2022 ANNUAL GROUNDWATER REPORT

Fogelson 4-1
Incident Number: nAUTOfAB000192
Meter Code: 73220
T29N, R11W, Sec 4, Unit P

REVIEWED
By Nelson Velez at 11:46 am, May 22, 2023

Review of 2022 Annual Groundwater Report: **Content satisfactory**

1. Proceed with Planned Future Activities as stated in this report.
2. Submit next annual groundwater monitoring report no later than April 1, 2024.

SITE DETAILS

Site Location: Latitude: 36.750660 N, Longitude: -107.991560 W
Land Type: Federal
Former Operator: Burlington Resources (well P&A'd)

SITE BACKGROUND

Environmental remediation activities at Fogelson 4-1 (Site) are being 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 (EPCGP's) program methods. The Site was operated by Burlington Resources Oil & Gas Company LP (BR) until January 2014, and the final reclamation was completed by BR in 2016.

The Site is located on Federal land. An initial site assessment was completed in March 1994, and an excavation of 65 cubic yards (cy), to a depth of approximately 11 feet below ground surface (bgs), was completed in April 1994. Monitoring wells were installed in 1995 (MW-1, MW-2, and MW-3), 2017 (MW-4, MW-5, MW-6, and MW-7), and 2018 (MW-1R [replaced MW-1], MW-8, and MW-9). Monitoring wells MW-10 and MW-11 were advanced and installed in 2022. One soil boring (S-12) was also advanced in 2022. The location of the Site is depicted on Figure 1. A Site Plan map depicting the locations of monitoring wells, soil borings, and current and historical site features is provided as Figure 2.

In August 2001 a nutrient injection of an Oxygen Release Compound was completed. Historically, light non-aqueous phase liquid (LNAPL) has periodically been encountered and recovered from MW-1 and MW-5. Mobile dual-phase extraction (MDPE) events to enhance LNAPL recovery were conducted in 2018 and 2021. Quarterly manual LNAPL recovery began in the second quarter of 2020 and has continued through 2022. Groundwater sampling is being conducted on a semi-annual basis.

MONITORING WELL INSTALLATION ACTIVITIES

The planned monitoring well locations for MW-10, MW-11, and MW-12 were staked for permitting and utility locating purposes prior to completing public 811 locating activities. The advancement and installation of MW-10 was completed in accordance with the March 22, 2022 *Monitoring Well Installation Work Plan* (March 2022 Work Plan), subsequently approved by the NMOCD. The advancement and installation of MW-11 and advancement of MW-12 (advanced but not installed due to drilling auger refusal) were completed in accordance with the September 27, 2022 *Additional Monitoring Well Installation Work Plan* (September 2022 Work Plan) subsequently approved by the NMOCD. The NMOCD was notified of the start of the MW-10 drilling activities on April 11, 2022 and the start of MW-11 and MW-12 drilling activities on September 28, 2022 (Appendix A).

Monitoring well MW-10 was advanced and installed in April 2022 and monitoring well MW-11 was advanced and installed in October 2022. Monitoring well MW-12 was advanced in October 2022 but was not installed due to drilling refusal on bedrock above field-apparent groundwater. The installation of MW-10 and MW-11 served to further characterize the extent of the dissolved-phase hydrocarbons at the

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Site. Ground surface and casing elevations of the new monitoring wells were subsequently surveyed to tie-in to the existing monitoring well network.

During advancement of each monitoring well, one soil sample at MW-10, one soil sample at MW-11, and three soil samples at SB-12 were retained from above the field-interpreted water table and placed in 4-ounce jars for laboratory analysis. Retained sample jars were stored in an ice-filled cooler and shipped under standard chain-of-custody protocols to Eurofins Environment Testing Southeast, LLC, in Pensacola, Florida (Eurofins). The soil samples were analyzed for the presence of benzene, toluene, ethylbenzene, and total xylenes (BTEX) according to United States Environmental Protection Agency (EPA) Method SW846 8021B, gasoline range organics, diesel range organics, and motor oil range organics using EPA Method 8015B; and chloride according to EPA Method 325.2.

The new monitoring wells were constructed of 2-inch-diameter, Schedule 40 polyvinyl chloride (PVC), with 0.010-inch, continuous, factory-slotted PVC screen. Monitoring well MW-10 was installed with a 20 foot well screen, set from 35 to 55 feet bgs. Monitoring well MW-11 was installed with a 25-foot well screen, set from 31 to 56 feet bgs. The monitoring wells were installed at depths that bisected the field-observed or expected water table. A 3-foot seal of bentonite chips was placed above the sandpack and hydrated, and the remaining annular space was filled with bentonite grout. The two monitoring wells were completed as stick-up wells, each with a locking protective casing and a concrete surface completion. Borehole logs and well construction diagrams, and associated New Mexico Office of the State Engineer (NMOSE) forms are provided in Appendix B.

Following advancement, soil boring SB-12 was plugged and abandoned in accordance with NMOSE requirements. A copy of the NMOSE abandonment form for the borehole is included in Appendix C.

Monitoring well development was performed using a down-hole pump until visibly clear groundwater was observed. Development and decontamination water generated during the installation of MW-10 and MW-11, and advancement of SB-12, was containerized and transported to Envirotech, Inc. (Envirotech), located south of Bloomfield, NM for disposal. Copies of the wastewater disposal documentation are included as Appendix D. Soil cuttings were drummed and staged on site for later removal and disposal at Envirotech. Envirotech's soil drum disposal documentation is contained in Appendix E.

GROUNDWATER SAMPLING ACTIVITIES

Pursuant to the Remediation Plan, Stantec provided field work notifications via electronic mail (e-mail) to NMOCD on May 12, 2022, and October 26, 2022, prior to initiating groundwater sampling activities at the Site. Copies of the 2022 NMOCD notifications are provided in Appendix A. On May 21 and October 30, 2022, water levels were gauged at each monitoring well. During both events, groundwater samples were collected from MW-4, MW-6, MW-7, MW-8, MW-9, and MW-10. During the October 30, 2022 event, a groundwater sample was also collected from MW-1R and MW-11. During each sampling event, groundwater samples were collected using HydraSleeve™ (HydraSleeve) no-purge groundwater sampling devices. The HydraSleeves were set during the previous sampling event. 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 screened interval.

The groundwater samples were placed into laboratory-supplied sample containers, packed on ice, and shipped under standard chain-of-custody protocols to Eurofins where they were analyzed for BTEX. One laboratory-provided trip blank and one blind field duplicate were also collected during each groundwater

sampling event. The groundwater samples, field duplicate, and trip blank were analyzed using United States Environmental Protection Agency (EPA) Method 8260.

The unused sample water was combined in a waste container and transported to Envirotech for disposal. Waste disposal documentation is included as Appendix D.

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. Documentation of NMOCD notification of site LNAPL recovery activities in 2022 is provided in Appendix A. LNAPL was observed in monitoring well MW-5 during the March, May, July, and October recovery events in 2022.

The LNAPL recovery data is summarized on Table 1. During the groundwater sampling site visits in May and October, the recovered LNAPL was disposed of with wastewater generated during the monitoring well sampling activities. Recovered LNAPL from the March site visit was transported for disposal at Basin Disposal, Inc. in Bloomfield, NM, and recovered LNAPL from the August site visit was disposed at Envirotech (Appendix D).

SUMMARY TABLES

Historic analytical and water level data are summarized in Table 2 and Table 3, respectively. LNAPL recovery data is summarized on Table 1. Soil analytical data is summarized in Table 4.

SITE MAPS

Groundwater analytical maps (Figures 3 and 5) and groundwater elevation contour maps (Figures 4 and 6) summarize results of the 2022 groundwater sampling and gauging events. Figure 7 summarizes soil sample analytical results.

ANALYTICAL LAB REPORTS

The groundwater analytical lab reports are included as Appendix F. The soil analytical lab report is included in Appendix G.

GROUNDWATER RESULTS

- The groundwater elevations indicate the flow direction at the Site was generally to the northwest during 2022 (see Figures 4 and 6).
- LNAPL was observed in MW-5 during the May and October 2022 sampling events; therefore, no groundwater samples were collected from this location.
- The groundwater samples from both events from MW-10 exceeded the New Mexico Water Quality Control Commission (NMWQCC) standard (10 micrograms per liter [µg/L]) for benzene in groundwater. Benzene was not detected or was detected below the NMWQCC standard in the remaining groundwater samples collected from site monitoring wells in 2022.

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- Concentrations of toluene were either below the NMWQCC standard (750 µg/L) or not detected in the Site monitoring wells sampled in 2022.

- The groundwater samples collected from MW-10 during both events exceeded the NMWQCC standard (750 micrograms per liter [µg/L]) for ethylbenzene in groundwater. Ethylbenzene was not detected or was detected below the NMWQCC standard in the remaining groundwater samples collected from site monitoring wells in 2022.

- The groundwater samples collected from MW-10 during both events exceeded the NMWQCC standard (620 micrograms per liter [µg/L]) for total xylenes in groundwater. Total xylenes were not detected or detected below the NMWQCC standard in the remaining groundwater samples collected from site monitoring wells in 2022.

- Field duplicate samples were collected from monitoring well MW-7 during both events in 2022. There were no significant differences between concentrations in the primary and duplicate samples.

- Detectable concentrations of BTEX constituents were not reported in the trip blanks collected and analyzed as part of the 2022 groundwater monitoring events.

SOIL RESULTS

- Soil samples were collected during advancement of soil boring SB-12 and monitoring wells MW-10 and MW-11. Results are shown in tabular format in Table 4 and graphically in Figure 7.

- Concentrations of benzene were not detected in soil samples collected during advancement of SB-12, MW-10, and MW-11.

- Concentrations of total BTEX were not detected in soil samples collected during advancement of SB-12, MW-10, and MW-11.

- Concentrations of TPH were either less than the applicable NMOCD soil closure criteria (100 mg/kg) or not detected in soil samples collected during advancement of SB-12, MW-10, and MW-11.

- Concentrations of chloride were either less than the applicable NMOCD soil closure criteria (600 mg/kg) or not detected in soil samples collected during advancement of SB-12, MW-10, and MW-11.

PLANNED FUTURE ACTIVITIES

Groundwater monitoring events will continue to be conducted on a semi-annual basis. As site closure is not being recommended at this time, 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 to be conducted in the second calendar quarter of 2023.

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Quarterly site visits will continue at the Site in 2023 to facilitate removal of measurable LNAPL where it is present.

The activities conducted in 2023, and their results, will be summarized in the 2023 Annual Report, to be submitted by April 1, 2024.

TABLES

TABLE 1
LIGHT NON-AQUEOUS PHASE LIQUID RECOVERY SUMMARY

Fogelson 4-1 Com #14						
Well ID - MW-1	**Depth to LNAPL (Feet)**	**Depth to Water (Feet)**	**Measured Thickness (Feet)**	**LNAPL Recovered (gal)**	**Water Recovered (gal)**	**Recovery Type**
Date						
4/16/2016	45.00	45.05	0.05	<0.01	0.01	manual
10/14/2016	45.12	45.12	<0.01	<0.01	0.01	manual
6/10/2017	45.25	45.30	0.05	<0.01	0.01	manual
11/13/2017	45.42	45.43	0.01	<0.01	0.01	manual
5/17/2018	45.48	45.48	<0.01	<0.01	0.01	manual
MW-1 replaced with MW-1R on 9/28/2018						
			Total:	<0.01	0.05	
Well ID - MW-1R						
8/18/2020	47.69	47.69	<0.01	<0.01	0.12	manual
			Total:	0	0.12	
Well ID - MW-5						
11/10/2019	44.87	44.99	0.12	0.08	0.10	manual
5/11/2020	44.84	45.01	0.17	0.46	0.33	manual
8/18/2020	46.03	46.08	0.05	0.05	0.26	manual
11/14/2020	45.06	45.10	0.04	<0.01	0.03	manual
3/17/2021	44.87	45.05	0.18	0.08	0.54	manual
5/22/2021	45.10	45.26	0.16	0.01	0.06	manual
8/27/2021	45.11	45.35	0.24	0.50	20.5	Mobile DPE*
11/14/2021	45.03	45.72	0.69	0.21	0.21	manual
3/22/2022	44.94	45.96	1.02	0.57	0.14	manual
5/21/2022	45.02	45.55	0.53	0.30	0.17	manual
7/29/2022	45.02	45.81	0.79	0.37	0.08	manual
10/30/2022	44.96	46.14	1.18	0.76	0.00	manual
			Total:	3.39	22.42	

Notes:
gal = gallons.
DPE = dual phase extraction
* = Mobile Dual Phase Extraction (DPE) includes calculated recovered hydrocarbon vapors.
"LNAPL" = light non-aqueous phase liquid
LNAPL recovery data for 2015 and previous years documented in previously-submitted reports.

TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

Fogelson 4-1					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-1	11/06/95	1520	1050	907	9180
MW-1	12/06/96	1110	388	713	7730
MW-1	03/10/97	1240	318	850	9050
MW-1	06/06/97	1080	268	747	7700
MW-1	03/30/98	1070	522	789	8430
MW-1	06/04/98	1090	627	837	8880
MW-1	06/15/99	1000	550	770	7800
MW-1	06/19/00	790	280	1100	9300
MW-1	10/02/00	580	600	950	8000
MW-1	12/05/00	420	610	770	6000
MW-1	05/30/01	340	470	710	4800
MW-1	11/26/01	420	330	760	3400
MW-1	05/15/02	430	230	900	6000
MW-1	06/10/02	NS	NS	NS	NS
MW-1	11/04/02	625	370	862	5210
MW-1	05/21/03	339	296	723	4730
MW-1	11/15/03	401	308	755	4700
MW-1	11/16/04	185	59.9	550	2800
MW-1	11/08/05	174	34.3	675	2440
MW-1	11/08/06	206	41.6	694	2460
MW-1	11/29/07	NS	NS	NS	NS
MW-1	01/25/08	NS	NS	NS	NS
MW-1	08/12/08	NS	NS	NS	NS
MW-1	11/07/08	NS	NS	NS	NS
MW-1	02/06/09	NS	NS	NS	NS
MW-1	05/04/09	NS	NS	NS	NS
MW-1	08/26/09	NS	NS	NS	NS
MW-1	11/03/09	230	24.2 J	901	3290
MW-1	02/11/10	NS	NS	NS	NS
MW-1	05/25/10	NS	NS	NS	NS
MW-1	09/24/10	NS	NS	NS	NS
MW-1	11/09/10	198	23.5	840	3170
MW-1	02/01/11	NS	NS	NS	NS
MW-1	05/03/11	NS	NS	NS	NS
MW-1	09/27/11	NS	NS	NS	NS
MW-1	11/16/11	171	3.8 J	818	2770
MW-1	02/16/12	NS	NS	NS	NS
MW-1	05/07/12	NS	NS	NS	NS
MW-1	06/04/13	20	9.3 J	650	2400
MW-1	09/09/13	160	20	760	3200
MW-1	12/13/13	150	41	630	2700

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Fogelson 4-1					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-1	04/05/14	4.3	<0.38	20	76
MW-1	10/21/14	200	11	770	3600
MW-1	05/30/15	160	38	810	3700
MW-1	11/18/15	NS	NS	NS	NS
MW-1	04/16/16	NS	NS	NS	NS
MW-1	10/14/16	NS	NS	NS	NS
MW-1	06/10/17	NS	NS	NS	NS
MW-1	11/13/17	NS	NS	NS	NS
MW-1	05/17/18	NS	NS	NS	<0.01
MW-1 replaced with MW-1R on 9/28/2018					
MW-1R	10/28/18	1.6	<1.0	<1.0	180
MW-1R	05/23/19	2.5	<1.0	<1.0	<10
MW-1R	11/13/19	<1.0	<1.0	<1.0	<10
MW-1R	05/15/20	<1.0	<1.0	<1.0	<10
DUP-1(MW-1R)*	05/15/20	<1.0	<1.0	<1.0	<10
MW-1R	08/18/20	NS	NS	NS	NS
MW-1R	11/14/20	<1.0	<1.0	<1.0	<10
MW-1R	03/17/21	NS	NS	NS	NS
MW-1R	05/22/21	<1.0	<1.0	<1.0	<10
MW-1R	08/27/21	NS	NS	NS	NS
MW-1R	11/14/21	<1.0	<1.0	<1.0	<10
DUP-1(MW-1R)*	11/14/21	<1.0	<1.0	<1.0	<10
MW-1R	03/22/22	NS	NS	NS	NS
MW-1R	05/21/22	NS	NS	NS	NS
MW-1R	07/29/22	NS	NS	NS	NS
MW-1R	10/30/22	<1.0	<1.0	<1.0	<10
MW-2	07/27/00	<0.5	<0.5	8.8	<0.5
MW-2	05/30/01	<0.5	<0.5	7.5	1
MW-2	05/15/02	<0.5	<0.5	2	<1
MW-2	11/04/02	NS	NS	NS	NS
MW-2	05/21/03	NS	NS	NS	NS
MW-2	11/15/03	NS	NS	NS	NS
MW-2	11/16/04	NS	NS	NS	NS
MW-2	11/08/05	NS	NS	NS	NS
MW-2	11/08/06	NS	NS	NS	NS
MW-2	11/29/07	NS	NS	NS	NS
MW-2	08/12/08	NS	NS	NS	NS
MW-2	11/07/08	NS	NS	NS	NS
MW-2	02/06/09	NS	NS	NS	NS
MW-2	05/04/09	NS	NS	NS	NS

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Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-2	08/26/09	NS	NS	NS	NS
MW-2	11/03/09	NS	NS	NS	NS
MW-2	02/11/10	NS	NS	NS	NS
MW-2	05/25/10	NS	NS	NS	NS
MW-2	09/24/10	NS	NS	NS	NS
MW-2	11/09/10	<2	<2	<2	<6
MW-2	02/01/11	NS	NS	NS	NS
MW-2	05/03/11	NS	NS	NS	NS
MW-2	09/27/11	NS	NS	NS	NS
MW-2	11/16/11	<1	<1	<1	<3
MW-2	02/16/12	NS	NS	NS	NS
MW-2	05/07/12	NS	NS	NS	NS
MW-2	06/04/13	<0.14	<0.30	<0.20	<0.23
MW-2	09/09/13	<0.14	<0.30	<0.20	<0.23
MW-2	12/13/13	<0.20	0.52 J	0.38 J	0.85 J
MW-2	04/05/14	<0.20	<0.38	<0.20	<0.65
MW-2	10/21/14	<0.38	<0.70	<0.50	<1.6
MW-2	05/30/15	<1.0	<5.0	<1.0	<5.0
MW-2	11/18/15	<1.0	<1.0	<1.0	<3.0
MW-2	04/16/16	<1.0	<5.0	<1.0	<5.0
MW-2	10/14/16	<1.0	<5.0	<1.0	<5.0
MW-2	06/10/17	<1.0	<5.0	<1.0	<5.0
MW-2	11/13/17	<1.0	<1.0	<1.0	<10
MW-2	05/17/18	<1.0	<1.0	<1.0	<10
MW-2	10/28/18	<1.0	<1.0	<1.0	<10
MW-2	05/23/19	<1.0	<1.0	<1.0	<10
MW-2	11/13/19	NS	NS	NS	NS
MW-2	05/15/20	NS	NS	NS	NS
MW-2	11/14/20	NS	NS	NS	NS
MW-2	05/22/21	<1.0	<1.0	<1.0	<10
MW-2	08/27/21	NS	NS	NS	NS
MW-2	11/14/21	NS	NS	NS	NS
MW-2	05/21/22	NS	NS	NS	NS
MW-2	10/30/22	NS	NS	NS	NS
MW-3	07/27/00	27	35	170	520
MW-3	05/30/01	1.3	<0.5	40	2.8
MW-3	05/15/02	0.64	<0.5	17	1.2
MW-3	11/04/02	NS	NS	NS	NS
MW-3	05/21/03	<1	<1	18.2	<3
MW-3	11/15/03	NS	NS	NS	NS

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Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-3	11/16/04	NS	NS	NS	NS
MW-3	11/08/05	NS	NS	NS	NS
MW-3	11/08/06	NS	NS	NS	NS
MW-3	11/29/07	NS	NS	NS	NS
MW-3	08/12/08	NS	NS	NS	NS
MW-3	11/07/08	NS	NS	NS	NS
MW-3	02/06/09	NS	NS	NS	NS
MW-3	05/04/09	NS	NS	NS	NS
MW-3	08/26/09	NS	NS	NS	NS
MW-3	11/03/09	NS	NS	NS	NS
MW-3	02/11/10	NS	NS	NS	NS
MW-3	05/25/10	NS	NS	NS	NS
MW-3	09/24/10	NS	NS	NS	NS
MW-3	11/09/10	<2	<2	1.9 J	<6
MW-3	02/01/11	NS	NS	NS	NS
MW-3	05/03/11	NS	NS	NS	NS
MW-3	09/27/11	NS	NS	NS	NS
MW-3	11/16/11	<1	<1	0.77 J	<3
MW-3	02/16/12	NS	NS	NS	NS
MW-3	05/07/12	NS	NS	NS	NS
MW-3	06/04/13	<0.14	<0.30	<0.20	<0.23
MW-3	09/09/13	<0.14	<0.30	<0.20	<0.23
MW-3	12/13/13	<0.20	0.56 J	<0.20	<0.65
MW-3	04/05/14	<0.20	<0.38	<0.20	<0.65
MW-3	10/21/14	<0.38	<0.70	0.96 J	<1.6
MW-3	05/30/15	<1.0	<5.0	<1.0	<5.0
MW-3	11/18/15	<1.0	<1.0	<1.0	<3.0
MW-3	04/16/16	<1.0	<5.0	<1.0	<5.0
MW-3	10/14/16	<1.0	<5.0	<1.0	<5.0
MW-3	06/10/17	<1.0	<5.0	<1.0	<5.0
MW-3	11/13/17	<1.0	<1.0	<1.0	<10
MW-3	05/17/18	<1.0	<1.0	<1.0	<10
MW-3	10/28/18	<1.0	<1.0	<1.0	<10
MW-3	05/23/19	<1.0	<1.0	<1.0	<10
MW-3	11/13/19	NS	NS	NS	NS
MW-3	05/15/20	NS	NS	NS	NS
MW-3	11/14/20	NS	NS	NS	NS
MW-3	05/22/21	<1.0	<1.0	<1.0	<10
MW-3	08/27/21	NS	NS	NS	NS
MW-3	11/14/21	NS	NS	NS	NS

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Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-3	05/21/22	NS	NS	NS	NS
MW-3	10/30/22	NS	NS	NS	NS
MW-4	06/10/17	2.8	<5.0	76	<5.0
MW-4	11/13/17	2.6	<1.0	60	<10
MW-4	05/17/18	1.3	<1.0	35	<10
MW-4	10/28/18	1.5	<1.0	31	<10
MW-4	05/23/19	<1.0	<1.0	2.1	<10
DUP-1(MW-4)*	05/23/19	<1.0	<1.0	1.3	<10
MW-4	11/13/19	<1.0	<1.0	2.7	<10
DUP-1(MW-4)*	11/13/19	<1.0	<1.0	2.7	<10
MW-4	05/15/20	<1.0	<1.0	<1.0	<10
MW-4	11/14/20	<1.0	<1.0	<1.0	<10
MW-4	05/22/21	<1.0	<1.0	<1.0	<10
MW-4	08/27/21	NS	NS	NS	NS
MW-4	11/14/21	<1.0	<1.0	<1.0	<10
MW-4	05/21/22	<1.0	<1.0	<1.0	<10
MW-4	10/30/22	<1.0	<1.0	<1.0	<10
MW-5	06/10/17	24	<10	2.4	120
MW-5	11/13/17	24	<2.0	210	<20
MW-5	05/17/18	25	<2.0	280	<20
MW-5	10/28/18	25	<1.0	290	<10
DUP-01(MW-5)*	10/28/18	24	<1.0	260	<10
MW-5	05/23/19	24	<2.0	310	<20
MW-5	11/13/19	NS	NS	NS	NS
MW-5	05/15/20	NS	NS	NS	NS
MW-5	08/18/20	NS	NS	NS	NS
MW-5	11/14/20	NS	NS	NS	NS
MW-5	03/17/21	NS	NS	NS	NS
MW-5	05/22/21	NS	NS	NS	NS
MW-5	08/27/21	NS	NS	NS	NS
MW-5	11/14/21	NS	NS	NS	NS
MW-5	03/22/22	NS	NS	NS	NS
MW-5	05/21/22	NS	NS	NS	NS
MW-5	07/29/22	NS	NS	NS	NS
MW-5	10/30/22	NS	NS	NS	NS
MW-6	06/10/17	<1.0	<5.0	<1.0	<5.0
MW-6	11/13/17	<1.0	<1.0	<1.0	<10

TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

Fogelson 4-1					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-6	05/17/18	1.7	<1.0	<1.0	<10
MW-6	10/28/18	<1.0	<1.0	<1.0	<10
MW-6	05/23/19	<1.0	<1.0	<1.0	<10
MW-6	11/13/19	<1.0	<1.0	<1.0	<10
MW-6	05/15/20	<1.0	<1.0	<1.0	<10
MW-6	11/14/20	<1.0	1.2	<1.0	<10
MW-6	05/22/21	<1.0	<1.0	<1.0	<10
MW-6	08/27/21	NS	NS	NS	NS
MW-6	11/14/21	<1.0	<1.0	<1.0	<10
MW-6	05/21/22	<1.0	<1.0	<1.0	<10
MW-6	10/30/22	<1.0	<1.0	<1.0	<10
MW-7	06/10/17	130	<10	150	580
MW-7	11/13/17	83	<1.0	110	96
MW-7	05/17/18	61	<1.0	89	21
DP-01(MW-7)*	05/17/18	63	<1.0	97	23
MW-7	10/28/18	50	<1.0	58	<10
MW-7	05/23/19	53	<1.0	62	<10
MW-7	11/13/19	18	<1.0	24	<10
MW-7	05/15/20	12	<1.0	16	<10
MW-7	11/14/20	12	<1.0	17	<10
DP-01(MW-7)*	11/14/20	14	<1.0	23	<10
MW-7	05/22/21	9.0	<1.0	9.0	<10
DP-01(MW-7)*	05/22/21	9.1	<1.0	9.0	<10
MW-7	08/27/21	NS	NS	NS	NS
MW-7	11/14/21	8.7	<1.0	6.4	<10
MW-7	05/21/22	5.1	<1.0	1.9	<10
DP-01(MW-7)*	05/21/22	4.6	<1.0	1.3	<10
MW-7	10/30/22	9.0	<1.0	2.1	<10
DP-01(MW-7)*	10/30/22	9.2	<1.0	2.9	<10
MW-8	10/28/18	1.7	<1.0	1.2	<10
MW-8	05/23/19	2.7	<1.0	1.1	<10
MW-8	11/13/19	1.8	<1.0	<1.0	<10
MW-8	05/15/20	<1.0	<1.0	<1.0	<10
MW-8	11/14/20	1.1	<1.0	<1.0	<10
MW-8	05/22/21	1.4	<1.0	3.0	<10
MW-8	08/27/21	NS	NS	NS	NS
MW-8	11/14/21	1.4	<1.0	<1.0	<10

TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

Fogelson 4-1					
Location	**Date**	**Benzene (µg/L)**	**Toluene (µg/L)**	**Ethylbenzene (µg/L)**	**Total Xylenes (µg/L)**
NMWQCC Standards:		10	750	750	620
MW-8	05/21/22	<1.0	<1.0	<1.0	<10
MW-8	10/30/22	<1.0	<1.0	<1.0	<10
MW-9	10/28/18	<1.0	<1.0	<1.0	<10
MW-9	05/23/19	<1.0	<1.0	<1.0	<10
MW-9	11/13/19	<1.0	<1.0	<1.0	<10
MW-9	05/15/20	<1.0	<1.0	<1.0	<10
MW-9	11/14/20	<1.0	<1.0	<1.0	<10
MW-9	05/22/21	<1.0	<1.0	<1.0	<10
MW-9	08/27/21	NS	NS	NS	NS
MW-9	11/14/21	<1.0	<1.0	<1.0	<10
MW-9	05/21/22	<1.0	<1.0	<1.0	<10
MW-9	10/30/22	<1.0	<1.0	<1.0	<10
MW-10	05/21/22	69	11	880	3100
MW-10	10/30/22	54	<5.0	1000	2100
MW-11	10/30/22	<1.0	<1.0	<1.0	<10

Notes:
The groundwater monitoring dates for each monitoring well 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 result

TABLE 3 - GROUNDWATER ELEVATION RESULTS

Fogelson 4-1						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-1	11/06/95	5784.77	NR	39.99		5744.78
MW-1	12/06/96	5784.77	NR	40.74		5744.03
MW-1	03/10/97	5784.77	NR	41.23		5743.54
MW-1	06/06/97	5784.77	NR	41.44		5743.33
MW-1	03/30/98	5784.77	NR	41.08		5743.69
MW-1	06/04/98	5784.77	NR	41.02		5743.75
MW-1	06/15/99	5784.77	NR	41.88		5742.89
MW-1	06/19/00	5784.77	NR	40.17		5744.60
MW-1	10/02/00	5784.77	NR	40.22		5744.55
MW-1	12/05/00	5784.77	NR	40.09		5744.68
MW-1	05/30/01	5784.77	NR	40.54		5744.23
MW-1	11/26/01	5784.77	NR	41.00		5743.77
MW-1	05/15/02	5784.77	NR	41.37		5743.40
MW-1	06/10/02	5784.77	NR	41.54		5743.23
MW-1	11/04/02	5784.77	NR	41.90		5742.88
MW-1	05/21/03	5784.77	ND	41.57		5743.20
MW-1	11/15/03	5784.77	ND	41.00		5743.77
MW-1	11/16/04	5784.77	ND	40.10		5744.67
MW-1	11/08/05	5784.77	ND	40.68		5744.09
MW-1	11/08/06	5784.77	ND	42.16		5742.61
MW-1	11/29/07	5784.77	ND	42.16		5742.61
MW-1	01/25/08	5784.77	43.00	43.10	0.10	5741.75
MW-1	08/12/08	5784.77	ND	43.14		5741.63
MW-1	11/07/08	5784.77	43.24	43.32	0.08	5741.51
MW-1	02/06/09	5784.77	ND	43.12		5741.65
MW-1	05/04/09	5784.77	ND	43.22		5741.55
MW-1	08/26/09	5784.77	43.46	43.53	0.07	5741.29
MW-1	11/03/09	5784.77	ND	43.52		5741.25
MW-1	02/11/10	5784.77	ND	43.64		5741.13
MW-1	05/25/10	5784.77	ND	43.75		5741.02
MW-1	09/24/10	5784.77	ND	43.95		5740.82
MW-1	11/09/10	5784.77	43.88	43.89	0.01	5740.89
MW-1	02/01/11	5784.77	ND	44.03		5740.74
MW-1	05/03/11	5784.77	ND	44.14		5740.63
MW-1	09/27/11	5784.77	ND	44.30		5740.47
MW-1	11/16/11	5784.77	ND	44.33		5740.44
MW-1	02/16/12	5784.77	ND	44.43		5740.34
MW-1	05/07/12	5784.77	ND	44.50		5740.27
MW-1	06/04/13	5784.77	ND	44.75		5740.02
MW-1	09/09/13	5784.77	ND	44.87		5739.90
MW-1	12/13/13	5784.77	ND	44.85		5739.92
MW-1	04/05/14	5784.77	ND	44.75		5740.02
MW-1	10/21/14	5784.77	ND	44.86		5739.91
MW-1	05/30/15	5784.77	ND	44.81		5739.96
MW-1	11/18/15	5784.77	44.91	44.91	<0.01	5739.86
MW-1	04/16/16	5784.77	45.00	45.05	0.05	5739.76
MW-1	10/14/16	5784.77	45.12	45.12	<0.01	5739.65
MW-1	06/10/17	5784.77	45.25	45.30	0.05	5739.51
MW-1	11/13/17	5784.77	45.42	45.43	0.01	5739.35
MW-1	05/05/18	5784.77	ND	45.49		5739.28
MW-1	05/17/18	5784.77	45.48	45.48	<0.01	5739.29
MW-1 replaced with MW-1R on 9/28/2018						
MW-1R	10/28/18	5784.02	ND	48.27		5735.75
MW-1R	05/23/19	5784.02	ND	47.00		5737.02

TABLE 3 - GROUNDWATER ELEVATION RESULTS

Fogelson 4-1						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-1R	11/13/19	5784.02	ND	47.32		5736.70
MW-1R	05/15/20	5784.02	ND	47.32		5736.70
MW-1R	08/18/20	5784.02	47.69	47.69		5736.33
MW-1R	11/14/20	5784.02	ND	47.45		5736.57
MW-1R	03/17/21	5784.02	ND	47.46		5736.56
MW-1R	05/22/21	5784.02	ND	47.56		5736.46
MW-1R	08/27/21	5784.02	ND	47.70		5736.32
MW-1R	11/14/21	5784.02	ND	47.84		5736.18
MW-1R	03/22/22	5784.02	ND	47.65		5736.37
MW-1R	05/21/22	5784.02	ND	47.70		5736.32
MW-1R	07/29/22	5784.02	ND	47.95		5736.07
MW-1R	10/30/22	5784.02	ND	47.99		5736.03
MW-2	07/27/00	5780.03	NR	38.25		5741.78
MW-2	05/30/01	5780.03	NR	38.17		5741.86
MW-2	05/15/02	5780.03	NR	38.56		5741.47
MW-2	11/04/02	5780.03	NR	38.99		5741.05
MW-2	05/21/03	5780.03	ND	39.24		5740.79
MW-2	11/15/03	5780.03	ND	38.70		5741.34
MW-2	11/16/04	5780.03	ND	37.40		5742.63
MW-2	11/08/05	5780.03	ND	37.76		5742.27
MW-2	11/08/06	5780.03	ND	38.65		5741.38
MW-2	11/29/07	5780.03	ND	39.67		5740.36
MW-2	08/12/08	5780.03	ND	39.75		5740.28
MW-2	11/07/08	5780.03	ND	39.97		5740.06
MW-2	02/06/09	5780.03	ND	39.73		5740.30
MW-2	05/04/09	5780.03	ND	39.83		5740.20
MW-2	08/26/09	5780.03	ND	40.19		5739.84
MW-2	11/03/09	5780.03	ND	40.32		5739.71
MW-2	02/11/10	5780.03	ND	40.17		5739.86
MW-2	05/25/10	5780.03	ND	40.40		5739.63
MW-2	09/24/10	5780.03	ND	40.74		5739.29
MW-2	11/09/10	5780.03	ND	40.35		5739.68
MW-2	02/01/11	5780.03	ND	40.39		5739.64
MW-2	05/03/11	5780.03	ND	40.96		5739.07
MW-2	09/27/11	5780.03	ND	41.05		5738.98
MW-2	11/16/11	5780.03	ND	41.07		5738.96
MW-2	02/16/12	5780.03	ND	41.15		5738.88
MW-2	05/07/12	5780.03	ND	41.15		5738.88
MW-2	06/04/13	5780.03	ND	41.54		5738.49
MW-2	09/09/13	5780.03	ND	41.64		5738.39
MW-2	12/13/13	5780.03	ND	41.66		5738.37
MW-2	04/05/14	5780.03	ND	41.64		5738.39
MW-2	10/21/14	5780.03	ND	41.93		5738.10
MW-2	05/30/15	5780.03	ND	42.10		5737.93
MW-2	11/18/15	5780.03	ND	42.03		5738.00
MW-2	04/16/16	5780.03	ND	42.01		5738.02
MW-2	10/14/16	5780.03	ND	42.38		5737.65
MW-2	06/10/17	5780.03	ND	42.08		5737.95
MW-2	11/13/17	5780.03	ND	42.24		5737.79
MW-2	05/17/18	5780.03	ND	42.12		5737.91
MW-2	10/28/18	5780.03	ND	42.51		5737.52
MW-2	05/23/19	5780.03	ND	42.31		5737.72
MW-2	11/13/19	5780.03	ND	42.58		5737.45
MW-2	05/15/20	5780.03	ND	42.64		5737.39
MW-2	11/14/20	5780.03	ND	42.78		5737.25
MW-2	05/22/21	5780.03	ND	42.90		5737.13
MW-2	08/27/21	5780.03	ND	42.99		5737.04
MW-2	11/14/21	5780.03	ND	43.11		5736.92

TABLE 3 - GROUNDWATER ELEVATION RESULTS

Fogelson 4-1						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-2	05/21/22	5780.03	ND	43.07		5736.96
MW-2	10/30/22	5780.03	ND	43.18		5736.85
MW-3	07/27/00	5780.83	NR	41.21		5739.62
MW-3	05/30/01	5780.83	NR	40.77		5740.06
MW-3	05/15/02	5780.83	NR	41.14		5739.69
MW-3	11/04/02	5780.83	NR	41.48		5739.35
MW-3	05/21/03	5780.83	ND	41.71		5739.12
MW-3	11/15/03	5780.83	ND	41.30		5739.53
MW-3	11/16/04	5780.83	ND	40.10		5740.73
MW-3	11/08/05	5780.83	ND	40.71		5740.12
MW-3	11/08/06	5780.83	ND	41.47		5739.36
MW-3	11/29/07	5780.83	43.01	43.10	0.09	5737.80
MW-3	08/12/08	5780.83	ND	42.47		5738.36
MW-3	11/07/08	5780.83	ND	42.69		5738.14
MW-3	02/06/09	5780.83	ND	42.47		5738.36
MW-3	05/04/09	5780.83	ND	42.50		5738.33
MW-3	08/26/09	5780.83	ND	42.90		5737.93
MW-3	11/03/09	5780.83	ND	43.03		5737.80
MW-3	02/11/10	5780.83	ND	42.79		5738.04
MW-3	05/25/10	5780.83	ND	42.97		5737.86
MW-3	09/24/10	5780.83	ND	43.25		5737.58
MW-3	11/09/10	5780.83	ND	42.97		5737.86
MW-3	02/01/11	5780.83	ND	42.82		5738.01
MW-3	05/03/11	5780.83	ND	43.41		5737.42
MW-3	09/27/11	5780.83	ND	43.40		5737.43
MW-3	11/16/11	5780.83	ND	43.36		5737.47
MW-3	02/16/12	5780.83	ND	43.41		5737.42
MW-3	05/07/12	5780.83	ND	43.46		5737.37
MW-3	06/04/13	5780.83	ND	43.82		5737.01
MW-3	09/09/13	5780.83	ND	43.93		5736.90
MW-3	12/13/13	5780.83	ND	43.93		5736.90
MW-3	04/05/14	5780.83	ND	43.88		5736.95
MW-3	10/21/14	5780.83	ND	44.16		5736.67
MW-3	05/30/15	5780.83	ND	44.31		5736.52
MW-3	11/18/15	5780.83	ND	44.18		5736.65
MW-3	04/16/16	5780.83	ND	44.10		5736.73
MW-3	10/14/16	5780.83	ND	44.58		5736.25
MW-3	06/10/17	5780.83	ND	44.25		5736.58
MW-3	11/13/17	5780.83	ND	44.44		5736.39
MW-3	05/17/18	5780.83	ND	44.32		5736.51
MW-3	10/28/18	5780.83	ND	44.67		5736.16
MW-3	05/23/19	5780.83	ND	44.37		5736.46
MW-3	11/13/19	5780.83	ND	44.70		5736.13
MW-3	05/15/20	5780.83	ND	44.72		5736.11
MW-3	11/14/20	5780.83	ND	44.85		5735.98
MW-3	05/22/21	5780.83	ND	45.09		5735.74
MW-3	08/27/21	5780.83	ND	45.22		5735.61
MW-3	11/14/21	5780.83	ND	45.30		5735.53
MW-3	05/21/22	5780.83	ND	45.30		5735.53
MW-3	10/30/22	5780.83	ND	45.34		5735.49
MW-4	06/10/17	5782.14	ND	46.36		5735.78
MW-4	11/13/17	5782.14	ND	46.49		5735.65

TABLE 3 - GROUNDWATER ELEVATION RESULTS

Fogelson 4-1						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-4	05/17/18	5782.14	ND	46.49		5735.65
MW-4	10/28/18	5782.14	ND	46.74		5735.40
MW-4	05/23/19	5782.14	ND	46.67		5735.47
MW-4	11/13/19	5782.14	ND	46.75		5735.39
MW-4	05/15/20	5782.14	ND	46.83		5735.31
MW-4	11/14/20	5782.14	ND	46.95		5735.19
MW-4	05/22/21	5782.14	ND	47.03		5735.11
MW-4	08/27/21	5782.14	ND	47.05		5735.09
MW-4	11/14/21	5782.14	ND	47.07		5735.07
MW-4	05/21/22	5782.14	ND	47.13		5735.01
MW-4	10/30/22	5782.14	ND	47.12		5735.02
MW-5	06/10/17	5780.92	ND	44.21		5736.71
MW-5	11/13/17	5780.92	ND	44.49		5736.43
MW-5	05/17/18	5780.92	ND	44.56		5736.36
MW-5	10/28/18	5780.92	ND	44.74		5736.18
MW-5	05/23/19	5780.92	ND	44.73		5736.19
MW-5	11/13/19	5780.92	44.87	44.99	0.12	5736.02
MW-5	05/15/20	5780.92	44.84	45.01	0.17	5736.04
MW-5	08/18/20	5780.92	46.03	46.08	0.05	5734.88
MW-5	11/14/20	5780.92	45.06	45.10	0.04	5735.85
MW-5	03/17/21	5780.92	44.87	45.05	0.18	5736.01
MW-5	05/22/21	5780.92	45.10	45.26	0.16	5735.78
MW-5	08/27/21	5780.92	45.11	45.35	0.24	5735.75
MW-5	11/14/21	5780.92	45.03	45.72	0.69	5735.72
MW-5	03/22/22	5780.92	44.94	45.96	1.02	5735.73
MW-5	05/21/22	5780.92	45.02	45.55	0.53	5735.77
MW-5	07/29/22	5780.92	45.02	45.81	0.79	5735.70
MW-5	10/30/22	5780.92	44.96	46.14	1.18	5735.67
MW-6	06/10/17	5783.82	ND	47.78		5736.04
MW-6	11/13/17	5783.82	ND	48.03		5735.79
MW-6	05/17/18	5783.82	ND	47.85		5735.97
MW-6	10/28/18	5783.82	ND	48.11		5735.71
MW-6	05/23/19	5783.82	ND	47.48		5736.34
MW-6	11/13/19	5783.82	ND	47.92		5735.90
MW-6	05/15/20	5783.82	ND	47.85		5735.97
MW-6	11/14/20	5783.82	ND	47.94		5735.88
MW-6	05/22/21	5783.82	ND	48.06		5735.76
MW-6	08/27/21	5783.82	ND	48.20		5735.62
MW-6	11/14/21	5783.82	ND	48.37		5735.45
MW-6	05/21/22	5783.82	ND	48.19		5735.63
MW-6	10/30/22	5783.82	ND	48.38		5735.44
MW-7	06/10/17	5783.95	ND	43.89		5740.06
MW-7	11/13/17	5783.95	ND	44.09		5739.86
MW-7	05/17/18	5783.95	ND	44.12		5739.83
MW-7	10/28/18	5783.95	ND	44.30		5739.65
MW-7	05/23/19	5783.95	ND	44.33		5739.62
MW-7	11/13/19	5783.95	ND	44.51		5739.44
MW-7	05/15/20	5783.95	ND	44.60		5739.35
MW-7	11/14/20	5783.95	ND	44.76		5739.19
MW-7	05/22/21	5783.95	ND	44.84		5739.11
MW-7	08/27/21	5783.95	ND	44.90		5739.05
MW-7	11/14/21	5783.95	ND	44.96		5738.99

TABLE 3 - GROUNDWATER ELEVATION RESULTS

Fogelson 4-1						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-7	05/21/22	5783.95	ND	45.00		5738.99
MW-7	10/30/22	5783.95	ND	45.14		5738.99
MW-8	10/28/18	5784.44	ND	43.30		5741.14
MW-8	05/23/19	5784.44	ND	42.65		5741.79
MW-8	11/13/19	5784.44	ND	42.65		5741.79
MW-8	05/15/20	5784.44	ND	42.54		5741.90
MW-8	11/14/20	5784.44	ND	42.88		5741.56
MW-8	05/22/21	5784.44	ND	44.05		5740.39
MW-8	08/27/21	5784.44	ND	44.22		5740.22
MW-8	11/14/21	5784.44	ND	44.51		5739.93
MW-8	05/21/22	5784.44	ND	44.39		5740.05
MW-8	10/30/22	5784.44	ND	44.28		5740.16
MW-9	10/28/18	5784.19	ND	49.66		5734.53
MW-9	05/23/19	5784.19	ND	49.41		5734.78
MW-9	11/13/19	5784.19	ND	49.48		5734.71
MW-9	05/15/20	5784.19	ND	49.52		5734.67
MW-9	11/14/20	5784.19	ND	49.61		5734.58
MW-9	05/22/21	5784.19	ND	49.85		5734.34
MW-9	08/27/21	5784.19	ND	49.67		5734.52
MW-9	11/14/21	5784.19	ND	49.71		5734.48
MW-9	05/21/22	5784.19	ND	49.72		5734.47
MW-9	10/30/22	5784.19	ND	49.71		5734.48
MW-10	05/21/22	5783.11	ND	48.72		5734.39
MW-10	10/30/22	5783.11	ND	48.50		5734.61
MW-11	10/30/22	5782.08	ND	57.33		5724.75

Notes:
"ft" = feet
"TOC" = Top of casing
"LNAPL" = light non-aqueous phase liquid
"ND" = LNAPL not detected
"NR" = LNAPL not recorded
Groundwater elevation = Top of Casing elevation (TOC, ft) - Depth to Water [ft] + (LPH 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)

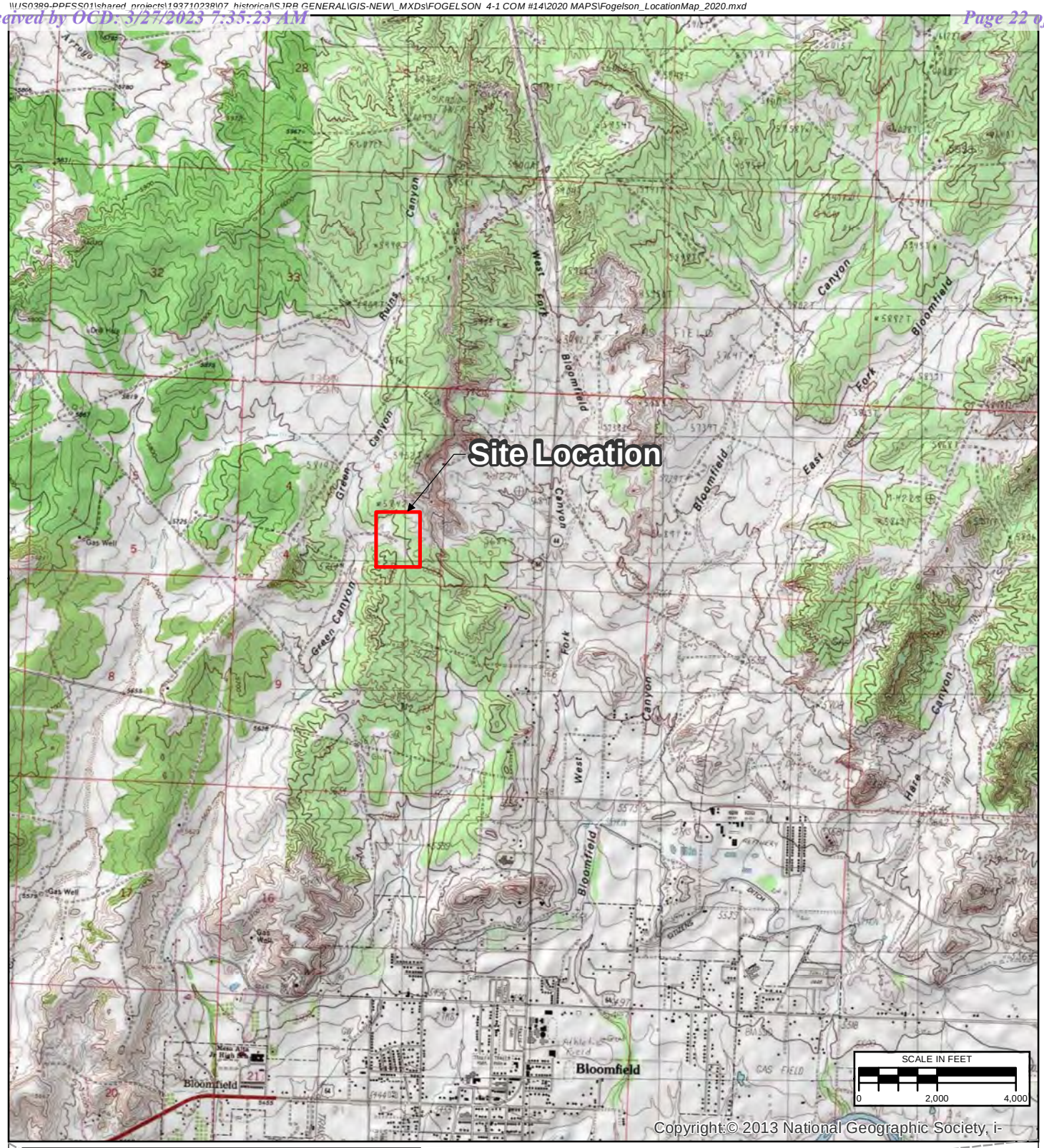
TABLE 4 - SOIL ANALYTICAL RESULTS

Fogelson 4-1 Com #14 Soil Results											
Location (depth in feet bgs)	**Date (mm/dd/yy)**	**Benzene (mg/kg)**	**Toluene (mg/kg)**	**Ethylbenzene (mg/kg)**	**Total Xylenes (mg/kg)**	**BTEX Total (mg/kg)**	**GRO C6-10 (mg/kg)**	**DRO C10-28 (mg/kg)**	**MRO C28-35 (mg/kg)**	**TPH (mg/kg)**	**Chloride (mg/kg)**
	NMOCD Criteria:	10	NE	NE	NE	50	NE	NE	NE	100	600
MW-4 (39-40)	04/07/17	BRL	3.1	1.6	1.2	5.9	200	130	BRL	**330**	BRL
MW-5 (42-43)	04/08/17	BRL	3.8	2.8	12	18.6	540	250	BRL	**790**	BRL
MW-6 (19-20)	04/08/17	BRL	BRL	0.087	0.35	0.44	40	43	BRL	83	BRL
MW-7 (38-39)	04/08/17	BRL	5.3	3.7	26	35	780	270	BRL	**1050**	BRL
SB-1 (19-20)	04/09/17	BRL	12	4.0	150	**166**	5700	3300	11	**9011**	BRL
SB-1 (29-30)	04/09/17	BRL	8.0	1.4	68	**77**	1300	600	BRL	**1900**	BRL
SB-1 (38-39)	04/09/17	BRL	9.0	3.1	55	**67**	620	110	BRL	**730**	BRL
MW-8 (38-39)	09/28/18	BRL	0.35	0.092	0.29	0.73	65	140	BRL	**205**	99
MW-9 (19-20)	09/28/18	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
MW-10 (39-40)	04/20/22	BRL	BRL	BRL	BRL	BRL	0.30	64	8.4	72.7	34
MW-11 (40-41)	10/04/22	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
SB-12 (25-26)	10/04/22	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
SB-12 (32-33)	10/05/22	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
SB-12 (42-43)	10/05/22	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL

Notes:

mg/kg	Milligrams per kilogram
BRL	Below Reporting Limits
NE	New Mexico Oil Conservation Division (NMOCD) Standard Not Established
BTEX	Benzene, toluene, ethylbenzene, xylenes
GRO	Gasoline range organics
DRO	Diesel range organics
MRO	Motor oil range organics
Total BTEX	Sum of the detectable concentrations of individual BTEX constituents
TPH	Total Petroleum Hydrocarbon concentration is calculated by adding the detectable concentrations of GRO, DRO, and MRO and rounded to the nearest mg/kg.
NMOCD Criteria	New Mexico Oil Conservation Division closure criteria for groundwater ≤50 feet below bottom of pit to groundwater less than 10,000 mg/L TDS
	Results bolded and highlighted yellow exceed their respective NMOCD Standards
Shaded	Soil sample interval appears to be submerged based on available static water level gauging data.

FIGURES



N

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	2/16/2021	SAH	SAH	SRV

TITLE

SITE LOCATION

Stantec

PROJECT

FOGELSON 4-1
SAN JUAN RIVER BASIN
SAN JUAN COUNTY, NEW MEXICO

FIGURE

1

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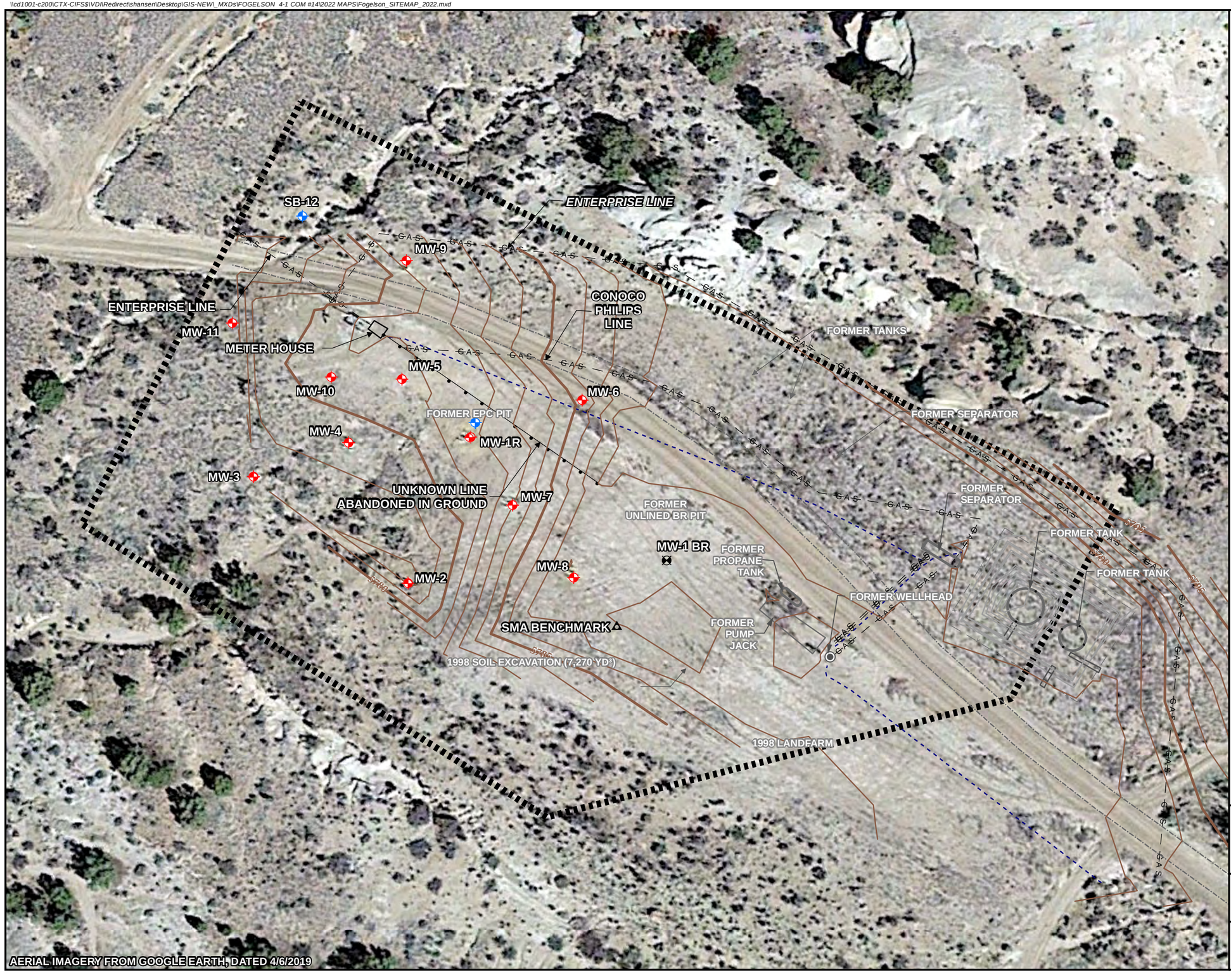

LEGEND:

- 5795 — APPROX. GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- FORMER PIT OR EXCAVATION
- GAS — GAS LINE
- UNDERGROUND CABLE
- RIGHT OF WAY BOUNDARY
- MONITORING WELL
- SOIL BORING
- FORMER WELLHEAD
- SMA BENCHMARK
- FORMER MONITORING WELL (NOT EPCGP-OWNED)

N

SCALE IN FEET

0 40 80

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	2023-02-07	SAH	SAH	SRV

TITLE:

SITE PLAN

PROJECT:

FOGELSON 4-1
SAN JUAN RIVER BASIN
SAN JUAN COUNTY, NEW MEXICO

Stantec

Figure No.: **2**

\\Corp.ads\data\Virtual_Workspace\workgroup\1937\Active\193700102\03_data\gis_cad\gis\GIS-NEW_MXDs\FOGELSON 4-1 COM #14\2022 MAPS\Fogelson_GARM_1SA_2022.mxd

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

MW-5
NS

MW-10
B: 69
T: 11
E: 880
X: 3100

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

MW-1R
NS

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

MW-3
NS

MW-7
B: 5.1
T: <1.0
E: 1.9
X: <10

DUP-1
B: 4.6
T: <1.0
E: 1.3
X: <10

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

MW-2
NS

ENTERPRISE LINE

METER HOUSE

CONOCO PHILIPS LINE

FORMER TANKS

FORMER SEPARATOR

FORMER EPC PIT

UNKNOWN LINE ABANDONED IN GROUND

FORMER UNLINED BR PIT

MW-1 BR

FORMER PROPANE TANK

FORMER WELLHEAD

FORMER PUMP JACK

SMA BENCHMARK

1998 SOIL EXCAVATION (7,270 YD³)

1998 LANDFARM

AERIAL IMAGERY FROM GOOGLE EARTH, DATED 4/6/2019

LEGEND:

- APPROX. GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- FORMER PIT OR EXCAVATION
- GAS LINE
- UNDERGROUND CABLE
- MONITORING WELL
- MONITORING WELL WITH MEASURABLE LNAPL
- FORMER WELLHEAD
- SMA BENCHMARK
- FORMER MONITORING WELL (NOT EPCGP-OWNED)

NOTES:

DUP = FIELD DUPLICATE SAMPLE
LNAPL = LIGHT NON-AQUEOUS PHASE LIQUID

EXPLANATION OF ANALYTES AND APPLICABLE STANDARDS:

RESULTS IN **BOLDFACE/RED** TYPE INDICATE CONCENTRATION IN EXCESS OF THE STANDARD FOR THAT ANALYTE.
NS = NOT SAMPLED
µg/L = MICROGRAMS PER LITER
<1 = BELOW REPORTING LIMIT

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 40 80

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	2022-06-14	SAH	SAH	SRV

TITLE:

GROUNDWATER ANALYTICAL RESULTS MAY 21, 2022

PROJECT:

FOGELSON 4-1
SAN JUAN RIVER BASIN
SAN JUAN COUNTY, NEW MEXICO

Stantec

Figure No.: 3

\\Corp.ads\data\Virtual_Workspace\workgroup\1937\Active\193700102\03_data\gis_cad\gis\GIS-NEW_MXDs\FOGELSON 4-1 COM #14\2022 MAPS\Fogelson_GECM_1SA_2022.mxd

ENTERPRISE LINE

ENTERPRISE LINE

MW-9
MW-9
5734.47

CONOCO
PHILIPS
LINE

METER HOUSE

MW-10
MW-10
5734.39

MW-5
5735.77
MW-5

MW-6
5735.63
MW-6

FORMER TANKS

MW-4
5735.01
MW-4

MW-1R
5736.32
MW-1R

FORMER SEPARATOR

MW-3
5735.53
MW-3

FORMER LPC PIT

UNKNOWN LINE
ABANDONED IN GROUND

MW-7
MW-7
5738.99

FORMER
SEPARATOR

FORMER
UNLINED BR PIT

FORMER TANK

MW-1 BR

FORMER
PROPANE
TANK

MW-2
5736.96
MW-2

MW-8
MW-8
5740.05

FORMER TANK

FORMER WELLHEAD

FORMER
PUMP
JACK

SMA BENCHMARK

1998 SOIL EXCAVATION (7,270 YD³)

1998 LANDFARM

AERIAL IMAGERY FROM GOOGLE EARTH, DATED 4/6/2019

LEGEND:

- 5795 — APPROX. GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- FORMER PIT OR EXCAVATION
- GAS — GAS LINE
- UNDERGROUND CABLE
- MONITORING WELL
- MONITORING WELL WITH MEASURABLE LNAPL
- FORMER WELLHEAD
- SMA BENCHMARK
- FORMER MONITORING WELL (NOT EPCGP-OWNED)

NOTES:

5740.05 GROUNDWATER ELEVATION CORRECTED FOR LNAPL THICKNESS. FEET ABOVE MEAN SEA LEVEL

5740 CORRECTED WATER LEVEL ELEVATION CONTOUR DASHED WHERE INFERRED (FEET ABOVE MEAN SEA LEVEL)

DIRECTION OF APPARENT GROUNDWATER FLOW

LNAPLE = LIGHT NON-AQUEOUS PHASE LIQUID

N

SCALE IN FEET

0 40 80

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	2022-09-20	SAH	SAH	SRV

TITLE:

GROUNDWATER ELEVATION MAP
MAY 21, 2022

PROJECT:

FOGELSON 4-1
SAN JUAN RIVER BASIN
SAN JUAN COUNTY, NEW MEXICO

Stantec

Figure No.: 4

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

MW-11
B: <1.0
T: <1.0
E: <1.0
X: <10

MW-10
B: 54
T: <5.0
E: 1000
X: 2100

MW-5
NS

MW-1R
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-4
B: <1.0
T: <1.0
E: <1.0
X: <10

MW-3
NS

MW-7
B: 9.0
T: <1.0
E: 2.1
X: <10

DUP-1
B: 9.2
T: <1.0
E: 2.9
X: <10

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

MW-2
NS

ENTERPRISE LINE

CONOCO PHILLIPS LINE

METER HOUSE

FORMER EPC PIT

UNKNOWN LINE ABANDONED IN GROUND

FORMER UNLINED BR PIT

MW-1 BR

FORMER PROPANE TANK

SMA BENCHMARK

FORMER PUMP JACK

FORMER WELLHEAD

FORMER TANKS

FORMER SEPARATOR

FORMER SEPARATOR

FORMER TANK

FORMER TANK

1998 SOIL EXCAVATION (7,270 YD³)

1998 LANDFARM

AERIAL IMAGERY FROM GOOGLE EARTH, DATED 4/6/2019

LEGEND:

- APPROX. GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- FORMER PIT OR EXCAVATION
- GAS LINE
- UNDERGROUND CABLE
- MONITORING WELL
- MONITORING WELL WITH MEASURABLE LNAPL
- FORMER WELLHEAD
- SMA BENCHMARK
- FORMER MONITORING WELL (NOT EPCGP-OWNED)

NOTES:

DUP = FIELD DUPLICATE SAMPLE
LNAPL = LIGHT NON-AQUEOUS PHASE LIQUID

EXPLANATION OF ANALYTES AND APPLICABLE STANDARDS:

RESULTS IN **BOLDFACE/RED** TYPE INDICATE CONCENTRATION IN EXCESS OF THE STANDARD FOR THAT ANALYTE.
NS = NOT SAMPLED
µg/L = MICROGRAMS PER LITER
<1 = BELOW REPORTING LIMIT

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 40 80

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	2023-02-07	SAH	SAH	SRV

TITLE:

GROUNDWATER ANALYTICAL RESULTS
OCTOBER 30, 2022

PROJECT:

FOGELSON 4-1
SAN JUAN RIVER BASIN
SAN JUAN COUNTY, NEW MEXICO

Stantec

Figure No.: 5

\\cd1001-c200\CTX-CIFSS\VDI\Redirect\shansen\Desktop\GIS-NEW_MXDs\FOGELSON 4-1 COM #14\2022 MAPS\Fogelson_GECM_2SA_2022.mxd

ENTERPRISE LINE

ENTERPRISE LINE

MW-11
5724.75

MW-11

5726

METER HOUSE

5728

5730

5732

5734

MW-9

MW-9
5734.48

CONOCO PHILIPS LINE

MW-5
5735.67

MW-5

MW-10

MW-10
5734.61

MW-6
5735.44

MW-6

MW-4
5735.02

MW-4

MW-1R

MW-1R
5736.03

MW-3
5735.49

MW-3

FORMER EPC PIT

UNKNOWN LINE ABANDONED IN GROUND

MW-7

MW-7
5738.99

FORMER UNLINED BR PIT

MW-1 BR

FORMER PROPANE TANK

MW-2
5736.85

MW-2

5736

5738

MW-8

MW-8
5740.16

5740

SMA BENCHMARK

FORMER PUMP JACK

FORMER WELLHEAD

1998 SOIL EXCAVATION (7,270 YD³)

1998 LANDFARM

FORMER TANKS

FORMER SEPARATOR

FORMER SEPARATOR

FORMER TANK

FORMER TANK

AERIAL IMAGERY FROM GOOGLE EARTH, DATED 4/6/2019

LEGEND:

- 5795 — APPROX. GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- FORMER PIT OR EXCAVATION
- G A S — GAS LINE
- UNDERGROUND CABLE
- MONITORING WELL
- MONITORING WELL WITH MEASURABLE LNAPL
- FORMER WELLHEAD
- SMA BENCHMARK
- FORMER MONITORING WELL (NOT EPCGP-OWNED)

NOTES:

5740.16 GROUNDWATER ELEVATION CORRECTED FOR LNAPL THICKNESS. FEET ABOVE MEAN SEA LEVEL

5738 CORRECTED WATER LEVEL ELEVATION CONTOUR DASHED WHERE INFERRED (FEET ABOVE MEAN SEA LEVEL)

DIRECTION OF APPARENT GROUNDWATER FLOW

LNAPLE = LIGHT NON-AQUEOUS PHASE LIQUID

N

SCALE IN FEET

0 40 80

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	2023-03-17	SAH	SAH	SRV

TITLE:

GROUNDWATER ELEVATION MAP
OCTOBER 30, 2022

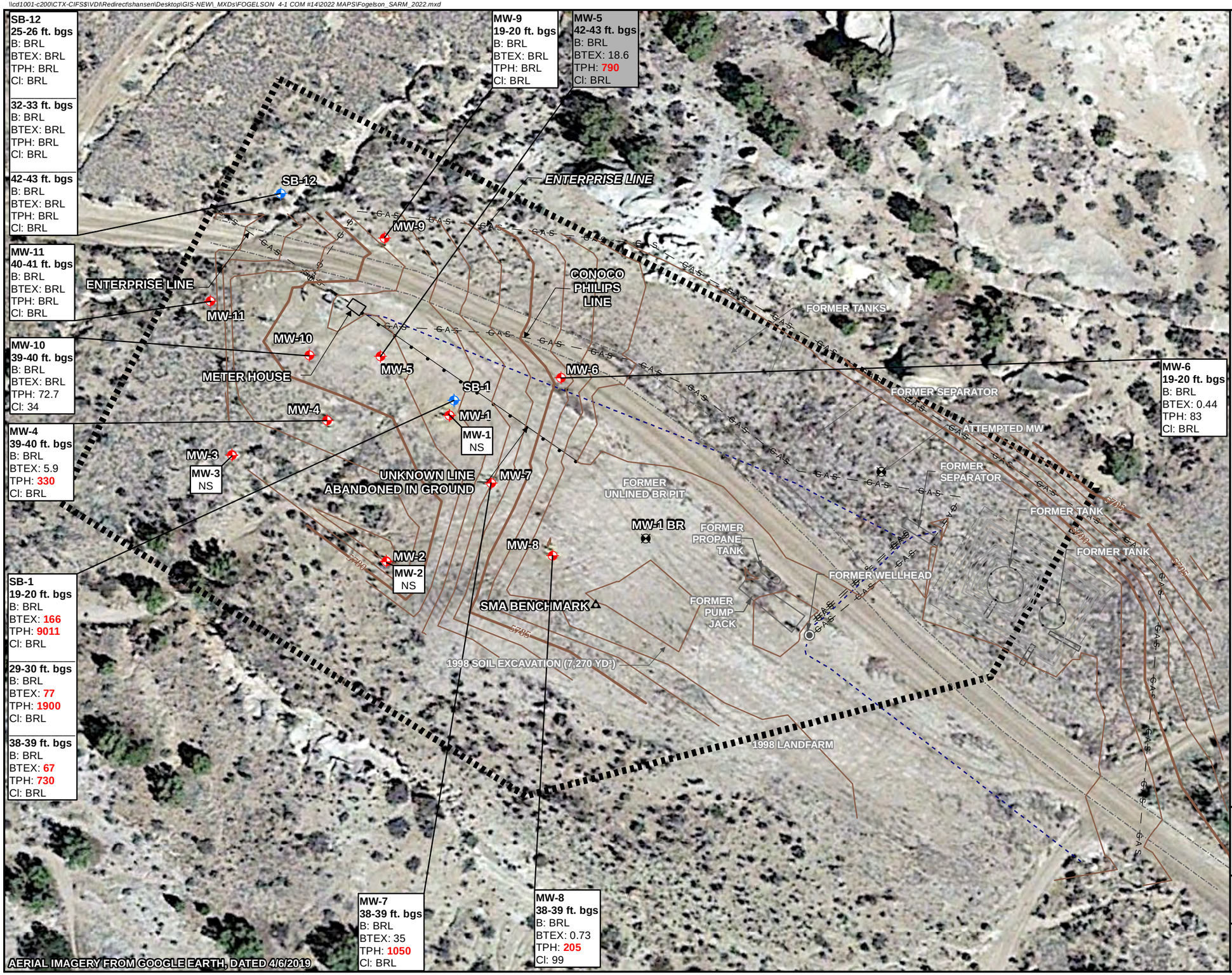
PROJECT:

FOGELSON 4-1
SAN JUAN RIVER BASIN
SAN JUAN COUNTY, NEW MEXICO

Stantec

Figure No.: 6

\\cd1001-c200\CTX-CIFSS\VDI\Redirect\shansen\Desktop\GIS-NEW_MXDs\FOGELSON 4-1 COM #14\2022 MAPS\Fogelson_SARM_2022.mxd



LEGEND:

- 5795 — APPROX. GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- FORMER EPC PIT
- GAS — GAS LINE
- UNDERGROUND CABLE
- RIGHT OF WAY BOUNDARY
- MONITORING WELL
- SOIL BORING
- FORMER WELLHEAD
- SMA BENCHMARK
- FORMER MONITORING WELL (NOT EPCPG-OWNED)

NOTES:
MW-4 SAMPLES COLLECTED 4/7/2017; MW-5, MW-6 AND MW-7 SAMPLES COLLECTED 4/8/2017; SB-1 SAMPLES COLLECTED 4/9/2017; MW-8 AND MW-9 SAMPLES COLLECTED 9/28/2018. MW-10 4/20/2022; AND MW-11 AND SB-12 10/04/2022.

UTILITY LOCATIONS ARE APPROXIMATE.

ft. bgs = FEET BELOW GROUND SURFACE
NS = NOT SAMPLED
SHADED RESULTS INDICATE SOIL SAMPLE INTERVAL APPEARS TO BE SUBMERGED BASED ON AVAILABLE STATIC WATER LEVEL GAUGING DATA.

EXPLANATION OF ANALYTES AND APPLICABLE STANDARDS:
RESULTS IN **BOLDFACE**/RED TYPE INDICATE CONCENTRATION IN EXCESS OF APPLICABLE NEW MEXICO OIL CONSERVATION DIVISION SOIL CRITERIA FOR THAT ANALYTE.
mg/kg = MILLIGRAM/KILOGRAM
BRL = BELOW REPORTING LIMITS

ANALYTE	NMOCD STANDARDS
B = Benzene	10 mg/kg
BTEX = Benzene, toluene, ethylbenzene, xylenes	50 mg/kg
TPH = Total Petroleum Hydrocarbons	100 mg/kg
Cl = Chloride	600 mg/kg

N

SCALE IN FEET
0 40 80

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	2023-02-07	SAH	SAH	SRV

TITLE:
SOIL ANALYTICAL RESULTS

PROJECT:
FOGELSON 4-1
SAN JUAN RIVER BASIN
SAN JUAN COUNTY, NEW MEXICO

Stantec

Figure No.: 7

APPENDICES

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: Tuesday, March 15, 2022 5:10:25 PM

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
Canada Mesa #2	nAUTOfAB000065	3/21/2022
Fields A#7A	nAUTOfAB000176	3/22/2022
Fogelson 4-1	nAUTOfAB000192	3/22/2022
Gallegos Canyon Unit #124E	nAUTOfAB000205	3/21/2022
James F. Bell #1E	nAUTOfAB000291	3/22/2022
Johnston Fed #4	nAUTOfAB000305	3/23/2022
Johnston Fed #6A	nAUTOfAB000309	3/23/2022
K27 LDO72	nAUTOfAB000316	3/21/2022
Knight #1	nAUTOfAB000324	3/22/2022
Lateral L 40 Line Drip	nAUTOfAB000335	3/23/2022
State Gas Com N #1	nAUTOfAB000668	3/22/2022

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
11313 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: Nelson.Velez@state.nm.us
Cc: Bratcher, Mike, EMNRD; Wiley, Joe
Subject: Fogelson #4-1 (Incident Number nAUTOfAB000192) - Notice of upcoming sampling activities
Date: Monday, April 11, 2022 6:24:40 AM

Hi Nelson –

This correspondence is to provide notice to the NMOCD of planned monitoring well installation activities at the above-referenced El Paso site. The well installation activities are to begin on April 19, 2022. A work plan for these activities was submitted in the e-permitting portal.

Please feel free to contact Joe Wiley, Project Manager at El Paso, 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: Nelson.Velez@state.nm.us
Cc: Bratcher, Mike, EMNRD; Wiley, Joe
Subject: FW: El Paso CGP Company - Notice of upcoming groundwater sampling activities
Date: Thursday, May 12, 2022 8:33:41 AM

Hi Nelson -

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	5/21/2022
Fields A#7A	nAUTOfAB000176	5/22/2022
Fogelson 4-1	nAUTOfAB000192	5/22/2022
Gallegos Canyon Unit #124E	nAUTOfAB000205	5/19/2022
GCU Com A #142E	nAUTOfAB000219	5/19/2022
James F. Bell #1E	nAUTOfAB000291	5/18/2022
Johnston Fed #4	nAUTOfAB000305	5/20/2022
Johnston Fed #6A	nAUTOfAB000309	5/20/2022
K27 LDO72	nAUTOfAB000316	5/21/2022
Knight #1	nAUTOfAB000324	5/19/2022
Lateral L 40 Line Drip	nAUTOfAB000335	5/18/2022
Miles Fed #1A	nAUTOfAB000391	5/21/2022
Sandoval GC A #1A	nAUTOfAB000635	5/20/2022
Standard Oil Com #1	nAUTOfAB000666	5/21/2022
State Gas Com N #1	nAUTOfAB000668	5/22/2022

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: Nelson.Velez@state.nm.us
Cc: Bratcher, Mike, EMNRD; Wiley, Joe
Subject: El Paso CGP Company - Notice of upcoming product recovery activities
Date: Monday, July 18, 2022 3:30:01 PM

Hi Nelson -

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
Canada Mesa #2	nAUTOfAB000065	7/30/2022
Fields A#7A	nAUTOfAB000176	8/01/2022
Fogelson 4-1	nAUTOfAB000192	8/01/2022
Gallegos Canyon Unit #124E	nAUTOfAB000205	7/30/2022
Johnston Fed #4	nAUTOfAB000305	7/29/2022
Johnston Fed #6A	nAUTOfAB000309	7/29/2022
K27 LDO72	nAUTOfAB000316	7/30/2022
Knight #1	nAUTOfAB000324	8/01/2022
State Gas Com N #1	nAUTOfAB000668	8/01/2022

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
11313 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: Nelson.Velez@state.nm.us
Cc: Bratcher, Mike, EMNRD; Wiley, Joe
Subject: Fogelson #4-1 (Incident Number nAUTOfAB000192) - Notice of upcoming field activities
Date: Wednesday, September 28, 2022 2:31:37 PM

Hi Nelson –

This correspondence is to provide notice to the NMOCD of planned monitoring well installation activities at the above-referenced El Paso site. The well installation activities are to begin on October 4, 2022. A work plan for these activities was submitted in the e-permitting portal.

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

Thank you,
Steve

Stephen Varsa, P.G., R.G.
Principal Hydrogeologist
Stantec Environmental Services
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: Nelson.Velez@state.nm.us
Cc: Bratcher, Mike, EMNRD; Wiley, Joe
Subject: El Paso CGP Company - Notice of upcoming groundwater sampling activities
Date: Wednesday, October 26, 2022 3:13:50 PM

Hi Nelson -

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	11/6/2022
Fields A#7A	nAUTOfAB000176	10/31/2022
Fogelson 4-1	nAUTOfAB000192	10/30/2022
Gallegos Canyon Unit #124E	nAUTOfAB000205	11/3/2022
GCU Com A #142E	nAUTOfAB000219	11/2/2022
James F. Bell #1E	nAUTOfAB000291	11/4/2022
Johnston Fed #4	nAUTOfAB000305	11/5/2022
Johnston Fed #6A	nAUTOfAB000309	11/5/2022
K27 LDO72	nAUTOfAB000316	11/6/2022
Knight #1	nAUTOfAB000324	11/4/2022
Lateral L 40 Line Drip	nAUTOfAB000335	10/30/2022
Sandoval GC A #1A	nAUTOfAB000635	11/5/2022
Standard Oil Com #1	nAUTOfAB000666	11/6/2022
State Gas Com N #1	nAUTOfAB000668	11/1/2022

We also plan to conduct quarterly operation and maintenance activities on the Knight #1 air sparge/soil vapor extraction system (Incident number nAUTOAB000324) on Saturday, October 29, 2022.

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., R.G.
Principal Hydrogeologist
Stantec Environmental Services
11311 Aurora Avenue
Des Moines, Iowa 50322
Direct: (515) 251-1020
Cell: (515) 710-7523
Office: (515) 253-0830
steve.varsa@stantec.com

APPENDIX B

Drilling Log

Stantec

Monitoring Well **MW-10**

Page: 1 of 2

Project *Fogelson 4-1* Owner *El Paso CGP Company, LLC*

Location *San Juan County, New Mexico* Project Number *193709201*

Surface Elev. *5781.02 ft* North *NA* East *NA*

Top of Casing *5783.11 ft* Water Level Initial ▽ Static ▼ *5734.39* 05/21/22 00:00

Hole Depth *55.0 ft* Screen: Diameter *2 in* Length *20.0 ft* Type/Size *PVC/0.01 in*

Hole Diameter *8.25 in* Casing: Diameter *2 in* Length *37.5 ft* Type *PVC*

Drill Co. *Cascade Drilling* Drilling Method *Hollow Stem Auger* Sand Pack *10/20*

Driller *Brendon Remillard* Driller Reg. # *WD-1664* Log By *Rob Malcomson*

Start Date *4/20/2022* Completion Date *4/20/2022* Checked By *S. Varsa*

COMMENTS
0-8' hydro-excavated.

Bentonite Chips | Bentonite Granules | Grout | Bentonite Pellets | Sand Pack | PP Sand Pack

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
0							
	NM					0-8' hydro-excavated. (Sand, silt, and clay; brown to brownish-gray, dry, loose to medium dense.)	
	NM						
	NM						
	NM	100%			SM		
5	NM						
	NM						
	NM						
	0.0	100%			ML	Silt, clayey, brown to grayish-brown, dry, loose to medium dense, no hydrocarbon odor.	
10	0.0						
	0.0					Silt and clay, sandy, grayish-brown, dry, hard, no bedding, trace caliche, no hydrocarbon odor.	
	0.0				ML		
	0.0	100%					
	0.0						
	0.0				SM	Sand, silty, grayish-tan, dry, loose, fine-grained, no hydrocarbon odor.	
15	0.0					No recovery.	
	NR						
	NR						
	0.0				ML	Silt and clay, sandy, grayish-brown, dry, hard, no bedding, trace caliche.	
	0.0				SM	Sand, silty to silt, grayish-brown, dry, loose, fine-grained.	
20	0.0					No recovery.	
	NR						
	0.0				ML	Silt, sandy, grayish-brown, dry, moderately cemented, thinly bedded, trace caliche.	
	0.0	80%					
	0.0				CL	Clay and silt, sandy, yellowish-brown, dry, hard, moderately cemented.	
25	0.0					No recovery.	
	NR						
	NR						
	0.0	60%			CL	Clay and silt, sandy, yellowish-brown, dry, hard, moderately cemented.	
	0.0				ML	Silt, sandy, grayish-brown, dry, medium stiff, trace calcite crystals, no hydrocarbon odor.	
30							

Continued Next Page

Drilling Log 2017 FOGELSON 4-1 LOGS.GPJ MWH IA.GDT 12/8/22

Drilling Log

Stantec

Monitoring Well **MW-10**

Page: 2 of 2

Project *Fogelson 4-1* Owner *El Paso CGP Company, LLC*

Location *San Juan County, New Mexico* Project Number *193709201*

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
						Continued	
30	0.0					No recovery.	
	NR						
	NR						
	NR	20%					
	NR				SM	Sand, silty, dry, loose, fine-grained, no hydrocarbon odor.	
35	0.0					No recovery.	
	NR					Sand, silty/clayey, grayish-brown, damp, medium dense.	
	1.7				SM		
	1.1	80%					
	0.8*				CL	Clay, sandy, silty, olive and orange, damp, slight hydrocarbon odor.	
40	14.4*					*Sample collected: MW-10 39-40'.	
	NR					No recovery.	
	0.9				CL	Clay, sandy, olive and orangish-brown, dry to damp, stiff to very stiff, slight hydrocarbon odor.	
	4.7	80%			CL	Clay, sandy, gray to dark gray, dry to damp, stiff to hard, hydrocarbon staining and odor.	
	103				SM	Sand. silty, gray, medium dense, fine to medium-grained, hydrocarbon staining and odor.	
45	533					No recovery.	
	NR						
	NR					Sand, silty, clayey with depth, gray to dark gray, some orangish-yellowish-tan 48-50', dry to moist, sand becomes finer-grained with depth, intermittent hydrocarbon staining 47.5-49.5', hydrocarbon odor.	
	149	60%			SM		
	83.6						
50	62.7					Weathered sandstone, minor weathered shale and fragments from 49.5-52', gray, damp to moist, strongly cemented becoming weak to moderate with depth, bedded, fine-grained.	
	45.4						
	4.1						
	4.7	100%					
	1.0						
55	0.9					End of boring = 55'. Well set at 55'.	
60							
65							
70							

Drilling Log 2017 FOGELSON 4-1 LOGS.GPJ MWH IA.GDT 12/8/22

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD 10	MW-10	SJ-4237

WELL OWNER NAME(S)	PHONE (OPTIONAL)
El Paso CGP Company, LLC	713-420-3475

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
1001 Louisiana Street Room 1445B	Houston	TX	77002

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	36	45	3.24	N
	LONGITUDE	-107	59	34.44	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

SE, SE, Section4 Township 29 Range 11W San Juan County, NM

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
1664	Shawn Cain	Cascade Drilling

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
4/2022	4/2022	55	56	41

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☑ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): Dry

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☑ OTHER – SPECIFY: HSA

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0	56	8	Sch 40 PVC Blank 0-35	Flush Thread	2.375	.154	
			Sch 40 PVC Screen 35-55'	Flush Thread	2.375	.154	.010

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	1.5	8	Concrete	2.5	Pour
1.5	30	8	Cement/Bentonite Grout	13	Tremie Pumped
30	33	8	3/8" Chips	1.5	Pour
33	56	8	20/40 Sand	15.5	Pour

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/17)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	47	47	Silty Sands with clays	✔ Y N	
47	56	9	Cemented Sand Stone	Y ✔ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☑ BAILER ☐ OTHER - SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Brendon Remillard

6. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:

Shawn Cain — 5/20/2022

SIGNATURE OF DRILLER / PRINT SIGNEE NAME — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 06/30/2017)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 2 OF 2

Drilling Log

Stantec

Monitoring Well **MW-11**

Page: 1 of 2

Project *Fogelson 4-1* Owner *El Paso CGP Company, LLC*

Location *San Juan County, New Mexico* Project Number *193709201*

Surface Elev. *5778.88 ft* North *2092676.962* East *2676310.163*

Top of Casing *5782.08 ft* Water Level Initial ▽ *5723.35* 10/12/22 00:00 Static ▼ *5724.75* 10/30/22 00:00

Hole Depth *56.6 ft* Screen: Diameter *2 in* Length *25.0 ft* Type/Size *PVC/0.01 in*

Hole Diameter *8.25 in* Casing: Diameter *2 in* Length *34.7 ft* Type *PVC*

Drill Co. *Cascade Drilling* Drilling Method *Hollow Stem Auger* Sand Pack *10/20 Silica sand*

Driller *Brendon Remillard* Driller Reg. # *WD-1664* Log By *Rob Malcomson*

Start Date *10/4/2022* Completion Date *10/6/2022* Checked By *S. Varsa*

COMMENTS
0-5' hydro-excavated.

Bentonite Chips | Bentonite Granules | Grout | Bentonite Pellets | Sand Pack | PP Sand Pack

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
0	NM	0%			SM	0-5' hydroexcavated. (Sily, clay and sand, tan-brown-gray).	
5	0.0				SM	Sand, silty, tan-brown, loose.	
	0.0						
	0.0	100%				Clay, silty, brown-gray, dry, hard, some caliche.	
	0.0						
10	0.0				CL		
	0.1						
	0.0	100%					
	0.0						
	0.0				SM	Sand, silty, dry, dense, fine-grained.	
15	0.0					Sand, silty, gray-brown, dry, becoming loose with depth, fine-grained, some caliche.	
	0.0						
	0.0	100%			SM		
	0.0						
	0.0						
20	0.3					Sand, silty, with dry, very stiff, thin, clay zones at 21.5', 22.5' and 23'; tan-brown-gray, dry, loose to dense, fine-grained.	
	0.0						
	0.0						
	0.0	100%			SM		
	0.0						
	0.0						
25	0.0				SP	Sand, tan, dry, loose, fine-grained, well-sorted.	
	0.1						
	0.0				SM	Sand, silty, brown-gray, dry, loose becoming very dense with depth, fine-grained.	
	NR	60%					
	NR					No recovery.	
30							

Continued Next Page

Drilling Log 2017 FOGELSON 4-1 LOGS.GPJ MWH IA.GDT 12/8/22

Drilling Log

Stantec

Monitoring Well **MW-11**

Page: 2 of 2

Project *Fogelson 4-1* Owner *El Paso CGP Company, LLC*

Location *San Juan County, New Mexico* Project Number *193709201*

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
						Continued	
30	0.3				SM	Sand, silty, clayey, gray-brown, dry, loose to medium dense, fine-grained.	
	0.0						
	0.1						
	0.0	80%			SM	Sand, silty to silt, sandy; tan-brown, dry, medium dense, fine grained, some caliche.	
	NR					No recovery.	
35	0.0				SM	(Same as above) Sand, silty to silt, sandy; tan-brown, dry, medium dense, fine grained, some caliche.	
	0.0						
	0.0				SM	Sand, silty, gray-brown, dry, dense, fine-grained, some caliche.	
	0.0	90%					
	0.1				SW	Sand, tan, dense, fine to medum-grained, dark orange layer and coal at 39.8'.	
40	0.4	MW-11 @ 40-41'			SM	Sand, silty, tan-gray-brown, dry, loose to medium dense, fine to medium-grained, trace fine gravel in lower portion.	
	0.0					Sandstone, orange and gray, dry, dense, weakly to moderately cemented.	
	0.0						
	0.1	100%				Sandstone, tan-gray, blue-gray banding from 43.8-44.1', dry, dense, weakly to moderately cemented, fine-grained, some coarse gravel.	
	0.0						
45	0.0					Sandstone, yellow-tan-brown, moist, moderately cemented, fine-grained, thinly bedded.	
	0.0						
	0.1					Sandstone, silty, gray-brown, moist, hard, weakly cemented, fine-grained, some embedded fine to coarse gravel.	
	0.0	100%					
	0.1					Sandstone, tan, dry, dense, weakly cemented, fine-grained.	
	0.0					Sandstone, gray, dry, dense, weakly cemented, fine-grained, massive.	
50	0.0					Sandstone, medium gray, moist, weakly to moderately cemented, fine-grained, thinly bedded.	
	0.0						
	0.0						
	0.0	100%					
	0.0					Sandstone, silty, gray becoming light gray with depth, moist, fine-grained, massive.	
55	0.0						
	0.0	100%				Sandstone, silty, light gray, dry to slightly moist, weakly to moderately cemented, fine to medium-grained, thinly bedded.	
						End of boring = 56'. Well set at 56.5'.	
60							
65							
70							

Drilling Log 2017 FOGELSON 4-1 LOGS.GPJ MWH IA.GDT 12/8/22

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.): POD 11 (MW-11) Fogelson 4-1	WELL TAG ID NO.: MW-11	OSE FILE NO(S).: SJ- 4237
WELL OWNER NAME(S): El Paso CGP Company, LLC (Contact: Joseph Wiley)		PHONE (OPTIONAL): 713-420-3475
WELL OWNER MAILING ADDRESS: 1001 Louisiana Street Room 1445B		CITY: Houston STATE: TX ZIP: 77002

WELL LOCATION (FROM GPS): DEGREES MINUTES SECONDS

LATITUDE: 2092676.96 Northing N

LONGITUDE: 2676310.16 Easting W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND

* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

SE1/4, SE1/4, Section 4, T29N, R11W

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER			NAME OF WELL DRILLING COMPANY
WD-1664	Brendon Remillard			Cascade Drilling
DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
10-6-22	10-6-22	55.8	56	55

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☒ SHALLOW (UNCONFINED) — STATIC WATER LEVEL IN COMPLETED WELL (FT): 54

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☒ OTHER – SPECIFY: Hollow Stem auger

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0	25.8	8	PVC Riser	Flush Thread	2 inch	Sch 40	N/A
25.8	55.8	8	PVC Screen	Flush Thread	2 inch	Sch 40	0.010

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	2	8	Concrete Completion		Hand Pour
2	20	8	Cement/Grout Mix		Tremmie
20.	22.8	8	Bentonite chips		Hand Pour
22.8	55.8	8	Sand Filter Pack		Hand Pour

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO. | POD NO. | TRN NO.

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	45	45	Silt/Sands	Y (N)	
45	55.8	10.8	Cemented Sand stone	(Y) N	0.5
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:
[X] PUMP [ ] AIR LIFT [ ] BAILER [ ] OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.5

5. TEST; RIG SUPERVISION

WELL TEST: TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:
5" Steel stick-up well vault with 3 protective bollards all painted yellow, Locking well cap

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:
Brendon Remillard

6. SIGNATURE

BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.

Brendon Remillard — SIGNATURE OF DRILLER / PRINT SIGNEE NAME

11-30-22 — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.

Drilling Log

Stantec

Soil Boring **SB-12**

Page: 1 of 2

Project *Fogelson 4-1* Owner *El Paso CGP Company, LLC*

Location *San Juan County, New Mexico* Project Number *193709201*

Surface Elev. *5778.66 ft* North *2092709.659* East *2676351.232*

Top of Casing *NA* Water Level Initial ▽ Static ▼ *Dry @ 50'*

Hole Depth *44.0 ft* Screen: Diameter *NA* Length *NA* Type/Size *NA*

Hole Diameter *8.25 in* Casing: Diameter *NA* Length *NA* Type *NA*

Drill Co. *Cascade Drilling* Drilling Method *Hollow Stem Auger* Sand Pack *NA*

Driller *Brendon Remillard* Driller Reg. # *WD-1664* Log By *Rob Malcomson*

Start Date *10/4/2022* Completion Date *10/5/2022* Checked By *S. Varsa*

COMMENTS
0-5' hydro-excavated. Depth to water measurement from monitoring well MW-9, located near SB-12.

Bentonite Chips | Bentonite Granules | Grout | Bentonite Pellets | Sand Pack | PP Sand Pack

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.
0	NM	0%			SM	0-5' hydroexcavated. (Sand and silt, tan-brown, dry, loose).
5	0.0	100%			SM	Sand, silty, gray-brown, dry, loose, fine-grained.
10	0.0	100%			SM	Sand, silty, tan-gray, dry, loose to weakly cemented, fine to medium-grained, trace caliche.
15	0.0	100%			SM	Sand, silty, tan-gray, dry, dense to weakly cemented,
20	0.0	70%			SM	Weathered sandstone, some loose/weakly cemented layers, fine to medium-grained.
25	1.8	SB-12 @ 25-26'				Sand, silty, tan-gray, loose, fine-grained.
30	0.0	100%				Weathered sandstone, silty, tan-gray, dry, weakly cemented becoming moderate to strong with depth, medium-grained.

NR — No recovery.

NR — Weathered sandstone, gray, dry, moderately to strongly cemented, medium-grained, thinly bedded.

Weathered sandstone, slightly clayey in lower portion, brown from 27-28.5' and then dark orange-brown, dry to slightly moist, dense but weakly cemented becoming stronger with depth, coarser-grained with depth.

Continued Next Page

Drilling Log 2017 FOGELSON 4-1 LOGS.GPJ MWH IA.GDT 12/8/22

Drilling Log

Stantec

Soil Boring **SB-12**

Page: 2 of 2

Project *Fogelson 4-1* Owner *El Paso CGP Company, LLC*

Location *San Juan County, New Mexico* Project Number *193709201*

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.
						Continued
30	0.2					Weathered sandstone, silty, orange-brown, moist (perched), loose, moderately cemented, medium-grained.
	0.5					
	4.8					Weathered sandstone, tan-brown-gray, dry, dense, weakly cemented, fine to coarse-grained.
	0.2	100% SB-12 @ 32-33'				Weathered shale, tan-gray-orange-brown, dry, hard.
	0.1					Weathered shale, clayey, gray-brown, dry, hard, trace embedded pebbles.
35	1.2				SM	Sand, silty, brown to tan, dry, very dense, weakly cemented.
	0.0					Weathered sandstone, tan, dry, weakly to strongly cemented, thinly bedded, trace coal fragments.
	0.0					
	0.0	100%				
	0.0					Weathered shale, clayey, gray-brown, dry, hard.
40	0.3					Sandstone, silty, dry, dense, weakly to moderately cemented, fine-grained,
	0.1					Sandstone, yellow-brown, dry, moderately cemented, fine to medium-grained, thinly bedded.
	0.2					Sandstone, dark orange-brown, dry, fine to medium-grained.
	0.4	100% SB-12 @ 42-43'				Shale, dark brown.
	0.1					Sandstone, orange-brown, dry, very dense, moderately cemented, fine-grained.
45						End of boring = 44'.
50						
55						
60						
65						
70						

Drilling Log 2017 FOGELSON 4-1 LOGS.GPJ MWH IA.GDT 12/8/22

APPENDIX C

PLUGGING RECORD

NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: MW-12 (POD 12) (NMOSE File No. SJ-4237)

Well owner: El Paso CGP Company, LLC; Attn: Joseph Wiley Phone No.: 713-420-3475

Mailing address: 1001 Louisiana Street, Room 956I

City: Houston State: TX Zip code: 7702

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: Cascade Drilling LP

2) New Mexico Well Driller License No.: WD-1664 Expiration Date: 01-31-23

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Brendon Remillard

4) Date well plugging began: 10/5/2022 Date well plugging concluded: 10/5/2022

5) Well Location:

Northing: 2092709.65 (ft.) (SPC zone NM W-3003)
Easting: 2676351.23 (ft.) (SPC zone NM W-3003)

6) Depth of well confirmed at initiation of plugging as: 44 ft below ground level (bgl), by the following manner: Measuring Tape

7) Static water level measured at initiation of plugging: dry at 44 ft. bgs

8) Date well plugging plan of operations was approved by the State Engineer: 9/15/2022

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

During drilling of MW-12 (POD 12), auger refusal was encountered before reaching the planned total depth; therefore, no well was installed, and the borehole drilled for MW-12 (POD 12) was plugged.

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
	Portland Cement grout with 5% bentonite powder additive.	75 Gallons		Gravity from surface	Permitted well installation borehole plugged due to auger refusal short of proposed total depth.

MULTIPLY		BY		AND OBTAIN
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

III. SIGNATURE:

I, Brendan Rouillard, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Signature of Well Driller

12-16-22
Date

Version: September 8, 2009
Page 2 of 2

APPENDIX D

NO. 824149

30 Years of Environmental Health and Safety Excellence

BASIN DISPOSAL

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

NMOCD PERMIT: NM -001-0005
Oil Field Waste Document, Form C138
INVOICE:

DATE 3/22/22
DEL. TKT#.

GENERATOR: El Paso CGP Com. LLC
BILL TO: El Paso CGP Comll&

HAULING CO. Oil Conservation Division
DRIVER: Sean Clary
(Print Full Name)

ORDERED BY: Joe W
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		James F. Bell #1E/Fields A#7A	1	70			.70	
2		STATE GAS COM N#1/K27L0072					'22 MAR 22 6:15PM	
3		Fogelson 4-1/Knight#1						
4		GCU 124E/Miles Fed #1A						
5		Corrales Mesa #2						

I, Sean R Clary, 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

envirotech

Bill of Lading

MANIFEST # 72505
GENERATOR El Paso
POINT OF ORIGIN Fogelson 4-4
TRANSPORTER Riley
DATE 04-20-23 JOB # 14073-0060

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	DESTINATION	MATERIAL	GRID	~~BBLS~~ YDS	~~BBLS~~	DRUMS	TKT#	TRK#	TIME	DRIVER SIGNATURE
1	BF	Hydro Vac cont soil		1		-	-	16013	0945	
-	BF	Washout By Riley		5				16013	0945	
				6						

SCANNED

RESULTS		
281	CHLORIDE TEST	1
	CHLORIDE TEST	
	CHLORIDE TEST	
PASS	PAINT FILTER TEST	1

LANDFARM EMPLOYEE: Cory Robinson

☐ Soil w/ Debris ☐ After Hours/Weekend Receival ☐ Scrape Out ☐ Wash Out

NOTES

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixe into the load. Landfarm employee signature is certification of the above material being received and placed accordingly.

Generator Onsite Contact _____ Phone _____

Signatures required prior to distribution of the legal document. DISTRIBUTION: White - Company Records / Billing Yellow - Customer Pink - LF Copy

SAN JUAN PRINTING 2021 407-

envirotech

Bill of Lading

MANIFEST # 73058
GENERATOR El Paso
POINT OF ORIGIN Rio Vista Comp Station
TRANSPORTER Envirotech
DATE 05-24-22 JOB # See Below

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	DESTINATION	MATERIAL	GRID	YDS	BBLS	DRUMS	TKT#	TRK#	TIME	DRIVER SIGNATURE
1	BF	Liquid			3. / 3			938	1445	
					14073-0059 CCLC		1 Drum	San Juan River Plant		
							1 Drum	Blanco North Flare		
					14073-0060		1 Drum	NM GW Pits (15 sites)		

RESULTS		
315	CHLORIDE TEST	1
	CHLORIDE TEST	
	CHLORIDE TEST	
PASS	PAINT FILTER TEST	1

LANDFARM EMPLOYEE Cory Robinson BLM

☐ Soil w/ Debris ☐ After Hours/Weekend Receival ☐ Scrape Out ☐ Wash Out

NOTES

SCANNED

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load. Landfarm employee signature is certification of the above material being received and placed accordingly.

Generator Onsite Contact _____ Phone _____

Signatures required prior to distribution of the legal document. DISTRIBUTION: **White** - Company Records / Billing **Yellow** - Customer **Pink** - LF Copy

SAN JUAN PRINTING 2021 407-3

envirotech

SPECIAL WASTE MANIFEST		Manifest Document No. SW - 01140	Page 1 of

GENERATOR

Generator's Name	Generator's Address	Generator's Telephone No.
EIPASO CGP	1001 Louisiana St. Houston, Tx 77002	

Origin of Special Waste (Project or Spill Location): Canada Mesa #2, Miles Fed #1A, Knight #1 Fields A #7A, Fogelson 4-1 GCU #124E, State Gas Com H #1, Johnston Fed #4, Johnston Fed #6A

Transporter #1 Company Name	Address	Telephone No.
Envirotech	5796 US Hwy 64 Farmington, NM 87401	505-632-0615
Transporter #2 Company Name	Address	Telephone No.

Destination Facility Name/Site Address	Facility ID (Permit) Number	Telephone No.
Envirotech LF #2 43 Road 7175 Bloomfield NM 87413	NM01-0011	505-632-0615

Type and Proper Name of Special Waste	Container(s) No.	Container(s) Type	Total Quantity	Unit Wt/Vol	
Petroleum Contaminated liquid	1	B	~~100~~ 55	gal	

Additional Descriptions for Special Waste Listed Above:

Special Handling Instructions:

GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described above by type and proper name of the special waste, and that such waste has been managed, packaged, containerized and labeled in accordance with the requirements of 20.9.8 NMAC (Special Waste Requirements) in addition to any other applicable federal, state or local regulations.

Printed/Typed Name:	Signature:	Date:
Greg Crabtree AS Agent		8/3/22

TRANSPORTER

Transporter 1 Acknowledgement of Receipt of Special Waste

Printed/Typed Name:	Signature:	Date:
Colton Tohn		8/3/22

Transporter 2 Acknowledgement of Receipt of Special Waste

Printed/Typed Name:	Signature:	Date:

FACILITY

Discrepancy Indication Space:

Facility Owner or Operator: ***I hereby acknowledge receipt of the special waste as indicated upon this manifest, except as noted above in the Discrepancy Indication Space.***

Printed/Typed Name:	Signature:	Date:
Cary Robinson		08.03.22

envirotech

Bill of Lading

MANIFEST # 75742
GENERATOR Kinder Morgan
POINT OF ORIGIN 4-100
TRANSPORTER Envirotech
DATE 10-6-22 JOB # 14073-0066

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	DESTINATION	MATERIAL	GRID	YDS	BBLS	DRUMS	TKT#	TRK#	TIME	DRIVER SIGNATURE
1	LF-2	Cont. Soil Cont. water	I-34	3	2	—	—	984	4:50	Austin Foutz
				3	2					

SCANNED

RESULTS			LANDFARM EMPLOYEE	NOTES
-294	CHLORIDE TEST	1	DR	
	CHLORIDE TEST		☐ Soil w/ Debris ☐ After Hours/Weekend Receival ☐ Scrape Out ☐ Wash Out	
	CHLORIDE TEST			
Pass	PAINT FILTER TEST	1		

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load. Landfarm employee signature is certification of the above material being received and placed accordingly.

Generator Onsite Contact _____ Phone _____

Signatures required prior to distribution of the legal document. DISTRIBUTION: **White** - Company Records / Billing **Yellow** - Customer **Pink** - LF Copy

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District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-138
Revised August 1, 2011

*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address: **Billing code for invoice:**

El Paso CGP Company L.L.C., 1001 Louisiana Street, Room 1445B, Houston, TX 77002

2. Originating Site:
Fogelson 4-1

3. Location of Material (Street Address, City, State or ULSTR):
36° 45' 02.4" N, 107° 59' 29.6" W Nearest Intersection: US-550 and Louisiana Street, Bloomfield, NM

4. Source and Description of Waste:
Historic releases occurred on the above-referenced property. As part of environmental investigation/remediation activities, utility clearance activities will be conducted, and two monitoring wells will be installed. Waste soil generated from these activities will be removed from the Site for disposal.
Estimated Volume 2 (yd³) / bbls Known Volume (to be entered by the operator at the end of the haul) _____ yd³ / bbls

5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I, Joseph Wiley, representative or authorized agent for El Paso CGP Company, LLC 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: (Check the appropriate classification)

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. *Operator Use Only: Waste Acceptance Frequency* ☐ *Monthly* ☐ *Weekly* ☐ *Per Load*

☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, _____, representative for El Paso CGP Company, LLC authorize Envirotech to
Generator Signature
complete the required testing/sign the Generator Waste Testing Certification.

I, _____, representative for _____ do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

6. Transporter:
Envirotech, Inc.

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: Envirotech Inc. Soil Remediation Facility Permit # NM-01-0011

Address of Facility: #43 Road 7175, South of Bloomfield NM

Method of Treatment and/or Disposal:

☐ Evaporation ☐ Injection ☐ Treating Plant ☒ Landfarm ☐ Landfill ☐ Other

Waste Acceptance Status:

☐ **APPROVED** ☐ **DENIED** (Must Be Maintained As Permanent Record)

PRINT NAME: _____ TITLE: _____ DATE: _____

SIGNATURE: _____ TELEPHONE NO.: _____
Surface Waste Management Facility Authorized Agent

envirotech

BOL# 75742

CHLORIDE TESTING / PAINT FILTER TESTING

DATE 10-6-22 TIME 4:50

Attach test strip here

CUSTOMER Kinder morgan

SITE 4-100

DRIVER Austin Foutz

SAMPLE Soil Straight _____ With Dirt _____

CHLORIDE TEST -294 mg/Kg

ACCEPTED YES ✓ NO _____

PAINT FILTER TEST Time started 4:50 Time completed 5:00

PASS YES ✓ NO _____

SAMPLER/ANALYST [signature]

5796 US Hwy 64, Farmington, NM 87401 | Ph (505) 632-0615 Fr (800) 362-1879 Fx (505) 632-1865 | info@envirotech-inc.com envirotech-inc.com

envirotech

Bill of Lading

MANIFEST # 76385
GENERATOR El Paso
POINT OF ORIGIN See notes
TRANSPORTER Envirotech
DATE 11-07-22 JOB # 14073-0060

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	DESTINATION	MATERIAL	GRID	YDS	BBLS	DRUMS	TKT#	TRK#	TIME	DRIVER SIGNATURE
1	BF	Cont Liquid				1	01154	937	0845	Andrew Mass
						1				
									SCANNED	

RESULTS			LANDFARM EMPLOYEE	NOTES
-291	CHLORIDE TEST	1		See Attachment
	CHLORIDE TEST		☐ Soil w/ Debris ☐ After Hours/Weekend Receival ☐ Scrape Out ☐ Wash Out	C-138 Pit Sites
	CHLORIDE TEST			
Pass	PAINT FILTER TEST	1		

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load. Landfarm employee signature is certification of the above material being received and placed accordingly.

Generator Onsite Contact _____ Phone _____

Signatures required prior to distribution of the legal document. DISTRIBUTION: White - Company Records / Billing Yellow - Customer Pink - LF Copy

SAN JUAN PRINTING 2021 407-3

envirotech

BOL# 76385

CHLORIDE TESTING / PAINT FILTER TESTING

DATE 11-7-22 TIME 8:45 Am

CUSTOMER Kinder Morgan

SITE Pit Sites

DRIVER A. Musso

SAMPLE Soil Straight ✓ With Dirt _____

CHLORIDE TEST -291 mg/Kg

ACCEPTED YES ✓ NO _____

PAINT FILTER TEST Time started 8:47 Time completed _____

PASS YES _____ NO _____

SAMPLER/ANALYST CR

Attach test strip here

5796 US Hwy 64, Farmington, NM 87401 || Ph (505) 632-0615 Fr (800) 362-1879 Fx (505) 632-1865 || info@envirotech-inc.com envirotech-inc.com

envirotech

SPECIAL WASTE MANIFEST		Manifest Document No. SW - 01154	Page 1 of

GENERATOR

Generator's Name	Generator's Address	Generator's Telephone No.
KINDER MORGAN	1001 LOUISIANA ~~BLVD~~ STREET, ROOM 9561, HOUSTON, TX	~~505~~ 713-420-3475

Origin of Special Waste (Project or Spill Location): SJRB PIT & PLANT SITES

Transporter #1 Company Name	Address	Telephone No.
ENVIROTECH	5796 US HWY 64, FARMINGTON, NM	505-632-0615
Transporter #2 Company Name	Address	Telephone No.

Destination Facility Name/Site Address	Facility ID (Permit) Number	Telephone No.
ENVIROTECH LANDFARM 2	NM01-0011	505-632-0615

Type and Proper Name of Special Waste	Container(s) No.	Container(s) Type	Total Quantity	Unit Wt/Vol	
WATER AND DRIP	1	L	4	70GAL	

Additional Descriptions for Special Waste Listed Above:

Special Handling Instructions:

GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described above by type and proper name of the special waste, and that such waste has been managed, packaged, containerized and labeled in accordance with the requirements of 20.9.8 NMAC (Special Waste Requirements) in addition to any other applicable federal, state or local regulations.

Printed/Typed Name:	Signature:	Date:
Sean R Clary	Sean R Clary	11/7/2022

TRANSPORTER

Transporter 1 Acknowledgement of Receipt of Special Waste		
Printed/Typed Name:	Signature:	Date:
MATTHEW MUSSO	MATTHEW MUSSO	11/7/2022
Transporter 2 Acknowledgement of Receipt of Special Waste		
Printed/Typed Name:	Signature:	Date:

FACILITY

Discrepancy Indication Space:

Facility Owner or Operator: ***I hereby acknowledge receipt of the special waste as indicated upon this manifest, except as noted above in the Discrepancy Indication Space.***

Printed/Typed Name:	Signature:	Date:
Gary Robinson	Gary Robinson	11-07-22

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-138
Revised August 1, 2011

*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. **Generator Name and Address:** **Billing code for invoice:**
El Paso CGP Company L.L.C., 1001 Louisiana Street, Room 1445B, Houston, TX 77002

2. **Originating Site:**
Johnston Federal #4, Johnston Federal #6A, Sandoval GC A#1A, Canada Mesa #2, K-27 LD072, Standard Oil Com #1, Knight #1, Gallegos Canyon Unit #124E, GCU Com A #142E, Fields A#7A, State Gas Com N #1, Fogelson 4-1, Lat L 40, and James F. Bell #1E.

3. **Location of Material (Street Address, City, State or ULSTR):**
Unit N, Sec. 27, T31N, R09W; Unit F, Sec. 35, T31N, R09W; Unit C, Sec. 35, T30N, R09W; Unit I, Sec. 24, T24N, R06W; Unit E, Sec 5, T25N, R06W; Unit N, Sec. 36, T29N, R09W, Unit A, Sec. 5, T30N, R13W; Unit N, Sec. 35, T28N, R12W; Unit G, Sec. 25, R29N, R12W; Unit E, Sec. 34, T32N, R11W; Unit H, Sec. 16, T31N, R12W; Unit P, Sec. 4, T29N, R11W; Unit H, Sec. 13, T28N, R04W; and Unit P, Sec. 10, T30N, R13W, respectively.

4. **Source and Description of Waste:**
Historic releases occurred on the above-referenced property. As part of environmental investigation activities, monitoring wells will be sampled, and purged liquids will be removed from the Site.
Estimated Volume _____ 1 ___ yd^3 / bbls Known Volume (to be entered by the operator at the end of the haul) _____ yd^3 / bbls

5. **GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS**

I, Joseph Wiley, representative or authorized agent for El Paso CGP Company, LLC do hereby
PRINT & SIGN NAME COMPANY NAME
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: (Check the appropriate classification)

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. *Operator Use Only: Waste Acceptance Frequency* ☐ *Monthly* ☐ *Weekly* ☐ *Per Load*

☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, Joseph Wiley, representative for El Paso CGP Company, LLC authorize Envirotech to
Generator Signature
complete the required testing/sign the Generator Waste Testing Certification.

I, _____, representative for _____ do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

6. **Transporter: Envirotech, Inc.**

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: Envirotech Inc. Soil Remediation Facility Permit # NM-01-0011

Address of Facility: #43 Road 7175, South of Bloomfield NM

Method of Treatment and/or Disposal:

☐ Evaporation ☐ Injection ☐ Treating Plant ☒ Landfarm ☐ Landfill ☐ Other

Waste Acceptance Status:

☐ APPROVED ☐ DENIED (Must Be Maintained As Permanent Record)

PRINT NAME: _____ TITLE: _____ DATE: _____

SIGNATURE: _____ TELEPHONE NO.: _____

APPENDIX E

envirotech

Bill of Lading

MANIFEST # 72505
GENERATOR El Paso
POINT OF ORIGIN Fogelson 4-4
TRANSPORTER Riley
DATE 04-20-23 JOB # 14073-0060

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	DESTINATION	MATERIAL	GRID	~~BBLS~~ YDS	~~BBLS~~	DRUMS	TKT#	TRK#	TIME	DRIVER SIGNATURE
1	BF	Hydro Vac cont soil		1		-	-	16013	0945	
-	BF	Washout By Riley		5				16013	0945	
				6						

SCANNED

RESULTS		
281	CHLORIDE TEST	1
	CHLORIDE TEST	
	CHLORIDE TEST	
PASS	PAINT FILTER TEST	1

LANDFARM EMPLOYEE: Cory Robinson

☐ Soil w/ Debris ☐ After Hours/Weekend Receival ☐ Scrape Out ☐ Wash Out

NOTES

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixe into the load. Landfarm employee signature is certification of the above material being received and placed accordingly.

Generator Onsite Contact _____ Phone _____

Signatures required prior to distribution of the legal document. DISTRIBUTION: White - Company Records / Billing Yellow - Customer Pink - LF Copy

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envirotech

Bill of Lading

MANIFEST # 72587
GENERATOR El Paso (Kinder Morgan)
POINT OF ORIGIN Fogelson 4-1
TRANSPORTER Envirotech
DATE 04-25-22 JOB # 14073-0060

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	DESTINATION	MATERIAL	GRID	YDS	BBLS	DRUMS	TKT#	TRK#	TIME	DRIVER SIGNATURE
1	LF2-5	Con't Soil	M34		3		01129	959	1220	[signature]
					3					

SCANNED

RESULTS			LANDFARM EMPLOYEE	NOTES
<281	CHLORIDE TEST	1	Cory Pollenzi	
	CHLORIDE TEST		☐ Soil w/ Debris ☐ After Hours/Weekend Receival ☐ Scrape Out ☐ Wash Out	
	CHLORIDE TEST			
Pass	PAINT FILTER TEST	1		

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load. Landfarm employee signature is certification of the above material being received and placed accordingly.

Generator Onsite Contact _____ Phone _____

Signatures required prior to distribution of the legal document. DISTRIBUTION: White - Company Records / Billing Yellow - Customer Pink - LF Copy

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Bill of Lading

MANIFEST # 75742
GENERATOR Kinder Morgan
POINT OF ORIGIN 4-100
TRANSPORTER Envirotech
DATE 10-6-22 JOB # 14073-0066

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	DESTINATION	MATERIAL	GRID	YDS	BBLS	DRUMS	TKT#	TRK#	TIME	DRIVER SIGNATURE
1	LF-2	Cont. Soil Cont. water	I-34	3	2	—	—	984	4:50	Austin Foutz
				3	2					

SCANNED

RESULTS			LANDFARM EMPLOYEE	NOTES
-294	CHLORIDE TEST	1	DR	
	CHLORIDE TEST		☐ Soil w/ Debris ☐ After Hours/Weekend Receival ☐ Scrape Out ☐ Wash Out	
	CHLORIDE TEST			
Pass	PAINT FILTER TEST	1		

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load. Landfarm employee signature is certification of the above material being received and placed accordingly.

Generator Onsite Contact _____ Phone _____

Signatures required prior to distribution of the legal document. DISTRIBUTION: **White** - Company Records / Billing **Yellow** - Customer **Pink** - LF Copy

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District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-138
Revised August 1, 2011

*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address: **Billing code for invoice:**

El Paso CGP Company L.L.C., 1001 Louisiana Street, Room 1445B, Houston, TX 77002

2. Originating Site:
Fogelson 4-1

3. Location of Material (Street Address, City, State or ULSTR):
36° 45' 02.4" N, 107° 59' 29.6" W Nearest Intersection: US-550 and Louisiana Street, Bloomfield, NM

4. Source and Description of Waste:
Historic releases occurred on the above-referenced property. As part of environmental investigation/remediation activities, utility clearance activities will be conducted, and two monitoring wells will be installed. Waste soil generated from these activities will be removed from the Site for disposal.
Estimated Volume 2 (yd³) / bbls Known Volume (to be entered by the operator at the end of the haul) _____ yd³ / bbls

5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I, Joseph Wiley, representative or authorized agent for El Paso CGP Company, LLC 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: (Check the appropriate classification)

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. *Operator Use Only: Waste Acceptance Frequency* ☐ *Monthly* ☐ *Weekly* ☐ *Per Load*

☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, _____, representative for El Paso CGP Company, LLC authorize Envirotech to
Generator Signature
complete the required testing/sign the Generator Waste Testing Certification.

I, _____, representative for _____ do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

6. Transporter:
Envirotech, Inc.

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: Envirotech Inc. Soil Remediation Facility Permit # NM-01-0011

Address of Facility: #43 Road 7175, South of Bloomfield NM

Method of Treatment and/or Disposal:

☐ Evaporation ☐ Injection ☐ Treating Plant ☒ Landfarm ☐ Landfill ☐ Other

Waste Acceptance Status:

☐ **APPROVED** ☐ **DENIED** (Must Be Maintained As Permanent Record)

PRINT NAME: _____ TITLE: _____ DATE: _____

SIGNATURE: _____ TELEPHONE NO.: _____
Surface Waste Management Facility Authorized Agent

envirotech

BOL# 75742

CHLORIDE TESTING / PAINT FILTER TESTING

DATE 10-6-22 TIME 4:50

Attach test strip here

CUSTOMER Kinder morgan

SITE 4-100

DRIVER Austin Foutz

SAMPLE Soil Straight _____ With Dirt _____

CHLORIDE TEST -294 mg/Kg

ACCEPTED YES ✓ NO _____

PAINT FILTER TEST Time started 4:50 Time completed 5:00

PASS YES ✓ NO _____

SAMPLER/ANALYST _____

5796 US Hwy 64, Farmington, NM 87401 | Ph (505) 632-0615 Fr (800) 362-1879 Fx (505) 632-1865 | info@envirotech-inc.com envirotech-inc.com

envirotech

Bill of Lading

MANIFEST # 75677
GENERATOR KINDER MORGAN
POINT OF ORIGIN FARMLAND 41
TRANSPORTER RILEY
DATE 10/04/22 JOB # 14073-0066

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	DESTINATION	MATERIAL	GRID	YDS	BBLS	DRUMS	TKT#	TRK#	TIME	DRIVER SIGNATURE
1	LF 2	BLENDED CONT FACILITY SOIL	—	—	5	—	—	22098	10:50	
					5					

SCANNED

RESULTS		
380	CHLORIDE TEST	1
	CHLORIDE TEST	
	CHLORIDE TEST	
PASS	PAINT FILTER TEST	1

LANDFARM EMPLOYEE Wayne Price

☐ Soil w/ Debris ☐ After Hours/Weekend Receival ☐ Scrape Out ☐ Wash Out

NOTES

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load. Landfarm employee signature is certification of the above material being received and placed accordingly.

Generator Onsite Contact _____ Phone _____

Signatures required prior to distribution of the legal document. DISTRIBUTION: **White** - Company Records / Billing **Yellow** - Customer **Pink** - LF Copy

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envirotech

BOL# 75677

CHLORIDE TESTING / PAINT FILTER TESTING

DATE 10/04/22 TIME 10:50

Attach test strip here

CUSTOMER KINDER MORGAN

SITE FOGELSON 4-1

DRIVER V. GOMEZ

SAMPLE Soil Straight ✓ With Dirt _____

CHLORIDE TEST 380 mg/Kg

ACCEPTED YES ✓ NO _____

PAINT FILTER TEST Time started 10:50 Time completed 11:00

PASS YES ✓ NO _____

SAMPLER/ANALYST [signature]

5796 US Hwy 64, Farmington, NM 87401 | Ph (505) 632-0615 Fr (800) 362-1879 Fx (505) 632-1865 | info@envirotech-inc.com envirotech-

APPENDIX F

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 400-220395-1
Client Project/Site: Fogelson 4-1 Com #14.00

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

Attn: Steve Varsa

Authorized for release by:
6/8/2022 8:58:03 AM
Isabel Enfinger, Project Manager I
(850)471-6237
isabel.enfinger@et.eurofinsus.com

Designee for

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

Client: Stantec Consulting Services Inc
Project/Site: Fogelson 4-1 Com #14.00

Laboratory Job ID: 400-220395-1

Table of Contents

Case Narrative

Client: Stantec Consulting Services Inc
Project/Site: Fogelson 4-1 Com #14.00

Job ID: 400-220395-1

Job ID: 400-220395-1

Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-220395-1

Comments
No additional comments.

Receipt
The samples were received on 5/24/2022 9:02 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 2.1° C.

GC/MS VOA
Method 8260C: Surrogate recovery for the following sample was outside the upper control limit: MW-8 (400-220395-4). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8260C: Surrogate recovery for the following samples were outside control limits: MW-7 (400-220395-3) and DUP-01 (400-220395-8). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-10 (400-220395-6). 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: Fogelson 4-1 Com #14.00

Job ID: 400-220395-1

Client Sample ID: MW-4 — Lab Sample ID: 400-220395-1

No Detections.

Client Sample ID: MW-6 — Lab Sample ID: 400-220395-2

No Detections.

Client Sample ID: MW-7 — Lab Sample ID: 400-220395-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	5.1		1.0		ug/L	1		8260C	Total/NA
Ethylbenzene	1.9		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-8 — Lab Sample ID: 400-220395-4

No Detections.

Client Sample ID: MW-9 — Lab Sample ID: 400-220395-5

No Detections.

Client Sample ID: MW-10 — Lab Sample ID: 400-220395-6

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	69		10		ug/L	10		8260C	Total/NA
Toluene	11		10		ug/L	10		8260C	Total/NA
Ethylbenzene	880		10		ug/L	10		8260C	Total/NA
Xylenes, Total	3100		100		ug/L	10		8260C	Total/NA

Client Sample ID: TRIP BLANK — Lab Sample ID: 400-220395-7

No Detections.

Client Sample ID: DUP-01 — Lab Sample ID: 400-220395-8

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	4.6		1.0		ug/L	1		8260C	Total/NA
Ethylbenzene	1.3		1.0		ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Pensacola

Method Summary

Client: Stantec Consulting Services Inc
Project/Site: Fogelson 4-1 Com #14.00

Job ID: 400-220395-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL PEN
5030B	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 Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Sample Summary

Client: Stantec Consulting Services Inc
Project/Site: Fogelson 4-1 Com #14.00

Job ID: 400-220395-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-220395-1	MW-4	Water	05/21/22 14:50	05/24/22 09:02
400-220395-2	MW-6	Water	05/21/22 15:10	05/24/22 09:02
400-220395-3	MW-7	Water	05/21/22 15:20	05/24/22 09:02
400-220395-4	MW-8	Water	05/21/22 15:40	05/24/22 09:02
400-220395-5	MW-9	Water	05/21/22 15:50	05/24/22 09:02
400-220395-6	MW-10	Water	05/21/22 16:00	05/24/22 09:02
400-220395-7	TRIP BLANK	Water	05/21/22 14:20	05/24/22 09:02
400-220395-8	DUP-01	Water	05/21/22 16:20	05/24/22 09:02

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Fogelson 4-1 Com #14.00

Job ID: 400-220395-1

Client Sample ID: MW-4

Date Collected: 05/21/22 14:50
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220395-1

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			05/27/22 17:42	1
Toluene	<1.0		1.0		ug/L			05/27/22 17:42	1
Ethylbenzene	<1.0		1.0		ug/L			05/27/22 17:42	1
Xylenes, Total	<10		10		ug/L			05/27/22 17:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*116*		*72 - 119*		*05/27/22 17:42*	*1*
Dibromofluoromethane	*107*		*75 - 126*		*05/27/22 17:42*	*1*
Toluene-d8 (Surr)	*97*		*64 - 132*		*05/27/22 17:42*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Fogelson 4-1 Com #14.00

Job ID: 400-220395-1

Client Sample ID: MW-6

Date Collected: 05/21/22 15:10
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220395-2

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			05/27/22 18:07	1
Toluene	<1.0		1.0		ug/L			05/27/22 18:07	1
Ethylbenzene	<1.0		1.0		ug/L			05/27/22 18:07	1
Xylenes, Total	<10		10		ug/L			05/27/22 18:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*114*		*72 - 119*		*05/27/22 18:07*	*1*
Dibromofluoromethane	*106*		*75 - 126*		*05/27/22 18:07*	*1*
Toluene-d8 (Surr)	*97*		*64 - 132*		*05/27/22 18:07*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Fogelson 4-1 Com #14.00

Job ID: 400-220395-1

Client Sample ID: MW-7

Date Collected: 05/21/22 15:20
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220395-3

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**5.1**		1.0		ug/L			05/27/22 18:33	1
Toluene	<1.0		1.0		ug/L			05/27/22 18:33	1
Ethylbenzene	**1.9**		1.0		ug/L			05/27/22 18:33	1
Xylenes, Total	<10		10		ug/L			05/27/22 18:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*121*	*S1+*	*72 - 119*		*05/27/22 18:33*	*1*
Dibromofluoromethane	*104*		*75 - 126*		*05/27/22 18:33*	*1*
Toluene-d8 (Surr)	*97*		*64 - 132*		*05/27/22 18:33*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Fogelson 4-1 Com #14.00

Job ID: 400-220395-1

Client Sample ID: MW-8

Date Collected: 05/21/22 15:40
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220395-4

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			05/27/22 18:59	1
Toluene	<1.0		1.0		ug/L			05/27/22 18:59	1
Ethylbenzene	<1.0		1.0		ug/L			05/27/22 18:59	1
Xylenes, Total	<10		10		ug/L			05/27/22 18:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*120*	*S1+*	*72 - 119*		*05/27/22 18:59*	*1*
Dibromofluoromethane	*106*		*75 - 126*		*05/27/22 18:59*	*1*
Toluene-d8 (Surr)	*96*		*64 - 132*		*05/27/22 18:59*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Fogelson 4-1 Com #14.00

Job ID: 400-220395-1

Client Sample ID: MW-9

Date Collected: 05/21/22 15:50
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220395-5

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			05/27/22 19:25	1
Toluene	<1.0		1.0		ug/L			05/27/22 19:25	1
Ethylbenzene	<1.0		1.0		ug/L			05/27/22 19:25	1
Xylenes, Total	<10		10		ug/L			05/27/22 19:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*116*		*72 - 119*		*05/27/22 19:25*	*1*
Dibromofluoromethane	*107*		*75 - 126*		*05/27/22 19:25*	*1*
Toluene-d8 (Surr)	*97*		*64 - 132*		*05/27/22 19:25*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Fogelson 4-1 Com #14.00

Job ID: 400-220395-1

Client Sample ID: MW-10

Date Collected: 05/21/22 16:00
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220395-6

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**69**		10		ug/L			05/28/22 12:40	10
Toluene	**11**		10		ug/L			05/28/22 12:40	10
Ethylbenzene	**880**		10		ug/L			05/28/22 12:40	10
Xylenes, Total	**3100**		100		ug/L			05/28/22 12:40	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*113*		*72 - 119*		*05/28/22 12:40*	*10*
Dibromofluoromethane	*101*		*75 - 126*		*05/28/22 12:40*	*10*
Toluene-d8 (Surr)	*104*		*64 - 132*		*05/28/22 12:40*	*10*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Fogelson 4-1 Com #14.00

Job ID: 400-220395-1

Client Sample ID: TRIP BLANK

Date Collected: 05/21/22 14:20
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220395-7

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			05/27/22 16:23	1
Toluene	<1.0		1.0		ug/L			05/27/22 16:23	1
Ethylbenzene	<1.0		1.0		ug/L			05/27/22 16:23	1
Xylenes, Total	<10		10		ug/L			05/27/22 16:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*113*		*72 - 119*		*05/27/22 16:23*	*1*
Dibromofluoromethane	*104*		*75 - 126*		*05/27/22 16:23*	*1*
Toluene-d8 (Surr)	*97*		*64 - 132*		*05/27/22 16:23*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Fogelson 4-1 Com #14.00

Job ID: 400-220395-1

Client Sample ID: DUP-01

Date Collected: 05/21/22 16:20
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220395-8

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**4.6**		1.0		ug/L			05/27/22 19:51	1
Toluene	<1.0		1.0		ug/L			05/27/22 19:51	1
Ethylbenzene	**1.3**		1.0		ug/L			05/27/22 19:51	1
Xylenes, Total	<10		10		ug/L			05/27/22 19:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*121*	*S1+*	*72 - 119*		*05/27/22 19:51*	*1*
Dibromofluoromethane	*105*		*75 - 126*		*05/27/22 19:51*	*1*
Toluene-d8 (Surr)	*98*		*64 - 132*		*05/27/22 19:51*	*1*

Definitions/Glossary

Client: Stantec Consulting Services Inc
Project/Site: Fogelson 4-1 Com #14.00

Job ID: 400-220395-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.

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

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Fogelson 4-1 Com #14.00

Job ID: 400-220395-1

Client Sample ID: MW-4
Date Collected: 05/21/22 14:50
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220395-1
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	579208	05/27/22 17:42	BEP	TAL PEN
	Instrument ID: CH_TAN									

Client Sample ID: MW-6
Date Collected: 05/21/22 15:10
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220395-2
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	579208	05/27/22 18:07	BEP	TAL PEN
	Instrument ID: CH_TAN									

Client Sample ID: MW-7
Date Collected: 05/21/22 15:20
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220395-3
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		1	5 mL	5 mL	579208	05/27/22 18:33	BEP	TAL PEN
	Instrument ID: CH_TAN									

Client Sample ID: MW-8
Date Collected: 05/21/22 15:40
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220395-4
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	579208	05/27/22 18:59	BEP	TAL PEN
	Instrument ID: CH_TAN									

Client Sample ID: MW-9
Date Collected: 05/21/22 15:50
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220395-5
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	579208	05/27/22 19:25	BEP	TAL PEN
	Instrument ID: CH_TAN									

Client Sample ID: MW-10
Date Collected: 05/21/22 16:00
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220395-6
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		10	5 mL	5 mL	579326	05/28/22 12:40	BPO	TAL PEN
	Instrument ID: CH_TAN									

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Fogelson 4-1 Com #14.00

Job ID: 400-220395-1

Client Sample ID: TRIP BLANK

Date Collected: 05/21/22 14:20
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220395-7

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	579208	05/27/22 16:23	BEP	TAL PEN
	Instrument ID: CH_TAN									

Client Sample ID: DUP-01

Date Collected: 05/21/22 16:20
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220395-8

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	579208	05/27/22 19:51	BEP	TAL PEN
	Instrument ID: CH_TAN									

Laboratory References:

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

QC Association Summary

Client: Stantec Consulting Services Inc
Project/Site: Fogelson 4-1 Com #14.00

Job ID: 400-220395-1

GC/MS VOA

Analysis Batch: 579208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-220395-1	MW-4	Total/NA	Water	8260C	
400-220395-2	MW-6	Total/NA	Water	8260C	
400-220395-3	MW-7	Total/NA	Water	8260C	
400-220395-4	MW-8	Total/NA	Water	8260C	
400-220395-5	MW-9	Total/NA	Water	8260C	
400-220395-7	TRIP BLANK	Total/NA	Water	8260C	
400-220395-8	DUP-01	Total/NA	Water	8260C	
MB 400-579208/27	Method Blank	Total/NA	Water	8260C	
LCS 400-579208/1002	Lab Control Sample	Total/NA	Water	8260C	
400-220101-A-6 MS	Matrix Spike	Total/NA	Water	8260C	
400-220101-A-6 MSD	Matrix Spike Duplicate	Total/NA	Water	8260C	

Analysis Batch: 579326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-220395-6	MW-10	Total/NA	Water	8260C	
MB 400-579326/5	Method Blank	Total/NA	Water	8260C	
LCS 400-579326/1002	Lab Control Sample	Total/NA	Water	8260C	
400-220307-A-4 MS	Matrix Spike	Total/NA	Water	8260C	
400-220307-A-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260C	

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Fogelson 4-1 Com #14.00

Job ID: 400-220395-1

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

Lab Sample ID: MB 400-579208/27
Matrix: Water
Analysis Batch: 579208

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			05/27/22 13:38	1
Toluene	<1.0		1.0		ug/L			05/27/22 13:38	1
Ethylbenzene	<1.0		1.0		ug/L			05/27/22 13:38	1
Xylenes, Total	<10		10		ug/L			05/27/22 13:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*115*		*72 - 119*		*05/27/22 13:38*	*1*
Dibromofluoromethane	*105*		*75 - 126*		*05/27/22 13:38*	*1*
Toluene-d8 (Surr)	*97*		*64 - 132*		*05/27/22 13:38*	*1*

Lab Sample ID: LCS 400-579208/1002
Matrix: Water
Analysis Batch: 579208

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	44.9		ug/L		90	70 - 130		
Toluene			50.0	44.8		ug/L		90	70 - 130		
Ethylbenzene			50.0	44.2		ug/L		88	70 - 130		
Xylenes, Total			100	86.9		ug/L		87	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*118*		*72 - 119*
Dibromofluoromethane	*110*		*75 - 126*
Toluene-d8 (Surr)	*97*		*64 - 132*

Lab Sample ID: 400-220101-A-6 MS
Matrix: Water
Analysis Batch: 579208

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	140		50.0	190		ug/L		101	56 - 142		
Toluene	5.3		50.0	57.5		ug/L		104	65 - 130		
Ethylbenzene	<1.0		50.0	51.8		ug/L		102	58 - 131		
Xylenes, Total	<10		100	105		ug/L		102	59 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*117*		*72 - 119*
Dibromofluoromethane	*103*		*75 - 126*
Toluene-d8 (Surr)	*98*		*64 - 132*

Lab Sample ID: 400-220101-A-6 MSD
Matrix: Water
Analysis Batch: 579208

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	140		50.0	189		ug/L		100	56 - 142	0	30
Toluene	5.3		50.0	57.0		ug/L		103	65 - 130	1	30
Ethylbenzene	<1.0		50.0	51.3		ug/L		101	58 - 131	1	30

Eurofins Pensacola

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Fogelson 4-1 Com #14.00

Job ID: 400-220395-1

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

Lab Sample ID: 400-220101-A-6 MSD
Matrix: Water
Analysis Batch: 579208

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	103		ug/L		100	59 - 130	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*117*		*72 - 119*
Dibromofluoromethane	*104*		*75 - 126*
Toluene-d8 (Surr)	*98*		*64 - 132*

Lab Sample ID: MB 400-579326/5
Matrix: Water
Analysis Batch: 579326

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			05/28/22 11:34	1
Toluene	<1.0		1.0		ug/L			05/28/22 11:34	1
Ethylbenzene	<1.0		1.0		ug/L			05/28/22 11:34	1
Xylenes, Total	<10		10		ug/L			05/28/22 11:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*111*		*72 - 119*		*05/28/22 11:34*	*1*
Dibromofluoromethane	*106*		*75 - 126*		*05/28/22 11:34*	*1*
Toluene-d8 (Surr)	*98*		*64 - 132*		*05/28/22 11:34*	*1*

Lab Sample ID: LCS 400-579326/1002
Matrix: Water
Analysis Batch: 579326

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	48.5		ug/L		97	70 - 130		
Toluene			50.0	46.4		ug/L		93	70 - 130		
Ethylbenzene			50.0	46.1		ug/L		92	70 - 130		
Xylenes, Total			100	90.8		ug/L		91	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*116*		*72 - 119*
Dibromofluoromethane	*107*		*75 - 126*
Toluene-d8 (Surr)	*97*		*64 - 132*

Lab Sample ID: 400-220307-A-4 MS
Matrix: Water
Analysis Batch: 579326

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	50.5		ug/L		101	56 - 142		
Toluene	<1.0		50.0	47.1		ug/L		94	65 - 130		
Ethylbenzene	<1.0		50.0	44.4		ug/L		89	58 - 131		
Xylenes, Total	<10		100	86.9		ug/L		87	59 - 130		

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Fogelson 4-1 Com #14.00

Job ID: 400-220395-1

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

Lab Sample ID: 400-220307-A-4 MS
Matrix: Water
Analysis Batch: 579326

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

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene	117		72 - 119
Dibromofluoromethane	105		75 - 126
Toluene-d8 (Surr)	98		64 - 132

Lab Sample ID: 400-220307-A-4 MSD
Matrix: Water
Analysis Batch: 579326

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	54.0		ug/L		108	56 - 142	7	30
Toluene	<1.0		50.0	51.6		ug/L		103	65 - 130	9	30
Ethylbenzene	<1.0		50.0	47.6		ug/L		95	58 - 131	7	30
Xylenes, Total	<10		100	94.0		ug/L		94	59 - 130	8	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene	116		72 - 119
Dibromofluoromethane	102		75 - 126
Toluene-d8 (Surr)	100		64 - 132

Eurofins 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: Sarah Gardner / Sean Clary	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-111401-37671.1
Client Contact: Steve Varsa	Phone: 303 291 2239	E-Mail: Cheyenne.Whitmire@et.eurofinsus.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): See ARF			
State, Zip: IA, 50322-7904	Compliance Project: Δ Yes Δ No			
Phone:	PO #: WD1040037			
Email: steve.varsa@stantec.com	WO #: ERG-STN-05-06-22-SAH-03			
Project Name: Fogelson 4-1 Com #14.00	Project #: 40005479			
Site: Fogelson	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:

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)	8260C - BTEX 8260	8260C - BTEX 8260 (unpreserved)	Total Number of containers	Special Instructions/Note:
			Preservation Code:			A	N		
MW-4	5/21/2022	1450	G	Water			3		
MW-6	5/21/2022	1510	G	Water			3		
MW-7	5/21/2022	1520	G	Water			3		
MW-8	5/21/2022	1540	G	Water			3		
MW-9	5/21/2022	1550	G	Water			3		
MW-10	5/21/2022	1600	G	Water			3		
Trip Blank	~~5/21/2022~~	1420	G	Water			1		
DUP-01	5/21/2022	1620	G	Water			3		
				Water					
				Water					
				Water					

400-220395 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:	Date/Time: 5/23/2022 1215	Company: Stantec	Received by: MD
Relinquished by:	Date/Time:	Company:	Received by:
Relinquished by:	Date/Time:	Company:	Received by:

Date/Time: 5/24/22 0902	Company: EGTS
Date/Time:	Company:
Date/Time:	Company:

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

Cooler Temperature(s) °C and Other Remarks: 2.1°C IR9

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc Job Number: 400-220395-1

Login Number: 220395 **List Source: Eurofins 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	2.1°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	

Accreditation/Certification Summary

Client: Stantec Consulting Services Inc
Job ID: 400-220395-1
Project/Site: Fogelson 4-1 Com #14.00

Laboratory: Eurofins 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
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
Kansas	NELAP	E-10253	10-31-22
Kentucky (UST)	State	53	06-30-22
Kentucky (WW)	State	KY98030	12-31-22
Louisiana	NELAP	30976	06-30-22
Louisiana (DW)	State	LA017	12-31-22
Maryland	State	233	09-30-22
Massachusetts	State	M-FL094	06-30-22
Michigan	State	9912	06-30-22
North Carolina (WW/SW)	State	314	12-31-22
Oklahoma	NELAP	9810	08-31-22
Pennsylvania	NELAP	68-00467	01-31-23
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
West Virginia DEP	State	136	05-31-22

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Steve Varsa
Stantec Consulting Services Inc
11311 Aurora Avenue
Des Moines Iowa 50322-7904

Generated 11/16/2022 10:07:04 AM

JOB DESCRIPTION

Fogelson 4-1 Com #14.00

JOB NUMBER

400-228125-1

Eurofins Pensacola
3355 McLemore Drive
Pensacola FL 32514

my EOL

Client: Stantec Consulting Services Inc
Project/Site: Fogelson 4-1 Com #14.00

Laboratory Job ID: 400-228125-1

Table of Contents

Case Narrative

Client: Stantec Consulting Services Inc
Project/Site: Fogelson 4-1 Com #14.00

Job ID: 400-228125-1

Job ID: 400-228125-1

Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-228125-1

Comments
No additional comments.

Receipt
The samples were received on 11/1/2022 9:09 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 0.7º C.

GC/MS VOA
Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-10 (400-228125-9). 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: Fogelson 4-1 Com #14.00

Job ID: 400-228125-1

Client Sample ID: TB-01 Lab Sample ID: 400-228125-1

No Detections.

Client Sample ID: DUP-01 Lab Sample ID: 400-228125-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	9.2		1.0		ug/L	1		8260C	Total/NA
Ethylbenzene	2.9		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1R Lab Sample ID: 400-228125-3

No Detections.

Client Sample ID: MW-4 Lab Sample ID: 400-228125-4

No Detections.

Client Sample ID: MW-6 Lab Sample ID: 400-228125-5

No Detections.

Client Sample ID: MW-7 Lab Sample ID: 400-228125-6

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	9.0		1.0		ug/L	1		8260C	Total/NA
Ethylbenzene	2.1		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-8 Lab Sample ID: 400-228125-7

No Detections.

Client Sample ID: MW-9 Lab Sample ID: 400-228125-8

No Detections.

Client Sample ID: MW-10 Lab Sample ID: 400-228125-9

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	54		5.0		ug/L	5		8260C	Total/NA
Ethylbenzene	1000		5.0		ug/L	5		8260C	Total/NA
Xylenes, Total - DL	2100		100		ug/L	10		8260C	Total/NA

Client Sample ID: MW-11 Lab Sample ID: 400-228125-10

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Pensacola

Method Summary

Client: Stantec Consulting Services Inc
Project/Site: Fogelson 4-1 Com #14.00

Job ID: 400-228125-1

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

Protocol References:

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

Laboratory References:

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

Sample Summary

Client: Stantec Consulting Services Inc
Project/Site: Fogelson 4-1 Com #14.00

Job ID: 400-228125-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-228125-1	TB-01	Water	10/30/22 13:00	11/01/22 09:09
400-228125-2	DUP-01	Water	10/30/22 14:15	11/01/22 09:09
400-228125-3	MW-1R	Water	10/30/22 13:30	11/01/22 09:09
400-228125-4	MW-4	Water	10/30/22 13:38	11/01/22 09:09
400-228125-5	MW-6	Water	10/30/22 13:46	11/01/22 09:09
400-228125-6	MW-7	Water	10/30/22 13:13	11/01/22 09:09
400-228125-7	MW-8	Water	10/30/22 13:55	11/01/22 09:09
400-228125-8	MW-9	Water	10/30/22 14:05	11/01/22 09:09
400-228125-9	MW-10	Water	10/30/22 14:18	11/01/22 09:09
400-228125-10	MW-11	Water	10/30/22 14:25	11/01/22 09:09

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Fogelson 4-1 Com #14.00

Job ID: 400-228125-1

Client Sample ID: TB-01

Date Collected: 10/30/22 13:00
Date Received: 11/01/22 09:09

Lab Sample ID: 400-228125-1

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/04/22 08:58	1
Toluene	<1.0		1.0		ug/L			11/04/22 08:58	1
Ethylbenzene	<1.0		1.0		ug/L			11/04/22 08:58	1
Xylenes, Total	<10		10		ug/L			11/04/22 08:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*72 - 119*		*11/04/22 08:58*	*1*
Dibromofluoromethane	*106*		*75 - 126*		*11/04/22 08:58*	*1*
Toluene-d8 (Surr)	*100*		*64 - 132*		*11/04/22 08:58*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Fogelson 4-1 Com #14.00

Job ID: 400-228125-1

Client Sample ID: DUP-01
Date Collected: 10/30/22 14:15
Date Received: 11/01/22 09:09

Lab Sample ID: 400-228125-2
Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**9.2**		1.0		ug/L			11/04/22 13:06	1
Toluene	<1.0		1.0		ug/L			11/04/22 13:06	1
Ethylbenzene	**2.9**		1.0		ug/L			11/04/22 13:06	1
Xylenes, Total	<10		10		ug/L			11/04/22 13:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*72 - 119*		*11/04/22 13:06*	*1*
Dibromofluoromethane	*104*		*75 - 126*		*11/04/22 13:06*	*1*
Toluene-d8 (Surr)	*101*		*64 - 132*		*11/04/22 13:06*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Fogelson 4-1 Com #14.00

Job ID: 400-228125-1

Client Sample ID: MW-1R
Date Collected: 10/30/22 13:30
Date Received: 11/01/22 09:09

Lab Sample ID: 400-228125-3
Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/04/22 13:32	1
Toluene	<1.0		1.0		ug/L			11/04/22 13:32	1
Ethylbenzene	<1.0		1.0		ug/L			11/04/22 13:32	1
Xylenes, Total	<10		10		ug/L			11/04/22 13:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*72 - 119*		*11/04/22 13:32*	*1*
Dibromofluoromethane	*102*		*75 - 126*		*11/04/22 13:32*	*1*
Toluene-d8 (Surr)	*98*		*64 - 132*		*11/04/22 13:32*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Fogelson 4-1 Com #14.00

Job ID: 400-228125-1

Client Sample ID: MW-4
Date Collected: 10/30/22 13:38
Date Received: 11/01/22 09:09

Lab Sample ID: 400-228125-4
Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/04/22 13:58	1
Toluene	<1.0		1.0		ug/L			11/04/22 13:58	1
Ethylbenzene	<1.0		1.0		ug/L			11/04/22 13:58	1
Xylenes, Total	<10		10		ug/L			11/04/22 13:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*72 - 119*		*11/04/22 13:58*	*1*
Dibromofluoromethane	*105*		*75 - 126*		*11/04/22 13:58*	*1*
Toluene-d8 (Surr)	*101*		*64 - 132*		*11/04/22 13:58*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Fogelson 4-1 Com #14.00

Job ID: 400-228125-1

Client Sample ID: MW-6

Date Collected: 10/30/22 13:46
Date Received: 11/01/22 09:09

Lab Sample ID: 400-228125-5

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/04/22 15:17	1
Toluene	<1.0		1.0		ug/L			11/04/22 15:17	1
Ethylbenzene	<1.0		1.0		ug/L			11/04/22 15:17	1
Xylenes, Total	<10		10		ug/L			11/04/22 15:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*72 - 119*		*11/04/22 15:17*	*1*
Dibromofluoromethane	*103*		*75 - 126*		*11/04/22 15:17*	*1*
Toluene-d8 (Surr)	*101*		*64 - 132*		*11/04/22 15:17*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Fogelson 4-1 Com #14.00

Job ID: 400-228125-1

Client Sample ID: MW-7
Date Collected: 10/30/22 13:13
Date Received: 11/01/22 09:09

Lab Sample ID: 400-228125-6
Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**9.0**		1.0		ug/L			11/04/22 14:24	1
Toluene	<1.0		1.0		ug/L			11/04/22 14:24	1
Ethylbenzene	**2.1**		1.0		ug/L			11/04/22 14:24	1
Xylenes, Total	<10		10		ug/L			11/04/22 14:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*72 - 119*		*11/04/22 14:24*	*1*
Dibromofluoromethane	*102*		*75 - 126*		*11/04/22 14:24*	*1*
Toluene-d8 (Surr)	*101*		*64 - 132*		*11/04/22 14:24*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Fogelson 4-1 Com #14.00

Job ID: 400-228125-1

Client Sample ID: MW-8

Date Collected: 10/30/22 13:55
Date Received: 11/01/22 09:09

Lab Sample ID: 400-228125-7

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/04/22 14:50	1
Toluene	<1.0		1.0		ug/L			11/04/22 14:50	1
Ethylbenzene	<1.0		1.0		ug/L			11/04/22 14:50	1
Xylenes, Total	<10		10		ug/L			11/04/22 14:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*72 - 119*		*11/04/22 14:50*	*1*
Dibromofluoromethane	*101*		*75 - 126*		*11/04/22 14:50*	*1*
Toluene-d8 (Surr)	*102*		*64 - 132*		*11/04/22 14:50*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Fogelson 4-1 Com #14.00

Job ID: 400-228125-1

Client Sample ID: MW-9

Date Collected: 10/30/22 14:05
Date Received: 11/01/22 09:09

Lab Sample ID: 400-228125-8

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/04/22 15:43	1
Toluene	<1.0		1.0		ug/L			11/04/22 15:43	1
Ethylbenzene	<1.0		1.0		ug/L			11/04/22 15:43	1
Xylenes, Total	<10		10		ug/L			11/04/22 15:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*72 - 119*		*11/04/22 15:43*	*1*
Dibromofluoromethane	*104*		*75 - 126*		*11/04/22 15:43*	*1*
Toluene-d8 (Surr)	*101*		*64 - 132*		*11/04/22 15:43*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Fogelson 4-1 Com #14.00

Job ID: 400-228125-1

Client Sample ID: MW-10

Date Collected: 10/30/22 14:18
Date Received: 11/01/22 09:09

Lab Sample ID: 400-228125-9

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**54**		5.0		ug/L			11/04/22 10:36	5
Toluene	<5.0		5.0		ug/L			11/04/22 10:36	5
Ethylbenzene	**1000**		5.0		ug/L			11/04/22 10:36	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*72 - 119*		*11/04/22 10:36*	*5*
Dibromofluoromethane	*103*		*75 - 126*		*11/04/22 10:36*	*5*
Toluene-d8 (Surr)	*105*		*64 - 132*		*11/04/22 10:36*	*5*

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	**2100**		100		ug/L			11/04/22 17:53	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*72 - 119*		*11/04/22 17:53*	*10*
Dibromofluoromethane	*101*		*75 - 126*		*11/04/22 17:53*	*10*
Toluene-d8 (Surr)	*107*		*64 - 132*		*11/04/22 17:53*	*10*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Fogelson 4-1 Com #14.00

Job ID: 400-228125-1

Client Sample ID: MW-11

Date Collected: 10/30/22 14:25
Date Received: 11/01/22 09:09

Lab Sample ID: 400-228125-10

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/04/22 16:09	1
Toluene	<1.0		1.0		ug/L			11/04/22 16:09	1
Ethylbenzene	<1.0		1.0		ug/L			11/04/22 16:09	1
Xylenes, Total	<10		10		ug/L			11/04/22 16:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*72 - 119*		*11/04/22 16:09*	*1*
Dibromofluoromethane	*101*		*75 - 126*		*11/04/22 16:09*	*1*
Toluene-d8 (Surr)	*102*		*64 - 132*		*11/04/22 16:09*	*1*

Definitions/Glossary

Client: Stantec Consulting Services Inc
Project/Site: Fogelson 4-1 Com #14.00

Job ID: 400-228125-1

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

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Fogelson 4-1 Com #14.00

Job ID: 400-228125-1

Client Sample ID: TB-01
Date Collected: 10/30/22 13:00
Date Received: 11/01/22 09:09

Lab Sample ID: 400-228125-1
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	599175	11/04/22 08:58	WPD	EET PEN
	Instrument ID: CH_CONAN									

Client Sample ID: DUP-01
Date Collected: 10/30/22 14:15
Date Received: 11/01/22 09:09

Lab Sample ID: 400-228125-2
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	599175	11/04/22 13:06	WPD	EET PEN
	Instrument ID: CH_CONAN									

Client Sample ID: MW-1R
Date Collected: 10/30/22 13:30
Date Received: 11/01/22 09:09

Lab Sample ID: 400-228125-3
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		1	5 mL	5 mL	599175	11/04/22 13:32	WPD	EET PEN
	Instrument ID: CH_CONAN									

Client Sample ID: MW-4
Date Collected: 10/30/22 13:38
Date Received: 11/01/22 09:09

Lab Sample ID: 400-228125-4
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	599175	11/04/22 13:58	WPD	EET PEN
	Instrument ID: CH_CONAN									

Client Sample ID: MW-6
Date Collected: 10/30/22 13:46
Date Received: 11/01/22 09:09

Lab Sample ID: 400-228125-5
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	599175	11/04/22 15:17	WPD	EET PEN
	Instrument ID: CH_CONAN									

Client Sample ID: MW-7
Date Collected: 10/30/22 13:13
Date Received: 11/01/22 09:09

Lab Sample ID: 400-228125-6
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	599175	11/04/22 14:24	WPD	EET PEN
	Instrument ID: CH_CONAN									

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Fogelson 4-1 Com #14.00

Job ID: 400-228125-1

Client Sample ID: MW-8
Date Collected: 10/30/22 13:55
Date Received: 11/01/22 09:09

Lab Sample ID: 400-228125-7
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	599175	11/04/22 14:50	WPD	EET PEN
	Instrument ID: CH_CONAN									

Client Sample ID: MW-9
Date Collected: 10/30/22 14:05
Date Received: 11/01/22 09:09

Lab Sample ID: 400-228125-8
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	599175	11/04/22 15:43	WPD	EET PEN
	Instrument ID: CH_CONAN									

Client Sample ID: MW-10
Date Collected: 10/30/22 14:18
Date Received: 11/01/22 09:09

Lab Sample ID: 400-228125-9
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		5	5 mL	5 mL	599175	11/04/22 10:36	WPD	EET PEN
	Instrument ID: CH_CONAN									
Total/NA	Analysis	8260C	DL	10	5 mL	5 mL	599175	11/04/22 17:53	WPD	EET PEN
	Instrument ID: CH_CONAN									

Client Sample ID: MW-11
Date Collected: 10/30/22 14:25
Date Received: 11/01/22 09:09

Lab Sample ID: 400-228125-10
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	599175	11/04/22 16:09	WPD	EET PEN
	Instrument ID: CH_CONAN									

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

QC Association Summary

Client: Stantec Consulting Services Inc
Project/Site: Fogelson 4-1 Com #14.00

Job ID: 400-228125-1

GC/MS VOA

Analysis Batch: 599175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-228125-1	TB-01	Total/NA	Water	8260C	
400-228125-2	DUP-01	Total/NA	Water	8260C	
400-228125-3	MW-1R	Total/NA	Water	8260C	
400-228125-4	MW-4	Total/NA	Water	8260C	
400-228125-5	MW-6	Total/NA	Water	8260C	
400-228125-6	MW-7	Total/NA	Water	8260C	
400-228125-7	MW-8	Total/NA	Water	8260C	
400-228125-8	MW-9	Total/NA	Water	8260C	
400-228125-9	MW-10	Total/NA	Water	8260C	
400-228125-9 - DL	MW-10	Total/NA	Water	8260C	
400-228125-10	MW-11	Total/NA	Water	8260C	
MB 400-599175/5	Method Blank	Total/NA	Water	8260C	
LCS 400-599175/1003	Lab Control Sample	Total/NA	Water	8260C	
400-227727-B-3 MS	Matrix Spike	Total/NA	Water	8260C	
400-227727-B-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260C	

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Fogelson 4-1 Com #14.00

Job ID: 400-228125-1

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

Lab Sample ID: MB 400-599175/5
Matrix: Water
Analysis Batch: 599175

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			11/04/22 08:34	1
Toluene	<1.0		1.0		ug/L			11/04/22 08:34	1
Ethylbenzene	<1.0		1.0		ug/L			11/04/22 08:34	1
Xylenes, Total	<10		10		ug/L			11/04/22 08:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*72 - 119*		*11/04/22 08:34*	*1*
Dibromofluoromethane	*102*		*75 - 126*		*11/04/22 08:34*	*1*
Toluene-d8 (Surr)	*99*		*64 - 132*		*11/04/22 08:34*	*1*

Lab Sample ID: LCS 400-599175/1003
Matrix: Water
Analysis Batch: 599175

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	47.6		ug/L		95	70 - 130		
Toluene			50.0	46.0		ug/L		92	70 - 130		
Ethylbenzene			50.0	48.2		ug/L		96	70 - 130		
Xylenes, Total			100	95.2		ug/L		95	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*72 - 119*
Dibromofluoromethane	*102*		*75 - 126*
Toluene-d8 (Surr)	*98*		*64 - 132*

Lab Sample ID: 400-227727-B-3 MS
Matrix: Water
Analysis Batch: 599175

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	41.4		ug/L		83	56 - 142		
Toluene	<1.0		50.0	40.8		ug/L		82	65 - 130		
Ethylbenzene	<1.0		50.0	42.0		ug/L		84	58 - 131		
Xylenes, Total	<10		100	84.3		ug/L		84	59 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*103*		*72 - 119*
Dibromofluoromethane	*99*		*75 - 126*
Toluene-d8 (Surr)	*97*		*64 - 132*

Lab Sample ID: 400-227727-B-3 MSD
Matrix: Water
Analysis Batch: 599175

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	49.7		ug/L		99	56 - 142	18	30
Toluene	<1.0		50.0	47.6		ug/L		95	65 - 130	15	30
Ethylbenzene	<1.0		50.0	51.4		ug/L		103	58 - 131	20	30

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Fogelson 4-1 Com #14.00

Job ID: 400-228125-1

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

Lab Sample ID: 400-227727-B-3 MSD
Matrix: Water
Analysis Batch: 599175

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	103		ug/L		103	59 - 130	20	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*72 - 119*
Dibromofluoromethane	*100*		*75 - 126*
Toluene-d8 (Surr)	*99*		*64 - 132*

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

Chain of Custody Record

eurofins

Client Information	Sampler: SLC	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-114529-37671.1
Client Contact: Steve Varsa	Phone: 9134880281	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin: NM	Page: Page 1 of 2
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:	PO #: WD1040037			
Email: steve.varsa@stantec.com	WO #: ERG-STN-10-07-22-SAH-03			
Project Name: Fogelson 4-1 Com #14.00 SemiAnnual	Project #: 40005479			
Site: Fogelson 4-1	SSOW#:			

Analysis Requested

400-228125 COC

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, Y - Trizma, 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 (Yes or No)	8260C - BTEX 8260	8260C - BTEX 8260 (unpreserved)	Total Number of containers	Special Instructions/Note:
STN-C3			Preservation Code:				A	N		
TB-C1	10/30/22	1300	G	Water			2		2	Trip Blank
DUP C1	10/30/22	1415	G	Water			3		3	
MW-12	10/30/22	1330	G	Water			3		3	
MW-4	10/30/22	1334	G	Water			3		3	
MW-6	10/30/22	1316	G	Water			3		3	
MW-7	10/30/22	1313	G	Water			3		3	
MW-8	10/30/22	1355	G	Water			3		3	
MW-9	10/30/22	1405	G	Water			3		3	
MW-10	10/30/22	1416	G	Water			3		3	
MW-11	10/30/22	1425	G	Water			3		3	
				Water						

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:	Date/Time:	Company	Received by:	Date/Time:	Company
1		10/31/22 1100	STN		11-1-22 909	
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	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: 0.7°C IR8

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc Job Number: 400-228125-1

Login Number: 228125 **List Source: Eurofins Pensacola**
List Number: 1
Creator: Roberts, Alexis J

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	0.7°C IR8
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	

Accreditation/Certification Summary

Client: Stantec Consulting Services Inc
Job ID: 400-228125-1
Project/Site: Fogelson 4-1 Com #14.00

Laboratory: Eurofins 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	06-30-23
ANAB	ISO/IEC 17025	L2471	02-23-23
Arkansas DEQ	State	88-0689	09-01-23
California	State	2510	06-30-23
Florida	NELAP	E81010	06-30-23
Georgia	State	E81010(FL)	06-30-23
Illinois	NELAP	200041	10-09-23
Kansas	NELAP	E-10253	10-31-23
Kentucky (UST)	State	53	06-30-23
Kentucky (WW)	State	KY98030	12-31-22
Louisiana (All)	NELAP	30976	06-30-23
Louisiana (DW)	State	LA017	12-31-22
Maryland	State	233	09-30-23
Michigan	State	9912	06-30-23
North Carolina (WW/SW)	State	314	12-31-22
Oklahoma	NELAP	9810	08-31-23
Pennsylvania	NELAP	68-00467	01-31-23
South Carolina	State	96026	06-30-23
Tennessee	State	TN02907	06-30-23
Texas	NELAP	T104704286	09-30-23
US Fish & Wildlife	US Federal Programs	A22340	06-30-23
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-23
West Virginia DEP	State	136	03-31-23

Eurofins Pensacola

Job Notes

The test results in this report meet all NELAP requirements for accredited parameters, unless otherwise noted, and relate only to the referenced samples. Pursuant to NELAP, this report may not be reproduced, except in full, without written approval from the laboratory. For questions please contact the Project Manager at the e-mail address listed on this page, or the telephone number at the bottom of the page. Eurofins Environment Testing Southeast LLC, Pensacola Certifications and Approvals: Alabama (40150), Arizona (AZ0710), Arkansas (88-0689), Florida (E81010), Illinois (200041), Iowa (367), Kansas (E-10253), Kentucky UST (53), Louisiana (30748), Maryland (233), Massachusetts (M-FL094), Michigan (9912), New Hampshire (250510), New Jersey (FL006), North Carolina (314), Oklahoma (9810), Pennsylvania (68-00467), Rhode Island (LAO00307), South Carolina (96026), Tennessee (TN02907), Texas (T104704286-10-2), Virginia (00008), Washington (C2043), West Virginia (136), USDA Foreign Soil Permit (P330-08-00006).

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization

Generated
11/16/2022 10:07:04 AM

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APPENDIX G

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 400-218854-1
Laboratory Sample Delivery Group: EPCGP
Client Project/Site: Folgelson #4-1
Revision: 1

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

Attn: Steve Varsa

Authorized for release by:
6/22/2022 9:24:29 AM
Isabel Enfinger, Project Manager I
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Client: Stantec Consulting Services Inc
Project/Site: Folgelson #4-1

Laboratory Job ID: 400-218854-1
SDG: EPCGP

Table of Contents

Case Narrative

Client: Stantec Consulting Services Inc
Project/Site: Folgelson #4-1

Job ID: 400-218854-1
SDG: EPCGP

Job ID: 400-218854-1

Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-218854-1

Receipt
The sample was received on 4/22/2022 9:04 AM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.8º C.

GC Semi VOA
Method 8015B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-575607 and analytical batch 400-575887 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015B: Due to the high concentration of Diesel Range Organics [C10-C28], the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 400-577949 and analytical batch 400-578148 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method 8015B: The following sample was re-prepared outside of preparation holding time due to n-Decanoic Acid (Surr) surrogate failure: MW10 (39-40 FT.) (400-218854-1).

Method 8015B: n-Decanoic Acid (Surr) surrogate recovery for the following samples were outside control limits: MW10 (39-40 FT.) (400-218854-1) and (LCS 400-575607/2-A). Re-extraction and/or re-analysis was performed outside of holding time with acceptable results. Both sets of data have been reported.

Method 8015B: The surrogate recovery for the blank associated with preparation batch 400-575607 and analytical batch 400-576126 was outside the upper control limits.

Method 8015B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-575607 and analytical batch 400-576126 were outside control limits.

Method 8015B: o-Terphenyl surrogate recovery for the following sample was outside control limits: (400-218854-A-1-C MS).

Method 8015B: The following sample was diluted to bring the concentration of target analytes within the calibration range: (400-219988-A-1-C). Elevated reporting limits (RLs) are provided.

Organic Prep
Method 3546: The following samples formed a large precipitate during the concentration procedure: MW10 (39-40 FT.) (400-218854-1), (400-218854-A-1 MS) and (400-218854-A-1 MSD)

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

Detection Summary

Client: Stantec Consulting Services Inc
Project/Site: Folgelson #4-1

Job ID: 400-218854-1
SDG: EPCGP

Client Sample ID: MW10 (39-40 FT.)

Lab Sample ID: 400-218854-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO)-C6-C10	0.30		0.11		mg/Kg	1	☼	8015B	Total/NA
Diesel Range Organics (DRO)	57	F1	5.4		mg/Kg	1	☼	8015B	Total/NA
Diesel Range Organics (DRO)	64	F1	8.5		mg/Kg	1.56	☼	8015B	Total/NA
Oil Range Organics (ORO)	8.4		5.4		mg/Kg	1	☼	8015B	Total/NA
Diesel Range Organics (DRO) - RE	18	H	11		mg/Kg	1	☼	8015B	Total/NA
Chloride	34		22		mg/Kg	1	☼	300.0	Soluble

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Stantec Consulting Services Inc
Project/Site: Folgelson #4-1

Job ID: 400-218854-1
SDG: EPCGP

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PEN
8015B	Gasoline Range Organics - (GC)	SW846	TAL PEN
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PEN
300.0	Anions, Ion Chromatography	MCAWW	TAL PEN
Moisture	Percent Moisture	EPA	TAL PEN
3546	Microwave Extraction	SW846	TAL PEN
5035	Closed System Purge and Trap	SW846	TAL PEN
DI Leach	Deionized Water Leaching Procedure	ASTM	TAL PEN

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

Laboratory References:

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

Sample Summary

Client: Stantec Consulting Services Inc
Project/Site: Folgelson #4-1

Job ID: 400-218854-1
SDG: EPCGP

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-218854-1	MW10 (39-40 FT.)	Solid	04/20/22 10:55	04/22/22 09:04

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Folgelson #4-1

Job ID: 400-218854-1
SDG: EPCGP

Client Sample ID: MW10 (39-40 FT.)

Date Collected: 04/20/22 10:55
Date Received: 04/22/22 09:04

Lab Sample ID: 400-218854-1

Matrix: Solid
Percent Solids: 90.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0056		0.0056		mg/Kg	☼	04/26/22 12:43	04/26/22 23:49	1
Ethylbenzene	<0.0056		0.0056		mg/Kg	☼	04/26/22 12:43	04/26/22 23:49	1
Toluene	<0.0056		0.0056		mg/Kg	☼	04/26/22 12:43	04/26/22 23:49	1
Xylenes, Total	<0.011		0.011		mg/Kg	☼	04/26/22 12:43	04/26/22 23:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*106*		*67 - 130*	*04/26/22 12:43*	*04/26/22 23:49*	*1*
Dibromofluoromethane	*101*		*77 - 127*	*04/26/22 12:43*	*04/26/22 23:49*	*1*
Toluene-d8 (Surr)	*95*		*76 - 127*	*04/26/22 12:43*	*04/26/22 23:49*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**0.30**		0.11		mg/Kg	☼	04/22/22 10:42	04/22/22 14:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*101*		*65 - 125*	*04/22/22 10:42*	*04/22/22 14:27*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	**57**	**F1**	5.4		mg/Kg	☼	04/28/22 08:43	04/30/22 00:29	1
Diesel Range Organics (DRO)	**64**	**F1**	8.5		mg/Kg	☼	04/28/22 08:43	05/03/22 11:11	1.56
Oil Range Organics (ORO)	**8.4**		5.4		mg/Kg	☼	04/28/22 08:43	04/30/22 00:29	1
Oil Range Organics (ORO)	<8.5		8.5		mg/Kg	☼	04/28/22 08:43	05/03/22 11:11	1.56

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*47*		*27 - 150*	*04/28/22 08:43*	*04/30/22 00:29*	*1*
o-Terphenyl	*44*		*27 - 150*	*04/28/22 08:43*	*05/03/22 11:11*	*1.56*
n-Decanoic Acid (Surr)	*153*	*S1+*	*0 - 1*	*04/28/22 08:43*	*05/03/22 11:11*	*1.56*

Method: 8015B - Diesel Range Organics (DRO) (GC) - RE

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	**18**	**H**	11		mg/Kg	☼	05/18/22 14:13	05/19/22 16:32	1
Oil Range Organics (ORO)	<11	H	11		mg/Kg	☼	05/18/22 14:13	05/19/22 16:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*44*		*27 - 150*	*05/18/22 14:13*	*05/19/22 16:32*	*1*
n-Decanoic Acid (Surr)	*0*		*0 - 1*	*05/18/22 14:13*	*05/19/22 16:32*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**34**		22		mg/Kg	☼		04/28/22 15:05	1

Definitions/Glossary

Client: Stantec Consulting Services Inc
Project/Site: Folgelson #4-1

Job ID: 400-218854-1
SDG: EPCGP

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
H	Sample was prepped or analyzed beyond the specified holding time
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

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

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Folgelson #4-1

Job ID: 400-218854-1
SDG: EPCGP

Client Sample ID: MW10 (39-40 FT.)

Date Collected: 04/20/22 10:55
Date Received: 04/22/22 09:04

Lab Sample ID: 400-218854-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			575291	04/26/22 09:10	AW	TAL PEN
	Instrument ID: NOEQUIP									

Client Sample ID: MW10 (39-40 FT.)

Date Collected: 04/20/22 10:55
Date Received: 04/22/22 09:04

Lab Sample ID: 400-218854-1

Matrix: Solid
Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5.00 g	575371	04/26/22 12:43	BEP	TAL PEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	575350	04/26/22 23:49	BEP	TAL PEN
	Instrument ID: CH_TAN									
Total/NA	Prep	5035			5.08 g	5.00 g	574888	04/22/22 10:42	NTH	TAL PEN
Total/NA	Analysis	8015B		1	5 mL	5 mL	574890	04/22/22 14:27	NTH	TAL PEN
	Instrument ID: CH_RITA									
Total/NA	Prep	3546			15.24 g	1 mL	575607	04/28/22 08:43	BKL	TAL PEN
Total/NA	Analysis	8015B		1			575887	04/30/22 00:29	CJ	TAL PEN
	Instrument ID: Eva									
Total/NA	Prep	3546			15.24 g	1 mL	575607	04/28/22 08:43	BKL	TAL PEN
Total/NA	Analysis	8015B		1.56			576126	05/03/22 11:11	JAW	TAL PEN
	Instrument ID: WALLE									
Total/NA	Prep	3546	RE		15.20 g	2 mL	577949	05/18/22 14:13	NGB	TAL PEN
Total/NA	Analysis	8015B	RE	1			578170	05/19/22 16:32	JAW	TAL PEN
	Instrument ID: WALLE									
Soluble	Leach	DI Leach			2.515 g	50 mL	575302	04/26/22 09:43	JAS	TAL PEN
Soluble	Analysis	300.0		1			575647	04/28/22 15:05	JAS	TAL PEN
	Instrument ID: Stitch									

Laboratory References:

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

QC Association Summary

Client: Stantec Consulting Services Inc
Project/Site: Folgelson #4-1

Job ID: 400-218854-1
SDG: EPCGP

GC/MS VOA

Analysis Batch: 575350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-218854-1	MW10 (39-40 FT.)	Total/NA	Solid	8260B	575371
MB 400-575371/2-A	Method Blank	Total/NA	Solid	8260B	575371
LCS 400-575371/1-A	Lab Control Sample	Total/NA	Solid	8260B	575371
400-218886-B-29-D MS	Matrix Spike	Total/NA	Solid	8260B	575371
400-218886-C-29-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	575371

Prep Batch: 575371

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-218854-1	MW10 (39-40 FT.)	Total/NA	Solid	5035	
MB 400-575371/2-A	Method Blank	Total/NA	Solid	5035	
LCS 400-575371/1-A	Lab Control Sample	Total/NA	Solid	5035	
400-218886-B-29-D MS	Matrix Spike	Total/NA	Solid	5035	
400-218886-C-29-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

GC VOA

Prep Batch: 574888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-218854-1	MW10 (39-40 FT.)	Total/NA	Solid	5035	
MB 400-574888/2-A	Method Blank	Total/NA	Solid	5035	
LCS 400-574888/1-A	Lab Control Sample	Total/NA	Solid	5035	
400-218818-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
400-218818-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 574890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-218854-1	MW10 (39-40 FT.)	Total/NA	Solid	8015B	574888
MB 400-574888/2-A	Method Blank	Total/NA	Solid	8015B	574888
LCS 400-574888/1-A	Lab Control Sample	Total/NA	Solid	8015B	574888
400-218818-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B	574888
400-218818-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	574888

GC Semi VOA

Prep Batch: 575607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-218854-1	MW10 (39-40 FT.)	Total/NA	Solid	3546	
MB 400-575607/1-A	Method Blank	Total/NA	Solid	3546	
LCS 400-575607/2-A	Lab Control Sample	Total/NA	Solid	3546	
400-218854-1 MS	MW10 (39-40 FT.)	Total/NA	Solid	3546	
400-218854-1 MSD	MW10 (39-40 FT.)	Total/NA	Solid	3546	

Analysis Batch: 575887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-218854-1	MW10 (39-40 FT.)	Total/NA	Solid	8015B	575607
MB 400-575607/1-A	Method Blank	Total/NA	Solid	8015B	575607
LCS 400-575607/2-A	Lab Control Sample	Total/NA	Solid	8015B	575607
400-218854-1 MS	MW10 (39-40 FT.)	Total/NA	Solid	8015B	575607
400-218854-1 MSD	MW10 (39-40 FT.)	Total/NA	Solid	8015B	575607

QC Association Summary

Client: Stantec Consulting Services Inc
Project/Site: Folgelson #4-1

Job ID: 400-218854-1
SDG: EPCGP

GC Semi VOA

Analysis Batch: 576126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-218854-1	MW10 (39-40 FT.)	Total/NA	Solid	8015B	575607
MB 400-575607/1-A	Method Blank	Total/NA	Solid	8015B	575607
LCS 400-575607/2-A	Lab Control Sample	Total/NA	Solid	8015B	575607
400-218854-1 MS	MW10 (39-40 FT.)	Total/NA	Solid	8015B	575607
400-218854-1 MSD	MW10 (39-40 FT.)	Total/NA	Solid	8015B	575607

Prep Batch: 577949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-218854-1 - RE	MW10 (39-40 FT.)	Total/NA	Solid	3546	
MB 400-577949/20-A	Method Blank	Total/NA	Solid	3546	
LCS 400-577949/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 578170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-218854-1 - RE	MW10 (39-40 FT.)	Total/NA	Solid	8015B	577949
MB 400-577949/20-A	Method Blank	Total/NA	Solid	8015B	577949
LCS 400-577949/2-A	Lab Control Sample	Total/NA	Solid	8015B	577949

HPLC/IC

Leach Batch: 575302

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-218854-1	MW10 (39-40 FT.)	Soluble	Solid	DI Leach	
MB 400-575302/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 400-575302/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 400-575302/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
400-218622-B-1-E MS	Matrix Spike	Soluble	Solid	DI Leach	
400-218622-B-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 575647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-218854-1	MW10 (39-40 FT.)	Soluble	Solid	300.0	575302
MB 400-575302/1-A	Method Blank	Soluble	Solid	300.0	575302
LCS 400-575302/2-A	Lab Control Sample	Soluble	Solid	300.0	575302
LCSD 400-575302/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	575302
400-218622-B-1-E MS	Matrix Spike	Soluble	Solid	300.0	575302
400-218622-B-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	575302

General Chemistry

Analysis Batch: 575291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-218854-1	MW10 (39-40 FT.)	Total/NA	Solid	Moisture	
400-218854-1 DU	MW10 (39-40 FT.)	Total/NA	Solid	Moisture	

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Folgelson #4-1

Job ID: 400-218854-1
SDG: EPCGP

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-575371/2-A
Matrix: Solid
Analysis Batch: 575350

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 575371

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0050		0.0050		mg/Kg		04/26/22 12:43	04/26/22 14:45	1
Ethylbenzene	<0.0050		0.0050		mg/Kg		04/26/22 12:43	04/26/22 14:45	1
Toluene	<0.0050		0.0050		mg/Kg		04/26/22 12:43	04/26/22 14:45	1
Xylenes, Total	<0.010		0.010		mg/Kg		04/26/22 12:43	04/26/22 14:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*104*		*67 - 130*	*04/26/22 12:43*	*04/26/22 14:45*	*1*
Dibromofluoromethane	*99*		*77 - 127*	*04/26/22 12:43*	*04/26/22 14:45*	*1*
Toluene-d8 (Surr)	*96*		*76 - 127*	*04/26/22 12:43*	*04/26/22 14:45*	*1*

Lab Sample ID: LCS 400-575371/1-A
Matrix: Solid
Analysis Batch: 575350

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575371

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.0500	0.0503		mg/Kg		101	65 - 130		
Ethylbenzene			0.0500	0.0488		mg/Kg		98	70 - 130		
Toluene			0.0500	0.0493		mg/Kg		99	70 - 130		
Xylenes, Total			0.100	0.0965		mg/Kg		96	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*109*		*67 - 130*
Dibromofluoromethane	*101*		*77 - 127*
Toluene-d8 (Surr)	*97*		*76 - 127*

Lab Sample ID: 400-218886-B-29-D MS
Matrix: Solid
Analysis Batch: 575350

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 575371

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.0049		0.0506	0.0423		mg/Kg	☼	81	38 - 131		
Ethylbenzene	<0.0049		0.0506	0.0366		mg/Kg	☼	72	35 - 130		
Toluene	<0.0049		0.0506	0.0390		mg/Kg	☼	77	42 - 130		
Xylenes, Total	<0.0097		0.101	0.0716		mg/Kg	☼	71	35 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*105*		*67 - 130*
Dibromofluoromethane	*100*		*77 - 127*
Toluene-d8 (Surr)	*95*		*76 - 127*

Lab Sample ID: 400-218886-C-29-C MSD
Matrix: Solid
Analysis Batch: 575350

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 575371

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.0049		0.0513	0.0540		mg/Kg	☼	102	38 - 131	24	36
Ethylbenzene	<0.0049		0.0513	0.0464		mg/Kg	☼	91	35 - 130	24	46
Toluene	<0.0049		0.0513	0.0495		mg/Kg	☼	97	42 - 130	24	37

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Folgelson #4-1

Job ID: 400-218854-1
SDG: EPCGP

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

Lab Sample ID: 400-218886-C-29-C MSD
Matrix: Solid
Analysis Batch: 575350

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 575371

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Xylenes, Total	<0.0097		0.103	0.0911		mg/Kg	☼	89	35 - 130	24	39

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*106*		*67 - 130*
Dibromofluoromethane	*100*		*77 - 127*
Toluene-d8 (Surr)	*95*		*76 - 127*

Method: 8015B - Gasoline Range Organics - (GC)

Lab Sample ID: MB 400-574888/2-A
Matrix: Solid
Analysis Batch: 574890

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 574888

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.10		0.10		mg/Kg		04/22/22 10:42	04/22/22 17:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*98*		*65 - 125*	*04/22/22 10:42*	*04/22/22 17:49*	*1*

Lab Sample ID: LCS 400-574888/1-A
Matrix: Solid
Analysis Batch: 574890

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 574888

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1.00	0.918		mg/Kg		92	62 - 141		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*97*		*65 - 125*

Lab Sample ID: 400-218818-A-1-B MS
Matrix: Solid
Analysis Batch: 574890

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 574888

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1.5		1.04	2.73		mg/Kg	☼	120	10 - 150		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*112*		*65 - 125*

Lab Sample ID: 400-218818-A-1-C MSD
Matrix: Solid
Analysis Batch: 574890

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 574888

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1.5		1.06	2.27		mg/Kg	☼	74	10 - 150	18	32

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Folgelson #4-1

Job ID: 400-218854-1
SDG: EPCGP

Method: 8015B - Gasoline Range Organics - (GC) (Continued)

Surrogate	MSD %Recovery	MSD Qualifier	Limits
a,a,a-Trifluorotoluene (fid)	110		65 - 125

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 400-575607/1-A
Matrix: Solid
Analysis Batch: 575887

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 575607

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<5.0		5.0		mg/Kg		04/28/22 08:43	04/29/22 23:12	1
Oil Range Organics (ORO)	<5.0		5.0		mg/Kg		04/28/22 08:43	04/29/22 23:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	91		27 - 150	04/28/22 08:43	04/29/22 23:12	1

Lab Sample ID: MB 400-575607/1-A
Matrix: Solid
Analysis Batch: 576126

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 575607

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<8.6		8.6		mg/Kg		04/28/22 08:43	05/03/22 10:08	1.72
Oil Range Organics (ORO)	<8.6		8.6		mg/Kg		04/28/22 08:43	05/03/22 10:08	1.72

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	73		27 - 150	04/28/22 08:43	05/03/22 10:08	1.72
n-Decanoic Acid (Surr)	133	S1+	0 - 1	04/28/22 08:43	05/03/22 10:08	1.72

Lab Sample ID: LCS 400-575607/2-A
Matrix: Solid
Analysis Batch: 575887

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575607

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics (DRO)			274	242		mg/Kg		88	38 - 116		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	86		27 - 150

Lab Sample ID: LCS 400-575607/2-A
Matrix: Solid
Analysis Batch: 576126

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575607

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics (DRO)			274	210		mg/Kg		77	38 - 116		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	74		27 - 150
n-Decanoic Acid (Surr)	110	S1+	0 - 1

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Folgelson #4-1

Job ID: 400-218854-1
SDG: EPCGP

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 400-218854-1 MS
Matrix: Solid
Analysis Batch: 575887

Client Sample ID: MW10 (39-40 FT.)
Prep Type: Total/NA
Prep Batch: 575607

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics (DRO)	57	F1	301	123	F1	mg/Kg	☼	22	62 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
o-Terphenyl	*28*		*27 - 150*

Lab Sample ID: 400-218854-1 MS
Matrix: Solid
Analysis Batch: 576126

Client Sample ID: MW10 (39-40 FT.)
Prep Type: Total/NA
Prep Batch: 575607

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics (DRO)	64	F1	301	88.8	F1	mg/Kg	☼	8	62 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
o-Terphenyl	*23*	*S1-*	*27 - 150*
n-Decanoic Acid (Surr)	*0*		*0 - 1*

Lab Sample ID: 400-218854-1 MSD
Matrix: Solid
Analysis Batch: 575887

Client Sample ID: MW10 (39-40 FT.)
Prep Type: Total/NA
Prep Batch: 575607

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics (DRO)	57	F1	302	137	F1	mg/Kg	☼	26	62 - 150	11	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl	*36*		*27 - 150*

Lab Sample ID: 400-218854-1 MSD
Matrix: Solid
Analysis Batch: 576126

Client Sample ID: MW10 (39-40 FT.)
Prep Type: Total/NA
Prep Batch: 575607

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics (DRO)	64	F1	302	89.3	F1	mg/Kg	☼	8	62 - 150	0	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl	*31*		*27 - 150*
n-Decanoic Acid (Surr)	*0*		*0 - 1*

Lab Sample ID: MB 400-577949/20-A
Matrix: Solid
Analysis Batch: 578170

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 577949

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<10		10		mg/Kg		05/18/22 14:14	05/19/22 15:44	1
Oil Range Organics (ORO)	<10		10		mg/Kg		05/18/22 14:14	05/19/22 15:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*90*		*27 - 150*	*05/18/22 14:14*	*05/19/22 15:44*	*1*

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Folgelson #4-1

Job ID: 400-218854-1
SDG: EPCGP

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 400-577949/20-A
Matrix: Solid
Analysis Batch: 578170

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 577949

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Decanoic Acid (Surr)	0		0 - 1	05/18/22 14:14	05/19/22 15:44	1

Lab Sample ID: LCS 400-577949/2-A
Matrix: Solid
Analysis Batch: 578170

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 577949

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics (DRO)	267	198		mg/Kg		74	38 - 116

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	82		27 - 150
n-Decanoic Acid (Surr)	0		0 - 1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 400-575302/1-A
Matrix: Solid
Analysis Batch: 575647

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<20		20	mg/Kg			04/28/22 10:30	1

Lab Sample ID: LCS 400-575302/2-A
Matrix: Solid
Analysis Batch: 575647

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	99.7	99.8		mg/Kg		100	80 - 120

Lab Sample ID: LCSD 400-575302/3-A
Matrix: Solid
Analysis Batch: 575647

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	100	100		mg/Kg		100	80 - 120	0	15

Lab Sample ID: 400-218622-B-1-E MS
Matrix: Solid
Analysis Batch: 575647

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	<25		123	139		mg/Kg	☼	103	80 - 120

Lab Sample ID: 400-218622-B-1-F MSD
Matrix: Solid
Analysis Batch: 575647

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	<25		124	140		mg/Kg	☼	103	80 - 120	1	15

Eurofins Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Phone (850) 478-2671

Chain of Custody Record

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Client Information	Sampler: Rob Malcomson	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-110418-38777.1
Client Contact: Steve Varsa	Phone: 515 251 1019	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin: NM	Page: Page 1 of 1
Company: Stantec Consulting Services Inc	PWSID:			Job #: 193708847
Address: 11311 Aurora Avenue	Due Date Requested:			
City: Des Moines	TAT Requested (days): Standard			
State, Zip: IA, 50322-7904	Compliance Project: Δ Yes Δ No			
Phone: 515-251-1020	PO #: WD801911			
Email: steve.varsa@stantec.com	WO #:			
Project Name: Fogelson #4-1 (EPCGP)	Project #: 40005479			
Site:	SSOW#:			

Analysis Requested

400-218854 COC

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)	8260B - BTEX	8015B_GRO - GRO	8015B_DRO - DRO, ORO	9056_Total_Halo - Chloride	Moisture - Moisture	8260C - BTEX	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N	N	A		
MW10 (39 - 40 ft.)	4/20/22	1055	G	Solid			X	X	X	X	X		2	
Temperature Blank	—	—	—	Water									1	
				Solid										
				Water										

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:

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:	Date/Time: 4/21/22 1400	Company: Stantec	Received by: Fed Ex
Relinquished by:	Date/Time:	Company:	Received by:
Relinquished by:	Date/Time:	Company:	Received by:

Date/Time:	Company
4/21/22 1400	Fed Ex
4/22/22 904	CETS

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

Cooler Temperature(s) °C and Other Remarks: 3.8°C IR10

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc

Job Number: 400-218854-1
SDG Number: EPCGP

Login Number: 218854
List Number: 1
Creator: Perez, Trina M

List Source: Eurofins Pensacola

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	3.8°C IR-10
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").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: Stantec Consulting Services Inc
Project/Site: Folgelson #4-1

Job ID: 400-218854-1
SDG: EPCGP

Laboratory: Eurofins 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
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
Kansas	NELAP	E-10253	10-31-22
Kentucky (UST)	State	53	06-30-22
Kentucky (WW)	State	KY98030	12-31-22
Louisiana	NELAP	30976	06-30-22
Louisiana (DW)	State	LA017	12-31-22
Maryland	State	233	09-30-22
Massachusetts	State	M-FL094	06-30-22
Michigan	State	9912	06-30-22
North Carolina (WW/SW)	State	314	12-31-22
Oklahoma	NELAP	9810	08-31-22
Pennsylvania	NELAP	68-00467	01-31-23
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
West Virginia DEP	State	136	05-31-22

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ANALYTICAL REPORT

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

Laboratory Job ID: 400-226993-1
Client Project/Site: Fogelson #4

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

Attn: Steve Varsa

Authorized for release by:
10/18/2022 10:51:39 AM
Isabel Enfinger, Project Manager I
(850)471-6237
isabel.enfinger@et.eurofinsus.com

Designee for

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

Client: Stantec Consulting Services Inc
Project/Site: Fogelson #4

Laboratory Job ID: 400-226993-1

Table of Contents

Case Narrative

Client: Stantec Consulting Services Inc
Project/Site: Fogelson #4

Job ID: 400-226993-1

Job ID: 400-226993-1

Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-226993-1

Comments
No additional comments.

Receipt
The samples were received on 10/7/2022 9:24 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 3.1º C.

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

HPLC/IC
Method 300.0: The following continuing calibration blanks (CCB) contained Chloride above the method detection limit. This targ analyte concentration was less than half the reporting limit (1/2RL); therefore, re-extraction and re-analysis of samples was not performed.
(CCB 400-596045/16), (CCB 400-596045/28), (CCB 400-596045/40) and (CCB 400-596045/52)

Method 300.0: The following continuing calibration verification (CCV) was analyzed past its expiration date by four hours. Since target analytes have recovered within limits, the data have been reported.

(CCV 400-596045/51)

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

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

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

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

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

Lab Admin
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: Fogelson #4

Job ID: 400-226993-1

Client Sample ID: SB12 25-26' — Lab Sample ID: 400-226993-1

No Detections.

Client Sample ID: SB12 32-33' — Lab Sample ID: 400-226993-2

No Detections.

Client Sample ID: SB12 42-43' — Lab Sample ID: 400-226993-3

No Detections.

Client Sample ID: SB11/MW11 40-41' — Lab Sample ID: 400-226993-4

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Stantec Consulting Services Inc
Project/Site: Fogelson #4

Job ID: 400-226993-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET PEN
8015D	Gasoline Range Organics (GRO) (GC)	SW846	EET PEN
8015D	Diesel Range Organics (DRO) (GC)	SW846	EET PEN
300.0	Anions, Ion Chromatography	MCAWW	EET PEN
Moisture	Percent Moisture	EPA	EET PEN
3546	Microwave Extraction	SW846	EET PEN
5035	Closed System Purge and Trap	SW846	EET PEN
DI Leach	Deionized Water Leaching Procedure	ASTM	EET PEN

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

Laboratory References:

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

Sample Summary

Client: Stantec Consulting Services Inc
Project/Site: Fogelson #4

Job ID: 400-226993-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-226993-1	SB12 25-26'	Solid	10/04/22 12:40	10/07/22 09:24
400-226993-2	SB12 32-33'	Solid	10/04/22 13:50	10/07/22 09:24
400-226993-3	SB12 42-43'	Solid	10/05/22 08:55	10/07/22 09:24
400-226993-4	SB11/MW11 40-41'	Solid	10/05/22 12:35	10/07/22 09:24

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Fogelson #4

Job ID: 400-226993-1

Client Sample ID: SB12 25-26'

Date Collected: 10/04/22 12:40
Date Received: 10/07/22 09:24

Lab Sample ID: 400-226993-1

Matrix: Solid
Percent Solids: 91.8

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0055		0.0055		mg/Kg	☼	10/12/22 08:40	10/12/22 11:32	1
Toluene	<0.0055		0.0055		mg/Kg	☼	10/12/22 08:40	10/12/22 11:32	1
Ethylbenzene	<0.0055		0.0055		mg/Kg	☼	10/12/22 08:40	10/12/22 11:32	1
Xylenes, Total	<0.011		0.011		mg/Kg	☼	10/12/22 08:40	10/12/22 11:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*67 - 130*	*10/12/22 08:40*	*10/12/22 11:32*	*1*
Dibromofluoromethane	*101*		*77 - 127*	*10/12/22 08:40*	*10/12/22 11:32*	*1*
Toluene-d8 (Surr)	*99*		*76 - 127*	*10/12/22 08:40*	*10/12/22 11:32*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) C6--C10	<0.11		0.11		mg/Kg	☼	10/14/22 13:01	10/14/22 15:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*92*		*65 - 125*	*10/14/22 13:01*	*10/14/22 15:20*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<5.3		5.3		mg/Kg	☼	10/11/22 08:45	10/11/22 19:24	1
Oil Range Organics (ORO)	<5.3		5.3		mg/Kg	☼	10/11/22 08:45	10/11/22 19:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*66*		*27 - 150*	*10/11/22 08:45*	*10/11/22 19:24*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<22		22		mg/Kg	☼		10/12/22 23:02	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Fogelson #4

Job ID: 400-226993-1

Client Sample ID: SB12 32-33'

Date Collected: 10/04/22 13:50
Date Received: 10/07/22 09:24

Lab Sample ID: 400-226993-2

Matrix: Solid
Percent Solids: 95.3

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0051		0.0051		mg/Kg	☼	10/12/22 08:40	10/12/22 14:56	1
Toluene	<0.0051		0.0051		mg/Kg	☼	10/12/22 08:40	10/12/22 14:56	1
Ethylbenzene	<0.0051		0.0051		mg/Kg	☼	10/12/22 08:40	10/12/22 14:56	1
Xylenes, Total	<0.010		0.010		mg/Kg	☼	10/12/22 08:40	10/12/22 14:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*67 - 130*	*10/12/22 08:40*	*10/12/22 14:56*	*1*
Dibromofluoromethane	*99*		*77 - 127*	*10/12/22 08:40*	*10/12/22 14:56*	*1*
Toluene-d8 (Surr)	*99*		*76 - 127*	*10/12/22 08:40*	*10/12/22 14:56*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) C6--C10	<0.096		0.096		mg/Kg	☼	10/14/22 13:01	10/14/22 19:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*93*		*65 - 125*	*10/14/22 13:01*	*10/14/22 19:30*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<5.2		5.2		mg/Kg	☼	10/11/22 08:45	10/11/22 19:41	1
Oil Range Organics (ORO)	<5.2		5.2		mg/Kg	☼	10/11/22 08:45	10/11/22 19:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*83*		*27 - 150*	*10/11/22 08:45*	*10/11/22 19:41*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<21		21		mg/Kg	☼		10/12/22 23:23	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Fogelson #4

Job ID: 400-226993-1

Client Sample ID: SB12 42-43'

Date Collected: 10/05/22 08:55
Date Received: 10/07/22 09:24

Lab Sample ID: 400-226993-3

Matrix: Solid
Percent Solids: 91.0

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0054		0.0054		mg/Kg	☼	10/12/22 08:40	10/12/22 15:21	1
Toluene	<0.0054		0.0054		mg/Kg	☼	10/12/22 08:40	10/12/22 15:21	1
Ethylbenzene	<0.0054		0.0054		mg/Kg	☼	10/12/22 08:40	10/12/22 15:21	1
Xylenes, Total	<0.011		0.011		mg/Kg	☼	10/12/22 08:40	10/12/22 15:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*67 - 130*	*10/12/22 08:40*	*10/12/22 15:21*	*1*
Dibromofluoromethane	*100*		*77 - 127*	*10/12/22 08:40*	*10/12/22 15:21*	*1*
Toluene-d8 (Surr)	*98*		*76 - 127*	*10/12/22 08:40*	*10/12/22 15:21*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) C6--C10	<0.11		0.11		mg/Kg	☼	10/14/22 13:01	10/14/22 20:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*94*		*65 - 125*	*10/14/22 13:01*	*10/14/22 20:01*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<5.4		5.4		mg/Kg	☼	10/11/22 08:45	10/11/22 20:14	1
Oil Range Organics (ORO)	<5.4		5.4		mg/Kg	☼	10/11/22 08:45	10/11/22 20:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*68*		*27 - 150*	*10/11/22 08:45*	*10/11/22 20:14*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<22		22		mg/Kg	☼		10/13/22 00:25	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Fogelson #4

Job ID: 400-226993-1

Client Sample ID: SB11/MW11 40-41'

Date Collected: 10/05/22 12:35
Date Received: 10/07/22 09:24

Lab Sample ID: 400-226993-4

Matrix: Solid
Percent Solids: 94.7

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0053		0.0053		mg/Kg	☼	10/12/22 08:40	10/12/22 15:46	1
Toluene	<0.0053		0.0053		mg/Kg	☼	10/12/22 08:40	10/12/22 15:46	1
Ethylbenzene	<0.0053		0.0053		mg/Kg	☼	10/12/22 08:40	10/12/22 15:46	1
Xylenes, Total	<0.011		0.011		mg/Kg	☼	10/12/22 08:40	10/12/22 15:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*67 - 130*	*10/12/22 08:40*	*10/12/22 15:46*	*1*
Dibromofluoromethane	*101*		*77 - 127*	*10/12/22 08:40*	*10/12/22 15:46*	*1*
Toluene-d8 (Surr)	*98*		*76 - 127*	*10/12/22 08:40*	*10/12/22 15:46*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) C6--C10	<0.10		0.10		mg/Kg	☼	10/14/22 13:01	10/14/22 20:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*93*		*65 - 125*	*10/14/22 13:01*	*10/14/22 20:33*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<5.2		5.2		mg/Kg	☼	10/11/22 08:45	10/11/22 20:31	1
Oil Range Organics (ORO)	<5.2		5.2		mg/Kg	☼	10/11/22 08:45	10/11/22 20:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*84*		*27 - 150*	*10/11/22 08:45*	*10/11/22 20:31*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<21		21		mg/Kg	☼		10/13/22 00:46	1

Definitions/Glossary

Client: Stantec Consulting Services Inc
Project/Site: Fogelson #4

Job ID: 400-226993-1

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

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Fogelson #4

Job ID: 400-226993-1

Client Sample ID: SB12 25-26'
Date Collected: 10/04/22 12:40
Date Received: 10/07/22 09:24

Lab Sample ID: 400-226993-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			595807	10/11/22 11:28	WJM	EET PEN
	Instrument ID: NOEQUIP									

Client Sample ID: SB12 25-26'
Date Collected: 10/04/22 12:40
Date Received: 10/07/22 09:24

Lab Sample ID: 400-226993-1
Matrix: Solid
Percent Solids: 91.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5.00 g	596006	10/12/22 08:40	BPO	EET PEN
Total/NA	Analysis	8260C		1	5 mL	5 mL	595944	10/12/22 11:32	BPO	EET PEN
	Instrument ID: CH_LARS									
Total/NA	Prep	5035			5.07 g	5.00 g	596406	10/14/22 13:01	SAB	EET PEN
Total/NA	Analysis	8015D		1	5 mL	5 mL	596373	10/14/22 15:20	SAB	EET PEN
	Instrument ID: CH_JOAN									
Total/NA	Prep	3546			15.50 g	1 mL	595808	10/11/22 08:45	LH	EET PEN
Total/NA	Analysis	8015D		1	1 mL	1 mL	595896	10/11/22 19:24	RS	EET PEN
	Instrument ID: Eva									
Soluble	Leach	DI Leach			2.492 g	50 mL	595864	10/11/22 13:25	JAS	EET PEN
Soluble	Analysis	300.0		1	10 mL	10 mL	596045	10/12/22 23:02	JAS	EET PEN
	Instrument ID: IC2									

Client Sample ID: SB12 32-33'
Date Collected: 10/04/22 13:50
Date Received: 10/07/22 09:24

Lab Sample ID: 400-226993-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			595807	10/11/22 11:28	WJM	EET PEN
	Instrument ID: NOEQUIP									

Client Sample ID: SB12 32-33'
Date Collected: 10/04/22 13:50
Date Received: 10/07/22 09:24

Lab Sample ID: 400-226993-2
Matrix: Solid
Percent Solids: 95.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.13 g	5.00 g	596006	10/12/22 08:40	BPO	EET PEN
Total/NA	Analysis	8260C		1	5 mL	5 mL	595944	10/12/22 14:56	BPO	EET PEN
	Instrument ID: CH_LARS									
Total/NA	Prep	5035			5.45 g	5.00 g	596406	10/14/22 13:01	SAB	EET PEN
Total/NA	Analysis	8015D		1	5 mL	5 mL	596373	10/14/22 19:30	SAB	EET PEN
	Instrument ID: CH_JOAN									
Total/NA	Prep	3546			15.15 g	1 mL	595808	10/11/22 08:45	LH	EET PEN
Total/NA	Analysis	8015D		1	1 mL	1 mL	595896	10/11/22 19:41	RS	EET PEN
	Instrument ID: Eva									
Soluble	Leach	DI Leach			2.489 g	50 mL	595864	10/11/22 13:25	JAS	EET PEN
Soluble	Analysis	300.0		1	10 mL	10 mL	596045	10/12/22 23:23	JAS	EET PEN
	Instrument ID: IC2									

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Fogelson #4

Job ID: 400-226993-1

Client Sample ID: SB12 42-43'
Date Collected: 10/05/22 08:55
Date Received: 10/07/22 09:24

Lab Sample ID: 400-226993-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			595807	10/11/22 11:28	WJM	EET PEN
	Instrument ID: NOEQUIP									

Client Sample ID: SB12 42-43'
Date Collected: 10/05/22 08:55
Date Received: 10/07/22 09:24

Lab Sample ID: 400-226993-3
Matrix: Solid
Percent Solids: 91.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5.00 g	596006	10/12/22 08:40	BPO	EET PEN
Total/NA	Analysis	8260C		1	5 mL	5 mL	595944	10/12/22 15:21	BPO	EET PEN
	Instrument ID: CH_LARS									
Total/NA	Prep	5035			5.14 g	5.00 g	596406	10/14/22 13:01	SAB	EET PEN
Total/NA	Analysis	8015D		1	5 mL	5 mL	596373	10/14/22 20:01	SAB	EET PEN
	Instrument ID: CH_JOAN									
Total/NA	Prep	3546			15.16 g	1 mL	595808	10/11/22 08:45	LH	EET PEN
Total/NA	Analysis	8015D		1	1 mL	1 mL	595896	10/11/22 20:14	RS	EET PEN
	Instrument ID: Eva									
Soluble	Leach	DI Leach			2.488 g	50 mL	595864	10/11/22 13:25	JAS	EET PEN
Soluble	Analysis	300.0		1	10 mL	10 mL	596045	10/13/22 00:25	JAS	EET PEN
	Instrument ID: IC2									

Client Sample ID: SB11/MW11 40-41'
Date Collected: 10/05/22 12:35
Date Received: 10/07/22 09:24

Lab Sample ID: 400-226993-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			595807	10/11/22 11:28	WJM	EET PEN
	Instrument ID: NOEQUIP									

Client Sample ID: SB11/MW11 40-41'
Date Collected: 10/05/22 12:35
Date Received: 10/07/22 09:24

Lab Sample ID: 400-226993-4
Matrix: Solid
Percent Solids: 94.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5.00 g	596006	10/12/22 08:40	BPO	EET PEN
Total/NA	Analysis	8260C		1	5 mL	5 mL	595944	10/12/22 15:46	BPO	EET PEN
	Instrument ID: CH_LARS									
Total/NA	Prep	5035			5.25 g	5.00 g	596406	10/14/22 13:01	SAB	EET PEN
Total/NA	Analysis	8015D		1	5 mL	5 mL	596373	10/14/22 20:33	SAB	EET PEN
	Instrument ID: CH_JOAN									
Total/NA	Prep	3546			15.35 g	1 mL	595808	10/11/22 08:45	LH	EET PEN
Total/NA	Analysis	8015D		1	1 mL	1 mL	595896	10/11/22 20:31	RS	EET PEN
	Instrument ID: Eva									
Soluble	Leach	DI Leach			2.522 g	50 mL	595864	10/11/22 13:25	JAS	EET PEN
Soluble	Analysis	300.0		1	10 mL	10 mL	596045	10/13/22 00:46	JAS	EET PEN
	Instrument ID: IC2									

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Fogelson #4

Job ID: 400-226993-1

Laboratory References:

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

QC Association Summary

Client: Stantec Consulting Services Inc
Project/Site: Fogelson #4

Job ID: 400-226993-1

GC/MS VOA

Analysis Batch: 595944

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-226993-1	SB12 25-26'	Total/NA	Solid	8260C	596006
400-226993-2	SB12 32-33'	Total/NA	Solid	8260C	596006
400-226993-3	SB12 42-43'	Total/NA	Solid	8260C	596006
400-226993-4	SB11/MW11 40-41'	Total/NA	Solid	8260C	596006
MB 400-596006/2-A	Method Blank	Total/NA	Solid	8260C	596006
LCS 400-596006/1-A	Lab Control Sample	Total/NA	Solid	8260C	596006
400-226993-1 MS	SB12 25-26'	Total/NA	Solid	8260C	596006
400-226993-1 MSD	SB12 25-26'	Total/NA	Solid	8260C	596006

Prep Batch: 596006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-226993-1	SB12 25-26'	Total/NA	Solid	5035	
400-226993-2	SB12 32-33'	Total/NA	Solid	5035	
400-226993-3	SB12 42-43'	Total/NA	Solid	5035	
400-226993-4	SB11/MW11 40-41'	Total/NA	Solid	5035	
MB 400-596006/2-A	Method Blank	Total/NA	Solid	5035	
LCS 400-596006/1-A	Lab Control Sample	Total/NA	Solid	5035	
400-226993-1 MS	SB12 25-26'	Total/NA	Solid	5035	
400-226993-1 MSD	SB12 25-26'	Total/NA	Solid	5035	

GC VOA

Analysis Batch: 596373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-226993-1	SB12 25-26'	Total/NA	Solid	8015D	596406
400-226993-2	SB12 32-33'	Total/NA	Solid	8015D	596406
400-226993-3	SB12 42-43'	Total/NA	Solid	8015D	596406
400-226993-4	SB11/MW11 40-41'	Total/NA	Solid	8015D	596406
MB 400-596406/2-A	Method Blank	Total/NA	Solid	8015D	596406
LCS 400-596406/1-A	Lab Control Sample	Total/NA	Solid	8015D	596406
400-226993-1 MS	SB12 25-26'	Total/NA	Solid	8015D	596406
400-226993-1 MSD	SB12 25-26'	Total/NA	Solid	8015D	596406

Prep Batch: 596406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-226993-1	SB12 25-26'	Total/NA	Solid	5035	
400-226993-2	SB12 32-33'	Total/NA	Solid	5035	
400-226993-3	SB12 42-43'	Total/NA	Solid	5035	
400-226993-4	SB11/MW11 40-41'	Total/NA	Solid	5035	
MB 400-596406/2-A	Method Blank	Total/NA	Solid	5035	
LCS 400-596406/1-A	Lab Control Sample	Total/NA	Solid	5035	
400-226993-1 MS	SB12 25-26'	Total/NA	Solid	5035	
400-226993-1 MSD	SB12 25-26'	Total/NA	Solid	5035	

GC Semi VOA

Prep Batch: 595808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-226993-1	SB12 25-26'	Total/NA	Solid	3546	
400-226993-2	SB12 32-33'	Total/NA	Solid	3546	
400-226993-3	SB12 42-43'	Total/NA	Solid	3546	
400-226993-4	SB11/MW11 40-41'	Total/NA	Solid	3546	

QC Association Summary

Client: Stantec Consulting Services Inc
Project/Site: Fogelson #4

Job ID: 400-226993-1

GC Semi VOA (Continued)

Prep Batch: 595808 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-595808/1-A	Method Blank	Total/NA	Solid	3546	
LCS 400-595808/2-A	Lab Control Sample	Total/NA	Solid	3546	
400-227025-B-2-B MS	Matrix Spike	Total/NA	Solid	3546	
400-227025-B-2-C MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 595896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-226993-1	SB12 25-26'	Total/NA	Solid	8015D	595808
400-226993-2	SB12 32-33'	Total/NA	Solid	8015D	595808
400-226993-3	SB12 42-43'	Total/NA	Solid	8015D	595808
400-226993-4	SB11/MW11 40-41'	Total/NA	Solid	8015D	595808
MB 400-595808/1-A	Method Blank	Total/NA	Solid	8015D	595808
LCS 400-595808/2-A	Lab Control Sample	Total/NA	Solid	8015D	595808
400-227025-B-2-B MS	Matrix Spike	Total/NA	Solid	8015D	595808
400-227025-B-2-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015D	595808

HPLC/IC

Leach Batch: 595864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-226993-1	SB12 25-26'	Soluble	Solid	DI Leach	
400-226993-2	SB12 32-33'	Soluble	Solid	DI Leach	
400-226993-3	SB12 42-43'	Soluble	Solid	DI Leach	
400-226993-4	SB11/MW11 40-41'	Soluble	Solid	DI Leach	
MB 400-595864/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 400-595864/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 400-595864/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 596045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-226993-1	SB12 25-26'	Soluble	Solid	300.0	595864
400-226993-2	SB12 32-33'	Soluble	Solid	300.0	595864
400-226993-3	SB12 42-43'	Soluble	Solid	300.0	595864
400-226993-4	SB11/MW11 40-41'	Soluble	Solid	300.0	595864
MB 400-595864/1-A	Method Blank	Soluble	Solid	300.0	595864
LCS 400-595864/2-A	Lab Control Sample	Soluble	Solid	300.0	595864
LCSD 400-595864/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	595864

General Chemistry

Analysis Batch: 595807

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-226993-1	SB12 25-26'	Total/NA	Solid	Moisture	
400-226993-2	SB12 32-33'	Total/NA	Solid	Moisture	
400-226993-3	SB12 42-43'	Total/NA	Solid	Moisture	
400-226993-4	SB11/MW11 40-41'	Total/NA	Solid	Moisture	
400-227025-D-5 DU	Duplicate	Total/NA	Solid	Moisture	

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Fogelson #4

Job ID: 400-226993-1

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

Lab Sample ID: MB 400-596006/2-A
Matrix: Solid
Analysis Batch: 595944

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596006

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0050		0.0050		mg/Kg		10/12/22 08:40	10/12/22 10:41	1
Toluene	<0.0050		0.0050		mg/Kg		10/12/22 08:40	10/12/22 10:41	1
Ethylbenzene	<0.0050		0.0050		mg/Kg		10/12/22 08:40	10/12/22 10:41	1
Xylenes, Total	<0.010		0.010		mg/Kg		10/12/22 08:40	10/12/22 10:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*67 - 130*	*10/12/22 08:40*	*10/12/22 10:41*	*1*
Dibromofluoromethane	*99*		*77 - 127*	*10/12/22 08:40*	*10/12/22 10:41*	*1*
Toluene-d8 (Surr)	*98*		*76 - 127*	*10/12/22 08:40*	*10/12/22 10:41*	*1*

Lab Sample ID: LCS 400-596006/1-A
Matrix: Solid
Analysis Batch: 595944

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596006

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.0500	0.0481		mg/Kg		96	65 - 130		
Toluene			0.0500	0.0468		mg/Kg		94	70 - 130		
Ethylbenzene			0.0500	0.0461		mg/Kg		92	70 - 130		
Xylenes, Total			0.100	0.0913		mg/Kg		91	70 - 130		
m-Xylene & p-Xylene			0.0500	0.0453		mg/Kg		91	70 - 130		
o-Xylene			0.0500	0.0460		mg/Kg		92	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*90*		*67 - 130*
Dibromofluoromethane	*96*		*77 - 127*
Toluene-d8 (Surr)	*97*		*76 - 127*

Lab Sample ID: 400-226993-1 MS
Matrix: Solid
Analysis Batch: 595944

Client Sample ID: SB12 25-26'
Prep Type: Total/NA
Prep Batch: 596006

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.0055		0.0546	0.0579		mg/Kg	☼	106	38 - 131		
Toluene	<0.0055		0.0546	0.0563		mg/Kg	☼	103	42 - 130		
Ethylbenzene	<0.0055		0.0546	0.0543		mg/Kg	☼	100	35 - 130		
Xylenes, Total	<0.011		0.109	0.109		mg/Kg	☼	100	35 - 130		
m-Xylene & p-Xylene	<0.0055		0.0546	0.0540		mg/Kg	☼	99	35 - 130		
o-Xylene	<0.0055		0.0546	0.0549		mg/Kg	☼	101	35 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*93*		*67 - 130*
Dibromofluoromethane	*95*		*77 - 127*
Toluene-d8 (Surr)	*97*		*76 - 127*

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Fogelson #4

Job ID: 400-226993-1

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

Lab Sample ID: 400-226993-1 MSD
Matrix: Solid
Analysis Batch: 595944

Client Sample ID: SB12 25-26'
Prep Type: Total/NA
Prep Batch: 596006

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.0055		0.0548	0.0503		mg/Kg	☼	92	38 - 131	14	36
Toluene	<0.0055		0.0548	0.0481		mg/Kg	☼	88	42 - 130	16	37
Ethylbenzene	<0.0055		0.0548	0.0446		mg/Kg	☼	81	35 - 130	20	46
Xylenes, Total	<0.011		0.110	0.0873		mg/Kg	☼	80	35 - 130	22	39
m-Xylene & p-Xylene	<0.0055		0.0548	0.0433		mg/Kg	☼	79	35 - 130	22	42
o-Xylene	<0.0055		0.0548	0.0440		mg/Kg	☼	80	35 - 130	22	37

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*97*		*67 - 130*
Dibromofluoromethane	*96*		*77 - 127*
Toluene-d8 (Surr)	*98*		*76 - 127*

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 400-596406/2-A
Matrix: Solid
Analysis Batch: 596373

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596406

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) C6--C10	<0.10		0.10		mg/Kg		10/14/22 13:01	10/14/22 14:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*94*		*65 - 125*	*10/14/22 13:01*	*10/14/22 14:18*	*1*

Lab Sample ID: LCS 400-596406/1-A
Matrix: Solid
Analysis Batch: 596373

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596406

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO) C6--C10			1.00	0.907		mg/Kg		91	62 - 141		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*110*		*65 - 125*

Lab Sample ID: 400-226993-1 MS
Matrix: Solid
Analysis Batch: 596373

Client Sample ID: SB12 25-26'
Prep Type: Total/NA
Prep Batch: 596406

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO) C6--C10	<0.11		1.08	0.967		mg/Kg	☼	90	10 - 150		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*110*		*65 - 125*

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Fogelson #4

Job ID: 400-226993-1

Method: 8015D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: 400-226993-1 MSD — **Client Sample ID: SB12 25-26'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 596373 — **Prep Batch: 596406**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) C6--C10	<0.11		1.08	0.917		mg/Kg	☼	85	10 - 150	5	32

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*109*		*65 - 125*

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 400-595808/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 595896 — **Prep Batch: 595808**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<5.0		5.0		mg/Kg		10/11/22 08:35	10/11/22 16:52	1
Oil Range Organics (ORO)	<5.0		5.0		mg/Kg		10/11/22 08:35	10/11/22 16:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*84*		*27 - 150*	*10/11/22 08:35*	*10/11/22 16:52*	*1*

Lab Sample ID: LCS 400-595808/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 595896 — **Prep Batch: 595808**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics (DRO)			270	197		mg/Kg		73	38 - 116		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*70*		*27 - 150*

Lab Sample ID: 400-227025-B-2-B MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 595896 — **Prep Batch: 595808**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics (DRO)	<6.2		326	288		mg/Kg	☼	88	62 - 150		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
o-Terphenyl	*78*		*27 - 150*

Lab Sample ID: 400-227025-B-2-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 595896 — **Prep Batch: 595808**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics (DRO)	<6.2		321	278		mg/Kg	☼	87	62 - 150	3	30

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Fogelson #4

Job ID: 400-226993-1

Method: 8015D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 400-227025-B-2-C MSD
Matrix: Solid
Analysis Batch: 595896

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 595808

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl	*82*		*27 - 150*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 400-595864/1-A
Matrix: Solid
Analysis Batch: 596045

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<20		20		mg/Kg			10/12/22 18:30	1

Lab Sample ID: LCS 400-595864/2-A
Matrix: Solid
Analysis Batch: 596045

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			101	98.6		mg/Kg		98	80 - 120		

Lab Sample ID: LCSD 400-595864/3-A
Matrix: Solid
Analysis Batch: 596045

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			101	98.5		mg/Kg		98	80 - 120	0	15

Eurofins 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: Rob Malcomson	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-114344-39984.1
Client Contact: Steve Varsa	Phone: 515 251-1019	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin: NM	Page: Page 1 of 1
Company: Stantec Consulting Services Inc	PWSID:			Job #: 193709201
Address: 11311 Aurora Avenue	Due Date Requested:			
City: Des Moines	TAT Requested (days): Standard			
State, Zip: IA, 50322-7904	Compliance Project: Δ Yes Δ No			
Phone: 515 251 1019	PO #: See Project Notes			
Email: steve.varsa@stantec.com	WO #:			
Project Name: Fogelson 4-1 Soil EPCGP	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, Y - Trizma, 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 (Yes or No)	8015B_GRO - TPH GRO	8015B_DRO - TPH DRO ORO	300_ORGFM_28D - Chloride	8260C - BTEX 8260	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N		
~~MW12~~ SB12 25-26'	10/4/22	1240	G	S			X	X	X	X	2	
~~MW12~~ SB12 32-33'	10/4/22	1350	G	S			X	X	X	X	2	
~~MW11~~ SB12 42-43'	10/5/22	0855	G	S			X	X	X	X	2	
SB11/MW11 40-41'	10/5/22	1235	G	S			X	X	X	X	2	
Temp Blank	—	—	—	—							1	

400-226993 COC

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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) II

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		10/6/22 1130	Stantec	FedEx	10/10/22 1130	
2				MD	10/17/22 9:24	
3						

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3 IC IR9

Ver: 06/08/2021

10/18/2022

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc Job Number: 400-226993-1

Login Number: 226993 **List Source: Eurofins 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	3.1°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").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: Stantec Consulting Services Inc
Job ID: 400-226993-1
Project/Site: Fogelson #4

Laboratory: Eurofins 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	06-30-23
ANAB	ISO/IEC 17025	L2471	02-23-23
Arkansas DEQ	State	88-0689	09-01-23
California	State	2510	06-30-23
Florida	NELAP	E81010	06-30-23
Georgia	State	E81010(FL)	06-30-23
Illinois	NELAP	200041	10-09-23
Kansas	NELAP	E-10253	10-31-22
Kentucky (UST)	State	53	06-30-23
Kentucky (WW)	State	KY98030	12-31-22
Louisiana (All)	NELAP	30976	06-30-23
Louisiana (DW)	State	LA017	12-31-22
Maryland	State	233	09-30-23
Michigan	State	9912	06-30-23
North Carolina (WW/SW)	State	314	12-31-22
Oklahoma	NELAP	9810	08-31-23
Pennsylvania	NELAP	68-00467	01-31-23
South Carolina	State	96026	06-30-23
Tennessee	State	TN02907	06-30-23
Texas	NELAP	T104704286	09-30-23
US Fish & Wildlife	US Federal Programs	A22340	06-30-23
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-23
West Virginia DEP	State	136	03-31-23

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 200850

CONDITIONS

Operator:	OGRID:
El Paso Natural Gas Company, L.L.C 1001 Louisiana Street Houston, TX 77002	7046
	Action Number: 200850
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Review of 2022 Annual Groundwater Report: Content satisfactory 1. Proceed with Planned Future Activities as stated in this report. 2. Submit next annual groundwater monitoring report no later than April 1, 2024.	5/22/2023