	
Toluene-d8 (S)	105	%	70-130	1		05/16/24 00:52	2037-26-5	

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ANALYTICAL RESULTS

Project: COLLEGE CORNER
Pace Project No.: 92730880

Sample: SW-3 **Lab ID: 92730880010** Collected: 05/14/24 15:15 Received: 05/15/24 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	05/16/24 10:37	05/16/24 16:24	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	98	%	60-140	1	05/16/24 10:37	05/16/24 16:24	301-79-56	
8260 MSV Low Level SC	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		05/16/24 01:10	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		05/16/24 01:10	994-05-8	
Benzene	**2.8**	ug/L	1.0	1		05/16/24 01:10	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		05/16/24 01:10	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		05/16/24 01:10	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		05/16/24 01:10	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/16/24 01:10	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	1		05/16/24 01:10	108-20-3	
Ethanol	ND	ug/L	200	1		05/16/24 01:10	64-17-5	
Ethylbenzene	**2.4**	ug/L	1.0	1		05/16/24 01:10	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		05/16/24 01:10	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/16/24 01:10	1634-04-4	
Naphthalene	**1.5**	ug/L	1.0	1		05/16/24 01:10	91-20-3	
Toluene	**2.8**	ug/L	1.0	1		05/16/24 01:10	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		05/16/24 01:10	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-130	1		05/16/24 01:10	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130	1		05/16/24 01:10	17060-07-0	
Toluene-d8 (S)	103	%	70-130	1		05/16/24 01:10	2037-26-5	

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ANALYTICAL RESULTS

Project: COLLEGE CORNER
Pace Project No.: 92730880

Sample: SW-4 **Lab ID: 92730880011** Collected: 05/14/24 12:28 Received: 05/15/24 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	05/16/24 10:37	05/16/24 16:35	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	96	%	60-140	1	05/16/24 10:37	05/16/24 16:35	301-79-56	
8260 MSV Low Level SC	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	**157**	ug/L	100	1		05/16/24 01:29	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		05/16/24 01:29	994-05-8	
Benzene	**90.9**	ug/L	1.0	1		05/16/24 01:29	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		05/16/24 01:29	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		05/16/24 01:29	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		05/16/24 01:29	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/16/24 01:29	107-06-2	
Diisopropyl ether	**3.6**	ug/L	1.0	1		05/16/24 01:29	108-20-3	
Ethanol	ND	ug/L	200	1		05/16/24 01:29	64-17-5	
Ethylbenzene	**105**	ug/L	1.0	1		05/16/24 01:29	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		05/16/24 01:29	637-92-3	
Methyl-tert-butyl ether	**2.4**	ug/L	1.0	1		05/16/24 01:29	1634-04-4	
Naphthalene	**39.2**	ug/L	1.0	1		05/16/24 01:29	91-20-3	
Toluene	**2.8**	ug/L	1.0	1		05/16/24 01:29	108-88-3	
Xylene (Total)	**117**	ug/L	1.0	1		05/16/24 01:29	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	99	%	70-130	1		05/16/24 01:29	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		05/16/24 01:29	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		05/16/24 01:29	2037-26-5	

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ANALYTICAL RESULTS

Project: COLLEGE CORNER
Pace Project No.: 92730880

Sample: SW-5 **Lab ID: 92730880012** Collected: 05/14/24 12:33 Received: 05/15/24 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	05/16/24 10:37	05/16/24 16:46	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	93	%	60-140	1	05/16/24 10:37	05/16/24 16:46	301-79-56	
8260 MSV Low Level SC	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		05/18/24 01:45	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		05/18/24 01:45	994-05-8	
Benzene	ND	ug/L	1.0	1		05/18/24 01:45	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		05/18/24 01:45	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		05/18/24 01:45	75-65-0	v3
tert-Butyl Formate	ND	ug/L	50.0	1		05/18/24 01:45	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/18/24 01:45	107-06-2	
Diisopropyl ether	**1.1**	ug/L	1.0	1		05/18/24 01:45	108-20-3	
Ethanol	ND	ug/L	200	1		05/18/24 01:45	64-17-5	
Ethylbenzene	ND	ug/L	1.0	1		05/18/24 01:45	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		05/18/24 01:45	637-92-3	
Methyl-tert-butyl ether	**1.8**	ug/L	1.0	1		05/18/24 01:45	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/18/24 01:45	91-20-3	
Toluene	ND	ug/L	1.0	1		05/18/24 01:45	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		05/18/24 01:45	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	92	%	70-130	1		05/18/24 01:45	460-00-4	
1,2-Dichloroethane-d4 (S)	114	%	70-130	1		05/18/24 01:45	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		05/18/24 01:45	2037-26-5	

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ANALYTICAL RESULTS

Project: COLLEGE CORNER
Pace Project No.: 92730880

Sample: MW-DUP **Lab ID: 92730880013** Collected: 05/14/24 12:23 Received: 05/15/24 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	05/16/24 10:37	05/16/24 16:57	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	91	%	60-140	1	05/16/24 10:37	05/16/24 16:57	301-79-56	
8260 MSV Low Level SC	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	1000	10		05/18/24 04:59	75-85-4	
tert-Amylmethyl ether	ND	ug/L	100	10		05/18/24 04:59	994-05-8	
Benzene	**829**	ug/L	10.0	10		05/18/24 04:59	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	1000	10		05/18/24 04:59	624-95-3	
tert-Butyl Alcohol	ND	ug/L	1000	10		05/18/24 04:59	75-65-0	v3
tert-Butyl Formate	ND	ug/L	500	10		05/18/24 04:59	762-75-4	
1,2-Dichloroethane	ND	ug/L	10.0	10		05/18/24 04:59	107-06-2	
Diisopropyl ether	**20.7**	ug/L	10.0	10		05/18/24 04:59	108-20-3	
Ethanol	ND	ug/L	2000	10		05/18/24 04:59	64-17-5	
Ethylbenzene	**731**	ug/L	10.0	10		05/18/24 04:59	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	100	10		05/18/24 04:59	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	10.0	10		05/18/24 04:59	1634-04-4	
Naphthalene	**201**	ug/L	10.0	10		05/18/24 04:59	91-20-3	
Toluene	**35.1**	ug/L	10.0	10		05/18/24 04:59	108-88-3	
Xylene (Total)	**1780**	ug/L	10.0	10		05/18/24 04:59	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-130	10		05/18/24 04:59	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130	10		05/18/24 04:59	17060-07-0	
Toluene-d8 (S)	100	%	70-130	10		05/18/24 04:59	2037-26-5	

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ANALYTICAL RESULTS

Project: COLLEGE CORNER
Pace Project No.: 92730880

Sample: MW-FIELD BLANK **Lab ID: 92730880014** Collected: 05/14/24 16:30 Received: 05/15/24 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	05/16/24 10:37	05/16/24 17:08	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	87	%	60-140	1	05/16/24 10:37	05/16/24 17:08	301-79-56	
8260 MSV Low Level SC	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		05/15/24 23:56	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		05/15/24 23:56	994-05-8	
Benzene	ND	ug/L	1.0	1		05/15/24 23:56	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		05/15/24 23:56	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		05/15/24 23:56	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		05/15/24 23:56	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/15/24 23:56	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	1		05/15/24 23:56	108-20-3	
Ethanol	ND	ug/L	200	1		05/15/24 23:56	64-17-5	
Ethylbenzene	ND	ug/L	1.0	1		05/15/24 23:56	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		05/15/24 23:56	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/15/24 23:56	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/15/24 23:56	91-20-3	
Toluene	ND	ug/L	1.0	1		05/15/24 23:56	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		05/15/24 23:56	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	94	%	70-130	1		05/15/24 23:56	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130	1		05/15/24 23:56	17060-07-0	
Toluene-d8 (S)	103	%	70-130	1		05/15/24 23:56	2037-26-5	

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ANALYTICAL RESULTS

Project: COLLEGE CORNER
Pace Project No.: 92730880

Sample: TRIP BLANK **Lab ID: 92730880015** Collected: 05/14/24 00:00 Received: 05/15/24 08:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		05/16/24 00:15	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		05/16/24 00:15	994-05-8	
Benzene	ND	ug/L	1.0	1		05/16/24 00:15	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		05/16/24 00:15	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		05/16/24 00:15	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		05/16/24 00:15	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/16/24 00:15	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	1		05/16/24 00:15	108-20-3	
Ethanol	ND	ug/L	200	1		05/16/24 00:15	64-17-5	
Ethylbenzene	ND	ug/L	1.0	1		05/16/24 00:15	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		05/16/24 00:15	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/16/24 00:15	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/16/24 00:15	91-20-3	
Toluene	ND	ug/L	1.0	1		05/16/24 00:15	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		05/16/24 00:15	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1		05/16/24 00:15	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130	1		05/16/24 00:15	17060-07-0	
Toluene-d8 (S)	103	%	70-130	1		05/16/24 00:15	2037-26-5	

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QUALITY CONTROL DATA

Project: COLLEGE CORNER
Pace Project No.: 92730880

QC Batch: 854825
QC Batch Method: EPA 8260D
Analysis Method: EPA 8260D
Analysis Description: 8260 MSV Low Level SC
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92730880001, 92730880002, 92730880008, 92730880009, 92730880010, 92730880011, 92730880014, 92730880015

METHOD BLANK: 4410663 Matrix: Water
Associated Lab Samples: 92730880001, 92730880002, 92730880008, 92730880009, 92730880010, 92730880011, 92730880014, 92730880015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	1.0	05/15/24 19:35	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	05/15/24 19:35	
Benzene	ug/L	ND	1.0	05/15/24 19:35	
Diisopropyl ether	ug/L	ND	1.0	05/15/24 19:35	
Ethanol	ug/L	ND	200	05/15/24 19:35	
Ethyl-tert-butyl ether	ug/L	ND	10.0	05/15/24 19:35	
Ethylbenzene	ug/L	ND	1.0	05/15/24 19:35	
Methyl-tert-butyl ether	ug/L	ND	1.0	05/15/24 19:35	
Naphthalene	ug/L	ND	1.0	05/15/24 19:35	
tert-Amyl Alcohol	ug/L	ND	100	05/15/24 19:35	
tert-Amylmethyl ether	ug/L	ND	10.0	05/15/24 19:35	
tert-Butyl Alcohol	ug/L	ND	100	05/15/24 19:35	
tert-Butyl Formate	ug/L	ND	50.0	05/15/24 19:35	
Toluene	ug/L	ND	1.0	05/15/24 19:35	
Xylene (Total)	ug/L	ND	1.0	05/15/24 19:35	
1,2-Dichloroethane-d4 (S)	%	93	70-130	05/15/24 19:35	
4-Bromofluorobenzene (S)	%	95	70-130	05/15/24 19:35	
Toluene-d8 (S)	%	105	70-130	05/15/24 19:35	

LABORATORY CONTROL SAMPLE: 4410664

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	19.0	95	70-130	
3,3-Dimethyl-1-Butanol	ug/L	400	395	99	70-130	
Benzene	ug/L	20	20.4	102	70-130	
Diisopropyl ether	ug/L	20	18.8	94	70-130	
Ethanol	ug/L	800	800	100	70-130	
Ethyl-tert-butyl ether	ug/L	40	37.9	95	70-130	
Ethylbenzene	ug/L	20	20.2	101	70-130	
Methyl-tert-butyl ether	ug/L	20	18.8	94	70-130	
Naphthalene	ug/L	20	21.3	107	70-130	
tert-Amyl Alcohol	ug/L	400	384	96	70-130	
tert-Amylmethyl ether	ug/L	40	38.2	95	70-130	
tert-Butyl Alcohol	ug/L	200	182	91	70-130	
tert-Butyl Formate	ug/L	160	153	96	70-130	
Toluene	ug/L	20	20.4	102	70-130	
Xylene (Total)	ug/L	60	62.7	105	70-130	

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

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QUALITY CONTROL DATA

Project: COLLEGE CORNER
Pace Project No.: 92730880

LABORATORY CONTROL SAMPLE: 4410664

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE SAMPLE: 4410665

Parameter	Units	92730880008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	21.5	107	70-137	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	418	104	39-157	
Benzene	ug/L	ND	20	23.4	117	70-151	
Diisopropyl ether	ug/L	ND	20	20.0	100	63-144	
Ethanol	ug/L	ND	800	883	110	39-176	
Ethyl-tert-butyl ether	ug/L	ND	40	40.6	102	66-137	
Ethylbenzene	ug/L	ND	20	23.4	117	66-153	
Methyl-tert-butyl ether	ug/L	ND	20	20.6	103	54-156	
Naphthalene	ug/L	ND	20	23.0	115	61-148	
tert-Amyl Alcohol	ug/L	ND	400	429	107	54-153	
tert-Amylmethyl ether	ug/L	ND	40	41.4	103	69-139	
tert-Butyl Alcohol	ug/L	ND	200	290	145	43-188	
tert-Butyl Formate	ug/L	ND	160	ND	0	10-170	P5
Toluene	ug/L	ND	20	23.8	117	59-148	
Xylene (Total)	ug/L	ND	60	71.2	119	63-158	
1,2-Dichloroethane-d4 (S)	%				92	70-130	
4-Bromofluorobenzene (S)	%				101	70-130	
Toluene-d8 (S)	%				100	70-130	

SAMPLE DUPLICATE: 4410666

Parameter	Units	92730880009 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	.44J		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	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	10.3	9.6	7	30	
Xylene (Total)	ug/L	ND	ND		30	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: COLLEGE CORNER
Pace Project No.: 92730880

SAMPLE DUPLICATE: 4410666

Parameter	Units	92730880009 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane-d4 (S)	%	91	91			
4-Bromofluorobenzene (S)	%	98	97			
Toluene-d8 (S)	%	105	106			

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QUALITY CONTROL DATA

Project: COLLEGE CORNER
Pace Project No.: 92730880

QC Batch: 855408 Analysis Method: EPA 8260D
QC Batch Method: EPA 8260D Analysis Description: 8260 MSV Low Level SC
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92730880003, 92730880004, 92730880005, 92730880006, 92730880007, 92730880012, 92730880013

METHOD BLANK: 4413549 Matrix: Water
Associated Lab Samples: 92730880003, 92730880004, 92730880005, 92730880006, 92730880007, 92730880012, 92730880013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	1.0	05/17/24 22:48	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	05/17/24 22:48	
Benzene	ug/L	ND	1.0	05/17/24 22:48	
Diisopropyl ether	ug/L	ND	1.0	05/17/24 22:48	
Ethanol	ug/L	ND	200	05/17/24 22:48	
Ethyl-tert-butyl ether	ug/L	ND	10.0	05/17/24 22:48	
Ethylbenzene	ug/L	ND	1.0	05/17/24 22:48	
Methyl-tert-butyl ether	ug/L	ND	1.0	05/17/24 22:48	
Naphthalene	ug/L	ND	1.0	05/17/24 22:48	
tert-Amyl Alcohol	ug/L	ND	100	05/17/24 22:48	
tert-Amylmethyl ether	ug/L	ND	10.0	05/17/24 22:48	
tert-Butyl Alcohol	ug/L	ND	100	05/17/24 22:48	v2
tert-Butyl Formate	ug/L	ND	50.0	05/17/24 22:48	
Toluene	ug/L	ND	1.0	05/17/24 22:48	
Xylene (Total)	ug/L	ND	1.0	05/17/24 22:48	
1,2-Dichloroethane-d4 (S)	%	106	70-130	05/17/24 22:48	
4-Bromofluorobenzene (S)	%	96	70-130	05/17/24 22:48	
Toluene-d8 (S)	%	100	70-130	05/17/24 22:48	

LABORATORY CONTROL SAMPLE: 4413550

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	20.6	103	70-130	
3,3-Dimethyl-1-Butanol	ug/L	400	358	90	70-130	
Benzene	ug/L	20	19.8	99	70-130	
Diisopropyl ether	ug/L	20	19.9	99	70-130	
Ethanol	ug/L	800	791	99	70-130	
Ethyl-tert-butyl ether	ug/L	40	38.9	97	70-130	
Ethylbenzene	ug/L	20	19.9	100	70-130	
Methyl-tert-butyl ether	ug/L	20	19.8	99	70-130	
Naphthalene	ug/L	20	19.6	98	70-130	
tert-Amyl Alcohol	ug/L	400	396	99	70-130	
tert-Amylmethyl ether	ug/L	40	38.4	96	70-130	
tert-Butyl Alcohol	ug/L	200	157	79	70-130	v3
tert-Butyl Formate	ug/L	160	187	117	70-130	
Toluene	ug/L	20	19.9	99	70-130	
Xylene (Total)	ug/L	60	60.8	101	70-130	
1,2-Dichloroethane-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			96	70-130	

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QUALITY CONTROL DATA

Project: COLLEGE CORNER
Pace Project No.: 92730880

LABORATORY CONTROL SAMPLE: 4413550

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE SAMPLE: 4413579

Parameter	Units	92730987004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	22.9	115	70-137	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	370	92	39-157	
Benzene	ug/L	ND	20	23.4	117	70-151	
Diisopropyl ether	ug/L	ND	20	22.8	114	63-144	
Ethanol	ug/L	ND	800	835	104	39-176	
Ethyl-tert-butyl ether	ug/L	ND	40	44.2	111	66-137	
Ethylbenzene	ug/L	ND	20	21.6	108	66-153	
Methyl-tert-butyl ether	ug/L	ND	20	22.8	114	54-156	
Naphthalene	ug/L	ND	20	18.3	91	61-148	
tert-Amyl Alcohol	ug/L	ND	400	422	106	54-153	
tert-Amylmethyl ether	ug/L	ND	40	42.1	105	69-139	
tert-Butyl Alcohol	ug/L	ND	200	200	100	43-188	v3
tert-Butyl Formate	ug/L	ND	160	35.9J	22	10-170	v1
Toluene	ug/L	ND	20	22.1	111	59-148	
Xylene (Total)	ug/L	ND	60	66.0	110	63-158	
1,2-Dichloroethane-d4 (S)	%				106	70-130	
4-Bromofluorobenzene (S)	%				99	70-130	
Toluene-d8 (S)	%				101	70-130	

SAMPLE DUPLICATE: 4413580

Parameter	Units	92730530020 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	11500	8500	30	30	
Diisopropyl ether	ug/L	199	152	27	30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	4890	3210	42	30	D6
Methyl-tert-butyl ether	ug/L	395	315	22	30	
Naphthalene	ug/L	2640	1520	54	30	D6
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	
tert-Butyl Alcohol	ug/L	9210J	9230J		30	v3
tert-Butyl Formate	ug/L	ND	ND		30	v1
Toluene	ug/L	18800	13400	33	30	D6
Xylene (Total)	ug/L	33900	22000	42	30	
1,2-Dichloroethane-d4 (S)	%	104	106			
4-Bromofluorobenzene (S)	%	97	98			HS

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QUALITY CONTROL DATA

Project: COLLEGE CORNER
Pace Project No.: 92730880

SAMPLE DUPLICATE: 4413580

Parameter	Units	92730530020 Result	Dup Result	RPD	Max RPD	Qualifiers
Toluene-d8 (S)	%	100	100			

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QUALITY CONTROL DATA

Project: COLLEGE CORNER
Pace Project No.: 92730880

QC Batch: 854979
QC Batch Method: EPA 8011
Analysis Method: EPA 8011
Analysis Description: GCS 8011 EDB DBCP
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92730880001, 92730880002, 92730880003, 92730880004, 92730880005, 92730880006, 92730880007, 92730880008, 92730880009, 92730880010, 92730880011, 92730880012, 92730880013, 92730880014

METHOD BLANK: 4411427 Matrix: Water
Associated Lab Samples: 92730880001, 92730880002, 92730880003, 92730880004, 92730880005, 92730880006, 92730880007, 92730880008, 92730880009, 92730880010, 92730880011, 92730880012, 92730880013, 92730880014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	05/16/24 13:43	
1-Chloro-2-bromopropane (S)	%	109	60-140	05/16/24 13:43	

LABORATORY CONTROL SAMPLE & LCSD: 4411428 4411429

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	109	104	60-140	5	20	
1-Chloro-2-bromopropane (S)	%				116	114	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4411431 4411432

Parameter	Units	92730880002 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	0.24	0.25	99	103	60-140	4	20	
1-Chloro-2-bromopropane (S)	%						100	110	60-140			

SAMPLE DUPLICATE: 4411430

Parameter	Units	92730880001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	115	112			

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QUALIFIERS

Project: COLLEGE CORNER
Pace Project No.: 92730880

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

D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
HS	Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).
P5	The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.
T3	Insufficient sample received from client to perform the analysis per EPA method requirements.
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.: 92730880

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92730880001	MW-77	EPA 8011	854979	EPA 8011	855051
92730880002	MW-78	EPA 8011	854979	EPA 8011	855051
92730880003	MW-79	EPA 8011	854979	EPA 8011	855051
92730880004	MW-80	EPA 8011	854979	EPA 8011	855051
92730880005	MW-81	EPA 8011	854979	EPA 8011	855051
92730880006	MW-82	EPA 8011	854979	EPA 8011	855051
92730880007	MW-83	EPA 8011	854979	EPA 8011	855051
92730880008	SW-1	EPA 8011	854979	EPA 8011	855051
92730880009	SW-2	EPA 8011	854979	EPA 8011	855051
92730880010	SW-3	EPA 8011	854979	EPA 8011	855051
92730880011	SW-4	EPA 8011	854979	EPA 8011	855051
92730880012	SW-5	EPA 8011	854979	EPA 8011	855051
92730880013	MW-DUP	EPA 8011	854979	EPA 8011	855051
92730880014	MW-FIELD BLANK	EPA 8011	854979	EPA 8011	855051
92730880001	MW-77	EPA 8260D	854825		
92730880002	MW-78	EPA 8260D	854825		
92730880003	MW-79	EPA 8260D	855408		
92730880004	MW-80	EPA 8260D	855408		
92730880005	MW-81	EPA 8260D	855408		
92730880006	MW-82	EPA 8260D	855408		
92730880007	MW-83	EPA 8260D	855408		
92730880008	SW-1	EPA 8260D	854825		
92730880009	SW-2	EPA 8260D	854825		
92730880010	SW-3	EPA 8260D	854825		
92730880011	SW-4	EPA 8260D	854825		
92730880012	SW-5	EPA 8260D	855408		
92730880013	MW-DUP	EPA 8260D	855408		
92730880014	MW-FIELD BLANK	EPA 8260D	854825		
92730880015	TRIP BLANK	EPA 8260D	854825		

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Pace	DC#_Title: ENV-FRM-HUN1-0083 v04_Sample Condition Upon Receipt
	Effective Date: 4/26/2024 10:14:05 AM

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Sample Condition Upon Receipt

Client Name: ARM

Project #: WO# : 92730880

92730880

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

Custody Seal Present? ☐ Yes ☐ No Seals Intact? ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents: TJS 5/15/24

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

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

Thermometer: ☑ IR Gun ID: 97T078

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 3.9 Correction Factor: Add/Subtract (°C) 0

Cooler Temp Corrected (°C): 3.9

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☑ No

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

WO#: 92730880
PM: LO Due Date: 05/21/24
CLIENT: 92-ARM

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☑ Raleigh ☐ [illegible] ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile Number_____ Notes_____

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 2N 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)
CC																														
1	\				\	\	\	\	\			\		\	\	\	3									\	\			
2	\				\	\	\	\	\			\		\	\	\	3									\	\			
3	\				\	\	\	\	\			\		\	\	\	3									\	\			
4	\				\	\	\	\	\			\		\	\	\	3									\	\			
5	\				\	\	\	\	\			\		\	\	\	3									\	\			
6	\				\	\	\	\	\			\		\	\	\	3									\	\			
7	\				\	\	\	\	\			\		\	\	\	3									\	\			
8	\				\	\	\	\	\			\		\	\	\	3									\	\			
9	\				\	\	\	\	\			\		\	\	\	3									\	\			
10	\				\	\	\	\	\			\		\	\	\	3									\	\			
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.

Pace

DC#_Title: ENV-FRM-HUN1-0083 v04_Sample Condition Upon Receipt

Effective Date: 4/26/2024 10:14:05 AM

*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 #

Laboratory Receiving Location: Asheville ☐ Eden☐ Greenwood ☐ Huntersville ☑ Raleigh☐ Mechanicsville☐ Atlanta☐ Kernersville☐

Client_____ Profile Number_____ Notes_____

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)
CC																													
1																	3												
2																	3												
3																	3												
4																	3												
5																	2												
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

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

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

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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														# of Containers
33-3010.1-23	1. Unpreserved 2. NaOH 3. H_2SO_4 4. HNO_3 5. HCl 6. $Na_2S_2O_3$ 7. 5035 Kit				3 →										Preservative
Project Name: College Corner	Laboratory Utilized: Pace Analytical Services LLC				5	5									
Sampler Name (print): Kevin Evans	Sampler Signature: [signature]														92730880
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	PAHs by 8270E	Total Lead by 6010D	Dissolved Lead by 6010D	BTEX+N+M+DCA by 524.2	Oxygenates by 8260D	EDB by 504.1	8 RCRA Metals	VOCs by 8260D	Remarks
mw-77	5-14-24	1145	G	GW	X	X									RUSH TAT 001
mw-78	5-14-24	1222													002
mw-79	5-14-24	1617													003
mw-80	5-14-24	1548													004
mw-81	5-14-24	1509													005
mw-82	5-14-24	1428													006
mw-83	5-14-24	1313													007
sw-1	5-14-24	1400													008
sw-2	5-14-24	1434													009
sw-3	5-14-24	1515													010

Relinquished by / Sampler	Date	Time	Received by	Date	Time	Project Manager
[signature]	5-14-24	1722	[signature]	5-14-24	1722	Michael Faris
Relinquished by: [signature]	5-14-24	1722	Received by: TJS / Pace	5/15/24	0800	P.O. Number
Relinquished by	Date	Time	Received by	Date	Time	

ARM ENVIRONMENTAL SERVICES

CHAIN OF CUSTODY RECORD

PAGE 2 OF 2

1210 1st STREET SOUTH EXTENSION COLUMBIA, SOUTH CAROLINA 29209 PHONE: 803-783-3314 FAX: 803-783-2587

Project #	Preservative														# of Containers
33-3010.1-23	1. Unpreserved 2. NaOH 3. H_2SO_4 4. HNO_3 5. HCl 6. $Na_2S_2O_3$ 7. 5035 Kit				3 → 5	5									Preservative
Project Name: College Corner	Laboratory Utilized: Pace Analytical Services LLC														
Sampler Name (print): Kwin Evans	Sampler Signature: [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	PAHs by 8270E	Total Lead by 6010D	Dissolved Lead by 6010D	BTEX+N+M+DCA by 524.2	Oxygenates by 8260D	EDB by 504.1	8 RCRA Metals	VOCs by 8260D	Remarks	
															92730880	
SW-4	5-14-24	1228	G	GW	X	X									RUSH TAT	011
SW-5	5-14-24	1233	X	X	X	X										012
MW-Dup	5-14-24	1223	X	X	X	X										013
MW - Field Blank	5-14-24	1630	G	DI	X	X										014
Trip Blank	5-14-24			DI	X											015

Relinquished by / Sampler	Date	Time	Received by	Date	Time	Project Manager
[signature]	5-14-24	1722	[signature]	5-14-24	1722	Michael Faris
Relinquished by [signature]	Date 5-14-24	Time 1722	Received by TJH Pace	Date 5/15/24	Time 0[illegible]	P.O. Number
Relinquished by	Date	Time	Received by	Date	Time	

APPENDIX C
NOT INCLUDED

APPENDIX D
NOT INCLUDED

APPENDIX E
NOT INCLUDED

APPENDIX F
AQUIFER EVALUATION

D H E C
PROMOTE PROTECT PROSPER

Summary of Slug Test
Underground Storage Tank Management Division

Site Data

UST Permit #: 07584, 12352, 07777 County: Columbia

Facility Name: College Corner / Cloud's Chevron Date Performed: 05/17/24

Slug Data

See Appendix F Table _____ Figure _____ for a list of all data measurements. [water level logs, etc. (complete as appropriate)].

Water Level Recovery Data was measured by Level TROLL 700 Data Logger
[Hermit Data Logger, Manually with Water Level Indicator, etc. (list method)].

Complete the following table for each well tested.

COMPLETE A SECOND SHEET IF MORE THAN FOUR WELLS ARE TESTED

Slug Test Conducted in Well(s) Number	MW-77, Slug Out 1	MW-77, Slug Out 2	MW-77, Slug Out 3	
Time Performed (military)	10:55	11:15	11:30	
Static Water Level (feet)	8.34	8.34	8.34	
Initial Rise/Drawdown in Well (+/- feet)	3.00	2.66	0.69	
Radius of Well Casing (feet)	0.083	0.083	0.083	
Effective Radius of Well (feet)	0.208	0.208	0.208	
Static Saturated Aquifer Thickness (feet)	51.66	51.66	51.66	
Length of Well Screen (feet)	10.0	10.0	10.0	

Calculations

See Appendix F Table _____ Figure _____ for calculations (complete as appropriate).

The method for Aquifer calculations was Bouwer-Rice (i.e. Bouwer-Rice, Cooper, etc.).

The Aquifer is ☐ confined ☐ semi-confined ☑ water table (check as appropriate).

A hydraulic gradient of 4.67 E-1 ft/ft

Calculated values by well were as follows:

Slug Test Conducted in Well(s) Number	MW-77, Slug Out 1	MW-77, Slug Out 2	MW-77, Slug Out 3	
Thickness of Aquifer (feet)	60	60	60	
Hydraulic Conductivity (feet/ year)	355.65	556.35	563.92	
Effective Porosity (%)	0.28	0.28	0.28	
Soil Type (i.e., silty sand, clay, etc.)	sandy silt	sandy silt	sandy silt	
Seepage Velocity (feet/ year)	592.71	927.19	939.81	Average: 819.90

D H E C
PROMOTE PROTECT PROSPER

Summary of Slug Test
Underground Storage Tank Management Division

Site Data

UST Permit #: 07584, 12352, 07777 County: Columbia

Facility Name: College Corner / Cloud's Chevron Date Performed: 05/17/24

Slug Data

See Appendix F Table _____ Figure _____ for a list of all data measurements. [water level logs, etc. (complete as appropriate)].

Water Level Recovery Data was measured by Level TROLL 700 Data Logger
[Hermit Data Logger, Manually with Water Level Indicator, etc. (list method)].

Complete the following table for each well tested.

COMPLETE A SECOND SHEET IF MORE THAN FOUR WELLS ARE TESTED

Slug Test Conducted in Well(s) Number	MW-80, Slug Out 1	MW-80, Slug Out 2	MW-80, Slug Out 3	
Time Performed (military)	09:43	10:00	10:15	
Static Water Level (feet)	7.16	7.16	7.16	
Initial Rise/Drawdown in Well (+/- feet)	1.27	1.40	1.45	
Radius of Well Casing (feet)	0.083	0.083	0.083	
Effective Radius of Well (feet)	0.208	0.208	0.208	
Static Saturated Aquifer Thickness (feet)	52.84	52.84	52.84	
Length of Well Screen (feet)	10.0	10.0	10.0	

Calculations

See Appendix F Table _____ Figure _____ for calculations (complete as appropriate).

The method for Aquifer calculations was Bouwer-Rice (i.e. Bouwer-Rice, Cooper, etc.).

The Aquifer is ☐ confined ☐ semi-confined ☑ water table (check as appropriate).

A hydraulic gradient of 4.67 E-1 ft/ft

Calculated values by well were as follows:

Slug Test Conducted in Well(s) Number	MW-80, Slug Out 1	MW-80, Slug Out 2	MW-80, Slug Out 3	
Thickness of Aquifer (feet)	60	60	60	
Hydraulic Conductivity (feet/ year)	445.90	372.37	390.04	
Effective Porosity (%)	0.28	0.28	0.28	
Soil Type (i.e., silty sand, clay, etc.)	sandy silt	sandy silt	sandy silt	
Seepage Velocity (feet/ year)	743.12	620.58	650.03	Average: 671.25

Slug Test Data for AQTESOLV

College Corner/Cloud's Chevron (UST Permits #07584, #12352, and #07777)

Performed in Monitoring Well MW-77, Slug Out 1

May 17, 2024

Static Depth to Water = 18.34 (feet)

Total Depth = 24.0 (feet)

Elapsed Time (sec)	Depth to Water (Feet)	Displacement (Feet)	Elapsed Time (sec)	Depth to Water (Feet)	Displacement (Feet)
0	18.44	0.10	90	18.60	0.26
2	18.44	0.09	95	18.59	0.25
4	21.34	3.00	100	18.58	0.24
6	19.36	1.02	105	18.58	0.24
8	18.91	0.57	110	18.57	0.23
10	18.85	0.51	115	18.57	0.23
12	18.83	0.49	120	18.56	0.22
14	18.81	0.47	125	18.56	0.22
16	18.80	0.46	130	18.55	0.21
18	18.78	0.44	135	18.55	0.21
20	18.77	0.43	140	18.54	0.20
22	18.75	0.41	145	18.54	0.20
24	18.74	0.40	150	18.54	0.20
26	18.73	0.39	155	18.54	0.20
28	18.73	0.39	160	18.53	0.18
30	18.72	0.38	165	18.52	0.18
32	18.71	0.37	170	18.52	0.18
34	18.71	0.37	175	18.52	0.18
36	18.70	0.36	180	18.52	0.18
38	18.70	0.36	210	18.50	0.16
40	18.70	0.36	240	18.49	0.15
42	18.69	0.35	270	18.48	0.14
44	18.68	0.34	300	18.47	0.13
46	18.68	0.34	330	18.47	0.13
48	18.67	0.33	360	18.46	0.12
50	18.67	0.33	390	18.47	0.13
52	18.67	0.33	420	18.47	0.13
54	18.66	0.32	450	18.46	0.12
56	18.66	0.32	480	18.46	0.12
58	18.66	0.32			
60	18.65	0.31			
65	18.64	0.30			
70	18.62	0.28			
75	18.63	0.29			
80	18.61	0.27			
85	18.60	0.26			

Slug Test Data for AQTESOLV

College Corner/Cloud's Chevron (UST Permits #07584, #12352, and #07777)

Performed in Monitoring Well MW-77, Slug Out 2

May 17, 2024

Static Depth to Water = 18.34 (feet)

Total Depth = 24.0 (feet)

Elapsed Time (sec)	Depth to Water (Feet)	Displacement (Feet)	Elapsed Time (sec)	Depth to Water (Feet)	Displacement (Feet)
0	18.37	0.03	90	18.53	0.19
2	18.37	0.03	95	18.52	0.18
4	21.00	2.66	100	18.52	0.18
6	19.20	0.86	105	18.51	0.17
8	18.81	0.47	110	18.50	0.16
10	18.76	0.42	115	18.50	0.16
12	18.74	0.40	120	18.49	0.15
14	18.73	0.39	125	18.49	0.15
16	18.72	0.38	130	18.48	0.14
18	18.71	0.37	135	18.47	0.13
20	18.70	0.36	140	18.47	0.13
22	18.69	0.35	145	18.47	0.13
24	18.68	0.34	150	18.47	0.13
26	18.67	0.33	155	18.46	0.12
28	18.67	0.32	160	18.46	0.12
30	18.67	0.33	165	18.45	0.11
32	18.65	0.31	170	18.44	0.10
34	18.65	0.31	175	18.45	0.11
36	18.64	0.30	180	18.45	0.11
38	18.64	0.30	210	18.43	0.09
40	18.64	0.30	240	18.41	0.07
42	18.63	0.29	270	18.40	0.06
44	18.63	0.29	300	18.40	0.06
46	18.62	0.28	330	18.40	0.06
48	18.62	0.28	360	18.39	0.05
50	18.61	0.27	390	18.39	0.05
52	18.60	0.26	420	18.38	0.04
54	18.60	0.26	450	18.38	0.04
56	18.60	0.25	480	18.38	0.04
58	18.59	0.25			
60	18.58	0.24			
65	18.58	0.24			
70	18.56	0.22			
75	18.56	0.22			
80	18.54	0.20			
85	18.54	0.20			