2021 ANNUAL GROUNDWATER REPORT

1. Continue with "Planned Future Activities" stated in report.
2. Submit next annual report by March 31, 2023.

Lateral L-40 Line Drip
Incident Number: nAUTOfAB000335
Meter Code: LD174
T28N, R4W, Sec13, Unit H

SITE DETAILS

Site Location: Latitude: 36.659672 N, Longitude: -107.194520 W
Land Type: Federal
Operator: Enterprise (Pipeline)

SITE BACKGROUND

Environmental Remediation activities at Lateral L-40 Line Drip (Site) are managed pursuant to the procedures set forth in the document entitled, "*Remediation Plan for Groundwater Encountered During Pit Closure Activities*" (Remediation Plan, El Paso Natural Gas Company / El Paso Field Services Company, 1995). This Remediation Plan was conditionally approved by the New Mexico Oil Conservation Division (NMOCD) in correspondence dated November 30, 1995; and the NMOCD approval conditions were adopted into El Paso CGP Company (EPCPG) program methods. The Site is crossed by a pipeline operated by Enterprise.

The Site is located on Federal land. An initial site assessment was completed in January 1995, and an excavation to approximately 12 feet below ground surface (bgs) was completed in January of 1995, removing approximately 60 cubic yards (cy) of soil. A monitoring well was installed in 1995 (MW-1), two soil borings were advanced in 1999, and one additional soil boring (SB-1) was advanced in 2016. Additional monitoring wells were installed in 2016 (MW-2, MW-3, MW-4, MW-5) and 2018 (MW-6, MW-7, MW-8, MW-9, MW-10). Soil vapor extraction (SVE) test wells were installed in 2018 (SVE-1, SVE-2, SVE-3). The location of the Site is depicted on Figure 1. SVE feasibility testing was conducted in October 2018. Five soil borings (SB-2 through SB-6) were installed in July 2019 to better characterize hydrocarbon impacts in soil. Currently, groundwater sampling is conducted on a semi-annual basis. The location of the Site is depicted on Figure 1. A Site Plan map depicting the locations of monitoring wells and current and historical site features is provided as Figure 2.

GROUNDWATER SAMPLING ACTIVITIES

Pursuant to the Remediation Plan, Stantec Consulting Services Inc. (Stantec) provided field work notifications via email to the NMOCD on May 3, 2021 and November 12, 2021, prior to initiating groundwater sampling activities at the Site. Copies of the 2021 NMOCD notifications are provided in Appendix A.

On May 23, 2021 and November 13, 2021, water levels were gauged at MW-1 through MW-10 and SVE-1 through SVE-3. Groundwater samples were collected from monitoring wells MW-1 through MW-4, MW-6, MW-9, and MW-10 during both sampling events in 2021. Groundwater samples were not collected from MW-5 in 2021 due to the presence of light non-aqueous phase liquid (LNAPL) during both sampling events. Groundwater samples were collected using HydraSleeve™ (HydraSleeve) no-purge groundwater sampling devices. The HydraSleeves were set during the previous sampling event, using a suspension tether and stainless-steel weights. The HydraSleeves were positioned to collect a sample from the screened interval by setting the bottom of the sleeve approximately 0.5 foot above the bottom of the monitoring well screen.

Groundwater samples were placed into laboratory-supplied sample containers, packed on ice, and shipped under standard chain-of-custody protocols to Eurofins-TestAmerica Laboratories, Inc. (Eurofins) in Pensacola, Florida, for analysis of BTEX. One laboratory-supplied trip blank and one blind field

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duplicate were collected during each groundwater sampling event. The groundwater samples, field duplicates, and trip blanks were analyzed for BTEX using EPA Method 8260.

Excess sample water was placed in a waste container and taken to Basin Disposal, Inc. (Basin) for disposal. Wastewater disposal documentation is included as Appendix B.

LNAPL RECOVERY

As documented in EPCGP's letter dated January 5, 2021, EPCGP initiated quarterly LNAPL recovery activities in the second calendar quarter of 2020 and continued quarterly for 2021. Documentation of NMOCD notification of site activities is provided in Appendix A.

The LNAPL recovery data is summarized on Table 1. LNAPL was recovered by hand-bailing. During the groundwater sampling events in May and November 2021, the recovered LNAPL was disposed along with wastewater generated during the monitoring well sampling activities. Recovered LNAPL from the March and August 2021 site visits was also transported for disposal at Basin (Appendix B).

SUMMARY TABLES

Historic groundwater analytical results and well gauging data are summarized in Tables 2 and 3, respectively. LNAPL recovery data is summarized on Table 1.

SITE MAPS

Groundwater analytical maps (Figures 3 and 5) and groundwater elevation contour maps (Figures 4 and 6) summarize results of the 2021 groundwater sampling and gauging events.

ANALYTICAL LAB REPORTS

The groundwater analytical lab reports are included as Appendix C.

GROUNDWATER RESULTS

- Groundwater elevations indicate the groundwater flow direction at the Site was generally to the south-southwest in 2021 (see Figures 4 and 6).
- LNAPL was observed in MW-5 in 2021 during both sampling events; therefore, no groundwater samples were collected at this location.
- Both groundwater samples collected from MW-1 in 2021 and the May 2021 sample from MW-3 exceeded the New Mexico Water Quality Control Commission (NMWQCC) standard (10 micrograms per liter [µg/L]) for benzene in groundwater. Benzene concentrations were either not detected or were detected below the standard in the remaining collected groundwater samples.
- Concentrations of toluene were either below the NMWQCC standard (750 µg/L) or were not detected at the site monitoring wells sampled in 2021.
- Concentrations of ethylbenzene were either below the NMWQCC standard (750 µg/L) or were not detected at the site monitoring wells sampled in 2021.

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- The groundwater sample collected in May 2021 from MW-1 exceeded the NMWQCC standard (620 µg/L) for total xylenes in groundwater. Total xylenes were either below the standard or were not detected at the remaining site monitoring wells sampled in 2021.
- A field duplicate was collected from MW-2 in May and November 2021. For each sampling event, no significant differences were noted between the primary and duplicate sample results.
- Detectable concentrations of BTEX constituents were not reported in the trip blanks collected and analyzed as part of the 2021 groundwater monitoring events.

PLANNED FUTURE ACTIVITIES

Semi-annual groundwater monitoring is to continue in 2022. Groundwater samples will be collected from key monitoring wells not containing LNAPL on a semi-annual basis and analyzed for BTEX constituents using EPA Method 8260. A field duplicate and trip blank will also be collected during each groundwater sampling event. Sampling of all site monitoring wells is conducted on a biennial basis, with the next site-wide sampling event planned for no later than the second calendar quarter of 2022.

Pursuant to EPCGP's January 5, 2021, letter, recovery of LNAPL will continue on a quarterly basis from monitoring well MW-5. EPCGP is planning to conduct mobile dual-phase extraction (MDPE) events in 2022 to enhance LNAPL recovery at the Site. A work plan for the MDPE activities will be submitted to NMOCD under separate cover.

The activities completed in 2022 and their results will be summarized in the 2022 Annual Report, to be submitted by April 1, 2023.

TABLES

TABLE 1
LIGHT NON-AQUEOUS PHASE LIQUID RECOVERY SUMMARY

Lat. L-40 Line Drip						
Well ID - MW-5	**Depth to LNAPL (Feet)**	**Depth to Water (Feet)**	**Measured Thickness (Feet)**	**LNAPL Recovered (gal)**	**Water Recovered (gal)**	**Recovery Type**
Date						
11/1/2018	41.53	41.53	<0.01	<0.01	0.1	manual
5/24/2019	41.62	41.86	0.24	0.02	0.1	manual
11/14/2019	41.39	42.11	0.72	0.26	0.13	manual
5/14/2020	40.55	41.34	0.79	0.34	0.17	manual
8/19/2020	41.55	42.20	0.65	0.18	0.50	manual
11/15/2020	41.54	42.50	0.96	0.15	0.22	manual
3/18/2021	41.45	42.90	1.45	0.34	0.49	manual
5/23/2021	41.63	42.51	0.88	0.16	0.08	manual
8/22/2021	41.63	42.50	0.87	0.18	0.62	manual
11/13/2021	41.73	42.43	0.70	0.14	0.40	manual
			Total:	1.77	2.81	

Notes:
gal = gallons
"LNAPL" = Light non-aqueous phase liquid
LNAPL recovery data for 2003 and previous years documented in previously-submitted reports.

TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

Lat. L-40 Line Drip					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-1	09/26/95	121	218	7.4	75.1
MW-1	11/11/96	12000	20400	612	6075
MW-1	03/31/97	11100	24700	702	7440
MW-1	05/09/97	12900	22900	761	7730
MW-1	11/06/00	8.2	<0.5	15	6.9
MW-1	01/02/01	NS	NS	NS	NS
MW-1	06/08/01	NS	NS	NS	NS
MW-1	07/02/01	NS	NS	NS	NS
MW-1	08/03/01	NS	NS	NS	NS
MW-1	09/12/01	NS	NS	NS	NS
MW-1	10/12/01	NS	NS	NS	NS
MW-1	12/13/01	NS	NS	NS	NS
MW-1	03/12/02	NS	NS	NS	NS
MW-1	04/03/02	NS	NS	NS	NS
MW-1	05/20/02	NS	NS	NS	NS
MW-1	06/10/02	NS	NS	NS	NS
MW-1	07/19/02	NS	NS	NS	NS
MW-1	10/11/02	NS	NS	NS	NS
MW-1	05/06/03	NS	NS	NS	NS
MW-1	07/17/03	NS	NS	NS	NS
MW-1	10/13/03	NS	NS	NS	NS
MW-1	04/20/04	NS	NS	NS	NS
MW-1	07/27/04	NS	NS	NS	NS
MW-1	10/26/04	NS	NS	NS	NS
MW-1	04/22/05	NS	NS	NS	NS
MW-1	07/19/05	NS	NS	NS	NS
MW-1	10/21/05	NS	NS	NS	NS
MW-1	01/24/06	NS	NS	NS	NS
MW-1	05/10/06	NS	NS	NS	NS
MW-1	07/26/06	NS	NS	NS	NS
MW-1	10/22/06	NS	NS	NS	NS
MW-1	04/29/07	NS	NS	NS	NS
MW-1	07/31/07	NS	NS	NS	NS
MW-1	10/30/07	NS	NS	NS	NS
MW-1	04/17/08	396	<50	484	2770
MW-1	07/23/08	NS	NS	NS	NS
MW-1	10/09/08	NS	NS	NS	NS
MW-1	04/08/09	387	7.9 J	466	2680
MW-1	06/03/10	272	<50	384	2240

TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

Lat. L-40 Line Drip					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-1	09/24/10	NS	NS	NS	NS
MW-1	11/02/10	NS	NS	NS	NS
MW-1	05/03/11	115	4.8	430	2160
MW-1	09/28/11	NS	NS	NS	NS
MW-1	11/02/11	NS	NS	NS	NS
MW-1	05/09/12	302	10.2	404	1830
MW-1	06/09/13	150	13	330	2800
MW-1	09/11/13	160	330	15 J	2600
MW-1	12/14/13	160	15	320	2500
MW-1	04/06/14	150	30 J	400	2900
MW-1	10/26/14	120	9.9 J	350	2000
MW-1	06/01/15	83	12 J	250	1500
MW-1	11/23/15	150	<100	360	2100
MW-1	04/19/16	100	<25	300	1900
MW-1	10/16/16	180	<50	410	2500
MW-1	06/11/17	120	<50	350	2000
MW-1	11/11/17	120	<10	370	2000
MW-1	05/18/18	120	<10	280	1500
MW-1	11/01/18	190	48	150	1200
MW-1	05/24/19	200	18	310	1700
MW-1	11/14/19	110	9.1	160	800
MW-1	05/14/20	110	6.9	130	560
DUP-01(MW-1)	05/14/20	110	6.4	120	520
MW-1	11/15/20	280	31	320	1400
MW-1	05/23/21	170	16	260	1200
MW-1	11/13/21	160	9.9	140	530
MW-2	10/16/16	180	430	17	150
MW-2	06/11/17	2300	21	11	180
MW-2	11/11/17	1900	230	13	280
MW-2	05/18/18	1100	33	<10	<100
MW-2	11/01/18	130	25	<1.0	13
MW-2	05/24/19	<1.0	<1.0	<1.0	<10
MW-2	11/14/19	33	5.6	<1.0	<10
DUP-1(MW-2)*	11/14/19	37	7.1	<1.0	<10
MW-2	05/14/20	<1.0	<1.0	<1.0	<10
MW-2	11/15/20	7.4	<1.0	<1.0	<10
DUP-1(MW-2)*	11/15/20	7.1	<1.0	<1.0	<10
MW-2	05/23/21	<1.0	<1.0	<1.0	<10

TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

Lat. L-40 Line Drip					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
DUP-1(MW-2)*	05/23/21	<1.0	<1.0	<1.0	<10
MW-2	11/13/21	<1.0	<1.0	<1.0	<10
DUP-1(MW-2)*	11/13/21	<1.0	<1.0	<1.0	<10
MW-3	10/16/16	3.4	<5.0	<1.0	<5.0
MW-3	06/11/17	130	<5.0	<1.0	<5.0
MW-3	11/11/17	170	<1.0	<1.0	<10
MW-3	05/18/18	130	23	<1.0	<10
DP-01(MW-3)*	05/18/18	140	30	<1.0	<10
MW-3	11/01/18	<1.0	<1.0	<1.0	<10
MW-3	05/24/19	<1.0	<1.0	<1.0	<10
MW-3	11/14/19	9.3	<1.0	<1.0	<10
MW-3	05/14/20	4.2	<1.0	<1.0	<10
MW-3	11/15/20	2.0	<1.0	<1.0	<10
MW-3	05/23/21	33	<1.0	<1.0	<10
MW-3	11/13/21	<1.0	<1.0	<1.0	<10
MW-4	10/16/16	8.7	15	<1.0	6.1
MW-4	06/11/17	47	6.8	<1.0	<5.0
MW-4	11/11/17	26	<1.0	<1.0	<10
MW-4	05/18/18	11	<1.0	<1.0	<10
MW-4	11/01/18	<1.0	<1.0	<1.0	<10
MW-4	05/24/19	<1.0	<1.0	<1.0	<10
MW-4	11/14/19	8.8	<1.0	<1.0	<10
MW-4	05/14/20	26	<1.0	<1.0	<10
MW-4	11/15/20	<1.0	<1.0	<1.0	<10
MW-4	05/23/21	<1.0	<1.0	<1.0	<10
MW-4	11/13/21	<1.0	<1.0	<1.0	<10
MW-5	10/16/16	750	3000	190	1600
MW-5	06/11/17	2000	230	75	710
MW-5	11/11/17	1100	550	85	820
MW-5	05/18/18	550	53	42	<50
MW-5	11/01/18	1200	370	190	810
DP-01(MW-5)*	11/01/18	1200	270	120	550
MW-5	05/24/19	NS	NS	NS	NS
MW-5	11/14/19	NS	NS	NS	NS
MW-5	05/14/20	NS	NS	NS	NS
MW-5	08/19/20	NS	NS	NS	NS

TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

Lat. L-40 Line Drip					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-5	11/15/20	NS	NS	NS	NS
MW-5	03/18/21	NS	NS	NS	NS
MW-5	05/23/21	NS	NS	NS	NS
MW-5	08/22/21	NS	NS	NS	NS
MW-5	11/13/21	NS	NS	NS	NS
MW-6	11/01/18	NS	NS	NS	NS
MW-6	05/24/19	<1.0	<1.0	<1.0	<10
MW-6	11/14/19	<1.0	<1.0	<1.0	<10
MW-6	05/14/20	<1.0	<1.0	<1.0	<10
MW-6	11/15/20	<1.0	<1.0	<1.0	<10
MW-6	05/23/21	<1.0	<1.0	<1.0	<10
MW-6	11/13/21	<1.0	<1.0	<1.0	<10
MW-7	11/01/18	<1.0	<1.0	<1.0	<10
MW-7	05/24/19	<1.0	<1.0	<1.0	<10
MW-7	11/14/19	NS	NS	NS	NS
MW-7	05/14/20	NS	NS	NS	NS
MW-7	11/15/20	NS	NS	NS	NS
MW-7	05/23/21	<1.0	<1.0	<1.0	<10
MW-7	11/13/21	NS	NS	NS	NS
MW-8	11/01/18	<1.0	<1.0	<1.0	<10
MW-8	05/24/19	<1.0	<1.0	<1.0	<10
MW-8	11/14/19	NS	NS	NS	NS
MW-8	05/14/20	NS	NS	NS	NS
MW-8	11/15/20	NS	NS	NS	NS
MW-8	05/23/21	<1.0	<1.0	<1.0	<10
MW-8	11/13/21	NS	NS	NS	NS
MW-9	11/01/18	5.6	5.5	<1.0	<10
MW-9	05/24/19	<1.0	<1.0	<1.0	<10
DUP-1(MW-9)*	05/24/19	<1.0	<1.0	<1.0	<10
MW-9	11/14/19	<1.0	<1.0	<1.0	<10
MW-9	05/14/20	<1.0	<1.0	<1.0	<10
MW-9	11/15/20	<1.0	<1.0	<1.0	<10
MW-9	05/23/21	<1.0	<1.0	<1.0	<10
MW-9	11/13/21	<1.0	<1.0	<1.0	<10

TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

Lat. L-40 Line Drip					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-10	11/01/18	<1.0	<1.0	<1.0	<10
MW-10	05/24/19	<1.0	<1.0	<1.0	<10
MW-10	11/14/19	<1.0	<1.0	<1.0	<10
MW-10	05/14/20	<1.0	<1.0	<1.0	<10
MW-10	11/15/20	<1.0	<1.0	<1.0	<10
MW-10	05/23/21	<1.0	<1.0	<1.0	<10
MW-10	11/13/21	<1.0	<1.0	<1.0	<10

Notes:
The monitoring dates where no groundwater samples were collected and analyzed have been omitted.
"µg/L" = micrograms per liter
Results highlighted yellow exceed their respective New Mexico Water Quality Control Commission (NMWQCC) standards.
"J" = Result is less than the reporting limit but greater than or equal to the method detection limit and the result in an approximate value.
"<" = analyte was not detected at the indicated reporting limit (some historic data were reported at the detection limit).
*Field Duplicate results presented immediately below primary sample results

TABLE 3 - GROUNDWATER ELEVATION TABLE

Lat. L-40 Line Drip						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-1	09/26/95	7259.57	NR	36.68		7222.89
MW-1	11/11/96	7259.57	36.16	36.62	0.46	7223.30
MW-1	03/31/97	7259.57	36.18	36.68	0.50	7223.27
MW-1	05/09/97	7259.57	36.45	36.57	0.12	7223.09
MW-1	11/06/00	7259.57	NR	35.06		7224.51
MW-1	01/02/01	7259.57	37.95	39.08	1.13	7221.34
MW-1	06/08/01	7259.57	37.89	39.00	1.11	7221.40
MW-1	07/02/01	7259.57	37.93	39.14	1.21	7221.34
MW-1	08/03/01	7259.57	37.83	39.10	1.27	7221.42
MW-1	09/12/01	7259.57	38.02	38.96	0.94	7221.32
MW-1	10/12/01	7259.57	38.19	38.43	0.24	7221.32
MW-1	12/13/01	7259.57	38.40	38.75	0.35	7221.08
MW-1	03/12/02	7259.57	38.42	38.76	0.34	7221.07
MW-1	04/03/02	7259.57	38.39	38.66	0.27	7221.11
MW-1	05/20/02	7259.57	38.46	38.56	0.10	7221.09
MW-1	06/10/02	7259.57	38.51	38.56	0.05	7221.05
MW-1	07/19/02	7259.57	NR	38.64		7220.93
MW-1	10/11/02	7259.57	38.84	38.87	0.03	7220.72
MW-1	05/06/03	7259.57	37.94	37.97	0.03	7221.62
MW-1	07/17/03	7259.57	ND	38.95		7220.62
MW-1	10/13/03	7259.57	ND	39.06		7220.51
MW-1	04/20/04	7259.57	ND	39.18		7220.39
MW-1	07/27/04	7259.57	ND	39.22		7220.35
MW-1	10/26/04	7259.57	ND	39.35		7220.22
MW-1	04/22/05	7259.57	ND	39.52		7220.05
MW-1	07/19/05	7259.57	ND	39.34		7220.23
MW-1	10/21/05	7259.57	ND	39.57		7220.00
MW-1	01/24/06	7259.57	ND	38.67		7220.90
MW-1	05/10/06	7259.57	ND	38.72		7220.85
MW-1	07/26/06	7259.57	ND	38.72		7220.85
MW-1	10/22/06	7259.57	ND	38.91		7220.66
MW-1	04/29/07	7259.57	ND	38.92		7220.65
MW-1	07/31/07	7259.57	ND	38.85		7220.72
MW-1	10/30/07	7259.57	ND	38.79		7220.78
MW-1	04/17/08	7259.57	ND	38.98		7220.59
MW-1	07/23/08	7259.57	ND	38.99		7220.58
MW-1	10/09/08	7259.57	ND	38.95		7220.62
MW-1	04/08/09	7259.57	ND	39.04		7220.53
MW-1	06/03/10	7259.57	ND	39.40		7220.17
MW-1	09/24/10	7259.57	ND	39.45		7220.12

TABLE 3 - GROUNDWATER ELEVATION TABLE

Lat. L-40 Line Drip						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-1	11/02/10	7259.57	ND	39.47		7220.10
MW-1	05/03/11	7259.57	ND	39.55		7220.02
MW-1	09/28/11	7259.57	ND	39.63		7219.94
MW-1	11/02/11	7259.57	ND	39.73		7219.84
MW-1	05/09/12	7259.57	ND	39.73		7219.84
MW-1	06/09/13	7259.57	ND	37.97		7221.60
MW-1	09/11/13	7259.57	ND	38.86		7220.71
MW-1	12/14/13	7259.57	ND	40.09		7219.48
MW-1	04/06/14	7259.57	ND	40.09		7219.48
MW-1	10/26/14	7259.57	ND	40.22		7219.35
MW-1	06/01/15	7259.57	ND	46.45		7213.12
MW-1	11/23/15	7259.57	ND	42.13		7217.44
MW-1	04/19/16	7259.57	ND	40.59		7218.98
MW-1	10/16/16	7259.57	ND	40.71		7218.86
MW-1	06/11/17	7259.57	ND	40.73		7218.84
MW-1	11/11/17	7259.57	ND	40.85		7218.72
MW-1	05/18/18	7259.57	ND	40.90		7218.67
MW-1	11/01/18	7259.57	ND	40.99		7218.58
MW-1	05/24/19	7259.57	ND	41.18		7218.39
MW-1	11/14/19	7259.57	ND	41.23		7218.34
MW-1	05/14/20	7259.57	ND	41.22		7218.35
MW-1	11/15/20	7259.57	ND	41.31		7218.26
MW-1	05/23/21	7259.57	ND	41.37		7218.20
MW-1	11/13/21	7259.57	ND	41.40		7218.17
MW-2	10/16/16	7259.65	ND	40.65		7219.00
MW-2	06/11/17	7259.65	ND	40.71		7218.94
MW-2	11/11/17	7259.65	ND	40.81		7218.84
MW-2	05/18/18	7259.65	ND	40.84		7218.81
MW-2	11/01/18	7259.65	ND	41.00		7218.65
MW-2	05/24/19	7259.65	ND	41.08		7218.57
MW-2	11/14/19	7259.65	ND	41.13		7218.52
MW-2	05/14/20	7259.65	NA	41.16		7218.49
MW-2	11/15/20	7259.65	NA	41.27		7218.38
MW-2	05/23/21	7259.65	NA	41.33		7218.32
MW-2	11/13/21	7259.65	NA	41.39		7218.26

TABLE 3 - GROUNDWATER ELEVATION TABLE

Lat. L-40 Line Drip						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-3	10/16/16	7259.10	ND	40.21		7218.89
MW-3	06/11/17	7259.10	ND	40.29		7218.81
MW-3	11/11/17	7259.10	ND	40.36		7218.74
MW-3	05/18/18	7259.10	ND	40.52		7218.58
MW-3	11/01/18	7259.10	ND	40.53		7218.57
MW-3	05/24/19	7259.10	ND	40.69		7218.41
MW-3	11/14/19	7259.10	ND	40.71		7218.39
MW-3	05/14/20	7259.10	ND	40.74		7218.36
MW-3	11/15/20	7259.10	ND	40.89		7218.21
MW-3	05/23/21	7259.10	ND	40.95		7218.15
MW-3	11/13/21	7259.10	ND	40.96		7218.14
MW-4	10/16/16	7261.59	ND	42.80		7218.79
MW-4	06/11/17	7261.59	ND	42.69		7218.90
MW-4	11/11/17	7261.59	ND	42.77		7218.82
MW-4	05/18/18	7261.59	ND	42.81		7218.78
MW-4	11/01/18	7261.59	ND	42.94		7218.65
MW-4	05/24/19	7261.59	ND	43.03		7218.56
MW-4	11/14/19	7261.59	ND	43.07		7218.52
MW-4	05/14/20	7261.59	ND	43.13		7218.46
MW-4	11/15/20	7261.59	ND	43.24		7218.35
MW-4	05/23/21	7261.59	ND	43.32		7218.27
MW-4	11/13/21	7261.59	ND	43.35		7218.24
MW-5	10/16/16	7260.08	ND	41.23		7218.85
MW-5	06/11/17	7260.08	ND	41.33		7218.75
MW-5	11/11/17	7260.08	ND	41.40		7218.68
MW-5	05/18/18	7260.08	ND	41.41		7218.67
MW-5	11/01/18	7260.08	ND	41.53		7218.55
MW-5	05/24/19	7260.08	41.62	41.86	0.24	7218.40
MW-5	11/14/19	7260.08	41.39	42.11	0.72	7218.51
MW-5	05/14/20	7260.08	40.55	41.34	0.79	7219.33
MW-5	08/19/20	7260.08	41.55	42.20	0.65	7218.36
MW-5	11/15/20	7260.08	41.54	42.50	0.96	7218.30
MW-5	03/18/21	7260.08	41.45	42.90	1.45	7218.26
MW-5	05/23/21	7260.08	41.63	42.51	0.88	7218.23
MW-5	08/22/21	7260.08	41.63	42.50	0.87	7218.23
MW-5	11/13/21	7260.08	41.73	42.43	0.70	7218.17

TABLE 3 - GROUNDWATER ELEVATION TABLE

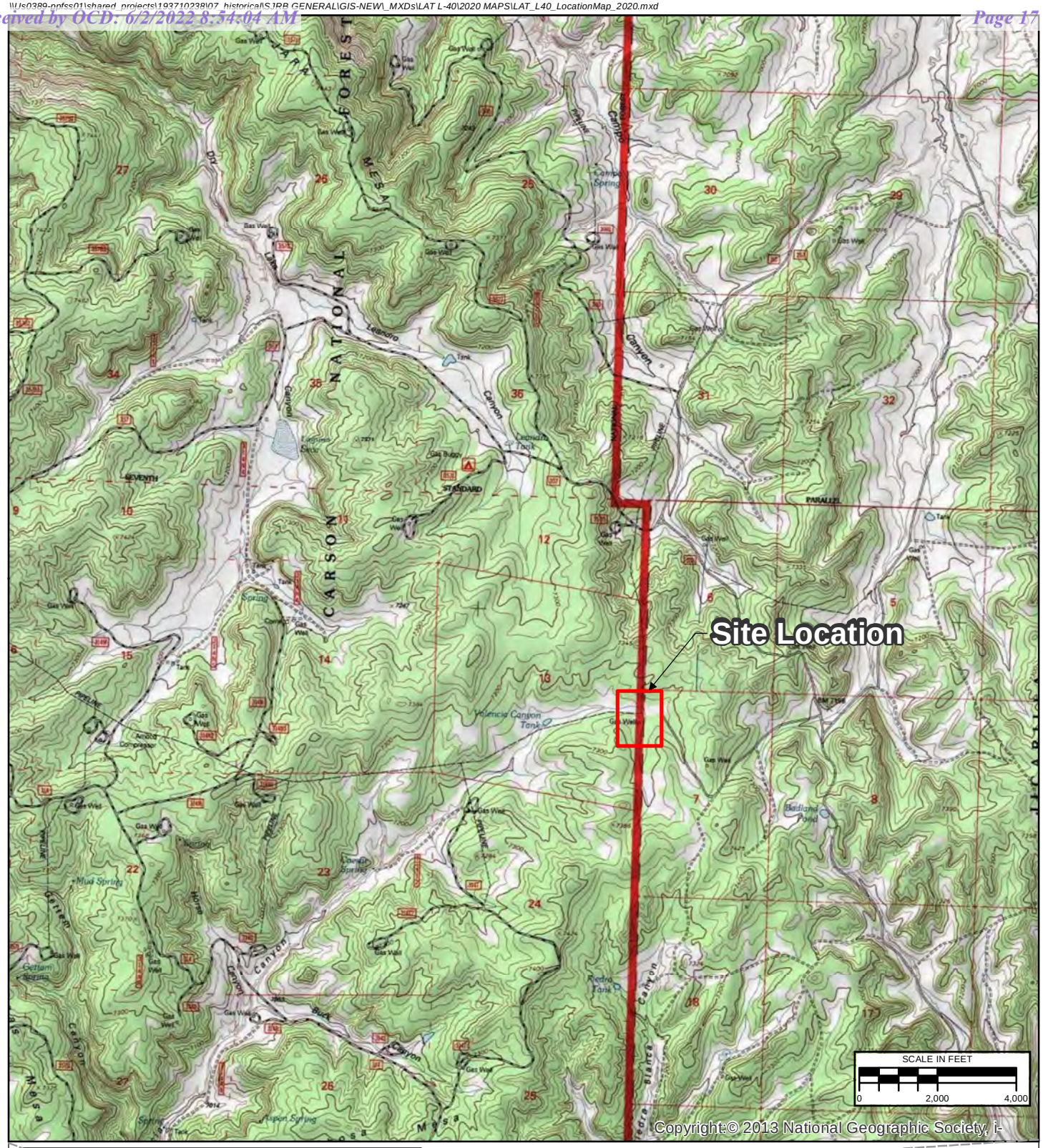
Lat. L-40 Line Drip						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-6	11/01/18	7261.87	ND	Dry		Dry
MW-6	05/24/19	7261.87	ND	43.90		7217.97
MW-6	11/14/19	7261.87	ND	43.06		7218.81
MW-6	05/14/20	7261.87	ND	42.85		7219.02
MW-6	11/15/20	7261.87	ND	43.84		7218.03
MW-6	05/23/21	7261.87	ND	42.95		7218.92
MW-6	11/13/21	7261.87	ND	43.15		7218.72
MW-7	11/01/18	7259.41	ND	40.62		7218.79
MW-7	05/24/19	7259.41	ND	40.75		7218.66
MW-7	11/14/19	7259.41	ND	40.74		7218.67
MW-7	05/14/20	7259.41	ND	40.81		7218.60
MW-7	11/15/20	7259.41	ND	40.90		7218.51
MW-7	05/23/21	7259.41	ND	41.02		7218.39
MW-7	11/13/21	7259.41	ND	41.03		7218.38
MW-8	11/01/18	7258.82	ND	40.25		7218.57
MW-8	05/24/19	7258.82	ND	40.41		7218.41
MW-8	11/14/19	7258.82	ND	40.41		7218.41
MW-8	05/14/20	7258.82	ND	40.46		7218.36
MW-8	11/15/20	7258.82	ND	40.60		7218.22
MW-8	05/23/21	7258.82	ND	40.63		7218.19
MW-8	11/13/21	7258.82	ND	40.66		7218.16
MW-9	11/01/18	7258.82	ND	40.35		7218.47
MW-9	05/24/19	7258.82	ND	40.51		7218.31
MW-9	11/14/19	7258.82	ND	40.50		7218.32
MW-9	05/14/20	7258.82	ND	40.55		7218.27
MW-9	11/15/20	7258.82	ND	40.72		7218.10
MW-9	05/23/21	7258.82	ND	40.73		7218.09
MW-9	11/13/21	7258.82	ND	40.76		7218.06
MW-10	11/01/18	7260.89	ND	42.29		7218.60
MW-10	05/24/19	7260.89	ND	42.49		7218.40
MW-10	11/14/19	7260.89	ND	42.48		7218.41
MW-10	05/14/20	7260.89	ND	42.50		7218.39
MW-10	11/15/20	7260.89	ND	42.64		7218.25
MW-10	05/23/21	7260.89	ND	42.69		7218.20
MW-10	11/13/21	7260.89	ND	42.73		7218.16

TABLE 3 - GROUNDWATER ELEVATION TABLE

Lat. L-40 Line Drip						
Location	**Date**	**TOC**	**Depth to LNAPL (ft.)**	**Depth to Water (ft.)**	**LNAPL Thickness (ft.)**	**GW Elevation (ft.)**
SVE-1	11/14/19	7259.61	ND	32.02		7227.59
SVE-1	05/14/20	7259.61	ND	32.01		7227.60
SVE-1	11/15/20	7259.61	ND	32.01		7227.60
SVE-1	05/23/21	7259.61	ND	32.00		7227.61
SVE-1	11/13/21	7259.61	ND	31.98		7227.63
SVE-2	11/14/19	7259.82	ND	24.64		7235.18
SVE-2	05/14/20	7259.82	ND	24.61		7235.21
SVE-2	11/15/20	7259.82	ND	24.60		7235.22
SVE-2	05/23/21	7259.82	ND	24.59		7235.23
SVE-2	11/13/21	7259.82	ND	Dry		---
SVE-3	11/14/19	7259.89	ND	25.21		7234.68
SVE-3	05/14/20	7259.89	ND	25.15		7234.74
SVE-3	11/15/20	7259.89	ND	25.14		7234.75
SVE-3	05/23/21	7259.89	ND	25.11		7234.78
SVE-3	11/13/21	7259.89	ND	25.09		7234.80

Notes:
"ft" = feet
"TOC" = Top of casing
"LNAPL" = Light non-aqueous phase liquid
"ND" = LNAPL not detected
"NR" = LNAPL not recorded
Groundwater elevation = TOC elevation (ft) - (Depth to Water [ft] - [LNAPL thickness [ft} x 0.75]). A specific gravity of 0.75 is within the range of gas condensate (https://www.sciencedirect.com/topics/earth-and-planetary-sciences/gas-condensate)

FIGURES



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REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	2/17/2021	SAH	SAH	SRV

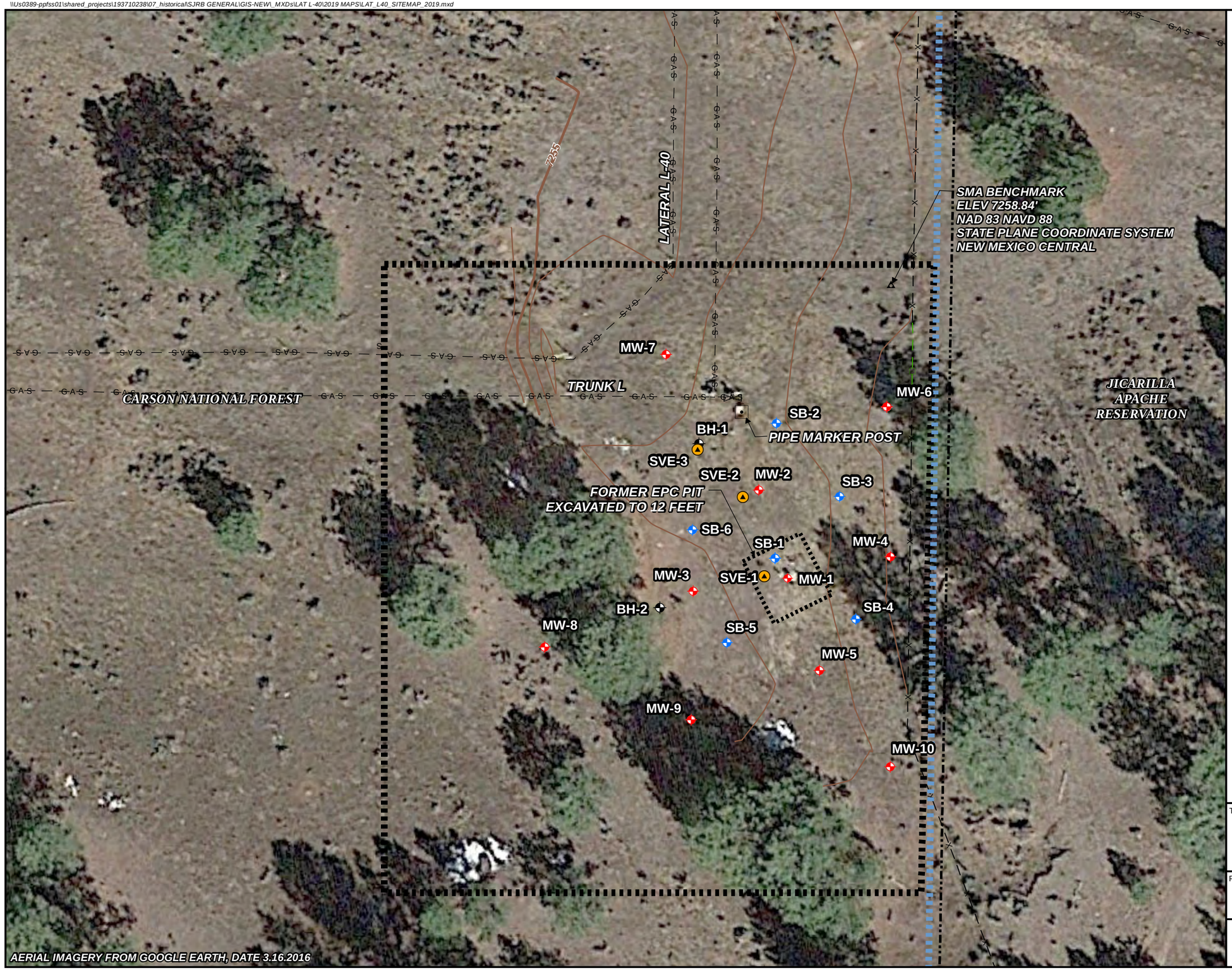
TITLE
SITE LOCATION

Stantec

PROJECT
LAT L-40
SAN JUAN RIVER BASIN
RIO ARRIBA COUNTY, NEW MEXICO

FIGURE
1

\\Us0389-ppfss01\shared_projects\193710238\07_historical\SJRB GENERAL\GIS-NEW_MXDs\LAT L-40\2019 MAPS\LAT_L40_SITEMAP_2019.mxd



LEGEND:

- 7259 — APPROXIMATE GROUND SURFACE CONTOUR AND ELEVATION, FEET
- GAS — NATURAL GAS LINE
- FENCE
- GATE
- FORMER PIT
- MONITORING WELL
- SOIL BORING
- BOREHOLE (2000)
- SOIL VAPOR EXTRACTION WELL
- SMA BENCHMARK
- GAS LINE VALVE
- CARSON NATIONAL FOREST AND JICARILLA APACHE NATION LAND BOUNDARY
- FOREST SERVICE JIC25 PERMIT BOUNDARY (4.3 ACRES - EXPANDED PERMIT AREA)
- CARSON NATIONAL FOREST ACCESS BOUNDARY

N

SCALE IN FEET

0 30 60

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	2/23/2021	SLG	SLG	SRV

TITLE:

SITE PLAN

PROJECT:

LAT L-40
SAN JUAN RIVER BASIN
RIO ARRIBA COUNTY, NEW MEXICO

Stantec

Figure No.:

2

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CARSON NATIONAL FOREST

LATERAL L-40

7255

TRUNK L

PIPE MARKER POST

FORMER EPC PIT
EXCAVATED TO 12 FEET

SMA BENCHMARK
ELEV 7258.84'
NAD 83 NAVD 88
STATE PLANE COORDINATE SYSTEM
NEW MEXICO CENTRAL

JICARILLA
APACHE
RESERVATION

MW-7
B: <1.0
T: <1.0
E: <1.0
X: <10

MW-6
B: <1.0
T: <1.0
E: <1.0
X: <10

MW-2
B: <1.0
T: <1.0
E: <1.0
X: <10

DUP-1
B: <1.0
T: <1.0
E: <1.0
X: <10

MW-4
B: <1.0
T: <1.0
E: <1.0
X: <10

MW-1
B: 170
T: 16
E: 260
X: 1200

MW-3
B: 33
T: <1.0
E: <1.0
X: <10

MW-8
B: <1.0
T: <1.0
E: <1.0
X: <10

MW-5
NS

MW-9
B: <1.0
T: <1.0
E: <1.0
X: <10

MW-10
B: <1.0
T: <1.0
E: <1.0
X: <10

AERIAL IMAGERY FROM GOOGLE EARTH, DATE 3/16/2016

LEGEND:

- 7259 — APPROXIMATE GROUND SURFACE CONTOUR AND ELEVATION, FEET
- GAS — NATURAL GAS LINE
- FENCE
- GATE
- FORMER PIT
- CARSON NATIONAL FOREST AND JICARILLA APACHE NATION LAND BOUNDARY
- MONITORING WELL
- MONITORING WELL WITH MEASURABLE FREE PRODUCT
- SMA BENCHMARK
- GAS LINE VALVE

NOTES:

DUP = FIELD DUPLICATE SAMPLE

EXPLANATION OF ANALYTES AND APPLICABLE STANDARDS:

RESULTS IN **BOLDFACE/RED** TYPE INDICATE CONCENTRATION IN EXCESS OF THE STANDARD FOR THAT ANALYTE.
µg/L = MICROGRAMS PER LITER
<10 = BELOW METHOD REPORTING LIMIT
NS = NOT SAMPLED

ANALYTE	NMWQCC STANDARDS
B = Benzene	10 µg/L
T = Toluene	750 µg/L
E = Ethylbenzene	750 µg/L
X = Total Xylenes	620 µg/L

N

SCALE IN FEET
0 30 60

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	9/15/2021	SAH	SAH	SRV

TITLE:

GROUNDWATER ANALYTICAL RESULTS
MAY 23, 2021

PROJECT:
LAT L-40
SAN JUAN RIVER BASIN
RIO ARRIBA COUNTY, NEW MEXICO

Stantec

Figure No.: 3

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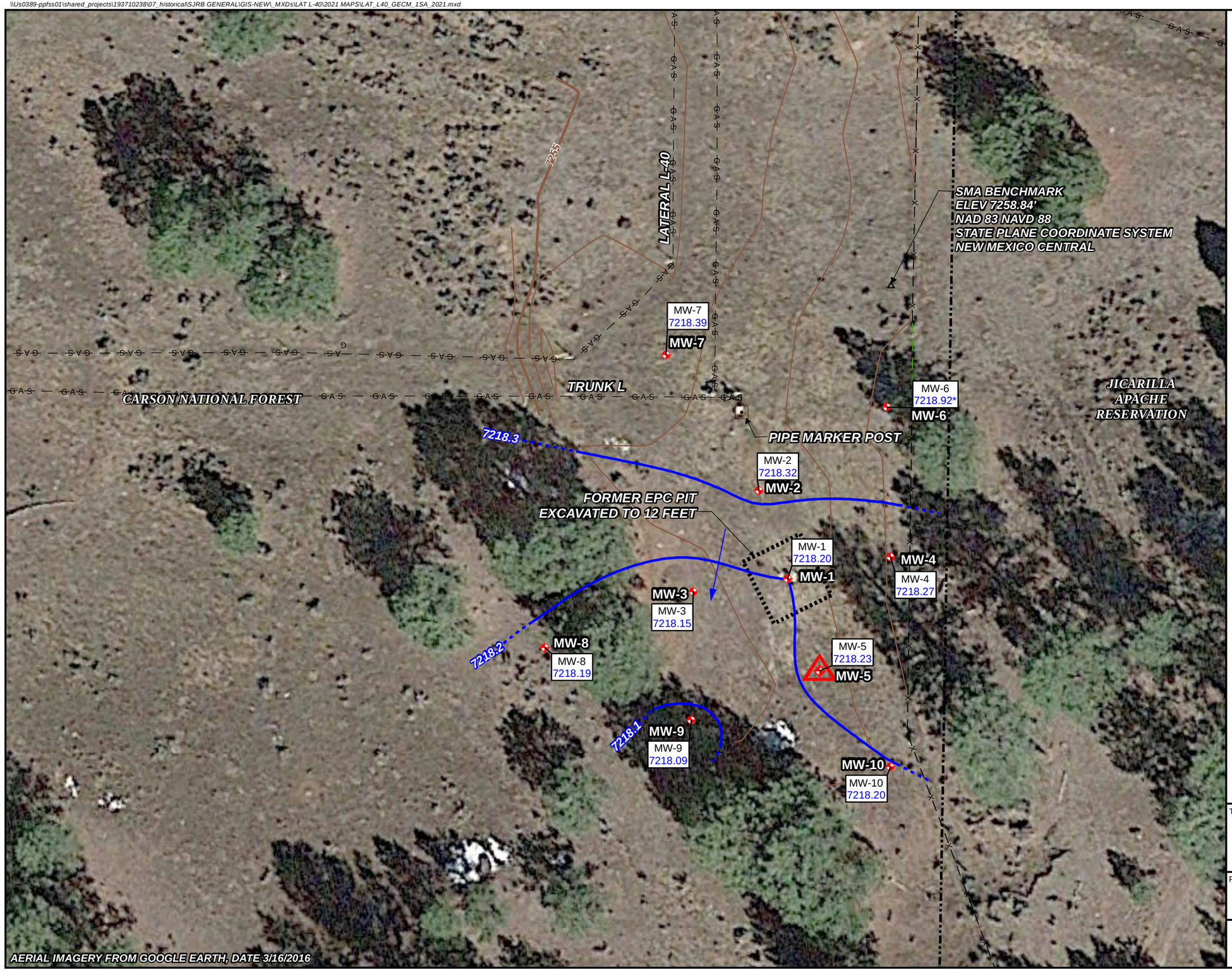

LEGEND:

- 7259 — APPROXIMATE GROUND SURFACE CONTOUR AND ELEVATION, FEET
- GAS — NATURAL GAS LINE
- FENCE
- GATE
- FORMER PIT
- CARSON NATIONAL FOREST AND JICARILLA APACHE NATION LAND BOUNDARY
- MONITORING WELL
- MONITORING WELL WITH MEASURABLE FREE PRODUCT
- SMA BENCHMARK
- GAS LINE VALVE

NOTES:

7218.22 — GROUNDWATER ELEVATION (CORRECTED FOR PRODUCT THICKNESS WHEN PRESENT) FEET ABOVE MEAN SEA LEVEL

7218.3 — CORRECTED WATER ELEVATION CONTOUR DASHED WHERE INFERRED (FEET ABOVE MEAN SEA LEVEL).

DIRECTION OF APPARENT GROUNDWATER FLOW

* GROUNDWATER ELEVATION APPEARS ANOMALOUS AND WAS NOT USED TO PREPARE CONTOURING GROUNDWATER ELEVATION.

N

SCALE IN FEET

0 30 60

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	9/15/2021	SLG	SLG	SRV

TITLE:

GROUNDWATER ELEVATION MAP
MAY 23, 2021

PROJECT:

LAT L-40
SAN JUAN RIVER BASIN
RIO ARRIBA COUNTY, NEW MEXICO

Stantec

Figure No.: 4

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CARSON NATIONAL FOREST

LATERAL L-40

7255

SMA BENCHMARK
ELEV 7258.84'
NAD 83 NAVD 88
STATE PLANE COORDINATE SYSTEM
NEW MEXICO CENTRAL

JICARILLA APACHE RESERVATION

TRUNK L

PIPE MARKER POST

FORMER EPC PIT
EXCAVATED TO 12 FEET

MW-7	NS
MW-6	B: <1.0 T: <1.0 E: <1.0 X: <10
MW-2	B: <1.0 T: <1.0 E: <1.0 X: <10
DUP-1	B: <1.0 T: <1.0 E: <1.0 X: <10
MW-4	B: <1.0 T: <1.0 E: <1.0 X: <10
MW-1	B: 160 T: 9.9 E: 140 X: 530
MW-3	B: <1.0 T: <1.0 E: <1.0 X: <10
MW-8	NS
MW-5	NS
MW-9	B: <1.0 T: <1.0 E: <1.0 X: <10
MW-10	B: <1.0 T: <1.0 E: <1.0 X: <10

AERIAL IMAGERY FROM GOOGLE EARTH, DATE 3/16/2016

LEGEND:

- APPROXIMATE GROUND SURFACE CONTOUR AND ELEVATION, FEET
- NATURAL GAS LINE
- FENCE
- GATE
- FORMER PIT
- CARSON NATIONAL FOREST AND JICARILLA APACHE NATION LAND BOUNDARY
- MONITORING WELL
- MONITORING WELL WITH MEASURABLE FREE PRODUCT
- SMA BENCHMARK
- GAS LINE VALVE

NOTES:

DUP = FIELD DUPLICATE SAMPLE

EXPLANATION OF ANALYTES AND APPLICABLE STANDARDS:

RESULTS IN **BOLDFACE/RED** TYPE INDICATE CONCENTRATION IN EXCESS OF THE STANDARD FOR THAT ANALYTE.
µg/L = MICROGRAMS PER LITER
<10 = BELOW METHOD REPORTING LIMIT
NS = NOT SAMPLED

ANALYTE	NMWQCC STANDARDS
B = Benzene	10 µg/L
T = Toluene	750 µg/L
E = Ethylbenzene	750 µg/L
X = Total Xylenes	620 µg/L

N

SCALE IN FEET
0 30 60

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	2022-01-27	SAH	SAH	SRV

TITLE:

GROUNDWATER ANALYTICAL RESULTS
NOVEMBER 13, 2021

PROJECT:
LAT L-40
SAN JUAN RIVER BASIN
RIO ARRIBA COUNTY, NEW MEXICO

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Figure No.:
5

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LEGEND:

- 7259 — APPROXIMATE GROUND SURFACE CONTOUR AND ELEVATION, FEET
- GAS — NATURAL GAS LINE
- FENCE
- GATE
- FORMER PIT
- CARSON NATIONAL FOREST AND JICARILLA APACHE NATION LAND BOUNDARY
- MONITORING WELL
- MONITORING WELL WITH MEASURABLE FREE PRODUCT
- SMA BENCHMARK
- GAS LINE VALVE

NOTES:

7218.22 — GROUNDWATER ELEVATION (CORRECTED FOR PRODUCT THICKNESS WHEN PRESENT) FEET ABOVE MEAN SEA LEVEL

7218.3 — CORRECTED WATER ELEVATION CONTOUR DASHED WHERE INFERRED (FEET ABOVE MEAN SEA LEVEL).

DIRECTION OF APPARENT GROUNDWATER FLOW

* GROUNDWATER ELEVATION APPEARS ANOMALOUS AND WAS NOT USED TO PREPARE CONTOURING GROUNDWATER ELEVATION.

N

SCALE IN FEET

0 30 60

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	2022-01-27	SLG	SLG	SRV

TITLE:

GROUNDWATER ELEVATION MAP
NOVEMBER 13, 2021

PROJECT:

LAT L-40
SAN JUAN RIVER BASIN
RIO ARRIBA COUNTY, NEW MEXICO

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Figure No.: 6

APPENDICES

APPENDIX A – NMOCD NOTIFICATION OF SITE ACTIVITIES

APPENDIX B – WASTEWATER DISPOSAL DOCUMENTATION

APPENDIX C – GROUNDWATER SAMPLING ANALYTICAL REPORTS

APPENDIX A

From: Varsa, Steve
To: Smith, Cory, EMNRD
Cc: Griswold, Jim, EMNRD; Wiley, Joe
Subject: El Paso CGP Company - Notice of upcoming product recovery activities
Date: Thursday, March 11, 2021 10:49:41 AM

Hi Cory -

This correspondence is to provide notice to the NMOCD of upcoming product recovery activities at the following El Paso CGP Company (EPCGP) project sites:

Site Name	Incident Number	Case Number	Date
Canada Mesa #2	Unknown	3RP-155-0	03/18/2021
Fields A#7A	Unknown	3RP-170-0	03/17/2021
Fogelson 4-1	Unknown	3RP-068-0	03/17/2021
Gallegos Canyon Unit #124E	NAUTOFAB000205	3RP-407-0	03/17/2021
James F. Bell #1E	Unknown	3RP-196-0	03/17/2021
Johnston Fed #4	Unknown	3RP-201-0	03/18/2021
Johnston Fed #6A	Unknown	3RP-202-0	03/18/2021
K27 LDO72	Unknown	3RP-204-0	03/18/2021
Knight #1	Unknown	3RP-207-0	03/17/2021
Lateral L 40 Line Drip	Unknown	3RP-212-0	03/18/2021
State Gas Com N #1	Unknown	3RP-239-0	03/17/2021

Please feel free to contact Joe Wiley, Project Manager at EPCGP, or me, if you need further information.

Thank you,
Steve

Stephen Varsa, P.G.
Senior Hydrogeologist
Stantec Environmental Services
11153 Aurora Avenue
Des Moines, Iowa 50322
Direct: (515) 251-1020
Cell: (515) 710-7523
Office: (515) 253-0830
steve.varsa@stantec.com

From: Varsa, Steve
To: Smith, Cory, EMNRD
Cc: Griswold, Jim, EMNRD; Wiley, Joe
Subject: El Paso CGP Company - Notice of upcoming groundwater sampling activities
Date: Wednesday, May 12, 2021 2:45:52 PM

Hi Cory -

This correspondence is to provide notice to the NMOCD of upcoming semi-annual groundwater sampling and monitoring activities at the following EPCGP project sites:

Site Name	Incident Number	Sample Date
Canada Mesa #2	nAUTOfAB000065	05/19/2021
Fields A#7A	nAUTOfAB000176	05/22/2021
Fogelson 4-1	nAUTOfAB000192	05/22/2021
Gallegos Canyon Unit #124E	nAUTOfAB000205	05/21/2021
GCU Com A #142E	nAUTOfAB000219	05/21/2021
James F. Bell #1E	nAUTOfAB000291	05/23/2021
Johnston Fed #4	nAUTOfAB000305	05/18/2021
Johnston Fed #6A	nAUTOfAB000309	05/18/2021
K27 LDO72	nAUTOfAB000316	05/19/2021
Knight #1	nAUTOfAB000324	05/21/2021
Lateral L 40 Line Drip	nAUTOfAB000335	05/23/2021
Miles Fed #1A	nAUTOfAB000391	05/19/2021
Sandoval GC A #1A	nAUTOfAB000635	05/18/2021
Standard Oil Com #1	nAUTOfAB000666	05/19/2021
State Gas Com N #1	nAUTOfAB000668	05/22/2021

Please feel free to contact Joe Wiley, Project Manager at EPCGP, or me, if you need further information.

Thank you,
Steve

Stephen Varsa, P.G.
Senior Hydrogeologist
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Cell: (515) 710-7523
Office: (515) 253-0830
steve.varsa@stantec.com

From: Varsa, Steve
To: Smith, Cory, EMNRD
Cc: Griswold, Jim, EMNRD; Wiley, Joe
Bcc: Varsa, Steve
Subject: El Paso CGP Company - Notice of upcoming free product recovery activities
Date: Thursday, August 19, 2021 8:01:00 AM

Hi Cory -

This correspondence is to provide notice to the NMOCD of upcoming quarterly product recovery activities at the following EPCGP project sites:

Site Name	Incident Number	Sample Date
Fields A#7A	nAUTOfAB000176	08/22/2021
Gallegos Canyon Unit #124E	nAUTOfAB000205	08/23/2021
Johnston Fed #4	nAUTOfAB000305	08/22/2021
K27 LDO72	nAUTOfAB000316	08/23/2021
Knight #1	nAUTOfAB000324	08/23/2021
Lateral L 40 Line Drip	nAUTOfAB000335	08/22/2021

Please feel free to contact Joe Wiley, Project Manager at EPCGP, or me, if you need further information.

Thank you,
Steve

Stephen Varsa, P.G.
Senior Hydrogeologist
Stantec Environmental Services
Note – we have moved!
11311 Aurora Avenue
Des Moines, Iowa 50322
Direct: (515) 251-1020
Cell: (515) 710-7523
Office: (515) 253-0830
steve.varsa@stantec.com

From: Varsa, Steve
To: Smith, Cory, EMNRD
Cc: Griswold, Jim, EMNRD; Wiley, Joe
Subject: El Paso CGP Company - Notice of upcoming groundwater sampling activities
Date: Wednesday, November 03, 2021 10:14:55 AM

Hi Cory -

This correspondence is to provide notice to the NMOCD of upcoming semi-annual groundwater sampling and monitoring activities at the following EPCGP project sites:

Site Name	Incident Number	Sample Date
Canada Mesa #2	nAUTOfAB000065	11/11/2021
Fields A#7A	nAUTOfAB000176	11/14/2021
Fogelson 4-1	nAUTOfAB000192	11/14/2021
Gallegos Canyon Unit #124E	nAUTOfAB000205	11/12/2021
GCU Com A #142E	nAUTOfAB000219	11/12/2021
James F. Bell #1E	nAUTOfAB000291	11/13/2021
Johnston Fed #4	nAUTOfAB000305	11/15/2021
Johnston Fed #6A	nAUTOfAB000309	11/15/2021
K27 LDO72	nAUTOfAB000316	11/11/2021
Knight #1	nAUTOfAB000324	11/12/2021
Lateral L 40 Line Drip	nAUTOfAB000335	11/13/2021
Miles Fed #1A	nAUTOfAB000391	11/11/2021
Sandoval GC A #1A	nAUTOfAB000635	11/15/2021
Standard Oil Com #1	nAUTOfAB000666	11/11/2021
State Gas Com N #1	nAUTOfAB000668	11/14/2021

Please feel free to contact Joe Wiley, Project Manager at EPCGP, or me, if you need further information.

Thank you,
Steve

Stephen Varsa, P.G.
Senior Hydrogeologist
Stantec Environmental Services
11153 Aurora Avenue
Des Moines, Iowa 50322
Direct: (515) 251-1020
Cell: (515) 710-7523
Office: (515) 253-0830
steve.varsa@stantec.com

APPENDIX B

BASIN DISPOSAL

30 Years of Environmental Health and Safety Excellence

200 Montana, Bloomfield, NM 87413
505-632-8936 or 505-334-3013
OPEN 24 Hours per Day

NO. 806752
NMOCD PERMIT: NM -001-0005
Oil Field Waste Document, Form C138
INVOICE:

DATE 03-18-21

GENERATOR: Santec

HAULING CO. Energy Minerals & Natural Res

ORDERED BY: Steve Vers

DEL. TKT#.

BILL TO: ~~Steve~~ Santec

DRIVER: Tyrone
(Print Full Name)

CODES:

WASTE DESCRIPTION: ☒ Exempt Oilfield Waste ☒ Produced Water ☐ Drilling/Completion Fluids

STATE: ☒ NM ☐ CO ☐ AZ ☐ UT

TREATMENT/DISPOSAL METHODS: ☒ EVAPORATION ☒ INJECTION ☒ TREATING PLANT

NO.	TRUCK	LOCATION(S)	VOLUME	COST	H2S	COST	TOTAL	TIME
1		Canada Mesa #2	3	TD			12	
2		K-27 CD072					'21 MAR 18 6:22PM	
3		Johnston Fed #4						
4		Johnston Fed #6A						
5		Lat L40						

I [illegible] representative or authorized agent for [illegible] do hereby

DATE 5.23.21 DEL. TKT#.

GENERATOR: El Paso CGP Company L.L.C BILL TO:

HAULING CO. Oil Conservation Division DRIVER:

ORDERED BY: (Print Full Name) CODES:

WASTE DESCRIPTION: ☒ Exempt Oilfield Waste ☐ Produced Water ☐ Drilling/Completion Fluids

STATE: ☐ NM ☐ CO ☐ AZ ☐ UT TREATMENT/DISPOSAL METHODS: ☒ EVAPORATION ☒ INJECTION ☒ TREATING PLANT

NO.	TRUCK	LOCATION(S)	VOLUME	COST	H2S	COST	TOTAL	TIME
1	4	Fidlis #7A						
2		State Gas Com N #1						
3		Fogelson 4-1						
4		Lat L 40						
5		James F Bell #1E	1	70			'21 MAY 23 4:31 #0.70	

I, Jim H Cleary, representative or authorized agent for _____ do hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non -exempt waste.

☒ Approved ☐ Denied ATTENDANT SIGNATURE

SAN JUAN PRINTING 2020 1973-1

BASIN DISPOSAL

30 Years of Environmental Health and Safety Excellence

200 Montana, Bloomfield, NM 87413

505-632-8936 or 505-334-3013

OPEN 24 Hours per Day

NO. 813739

NMOCD PERMIT: NM -001-0005

Oil Field Waste Document, Form C138

INVOICE:

DATE 8-25-21

GENERATOR: El Paso CGP

HAULING CO. San Stanley

ORDERED BY: Tom W.

DEL. TKT#.

BILL TO: El Paso CGP

DRIVER: Sarah

(Print Full Name)

CODES:

WASTE DESCRIPTION: ☒ Exempt Oilfield Waste ☐ Produced Water ☐ Drilling/Completion Fluids

STATE: ☐ NM ☐ CO ☐ AZ ☐ UT

TREATMENT/DISPOSAL METHODS: ☒ EVAPORATION ☒ INJECTION ☒ TREATING PLANT

NO.	TRUCK	LOCATION(S)	VOLUME	COST	H2S	COST	TOTAL	TIME
1		Fields A 7A	1	70				
2		Johnston Fed #4	1					
3		Lat. L 40	1				2.10	
4								
5								

BASIN DISPOSAL

30 Years of Environmental Health and Safety Excellence

200 Montana, Bloomfield, NM 87413
505-632-8936 or 505-334-3013
OPEN 24 Hours per Day

NO. 817538
NMOCD PERMIT: NM -001-0005
Oil Field Waste Document, Form C138
INVOICE:

DATE 11.13.21

GENERATOR: El paso cGP

HAULING CO. ~~El paso cgp~~ Slan tech

ORDERED BY: Joe wiley

DEL. TKT#.

BILL TO: El paso cGp

DRIVER: Sean C.
(Print Full Name)

CODES:

WASTE DESCRIPTION: ☒ Exempt Oilfield Waste ☐ Produced Water ☐ Drilling/Completion Fluids

STATE: ☑ NM ☐ CO ☐ AZ ☐ UT

TREATMENT/DISPOSAL METHODS: ☒ EVAPORATION ☒ INJECTION ☒ TREATING PLANT

NO.	TRUCK	LOCATION(S)	VOLUME	COST	H2S	COST	TOTAL	TIME
1		· Knight ·	1	70			70 21 NOV 13 5:31 PM	
2		Gallegos canyon unit 124E						
3		GCU COM A #1 12E						
4		Laedl 2-10 ·						
5		James F. Bell #1E						

I, _____, representative or authorized agent for _____ do hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non -exempt waste.

☑ Approved ☐ Denied ATTENDANT SIGNATURE _____

SAN JUAN PRINTING 2020 1973-1

APPENDIX C

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

Laboratory Job ID: 400-203815-1
Client Project/Site: Lat L 40.00

For:
Stantec Consulting Services Inc
11153 Aurora Avenue
Des Moines, Iowa 50322-7904

Attn: Steve Varsa

Marty Edwards

Authorized for release by:
5/31/2021 1:03:46 PM

Marty Edwards, Client Service Manager
(850)471-6227
Marty.Edwards@Eurofinset.com

Client: Stantec Consulting Services Inc
Project/Site: Lat L 40.00

Laboratory Job ID: 400-203815-1

Table of Contents

Definitions/Glossary

Client: Stantec Consulting Services Inc
Project/Site: Lat L 40.00

Job ID: 400-203815-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Stantec Consulting Services Inc
Project/Site: Lat L 40.00

Job ID: 400-203815-1

Job ID: 400-203815-1

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

Job Narrative
400-203815-1

Comments
No additional comments.

Receipt
The samples were received on 5/25/2021 9:35 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.2º C.

GC/MS VOA
Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-1 (400-203815-3). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Stantec Consulting Services Inc
Project/Site: Lat L 40.00

Job ID: 400-203815-1

Client Sample ID: TB-01 — Lab Sample ID: 400-203815-1

No Detections.

Client Sample ID: DUP-01 — Lab Sample ID: 400-203815-2

No Detections.

Client Sample ID: MW-1 — Lab Sample ID: 400-203815-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	170		2.0		ug/L	2		8260C	Total/NA
Toluene	16		2.0		ug/L	2		8260C	Total/NA
Ethylbenzene	260		2.0		ug/L	2		8260C	Total/NA
Xylenes, Total - DL	1200		50		ug/L	5		8260C	Total/NA

Client Sample ID: MW-2 — Lab Sample ID: 400-203815-4

No Detections.

Client Sample ID: MW-3 — Lab Sample ID: 400-203815-5

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	33		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-4 — Lab Sample ID: 400-203815-6

No Detections.

Client Sample ID: MW-6 — Lab Sample ID: 400-203815-7

No Detections.

Client Sample ID: MW-7 — Lab Sample ID: 400-203815-8

No Detections.

Client Sample ID: MW-8 — Lab Sample ID: 400-203815-9

No Detections.

Client Sample ID: MW-9 — Lab Sample ID: 400-203815-10

No Detections.

Client Sample ID: MW-10 — Lab Sample ID: 400-203815-11

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Pensacola

Sample Summary

Client: Stantec Consulting Services Inc
Project/Site: Lat L 40.00

Job ID: 400-203815-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
400-203815-1	TB-01	Water	05/23/21 07:00	05/25/21 09:35	
400-203815-2	DUP-01	Water	05/23/21 10:45	05/25/21 09:35	
400-203815-3	MW-1	Water	05/23/21 09:54	05/25/21 09:35	
400-203815-4	MW-2	Water	05/23/21 09:45	05/25/21 09:35	
400-203815-5	MW-3	Water	05/23/21 09:58	05/25/21 09:35	
400-203815-6	MW-4	Water	05/23/21 10:03	05/25/21 09:35	
400-203815-7	MW-6	Water	05/23/21 10:10	05/25/21 09:35	
400-203815-8	MW-7	Water	05/23/21 10:16	05/25/21 09:35	
400-203815-9	MW-8	Water	05/23/21 10:25	05/25/21 09:35	
400-203815-10	MW-9	Water	05/23/21 10:34	05/25/21 09:35	
400-203815-11	MW-10	Water	05/23/21 10:42	05/25/21 09:35	

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lat L 40.00

Job ID: 400-203815-1

Client Sample ID: TB-01

Lab Sample ID: 400-203815-1

Date Collected: 05/23/21 07:00
Matrix: Water
Date Received: 05/25/21 09:35

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			05/27/21 02:52	1
Toluene	<1.0		1.0		ug/L			05/27/21 02:52	1
Ethylbenzene	<1.0		1.0		ug/L			05/27/21 02:52	1
Xylenes, Total	<10		10		ug/L			05/27/21 02:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*78 - 118*		*05/27/21 02:52*	*1*
Dibromofluoromethane	*96*		*81 - 121*		*05/27/21 02:52*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*05/27/21 02:52*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lat L 40.00

Job ID: 400-203815-1

Client Sample ID: DUP-01

Date Collected: 05/23/21 10:45
Date Received: 05/25/21 09:35

Lab Sample ID: 400-203815-2

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			05/27/21 03:16	1
Toluene	<1.0		1.0		ug/L			05/27/21 03:16	1
Ethylbenzene	<1.0		1.0		ug/L			05/27/21 03:16	1
Xylenes, Total	<10		10		ug/L			05/27/21 03:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*78 - 118*		*05/27/21 03:16*	*1*
Dibromofluoromethane	*92*		*81 - 121*		*05/27/21 03:16*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*05/27/21 03:16*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lat L 40.00

Job ID: 400-203815-1

Client Sample ID: MW-1

Date Collected: 05/23/21 09:54
Date Received: 05/25/21 09:35

Lab Sample ID: 400-203815-3

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	170		2.0		ug/L			05/28/21 11:13	2
Toluene	16		2.0		ug/L			05/28/21 11:13	2
Ethylbenzene	260		2.0		ug/L			05/28/21 11:13	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*89*		*78 - 118*		*05/28/21 11:13*	*2*
Dibromofluoromethane	*100*		*81 - 121*		*05/28/21 11:13*	*2*
Toluene-d8 (Surr)	*113*		*80 - 120*		*05/28/21 11:13*	*2*

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	1200		50		ug/L			05/29/21 18:03	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*78 - 118*		*05/29/21 18:03*	*5*
Dibromofluoromethane	*103*		*81 - 121*		*05/29/21 18:03*	*5*
Toluene-d8 (Surr)	*93*		*80 - 120*		*05/29/21 18:03*	*5*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lat L 40.00

Job ID: 400-203815-1

Client Sample ID: MW-2

Date Collected: 05/23/21 09:45
Date Received: 05/25/21 09:35

Lab Sample ID: 400-203815-4

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			05/28/21 09:30	1
Toluene	<1.0		1.0		ug/L			05/28/21 09:30	1
Ethylbenzene	<1.0		1.0		ug/L			05/28/21 09:30	1
Xylenes, Total	<10		10		ug/L			05/28/21 09:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*87*		*78 - 118*		*05/28/21 09:30*	*1*
Dibromofluoromethane	*106*		*81 - 121*		*05/28/21 09:30*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*05/28/21 09:30*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lat L 40.00

Job ID: 400-203815-1

Client Sample ID: MW-3

Date Collected: 05/23/21 09:58
Date Received: 05/25/21 09:35

Lab Sample ID: 400-203815-5

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**33**		1.0		ug/L			05/28/21 09:56	1
Toluene	<1.0		1.0		ug/L			05/28/21 09:56	1
Ethylbenzene	<1.0		1.0		ug/L			05/28/21 09:56	1
Xylenes, Total	<10		10		ug/L			05/28/21 09:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*90*		*78 - 118*		*05/28/21 09:56*	*1*
Dibromofluoromethane	*106*		*81 - 121*		*05/28/21 09:56*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*05/28/21 09:56*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lat L 40.00

Job ID: 400-203815-1

Client Sample ID: MW-4

Lab Sample ID: 400-203815-6

Date Collected: 05/23/21 10:03
Matrix: Water
Date Received: 05/25/21 09:35

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			05/28/21 10:22	1
Toluene	<1.0		1.0		ug/L			05/28/21 10:22	1
Ethylbenzene	<1.0		1.0		ug/L			05/28/21 10:22	1
Xylenes, Total	<10		10		ug/L			05/28/21 10:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*88*		*78 - 118*		*05/28/21 10:22*	*1*
Dibromofluoromethane	*108*		*81 - 121*		*05/28/21 10:22*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*05/28/21 10:22*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lat L 40.00

Job ID: 400-203815-1

Client Sample ID: MW-6

Date Collected: 05/23/21 10:10
Date Received: 05/25/21 09:35

Lab Sample ID: 400-203815-7

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			05/28/21 12:58	1
Toluene	<1.0		1.0		ug/L			05/28/21 12:58	1
Ethylbenzene	<1.0		1.0		ug/L			05/28/21 12:58	1
Xylenes, Total	<10		10		ug/L			05/28/21 12:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*89*		*78 - 118*		*05/28/21 12:58*	*1*
Dibromofluoromethane	*107*		*81 - 121*		*05/28/21 12:58*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*05/28/21 12:58*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lat L 40.00

Job ID: 400-203815-1

Client Sample ID: MW-7

Date Collected: 05/23/21 10:16
Date Received: 05/25/21 09:35

Lab Sample ID: 400-203815-8

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			05/28/21 13:24	1
Toluene	<1.0		1.0		ug/L			05/28/21 13:24	1
Ethylbenzene	<1.0		1.0		ug/L			05/28/21 13:24	1
Xylenes, Total	<10		10		ug/L			05/28/21 13:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*90*		*78 - 118*		*05/28/21 13:24*	*1*
Dibromofluoromethane	*107*		*81 - 121*		*05/28/21 13:24*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*05/28/21 13:24*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lat L 40.00

Job ID: 400-203815-1

Client Sample ID: MW-8

Lab Sample ID: 400-203815-9

Date Collected: 05/23/21 10:25
Date Received: 05/25/21 09:35

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			05/28/21 13:50	1
Toluene	<1.0		1.0		ug/L			05/28/21 13:50	1
Ethylbenzene	<1.0		1.0		ug/L			05/28/21 13:50	1
Xylenes, Total	<10		10		ug/L			05/28/21 13:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*90*		*78 - 118*		*05/28/21 13:50*	*1*
Dibromofluoromethane	*109*		*81 - 121*		*05/28/21 13:50*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*05/28/21 13:50*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lat L 40.00

Job ID: 400-203815-1

Client Sample ID: MW-9

Date Collected: 05/23/21 10:34
Date Received: 05/25/21 09:35

Lab Sample ID: 400-203815-10

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			05/28/21 14:17	1
Toluene	<1.0		1.0		ug/L			05/28/21 14:17	1
Ethylbenzene	<1.0		1.0		ug/L			05/28/21 14:17	1
Xylenes, Total	<10		10		ug/L			05/28/21 14:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*89*		*78 - 118*		*05/28/21 14:17*	*1*
Dibromofluoromethane	*109*		*81 - 121*		*05/28/21 14:17*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*05/28/21 14:17*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lat L 40.00

Job ID: 400-203815-1

Client Sample ID: MW-10

Date Collected: 05/23/21 10:42
Date Received: 05/25/21 09:35

Lab Sample ID: 400-203815-11

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			05/28/21 14:43	1
Toluene	<1.0		1.0		ug/L			05/28/21 14:43	1
Ethylbenzene	<1.0		1.0		ug/L			05/28/21 14:43	1
Xylenes, Total	<10		10		ug/L			05/28/21 14:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*88*		*78 - 118*		*05/28/21 14:43*	*1*
Dibromofluoromethane	*108*		*81 - 121*		*05/28/21 14:43*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*05/28/21 14:43*	*1*

QC Association Summary

Client: Stantec Consulting Services Inc
Project/Site: Lat L 40.00

Job ID: 400-203815-1

GC/MS VOA

Analysis Batch: 533402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-203815-1	TB-01	Total/NA	Water	8260C	
400-203815-2	DUP-01	Total/NA	Water	8260C	
MB 400-533402/4	Method Blank	Total/NA	Water	8260C	
LCS 400-533402/1002	Lab Control Sample	Total/NA	Water	8260C	
400-203795-A-2 MS	Matrix Spike	Total/NA	Water	8260C	
400-203795-A-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260C	

Analysis Batch: 533598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-203815-3	MW-1	Total/NA	Water	8260C	
400-203815-4	MW-2	Total/NA	Water	8260C	
400-203815-5	MW-3	Total/NA	Water	8260C	
400-203815-6	MW-4	Total/NA	Water	8260C	
400-203815-7	MW-6	Total/NA	Water	8260C	
400-203815-8	MW-7	Total/NA	Water	8260C	
400-203815-9	MW-8	Total/NA	Water	8260C	
400-203815-10	MW-9	Total/NA	Water	8260C	
400-203815-11	MW-10	Total/NA	Water	8260C	
MB 400-533598/4	Method Blank	Total/NA	Water	8260C	
LCS 400-533598/1002	Lab Control Sample	Total/NA	Water	8260C	
400-203823-A-11 MS	Matrix Spike	Total/NA	Water	8260C	
400-203823-A-11 MSD	Matrix Spike Duplicate	Total/NA	Water	8260C	

Analysis Batch: 533775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-203815-3 - DL	MW-1	Total/NA	Water	8260C	
MB 400-533775/4	Method Blank	Total/NA	Water	8260C	
LCS 400-533775/1002	Lab Control Sample	Total/NA	Water	8260C	
400-203597-A-3 MS	Matrix Spike	Total/NA	Water	8260C	
400-203597-A-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260C	

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lat L 40.00

Job ID: 400-203815-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 400-533402/4
Matrix: Water
Analysis Batch: 533402

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			05/26/21 18:20	1
Toluene	<1.0		1.0		ug/L			05/26/21 18:20	1
Ethylbenzene	<1.0		1.0		ug/L			05/26/21 18:20	1
Xylenes, Total	<10		10		ug/L			05/26/21 18:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*78 - 118*		*05/26/21 18:20*	*1*
Dibromofluoromethane	*95*		*81 - 121*		*05/26/21 18:20*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*05/26/21 18:20*	*1*

Lab Sample ID: LCS 400-533402/1002
Matrix: Water
Analysis Batch: 533402

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			50.0	55.8		ug/L		112	70 - 130		
Toluene			50.0	54.6		ug/L		109	70 - 130		
Ethylbenzene			50.0	56.0		ug/L		112	70 - 130		
Xylenes, Total			100	111		ug/L		111	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*107*		*78 - 118*
Dibromofluoromethane	*95*		*81 - 121*
Toluene-d8 (Surr)	*102*		*80 - 120*

Lab Sample ID: 400-203795-A-2 MS
Matrix: Water
Analysis Batch: 533402

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<1.0		50.0	49.2		ug/L		98	56 - 142		
Toluene	<1.0		50.0	48.2		ug/L		96	65 - 130		
Ethylbenzene	<1.0		50.0	46.5		ug/L		93	58 - 131		
Xylenes, Total	<10		100	90.9		ug/L		91	59 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*103*		*78 - 118*
Dibromofluoromethane	*95*		*81 - 121*
Toluene-d8 (Surr)	*104*		*80 - 120*

Lab Sample ID: 400-203795-A-2 MSD
Matrix: Water
Analysis Batch: 533402

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<1.0		50.0	51.1		ug/L		102	56 - 142	4	30
Toluene	<1.0		50.0	46.8		ug/L		94	65 - 130	3	30
Ethylbenzene	<1.0		50.0	46.0		ug/L		92	58 - 131	1	30

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lat L 40.00

Job ID: 400-203815-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 400-203795-A-2 MSD
Matrix: Water
Analysis Batch: 533402

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Xylenes, Total	<10		100	89.5		ug/L		89	59 - 130	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*104*		*78 - 118*
Dibromofluoromethane	*94*		*81 - 121*
Toluene-d8 (Surr)	*102*		*80 - 120*

Lab Sample ID: MB 400-533598/4
Matrix: Water
Analysis Batch: 533598

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			05/28/21 08:40	1
Toluene	<1.0		1.0		ug/L			05/28/21 08:40	1
Ethylbenzene	<1.0		1.0		ug/L			05/28/21 08:40	1
Xylenes, Total	<10		10		ug/L			05/28/21 08:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*88*		*78 - 118*		*05/28/21 08:40*	*1*
Dibromofluoromethane	*108*		*81 - 121*		*05/28/21 08:40*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*05/28/21 08:40*	*1*

Lab Sample ID: LCS 400-533598/1002
Matrix: Water
Analysis Batch: 533598

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			50.0	42.0		ug/L		84	70 - 130		
Toluene			50.0	44.0		ug/L		88	70 - 130		
Ethylbenzene			50.0	47.7		ug/L		95	70 - 130		
Xylenes, Total			100	94.5		ug/L		94	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*89*		*78 - 118*
Dibromofluoromethane	*106*		*81 - 121*
Toluene-d8 (Surr)	*102*		*80 - 120*

Lab Sample ID: 400-203823-A-11 MS
Matrix: Water
Analysis Batch: 533598

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	3.4		50.0	44.7		ug/L		83	56 - 142		
Toluene	<1.0		50.0	42.4		ug/L		85	65 - 130		
Ethylbenzene	<1.0		50.0	42.7		ug/L		85	58 - 131		
Xylenes, Total	<10		100	84.3		ug/L		84	59 - 130		

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lat L 40.00

Job ID: 400-203815-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 400-203823-A-11 MS
Matrix: Water
Analysis Batch: 533598

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene	90		78 - 118
Dibromofluoromethane	104		81 - 121
Toluene-d8 (Surr)	100		80 - 120

Lab Sample ID: 400-203823-A-11 MSD
Matrix: Water
Analysis Batch: 533598

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	3.4		50.0	45.2		ug/L		84	56 - 142	1	30
Toluene	<1.0		50.0	43.5		ug/L		87	65 - 130	2	30
Ethylbenzene	<1.0		50.0	43.3		ug/L		87	58 - 131	1	30
Xylenes, Total	<10		100	84.3		ug/L		84	59 - 130	0	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene	90		78 - 118
Dibromofluoromethane	104		81 - 121
Toluene-d8 (Surr)	102		80 - 120

Lab Sample ID: MB 400-533775/4
Matrix: Water
Analysis Batch: 533775

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			05/29/21 16:38	1
Toluene	<1.0		1.0		ug/L			05/29/21 16:38	1
Ethylbenzene	<1.0		1.0		ug/L			05/29/21 16:38	1
Xylenes, Total	<10		10		ug/L			05/29/21 16:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	93		78 - 118		05/29/21 16:38	1
Dibromofluoromethane	105		81 - 121		05/29/21 16:38	1
Toluene-d8 (Surr)	91		80 - 120		05/29/21 16:38	1

Lab Sample ID: LCS 400-533775/1002
Matrix: Water
Analysis Batch: 533775

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			50.0	52.5		ug/L		105	70 - 130		
Toluene			50.0	47.6		ug/L		95	70 - 130		
Ethylbenzene			50.0	50.3		ug/L		101	70 - 130		
Xylenes, Total			100	101		ug/L		101	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	92		78 - 118
Dibromofluoromethane	109		81 - 121

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lat L 40.00

Job ID: 400-203815-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 400-533775/1002
Matrix: Water
Analysis Batch: 533775

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	91		80 - 120

Lab Sample ID: 400-203597-A-3 MS
Matrix: Water
Analysis Batch: 533775

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<1.0		50.0	54.1		ug/L		108	56 - 142
Toluene	<1.0		50.0	45.4		ug/L		91	65 - 130
Ethylbenzene	<1.0		50.0	44.4		ug/L		89	58 - 131
Xylenes, Total	<10		100	89.1		ug/L		89	59 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene	91		78 - 118
Dibromofluoromethane	108		81 - 121
Toluene-d8 (Surr)	91		80 - 120

Lab Sample ID: 400-203597-A-3 MSD
Matrix: Water
Analysis Batch: 533775

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<1.0		50.0	55.2		ug/L		110	56 - 142	2	30
Toluene	<1.0		50.0	47.0		ug/L		94	65 - 130	3	30
Ethylbenzene	<1.0		50.0	45.7		ug/L		91	58 - 131	3	30
Xylenes, Total	<10		100	91.3		ug/L		91	59 - 130	2	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene	92		78 - 118
Dibromofluoromethane	107		81 - 121
Toluene-d8 (Surr)	92		80 - 120

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Lat L 40.00

Job ID: 400-203815-1

Client Sample ID: TB-01
Lab Sample ID: 400-203815-1
Date Collected: 05/23/21 07:00
Matrix: Water
Date Received: 05/25/21 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	533402	05/27/21 02:52	CAR	TAL PEN
	Instrument ID: Argo									

Client Sample ID: DUP-01
Lab Sample ID: 400-203815-2
Date Collected: 05/23/21 10:45
Matrix: Water
Date Received: 05/25/21 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	533402	05/27/21 03:16	CAR	TAL PEN
	Instrument ID: Argo									

Client Sample ID: MW-1
Lab Sample ID: 400-203815-3
Date Collected: 05/23/21 09:54
Matrix: Water
Date Received: 05/25/21 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	5 mL	5 mL	533598	05/28/21 11:13	WPD	TAL PEN
	Instrument ID: CH_TAN									
Total/NA	Analysis	8260C	DL	5	5 mL	5 mL	533775	05/29/21 18:03	SAB	TAL PEN
	Instrument ID: CH_WASP									

Client Sample ID: MW-2
Lab Sample ID: 400-203815-4
Date Collected: 05/23/21 09:45
Matrix: Water
Date Received: 05/25/21 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	533598	05/28/21 09:30	WPD	TAL PEN
	Instrument ID: CH_TAN									

Client Sample ID: MW-3
Lab Sample ID: 400-203815-5
Date Collected: 05/23/21 09:58
Matrix: Water
Date Received: 05/25/21 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	533598	05/28/21 09:56	WPD	TAL PEN
	Instrument ID: CH_TAN									

Client Sample ID: MW-4
Lab Sample ID: 400-203815-6
Date Collected: 05/23/21 10:03
Matrix: Water
Date Received: 05/25/21 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	533598	05/28/21 10:22	WPD	TAL PEN
	Instrument ID: CH_TAN									

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Lat L 40.00

Job ID: 400-203815-1

Client Sample ID: MW-6
Date Collected: 05/23/21 10:10
Date Received: 05/25/21 09:35

Lab Sample ID: 400-203815-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	533598	05/28/21 12:58	WPD	TAL PEN
	Instrument ID: CH_TAN									

Client Sample ID: MW-7
Date Collected: 05/23/21 10:16
Date Received: 05/25/21 09:35

Lab Sample ID: 400-203815-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	533598	05/28/21 13:24	WPD	TAL PEN
	Instrument ID: CH_TAN									

Client Sample ID: MW-8
Date Collected: 05/23/21 10:25
Date Received: 05/25/21 09:35

Lab Sample ID: 400-203815-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	533598	05/28/21 13:50	WPD	TAL PEN
	Instrument ID: CH_TAN									

Client Sample ID: MW-9
Date Collected: 05/23/21 10:34
Date Received: 05/25/21 09:35

Lab Sample ID: 400-203815-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	533598	05/28/21 14:17	WPD	TAL PEN
	Instrument ID: CH_TAN									

Client Sample ID: MW-10
Date Collected: 05/23/21 10:42
Date Received: 05/25/21 09:35

Lab Sample ID: 400-203815-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	533598	05/28/21 14:43	WPD	TAL PEN
	Instrument ID: CH_TAN									

Laboratory References:

TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Accreditation/Certification Summary

Client: Stantec Consulting Services Inc
Project/Site: Lat L 40.00

Job ID: 400-203815-1

Laboratory: Eurofins TestAmerica, Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-21
ANAB	ISO/IEC 17025	L2471	02-23-23
Arizona	State	AZ0710	01-12-22
Arkansas DEQ	State	88-0689	09-02-21
California	State	2510	06-30-21
Florida	NELAP	E81010	06-30-21
Georgia	State	E81010(FL)	06-30-21
Illinois	NELAP	200041	10-09-21
Iowa	State	367	08-01-22
Kansas	NELAP	E-10253	10-31-21
Kentucky (UST)	State	53	06-30-21
Kentucky (WW)	State	KY98030	12-31-21
Louisiana	NELAP	30976	06-30-21
Louisiana (DW)	State	LA017	12-31-21
Maryland	State	233	09-30-21
Massachusetts	State	M-FL094	06-30-21
Michigan	State	9912	06-30-21
New Jersey	NELAP	FL006	06-30-21
North Carolina (WW/SW)	State	314	12-31-21
Oklahoma	State	9810	08-31-21
Pennsylvania	NELAP	68-00467	01-31-22
Rhode Island	State	LAO00307	12-30-21
South Carolina	State	96026	06-30-21
Tennessee	State	TN02907	06-30-21
Texas	NELAP	T104704286	09-30-21
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-21
Washington	State	C915	05-15-22
West Virginia DEP	State	136	06-30-21

Method Summary

Client: Stantec Consulting Services Inc
Project/Site: Lat L 40.00

Job ID: 400-203815-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL PEN
5030B	Purge and Trap	SW846	TAL PEN
5030C	Purge and Trap	SW846	TAL PEN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Eurofins TestAmerica, Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone: 850-474-1001 Fax: 850-478-2671

Chain of Custody Record

400-203815 COC

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Client Information	Sampler: SRL, MW	Lab PM: Edwards, Marty P	Carrier Tracking No(s):	COC No: 400-102792-36529.1
Client Contact: Steve Varsa	Phone: 913 980 0281	E-Mail: Marty.Edwards@Eurofinset.com	State of Origin:	Page: Page 1 of 2 → 1 of 1
Company: Stantec Consulting Services Inc	PWSID:			Job #:
Address: 11153 Aurora Avenue	Due Date Requested:			
City: Des Moines	TAT Requested (days): STD			
State, Zip: IA, 50322-7904	Compliance Project: Δ Yes Δ No			
Phone: 303-291-2239(Tel)	PO #: See Project Notes			
Email: steve.varsa@stantec.com	WO #:			
Project Name: Lat L 40.00	Project #: 40005479			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD	8260C - (MOD) BTEX 8260	8260C - (MOD) BTEX 8260 (unpreserved)	Total Number of containers	Special Instructions/Note:
W-ERH-STW-05-06-2021-SRL-11			Preservation Code:				A	N		
TB-01	5/23/2021	0700	G	Water			2		2	Trip Blank
DUP-01	5/23/2021	1045	G	Water			3		3	Duplicate
MW-1	5/23/2021	0954	G	Water			3		3	
MW-2	5/23/2021	0945	G	Water			3		3	
MW-3	5/23/2021	0958	G	Water			3		3	
MW-4	5/23/2021	1003	G	Water			3		3	
MW-6	5/23/2021	1010	G	Water			3		3	
MW-7	5/23/2021	1016	G	Water			3		3	
MW-8	5/23/2021	1025	G	Water			3		3	
MW-9	5/23/2021	1034	G	Water			3		3	
MW-10	5/23/2021	1042	G	Water			3		3	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by: Sean N Clary	Date/Time: 5/24/2021 0800	Company STW	Received by: Fedex	Date/Time: 5/24/2021 0800	Company Fedex		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 5/25/21 935	Company STG		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company		

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 4.2°C IR7

Ver: 11/01/2020

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc Job Number: 400-203815-1

Login Number: 203815 **List Source: Eurofins TestAmerica, Pensacola**
List Number: 1
Creator: Perez, Trina M

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.2°C IR-7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

Eurofins TestAmerica, Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

Laboratory Job ID: 400-211285-1
Client Project/Site: Lateral L-40

For:
Stantec Consulting Services Inc
11311 Aurora Avenue
Des Moines, Iowa 50322-7904

Attn: Steve Varsa

Cheyenne Whitmire

Authorized for release by:
11/29/2021 8:07:57 PM

Cheyenne Whitmire, Project Manager II
(850)471-6222
Cheyenne.Whitmire@Eurofinset.com

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Stantec Consulting Services Inc
Project/Site: Lateral L-40

Laboratory Job ID: 400-211285-1

Table of Contents

Definitions/Glossary

Client: Stantec Consulting Services Inc
Project/Site: Lateral L-40

Job ID: 400-211285-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Stantec Consulting Services Inc
Project/Site: Lateral L-40

Job ID: 400-211285-1

Job ID: 400-211285-1

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

Job Narrative
400-211285-1

GC/MS VOA
Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-1 (400-211285-3). Elevated reporting limits (RLs) are provided.

Detection Summary

Client: Stantec Consulting Services Inc
Project/Site: Lateral L-40

Job ID: 400-211285-1

Client Sample ID: TB-01 Lab Sample ID: 400-211285-1

No Detections.

Client Sample ID: DUP-01 Lab Sample ID: 400-211285-2

No Detections.

Client Sample ID: MW-1 Lab Sample ID: 400-211285-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	160		2.0		ug/L	2		8260C	Total/NA
Toluene	9.9		2.0		ug/L	2		8260C	Total/NA
Ethylbenzene	140		2.0		ug/L	2		8260C	Total/NA
Xylenes, Total	530		20		ug/L	2		8260C	Total/NA

Client Sample ID: MW-2 Lab Sample ID: 400-211285-4

No Detections.

Client Sample ID: MW-3 Lab Sample ID: 400-211285-5

No Detections.

Client Sample ID: MW-4 Lab Sample ID: 400-211285-6

No Detections.

Client Sample ID: MW-6 Lab Sample ID: 400-211285-7

No Detections.

Client Sample ID: MW-9 Lab Sample ID: 400-211285-8

No Detections.

Client Sample ID: MW-10 Lab Sample ID: 400-211285-9

No Detections.

This Detection Summary does not include radiochemical test results.

Sample Summary

Client: Stantec Consulting Services Inc
Project/Site: Lateral L-40

Job ID: 400-211285-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-211285-1	TB-01	Water	11/13/21 09:00	11/16/21 09:10
400-211285-2	DUP-01	Water	11/13/21 10:50	11/16/21 09:10
400-211285-3	MW-1	Water	11/13/21 10:00	11/16/21 09:10
400-211285-4	MW-2	Water	11/13/21 09:50	11/16/21 09:10
400-211285-5	MW-3	Water	11/13/21 10:10	11/16/21 09:10
400-211285-6	MW-4	Water	11/13/21 10:18	11/16/21 09:10
400-211285-7	MW-6	Water	11/13/21 10:22	11/16/21 09:10
400-211285-8	MW-9	Water	11/13/21 10:29	11/16/21 09:10
400-211285-9	MW-10	Water	11/13/21 10:37	11/16/21 09:10

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lateral L-40

Job ID: 400-211285-1

Client Sample ID: TB-01

Date Collected: 11/13/21 09:00
Date Received: 11/16/21 09:10

Lab Sample ID: 400-211285-1

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/19/21 12:28	1
Toluene	<1.0		1.0		ug/L			11/19/21 12:28	1
Ethylbenzene	<1.0		1.0		ug/L			11/19/21 12:28	1
Xylenes, Total	<10		10		ug/L			11/19/21 12:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*72 - 119*		*11/19/21 12:28*	*1*
Dibromofluoromethane	*104*		*75 - 126*		*11/19/21 12:28*	*1*
Toluene-d8 (Surr)	*86*		*64 - 132*		*11/19/21 12:28*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lateral L-40

Job ID: 400-211285-1

Client Sample ID: DUP-01

Date Collected: 11/13/21 10:50
Date Received: 11/16/21 09:10

Lab Sample ID: 400-211285-2

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/18/21 15:55	1
Toluene	<1.0		1.0		ug/L			11/18/21 15:55	1
Ethylbenzene	<1.0		1.0		ug/L			11/18/21 15:55	1
Xylenes, Total	<10		10		ug/L			11/18/21 15:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*90*		*72 - 119*		*11/18/21 15:55*	*1*
Dibromofluoromethane	*101*		*75 - 126*		*11/18/21 15:55*	*1*
Toluene-d8 (Surr)	*85*		*64 - 132*		*11/18/21 15:55*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lateral L-40

Job ID: 400-211285-1

Client Sample ID: MW-1

Date Collected: 11/13/21 10:00
Date Received: 11/16/21 09:10

Lab Sample ID: 400-211285-3

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**160**		2.0		ug/L			11/18/21 20:17	2
Toluene	**9.9**		2.0		ug/L			11/18/21 20:17	2
Ethylbenzene	**140**		2.0		ug/L			11/18/21 20:17	2
Xylenes, Total	**530**		20		ug/L			11/18/21 20:17	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*89*		*72 - 119*		*11/18/21 20:17*	*2*
Dibromofluoromethane	*96*		*75 - 126*		*11/18/21 20:17*	*2*
Toluene-d8 (Surr)	*87*		*64 - 132*		*11/18/21 20:17*	*2*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lateral L-40

Job ID: 400-211285-1

Client Sample ID: MW-2

Date Collected: 11/13/21 09:50
Date Received: 11/16/21 09:10

Lab Sample ID: 400-211285-4

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/18/21 16:22	1
Toluene	<1.0		1.0		ug/L			11/18/21 16:22	1
Ethylbenzene	<1.0		1.0		ug/L			11/18/21 16:22	1
Xylenes, Total	<10		10		ug/L			11/18/21 16:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*90*		*72 - 119*		*11/18/21 16:22*	*1*
Dibromofluoromethane	*104*		*75 - 126*		*11/18/21 16:22*	*1*
Toluene-d8 (Surr)	*87*		*64 - 132*		*11/18/21 16:22*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lateral L-40

Job ID: 400-211285-1

Client Sample ID: MW-3

Date Collected: 11/13/21 10:10
Date Received: 11/16/21 09:10

Lab Sample ID: 400-211285-5

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/18/21 16:48	1
Toluene	<1.0		1.0		ug/L			11/18/21 16:48	1
Ethylbenzene	<1.0		1.0		ug/L			11/18/21 16:48	1
Xylenes, Total	<10		10		ug/L			11/18/21 16:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*90*		*72 - 119*		*11/18/21 16:48*	*1*
Dibromofluoromethane	*102*		*75 - 126*		*11/18/21 16:48*	*1*
Toluene-d8 (Surr)	*83*		*64 - 132*		*11/18/21 16:48*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lateral L-40

Job ID: 400-211285-1

Client Sample ID: MW-4

Date Collected: 11/13/21 10:18
Date Received: 11/16/21 09:10

Lab Sample ID: 400-211285-6

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/18/21 17:14	1
Toluene	<1.0		1.0		ug/L			11/18/21 17:14	1
Ethylbenzene	<1.0		1.0		ug/L			11/18/21 17:14	1
Xylenes, Total	<10		10		ug/L			11/18/21 17:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*90*		*72 - 119*		*11/18/21 17:14*	*1*
Dibromofluoromethane	*104*		*75 - 126*		*11/18/21 17:14*	*1*
Toluene-d8 (Surr)	*87*		*64 - 132*		*11/18/21 17:14*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lateral L-40

Job ID: 400-211285-1

Client Sample ID: MW-6

Date Collected: 11/13/21 10:22
Date Received: 11/16/21 09:10

Lab Sample ID: 400-211285-7

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/18/21 17:40	1
Toluene	<1.0		1.0		ug/L			11/18/21 17:40	1
Ethylbenzene	<1.0		1.0		ug/L			11/18/21 17:40	1
Xylenes, Total	<10		10		ug/L			11/18/21 17:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*90*		*72 - 119*		*11/18/21 17:40*	*1*
Dibromofluoromethane	*106*		*75 - 126*		*11/18/21 17:40*	*1*
Toluene-d8 (Surr)	*89*		*64 - 132*		*11/18/21 17:40*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lateral L-40

Job ID: 400-211285-1

Client Sample ID: MW-9

Date Collected: 11/13/21 10:29
Date Received: 11/16/21 09:10

Lab Sample ID: 400-211285-8

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/18/21 18:06	1
Toluene	<1.0		1.0		ug/L			11/18/21 18:06	1
Ethylbenzene	<1.0		1.0		ug/L			11/18/21 18:06	1
Xylenes, Total	<10		10		ug/L			11/18/21 18:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*90*		*72 - 119*		*11/18/21 18:06*	*1*
Dibromofluoromethane	*105*		*75 - 126*		*11/18/21 18:06*	*1*
Toluene-d8 (Surr)	*86*		*64 - 132*		*11/18/21 18:06*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lateral L-40

Job ID: 400-211285-1

Client Sample ID: MW-10
Date Collected: 11/13/21 10:37
Date Received: 11/16/21 09:10

Lab Sample ID: 400-211285-9
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/18/21 18:33	1
Toluene	<1.0		1.0		ug/L			11/18/21 18:33	1
Ethylbenzene	<1.0		1.0		ug/L			11/18/21 18:33	1
Xylenes, Total	<10		10		ug/L			11/18/21 18:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*89*		*72 - 119*		*11/18/21 18:33*	*1*
Dibromofluoromethane	*104*		*75 - 126*		*11/18/21 18:33*	*1*
Toluene-d8 (Surr)	*87*		*64 - 132*		*11/18/21 18:33*	*1*

QC Association Summary

Client: Stantec Consulting Services Inc
Project/Site: Lateral L-40

Job ID: 400-211285-1

GC/MS VOA

Analysis Batch: 556388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-211285-2	DUP-01	Total/NA	Water	8260C	
400-211285-3	MW-1	Total/NA	Water	8260C	
400-211285-4	MW-2	Total/NA	Water	8260C	
400-211285-5	MW-3	Total/NA	Water	8260C	
400-211285-6	MW-4	Total/NA	Water	8260C	
400-211285-7	MW-6	Total/NA	Water	8260C	
400-211285-8	MW-9	Total/NA	Water	8260C	
400-211285-9	MW-10	Total/NA	Water	8260C	
MB 400-556388/4	Method Blank	Total/NA	Water	8260C	
LCS 400-556388/1002	Lab Control Sample	Total/NA	Water	8260C	
400-211285-2 MS	DUP-01	Total/NA	Water	8260C	
400-211285-2 MSD	DUP-01	Total/NA	Water	8260C	

Analysis Batch: 556578

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-211285-1	TB-01	Total/NA	Water	8260C	
MB 400-556578/6	Method Blank	Total/NA	Water	8260C	
LCS 400-556578/1002	Lab Control Sample	Total/NA	Water	8260C	
400-211299-A-9 MS	Matrix Spike	Total/NA	Water	8260C	
400-211299-A-9 MSD	Matrix Spike Duplicate	Total/NA	Water	8260C	

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lateral L-40

Job ID: 400-211285-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 400-556388/4
Matrix: Water
Analysis Batch: 556388

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/18/21 11:07	1
Toluene	<1.0		1.0		ug/L			11/18/21 11:07	1
Ethylbenzene	<1.0		1.0		ug/L			11/18/21 11:07	1
Xylenes, Total	<10		10		ug/L			11/18/21 11:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*89*		*72 - 119*		*11/18/21 11:07*	*1*
Dibromofluoromethane	*105*		*75 - 126*		*11/18/21 11:07*	*1*
Toluene-d8 (Surr)	*88*		*64 - 132*		*11/18/21 11:07*	*1*

Lab Sample ID: LCS 400-556388/1002
Matrix: Water
Analysis Batch: 556388

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			50.0	54.3		ug/L		109	70 - 130		
Toluene			50.0	47.1		ug/L		94	70 - 130		
Ethylbenzene			50.0	53.5		ug/L		107	70 - 130		
Xylenes, Total			100	108		ug/L		108	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*85*		*72 - 119*
Dibromofluoromethane	*99*		*75 - 126*
Toluene-d8 (Surr)	*84*		*64 - 132*

Lab Sample ID: 400-211285-2 MS
Matrix: Water
Analysis Batch: 556388

Client Sample ID: DUP-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<1.0		50.0	46.0		ug/L		92	56 - 142		
Toluene	<1.0		50.0	37.0		ug/L		74	65 - 130		
Ethylbenzene	<1.0		50.0	40.9		ug/L		82	58 - 131		
Xylenes, Total	<10		100	84.8		ug/L		85	59 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*88*		*72 - 119*
Dibromofluoromethane	*94*		*75 - 126*
Toluene-d8 (Surr)	*80*		*64 - 132*

Lab Sample ID: 400-211285-2 MSD
Matrix: Water
Analysis Batch: 556388

Client Sample ID: DUP-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<1.0		50.0	51.0		ug/L		102	56 - 142	10	30
Toluene	<1.0		50.0	41.6		ug/L		83	65 - 130	12	30
Ethylbenzene	<1.0		50.0	44.8		ug/L		90	58 - 131	9	30

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lateral L-40

Job ID: 400-211285-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 400-211285-2 MSD
Matrix: Water
Analysis Batch: 556388

Client Sample ID: DUP-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Xylenes, Total	<10		100	91.4		ug/L		91	59 - 130	7	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*91*		*72 - 119*
Dibromofluoromethane	*93*		*75 - 126*
Toluene-d8 (Surr)	*82*		*64 - 132*

Lab Sample ID: MB 400-556578/6
Matrix: Water
Analysis Batch: 556578

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/19/21 10:17	1
Toluene	<1.0		1.0		ug/L			11/19/21 10:17	1
Ethylbenzene	<1.0		1.0		ug/L			11/19/21 10:17	1
Xylenes, Total	<10		10		ug/L			11/19/21 10:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*89*		*72 - 119*		*11/19/21 10:17*	*1*
Dibromofluoromethane	*103*		*75 - 126*		*11/19/21 10:17*	*1*
Toluene-d8 (Surr)	*87*		*64 - 132*		*11/19/21 10:17*	*1*

Lab Sample ID: LCS 400-556578/1002
Matrix: Water
Analysis Batch: 556578

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			50.0	53.6		ug/L		107	70 - 130		
Toluene			50.0	46.7		ug/L		93	70 - 130		
Ethylbenzene			50.0	53.2		ug/L		106	70 - 130		
Xylenes, Total			100	108		ug/L		108	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*90*		*72 - 119*
Dibromofluoromethane	*104*		*75 - 126*
Toluene-d8 (Surr)	*83*		*64 - 132*

Lab Sample ID: 400-211299-A-9 MS
Matrix: Water
Analysis Batch: 556578

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<1.0		50.0	55.3		ug/L		111	56 - 142		
Toluene	<1.0		50.0	45.7		ug/L		91	65 - 130		
Ethylbenzene	<1.0		50.0	51.5		ug/L		103	58 - 131		
Xylenes, Total	<10		100	105		ug/L		105	59 - 130		

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lateral L-40

Job ID: 400-211285-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 400-211299-A-9 MS
Matrix: Water
Analysis Batch: 556578

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene	89		72 - 119
Dibromofluoromethane	100		75 - 126
Toluene-d8 (Surr)	81		64 - 132

Lab Sample ID: 400-211299-A-9 MSD
Matrix: Water
Analysis Batch: 556578

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<1.0		50.0	49.3		ug/L		99	56 - 142	11	30
Toluene	<1.0		50.0	41.1		ug/L		82	65 - 130	11	30
Ethylbenzene	<1.0		50.0	45.7		ug/L		91	58 - 131	12	30
Xylenes, Total	<10		100	92.8		ug/L		93	59 - 130	12	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene	90		72 - 119
Dibromofluoromethane	98		75 - 126
Toluene-d8 (Surr)	82		64 - 132

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Lateral L-40

Job ID: 400-211285-1

Client Sample ID: TB-01
Date Collected: 11/13/21 09:00
Date Received: 11/16/21 09:10

Lab Sample ID: 400-211285-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	556578	11/19/21 12:28	BEP	TAL PEN
	Instrument ID: CH_CONAN									

Client Sample ID: DUP-01
Date Collected: 11/13/21 10:50
Date Received: 11/16/21 09:10

Lab Sample ID: 400-211285-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	556388	11/18/21 15:55	BEP	TAL PEN
	Instrument ID: CH_CONAN									

Client Sample ID: MW-1
Date Collected: 11/13/21 10:00
Date Received: 11/16/21 09:10

Lab Sample ID: 400-211285-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	5 mL	5 mL	556388	11/18/21 20:17	BEP	TAL PEN
	Instrument ID: CH_CONAN									

Client Sample ID: MW-2
Date Collected: 11/13/21 09:50
Date Received: 11/16/21 09:10

Lab Sample ID: 400-211285-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	556388	11/18/21 16:22	BEP	TAL PEN
	Instrument ID: CH_CONAN									

Client Sample ID: MW-3
Date Collected: 11/13/21 10:10
Date Received: 11/16/21 09:10

Lab Sample ID: 400-211285-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	556388	11/18/21 16:48	BEP	TAL PEN
	Instrument ID: CH_CONAN									

Client Sample ID: MW-4
Date Collected: 11/13/21 10:18
Date Received: 11/16/21 09:10

Lab Sample ID: 400-211285-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	556388	11/18/21 17:14	BEP	TAL PEN
	Instrument ID: CH_CONAN									

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Lateral L-40

Job ID: 400-211285-1

Client Sample ID: MW-6
Date Collected: 11/13/21 10:22
Date Received: 11/16/21 09:10

Lab Sample ID: 400-211285-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	556388	11/18/21 17:40	BEP	TAL PEN
	Instrument ID: CH_CONAN									

Client Sample ID: MW-9
Date Collected: 11/13/21 10:29
Date Received: 11/16/21 09:10

Lab Sample ID: 400-211285-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	556388	11/18/21 18:06	BEP	TAL PEN
	Instrument ID: CH_CONAN									

Client Sample ID: MW-10
Date Collected: 11/13/21 10:37
Date Received: 11/16/21 09:10

Lab Sample ID: 400-211285-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	556388	11/18/21 18:33	BEP	TAL PEN
	Instrument ID: CH_CONAN									

Laboratory References:
TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Accreditation/Certification Summary

Client: Stantec Consulting Services Inc
Job ID: 400-211285-1
Project/Site: Lateral L-40

Laboratory: Eurofins TestAmerica, Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-22
ANAB	ISO/IEC 17025	L2471	02-23-23
Arizona	State	AZ0710	01-12-22
Arkansas DEQ	State	88-0689	09-01-22
California	State	2510	06-30-22
Florida	NELAP	E81010	06-30-22
Georgia	State	E81010(FL)	06-30-22
Illinois	NELAP	200041	10-09-22
Iowa	State	367	08-01-22
Kansas	NELAP	E-10253	11-30-21
Kentucky (UST)	State	53	06-30-22
Kentucky (WW)	State	KY98030	12-31-21
Louisiana	NELAP	30976	06-30-22
Louisiana (DW)	State	LA017	12-31-21
Maryland	State	233	09-30-22
Massachusetts	State	M-FL094	06-30-22
Michigan	State	9912	06-30-22
New Jersey	NELAP	FL006	06-30-22
North Carolina (WW/SW)	State	314	12-31-21
Oklahoma	State	9810	08-31-22
Pennsylvania	NELAP	68-00467	01-31-22
Rhode Island	State	LAO00307	12-30-21
South Carolina	State	96026	06-30-22
Tennessee	State	TN02907	06-30-22
Texas	NELAP	T104704286	09-30-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-22
Washington	State	C915	05-15-22
West Virginia DEP	State	136	12-31-21

Method Summary

Client: Stantec Consulting Services Inc
Project/Site: Lateral L-40

Job ID: 400-211285-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL PEN
5030B	Purge and Trap	SW846	TAL PEN
5030C	Purge and Trap	SW846	TAL PEN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Eurofins TestAmerica, Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone: 850-474-1001 Fax: 850-478-2671

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: SRC	Lab PM: Edwards, Marty P	Carrier Tracking No(s):	COC No: 400-105804-37679.1
Client Contact: Steve Varsa	Phone: 913-980-0281	E-Mail: Marty.Edwards@Eurofinset.com	State of Origin:	Page: Page 1 of 1
Company: Stantec Consulting Services Inc	PWSID:			Job #:
Address: 11311 Aurora Avenue	Due Date Requested:			
City: Des Moines	TAT Requested (days):			
State, Zip: IA, 50322-7904	Compliance Project: Δ Yes Δ No			
Phone: 303-291-2239(Tel)	PO #: WD101935			
Email: steve.varsa@stantec.com	WO #:			
Project Name: Lat L 40.00	Project #: 40005479			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

SAH-11

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - (MOD) BTEX 8260	8260C - (MOD) BTEX 8260 (unpreserved)	Total Number of containers	Special Instructions/Note:
Preservation Code:							A	N		
TB-01	11/13/21	0900	G	Water			2		2	Trip Blank
DUP-01	11/13/21	1050	G	Water				3	3	Blind Dup.
MW-1	11/13/21	1000	G	Water				3	3	
MW-2	11/13/21	0950	G	Water				3	3	
MW-3	11/13/21	1010	G	Water				3	3	
MW-4	11/13/21	1018	G	Water				3	3	
MW-6	11/13/21	1022	G	Water			3		3	
MW-9	11/13/21	1029	G	Water				3	3	
MW-10	11/13/21	1037	G	Water				3	3	
				Water						

400-211285 COC

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: Sam N Clary	Date/Time: 11/15/21 0600	Company STN	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 11-16-21 0900	Company ETA
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 0-3°C CF8		

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc Job Number: 400-211285-1

Login Number: 211285 **List Source: Eurofins TestAmerica, Pensacola**
List Number: 1
Creator: Whitley, Adrian

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.3°C IR9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 113012

CONDITIONS

Operator: El Paso Natural Gas Company, L.L.C 1001 Louisiana Street Houston, TX 77002	OGRID: 7046
	Action Number: 113012
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
nvelez	1. Continue with "Planned Future Activities" stated in report. 2. Submit next annual report by March 31, 2023.	3/1/2023