2022 ANNUAL GROUNDWATER REPORT

Gallegos Canyon Unit #124E
Incident Number: nAUTOfAB000205
Meter Code: 95608
T28N, R12W, Sec 35, Unit N

SITE DETAILS

Site Location: Latitude: 36.614105 N, Longitude: -108.083662 W
Land Type: Navajo
Operator: Simcoe LLC

SITE BACKGROUND

Environmental remediation activities at Gallegos Canyon Unit #124E (Site) are managed pursuant to the procedures set forth in the document entitled, "*Remediation Plan for Groundwater Encountered During Pit Closure Activities*" (Remediation Plan, El Paso Natural Gas Company / El Paso Field Services Company, 1995). This Remediation Plan was conditionally approved by the New Mexico Oil Conservation Division (NMOCD) in correspondence dated November 30, 1995; and the NMOCD approval conditions were adopted into El Paso CGP Company (EPCGP's) program methods. Currently, the Site is operated by Simcoe LLC and is active.

The Site is located on Navajo Agricultural Products Industry land. An initial site assessment was completed in January 1995, and an excavation to approximately 12 feet below ground surface (bgs) was completed in October 1995, removing approximately 196 cubic yards (cy) of soil. Monitoring wells were installed in 1995 (MW-1), 2013 (MW-2 through MW-7), and 2022 (MW-8). Monitoring well MW-2 was plugged and abandoned on January 19, 2014. The location of the Site is depicted on Figure 1. A Site Plan map depicting the locations of monitoring wells and current and historical site features is provided as Figure 2. 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 from MW-1 were conducted in 2017. 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 location for MW-8 was staked for permitting and utility locating purposes prior to completing public 811 locating activities. The advancement and installation of MW-8 was completed in accordance with the March 18, 2022, *Monitoring Well Installation Work Plan* (March 2022 Work Plan), subsequently approved by the NMOCD. The NMOCD was notified of the start of the MW-8 drilling activities on April 11, 2022 (Appendix A). The Navajo Nation Environmental Protection Agency (NNEPA) was also provided a copy of the March 2022 Work Plan but did not respond. The NNEPA was notified of the start of MW-8 on April 11, 2022 (Appendix B).

Monitoring well MW-8 was advanced and installed on April 19, 2022, to delineate the extent of LNAPL at the Site. Ground surface and casing elevations of the new monitoring well were subsequently surveyed to tie-in to the existing monitoring well network.

The monitoring well was constructed of 2-inch-diameter, Schedule 40 polyvinyl chloride (PVC), with 0.010-inch, continuous, factory-slotted PVC screen. Monitoring well MW-8 was installed with a 20 foot well screen, set from 20 to 40 feet bgs to bisect the field-observed or expected water table. Sandpack was placed in the annular space from the bottom of boring at 40 feet bgs to 2 feet above the top of the screen. 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 monitoring well was completed as a flush-mount well with a bolt-down steel well cover set within a concrete pad. The borehole log and well construction diagram and

associated Navajo Nation Department of Water Resources well permit form, for MW-8 are provided in Appendix C.

During advancement of MW-8, one soil sample was retained from above the field-interpreted water table and placed in 4-ounce jars for laboratory analysis. The 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 sample was 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.

Monitoring well development was performed by bailing and surging until visibly clear groundwater was observed. Development and decontamination water generated in April 2022 during installation of MW-8 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. Soil disposal documentation is contained in Appendix E.

GROUNDWATER SAMPLING ACTIVITIES

Pursuant to the Remediation Plan, Stantec Consulting Services Inc. (Stantec) provided field work notifications via electronic mail (email) to the NMOCD on May 12, 2022, July 18, 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. Copies of NNEPA notifications are provided in Appendix B. On May 19 and November 2, 2022, water levels were gauged at MW-1, MW-3, MW-4, MW-5, MW-6, MW-7, and MW-8. During the May and November events, groundwater samples were collected from MW-3, MW-4, MW-5, MW-6, and MW-8. During the November event a groundwater sample was also collected from MW-7. LNAPL was detected at MW-1 during the May and November events; therefore, no groundwater samples were collected from this location. Groundwater samples were collected during the May and November sampling events using HydraSleeve™ (HydraSleeve) no-purge groundwater sampling devices.

On August 2, 2022, water levels were gauged and groundwater samples were collected from MW-1 and MW-5. LNAPL was present in MW-1 during this event, and after LNAPL removal activities, a groundwater sample was collected using the previously placed HydraSleeve. The HydraSleeves were set during the previous sampling event approximately 0.5 foot above the bottom of the well screen using a suspension tether and stainless-steel weights to collect a sample from the screened interval.

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 supplied trip blank and one blind field duplicate were also collected during each of the 2022 groundwater sampling events. BTEX constituents were analyzed using EPA Method 8260 for all 2022 groundwater samples. The groundwater samples collected in August 2022 from MW-1 and MW-5 were also analyzed for selected semi-volatile organic compounds (SVOCs) using EPA Method 8270D.

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

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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 LNAPL recovery activities in 2022 is provided in Appendix A. Documentation of NNEPA notifications of LNAPL recovery activities in 2022 are provided in Appendix B. LNAPL was observed and recovered in monitoring wells MW-1 during the March, May, August, and November 2022 events.

The LNAPL recovery data is summarized on Table 1. LNAPL was recovered by hand-bailing. During the groundwater sampling site visits, 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 groundwater analytical and water level data are summarized in Table 2 and Table 3, respectively. The groundwater analytical data for selected SVOCs at MW-1 and MW-5 are summarized in Table 4. LNAPL recovery data is summarized on Table 1. Soil analytical data is summarized in Table 5.

SITE MAPS

Groundwater analytical maps (Figures 3, 5, and 6) and groundwater elevation contour maps (Figures 4 and 7) summarize results of the 2022 groundwater sampling and gauging events. Soil analytical results are summarized in Figure 8.

ANALYTICAL LAB REPORTS

The groundwater analytical lab reports are included as Appendix F. The soil analytical report for the soil sample collected during advancement of MW-8 is included in Appendix G.

GROUNDWATER RESULTS

- The groundwater elevations indicate the flow direction at the Site was to the northwest during 2022 (see Figures 4 and 7).
- LNAPL was observed in MW-1 during the May and November 2022groundwater sampling events and no groundwater samples were collected at this location during those two events. LNAPL was also observed in MW-1 during the August 2022 event and a groundwater sample was collected from below the layer of LNAPL in the well.
- Benzene was not detected or was detected below the NMWQCC standard (10 µg/L) in the groundwater samples collected from site monitoring wells in 2022.
- Toluene was not detected in the groundwater samples collected from site monitoring wells in 2022.
- Ethylbenzene was not detected or was detected below the NMWQCC standard (750 µg/L) in the groundwater samples collected from site monitoring wells in 2022.

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- Total xylenes were not detected or detected below the NMWQCC standard (620 µg/L) in the groundwater samples collected from site monitoring wells in 2022.

- The total naphthalene concentration (calculated as the summation of 1-methylnaphthalene, 2-methylnaphthalene, and naphthalene) in the August 2022 sample at MW-1 was 37.2 µg/L and exceeded the NMWQCC standard in groundwater (30 µg/L). The total naphthalene concentration in the August sample at MW-5 was below the detection limits.

- The benzo(a)pyrene concentrations were not detected or detected below the NMWQCC standard (0.7 µg/L) in the groundwater samples collected in August 2022 from MW-1 and MW-5.

- A field duplicate was collected from MW-3 during the May and November monitoring events and from MW-1 during the August sampling event. No significant differences were noted between the primary and the duplicate samples for the 2022 groundwater sampling events except for the total xylene concentrations in the August event that had the following results: MW-1 primary sample at 36 µg/L and MW-1 duplicate sample at 20 µg/L.

- 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 MW-8. Results are shown in tabular format in Table 5 and graphically in Figure 8.

- Benzene was not detected in the soil sample collected during advancement of MW-8.

- Total BTEX was not detected in the soil sample collected during advancement of MW-8.

- TPH was not detected in the soil sample collected during advancement of MW-8.

- Chloride was not detected in the soil sample collected during advancement of MW-8.

PLANNED FUTURE ACTIVITIES

LNAPL has historically been present in MW-1 since 1998, and has been removed through a variety of methods, including completion of several MDPE events in 2017. Due to the age of monitoring well MW-1, its use for LNAPL recovery efforts, and declining water column, replacement of the well is planned to facilitate future monitoring efforts. A January 26, 2023, *Monitoring Well Replacement Work Plan*, has been submitted to the NMOCD for review, with a copy also submitted to the NNEPA. Replacement of MW-1 is planned for completion in 2023.

Semi-annual groundwater monitoring is to continue in 2023. 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 generally conducted on a biennial basis, with the next site-wide sampling event to be conducted

in the second calendar quarter of 2023.

Quarterly site visits will continue in 2023 to facilitate removal of measurable LNAPL via hand bailing where it is present.

The activities completed 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

Gallegos Canyon Unit #124E

Well ID - MW-1	Depth to LNAPL (Feet)	Depth to Water (Feet)	Measured Thickness (Feet)	LNAPL Recovered (gal)	Water Recovered (gal)	Recovery Type
Date						
4/18/2016	24.92	24.99	0.07	<0.01	0.01	manual
10/14/2016	25.06	25.21	0.15	0.03	<0.01	manual
6/10/2017	25.40	25.50	0.10	0.01	NR	manual
7/20/2017	25.52	25.59	0.07	10.4	3302	MDPE Event*
9/21/2017	25.38	25.42	0.04	3.60	2757	MDPE Event*
11/11/2017	25.56	25.57	0.01	<0.01	0.01	manual
5/18/2018	25.85	25.97	0.12	<0.01	NR	manual
10/28/2018	26.15	26.41	0.26	0.02	0.02	manual
5/23/2019	26.51	27.02	0.51	0.08	NR	manual
11/11/2019	26.65	26.85	0.20	0.06	0.48	manual
5/16/2020	26.96	27.20	0.24	0.11	0.34	manual
8/18/2020	27.02	27.13	0.11	0.05	0.48	manual
11/11/2020	27.06	27.08	0.02	<0.01	0.73	manual
3/17/2021	27.34	27.36	0.02	<0.01	0.50	manual
5/21/2021	27.35	27.38	0.03	<0.01	0.08	manual
8/23/2021	27.44	27.50	0.06	<0.01	0.50	manual
11/12/2021	27.45	27.47	0.02	<0.01	0.14	manual
3/21/2022	27.42	27.43	0.01	<0.01	0.03	manual
5/19/2022	27.36	27.37	0.01	<0.01	0.03	manual
8/2/2022	27.54	27.57	0.03	0.01	0.24	manual
11/2/2022	27.48	27.49	0.01	<0.01	0.02	manual
			Total:	14.4	6063	
Well ID - MW-5						
5/23/2019	26.12	26.31	0.19	0.01	NR	manual
11/11/2019	26.52	26.63	0.11	0.01	0.04	manual
5/16/2020	26.95	27.11	0.16	0.02	0.13	manual
8/18/2020	27.19	27.22	0.03	0.01	0.23	manual
11/11/2020	27.14	27.15	0.01	<0.01	0.17	manual
8/23/2021	ND	27.55	0.00	0.00	0.03	manual
			Total:	0.05	0.60	

Notes:
NR = Not Recorded.
* = Includes calculated recovered hydrocarbon vapors.
gal = gallons
LNAPL = Light non-aqueous phase liquid

TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

Gallegos Canyon Unit #124E					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-1	06/25/98	340	271	111	510
MW-1	09/14/98	410	251	68.3	220
MW-1	12/15/98	710	1300	160	940
MW-1	03/16/99	2960	5130	367	2890
MW-1	10/05/00	NS	NS	NS	NS
MW-1	11/15/00	NS	NS	NS	NS
MW-1	12/20/00	NS	NS	NS	NS
MW-1	01/09/01	NS	NS	NS	NS
MW-1	01/15/01	NS	NS	NS	NS
MW-1	01/22/01	NS	NS	NS	NS
MW-1	01/30/01	NS	NS	NS	NS
MW-1	03/12/01	NS	NS	NS	NS
MW-1	06/05/01	NS	NS	NS	NS
MW-1	07/13/01	NS	NS	NS	NS
MW-1	08/02/01	NS	NS	NS	NS
MW-1	08/31/01	NS	NS	NS	NS
MW-1	09/21/01	NS	NS	NS	NS
MW-1	10/02/01	NS	NS	NS	NS
MW-1	01/02/02	NS	NS	NS	NS
MW-1	01/07/02	NS	NS	NS	NS
MW-1	01/23/02	NS	NS	NS	NS
MW-1	01/30/02	NS	NS	NS	NS
MW-1	02/07/02	NS	NS	NS	NS
MW-1	02/14/02	NS	NS	NS	NS
MW-1	02/20/02	NS	NS	NS	NS
MW-1	03/04/02	NS	NS	NS	NS
MW-1	03/11/02	NS	NS	NS	NS
MW-1	03/21/02	NS	NS	NS	NS
MW-1	03/28/02	NS	NS	NS	NS
MW-1	04/03/02	NS	NS	NS	NS
MW-1	04/12/02	NS	NS	NS	NS
MW-1	04/18/02	NS	NS	NS	NS
MW-1	04/25/02	NS	NS	NS	NS
MW-1	05/03/02	NS	NS	NS	NS
MW-1	05/10/02	NS	NS	NS	NS
MW-1	05/17/02	NS	NS	NS	NS
MW-1	05/24/02	NS	NS	NS	NS
MW-1	05/31/02	NS	NS	NS	NS
MW-1	06/07/02	NS	NS	NS	NS
MW-1	06/12/02	NS	NS	NS	NS
MW-1	06/21/02	NS	NS	NS	NS
MW-1	06/27/02	NS	NS	NS	NS
MW-1	07/02/02	NS	NS	NS	NS
MW-1	07/11/02	NS	NS	NS	NS
MW-1	07/15/02	NS	NS	NS	NS
MW-1	10/16/02	NS	NS	NS	NS
MW-1	01/15/03	NS	NS	NS	NS
MW-1	05/05/03	NS	NS	NS	NS
MW-1	07/18/03	NS	NS	NS	NS
MW-1	01/29/04	NS	NS	NS	NS
MW-1	04/15/04	NS	NS	NS	NS
MW-1	07/26/04	NS	NS	NS	NS
MW-1	10/15/04	NS	NS	NS	NS
MW-1	01/17/05	NS	NS	NS	NS
MW-1	04/19/05	38.8	<1	142	1160
MW-1	07/20/05	125	11.4	371	2640
MW-1	10/20/05	86.8	11.3	125	864
MW-1	01/19/06	77.9	12	101	656
MW-1	04/24/06	45.1	3.5 J	56.1	377
MW-1	07/31/06	60.8	1.5 J	79.3	524
MW-1	10/24/06	21.1	<1	56.6	349

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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-1	01/19/07	22.4	<1	60	367
MW-1	04/24/07	30.3	<1	60.6	407
MW-1	07/31/07	35.3	<2	68.4	416
MW-1	10/25/07	9	<1	33.2	173
MW-1	01/28/08	6	<2	41.6	210
MW-1	04/23/08	14.1	0.59 J	50.1	360
MW-1	07/23/08	72.7	6.7	65.8	210
MW-1	10/08/08	194	<50	43.6 J	328
MW-1	01/07/09	281	6 J	110	653
MW-1	08/25/09	57.9	8.8 J	58.4	298
MW-1	11/03/09	NS	NS	NS	NS
MW-1	02/15/10	98.3	4.1	80.6	385
MW-1	05/24/10	NS	NS	NS	NS
MW-1	09/27/10	159	<2	56.4	348
MW-1	11/01/10	NS	NS	NS	NS
MW-1	02/01/11	109	0.28 J	54.1	436
MW-1	05/02/11	NS	NS	NS	NS
MW-1	09/23/11	288	<1	116	1020
MW-1	02/22/12	255	<5	145	853
MW-1	05/07/12	NS	NS	NS	NS
MW-1	06/04/13	33	<0.60	11	0.86
MW-1	09/11/13	25	<0.30	9.8	8.9
MW-1	12/15/13	87	<0.30	50	100
MW-1	04/05/14	31	6.2	23	15
MW-1	10/25/14	NS	NS	NS	NS
MW-1	05/31/15	NS	NS	NS	NS
MW-1	11/22/15	NS	NS	NS	NS
MW-1	04/18/16	NS	NS	NS	NS
MW-1	10/14/16	NS	NS	NS	NS
MW-1	06/10/17	NS	NS	NS	NS
MW-1	11/11/17	NS	NS	NS	NS
MW-1	05/18/18	NS	NS	NS	NS
MW-1	10/28/18	NS	NS	NS	NS
MW-1	05/23/19	NS	NS	NS	NS
MW-1	11/11/19	NS	NS	NS	NS
MW-1	05/16/20	NS	NS	NS	NS
MW-1	11/11/20	NS	NS	NS	NS
MW-1	03/17/21	NS	NS	NS	NS
MW-1	05/21/21	NS	NS	NS	NS
MW-1	08/23/21	NS	NS	NS	NS
MW-1	11/12/21	NS	NS	NS	NS
MW-1	05/19/22	NS	NS	NS	NS
MW-1	08/02/22	2	<1.0	1.2	36
DUP-01(MW-1)*	08/02/22	1.6	<1.0	<1.0	20
MW-1	11/02/22	NS	NS	NS	NS
MW-2	12/15/13	<0.14	<0.30	<0.20	<0.23
MW-2	04/05/14	<0.20	<0.38	<0.20	<0.65
MW-2	10/25/14	<0.38	<0.70	<0.50	<1.6
MW-2	Well abandoned 1/19/2014				
MW-3	12/15/13	4.1	<0.30	7.4	27
MW-3	04/05/14	<0.20	<0.38	<0.20	<0.65
MW-3	10/25/14	<0.38	<0.70	<0.50	<1.6
MW-3	05/31/15	<1.0	<5.0	<1.0	<5.0
MW-3	11/22/15	<1.0	<1.0	<1.0	<3.0
MW-3	04/18/16	<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

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NMWQCC Standards:		10	750	750	620
MW-3	11/11/17	<1.0	<1.0	<1.0	<10
MW-3	05/18/18	<1.0	<1.0	<1.0	<10
MW-3	10/28/18	<1.0	<1.0	<1.0	<10
DUP-01(MW-3)*	10/28/18	<1.0	<1.0	<1.0	<10
MW-3	05/23/19	<1.0	<1.0	<1.0	<10
DUP-1(MW-3)*	05/23/19	<1.0	<1.0	<1.0	<10
MW-3	11/11/19	<1.0	<1.0	<1.0	<10
MW-3	05/16/20	<1.0	<1.0	<1.0	<10
DUP-01(MW-3)*	05/16/20	<1.0	<1.0	<1.0	<10
MW-3	11/11/20	<1.0	<1.0	<1.0	<10
MW-3	05/21/21	<1.0	<1.0	<1.0	<10
DUP-01(MW-3)*	05/21/21	<1.0	<1.0	<1.0	<10
MW-3	11/12/21	<1.0	<1.0	<1.0	<10
DUP-01(MW-3)*	11/12/21	<1.0	<1.0	<1.0	<10
MW-3	05/19/22	<1.0	<1.0	<1.0	<10
DUP-01(MW-3)*	05/19/22	<1.0	<1.0	<1.0	<10
MW-3	11/02/22	<1.0	<1.0	<1.0	<10
DUP-01(MW-3)*	11/02/22	<1.0	<1.0	<1.0	<10
MW-4	12/15/13	<0.14	<0.30	0.28 J	1.4 J
MW-4	04/05/14	<0.20	<0.38	<0.20	<0.65
MW-4	10/25/14	<0.38	<0.70	<0.50	<1.6
MW-4	05/31/15	<1.0	<5.0	<1.0	<5.0
MW-4	11/22/15	<1.0	<1.0	<1.0	<3.0
MW-4	04/18/16	<1.0	<5.0	<1.0	<5.0
MW-4	10/14/16	<1.0	<5.0	<1.0	<5.0
MW-4	06/10/17	<1.0	<5.0	<1.0	<5.0
MW-4	11/11/17	<1.0	<1.0	4	<10
MW-4	05/18/18	<1.0	<1.0	<1.0	<10
MW-4	10/28/18	<1.0	<1.0	<1.0	<10
MW-4	05/23/19	<1.0	<1.0	<1.0	<10
MW-4	11/11/19	<1.0	<1.0	<1.0	<10
MW-4	05/16/20	<1.0	<1.0	<1.0	<10
MW-4	11/11/20	<1.0	<1.0	<1.0	<10
DUP-01(MW-4)*	11/11/20	<1.0	<1.0	<1.0	<10
MW-4	05/21/21	<1.0	<1.0	<1.0	<10
MW-4	11/12/21	<1.0	<1.0	<1.0	<10
MW-4	05/19/22	<1.0	<1.0	<1.0	<10
MW-4	11/02/22	<1.0	<1.0	<1.0	<10
MW-5	12/15/13	9.3	<0.30	53	32
MW-5	04/05/14	11	5.8	13	<0.65
MW-5	10/25/14	5.9	<0.70	5.2	<1.6
MW-5	05/31/15	0.65 J	<5.0	<1.0	<5.0
MW-5	11/22/15	1.6	<1.0	2.7	<3.0
MW-5	04/18/16	<1.0	<5.0	<1.0	<5.0
MW-5	10/14/16	<1.0	<5.0	3.6	<5.0
MW-5	06/10/17	1	<5.0	6.5	<5.0
MW-5	11/11/17	2.1	<1.0	14	<10
MW-5	05/18/18	<1.0	<1.0	4.9	<10
DP-01(MW-5)*	05/18/18	<1.0	<1.0	3.5	<10
MW-5	10/28/18	1.0	<1.0	1.9	<10
MW-5	05/23/19	NS	NS	NS	NS
MW-5	11/11/19	NS	NS	NS	NS
MW-5	05/16/20	NS	NS	NS	NS
MW-5	11/11/20	NS	NS	NS	NS
MW-5	03/17/21	NS	NS	NS	NS
MW-5	05/21/21	<1.0	<1.0	<1.0	<10
MW-5	08/23/21	NS	NS	NS	NS
MW-5	11/12/21	<1.0	<1.0	<1.0	<10
MW-5	05/19/22	<1.0	<1.0	<1.0	<10

TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

Gallegos Canyon Unit #124E					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-5	08/02/22	<1.0	<1.0	<1.0	<10
MW-5	11/02/22	<1.0	<1.0	<1.0	<10
MW-6	12/15/13	<0.14	<0.30	<0.20	2.0 J
MW-6	04/05/14	<0.20	<0.38	<0.20	<0.65
MW-6	10/25/14	<0.38	<0.70	<0.50	<1.6
MW-6	05/31/15	<1.0	<5.0	<1.0	<5.0
MW-6	11/22/15	<1.0	<1.0	<1.0	<3.0
MW-6	04/18/16	<1.0	<5.0	<1.0	<5.0
MW-6	10/14/16	<1.0	<5.0	<1.0	<5.0
MW-6	06/10/17	<1.0	<5.0	<1.0	<5.0
MW-6	11/11/17	<1.0	<1.0	<1.0	<10
MW-6	05/18/18	<1.0	<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	11/11/19	<1.0	<1.0	<1.0	<10
MW-6	05/16/20	<1.0	<1.0	<1.0	<10
MW-6	11/11/20	<1.0	<1.0	<1.0	<10
MW-6	05/21/21	<1.0	<1.0	<1.0	<10
MW-6	11/12/21	<1.0	<1.0	<1.0	<10
MW-6	05/19/22	<1.0	<1.0	<1.0	<10
MW-6	11/02/22	<1.0	<1.0	<1.0	<10
MW-7	12/15/13	<0.14	<0.30	<0.20	<0.23
MW-7	04/05/14	<0.20	<0.38	<0.20	<0.65
MW-7	10/25/14	<0.38	<0.70	<0.50	<1.6
MW-7	05/31/15	<1.0	<5.0	<1.0	<5.0
MW-7	11/22/15	<1.0	<1.0	<1.0	<3.0
MW-7	04/18/16	NS	NS	NS	NS
MW-7	10/14/16	NS	NS	NS	NS
MW-7	06/10/17	NS	NS	NS	NS
MW-7	11/11/17	<1.0	<1.0	<1.0	<10
MW-7	05/18/18	NS	NS	NS	NS
MW-7	10/28/18	NS	NS	NS	NS
MW-7	05/23/19	NS	NS	NS	NS
MW-7	11/11/19	<1.0	<1.0	<1.0	<10
DUP-1(MW-7)*	11/11/19	<1.0	<1.0	<1.0	<10
MW-7	05/16/20	NS	NS	NS	NS
MW-7	11/11/20	<1.0	<1.0	<1.0	<10
MW-7	05/21/21	NS	NS	NS	NS
MW-7	11/12/21	NS	NS	NS	NS
MW-7	05/19/22	NS	NS	NS	NS
MW-7	11/02/22	<1.0	<1.0	<1.0	<10
MW-8	05/19/22	<1.0	<1.0	<1.0	<10
MW-8	11/02/22	<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

Gallegos Canyon Unit #124E						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-1	06/25/98	5949.45	NR	27.21		5922.24
MW-1	09/14/98	5949.45	NR	27.50		5921.95
MW-1	12/15/98	5949.45	27.61	28.16	0.55	5921.70
MW-1	03/16/99	5949.45	27.60	29.02	1.42	5921.50
MW-1	10/05/00	5949.45	29.04	29.46	0.42	5920.31
MW-1	11/15/00	5949.45	28.93	28.93		5920.52
MW-1	12/20/00	5949.45	NR	28.98		5920.47
MW-1	01/09/01	5949.45	29.18	29.21	0.03	5920.26
MW-1	01/15/01	5949.45	29.04	29.07	0.03	5920.40
MW-1	01/22/01	5949.45	NR	28.99		5920.46
MW-1	01/30/01	5949.45	NR	29.09		5920.36
MW-1	03/12/01	5949.45	NR	29.26		5920.19
MW-1	06/05/01	5949.45	29.28	29.32	0.04	5920.16
MW-1	07/13/01	5949.45	NR	29.65		5919.80
MW-1	08/02/01	5949.45	NR	29.53		5919.92
MW-1	08/31/01	5949.45	NR	29.27		5920.18
MW-1	09/21/01	5949.45	NR	29.33		5920.12
MW-1	10/02/01	5949.45	NR	28.98		5920.47
MW-1	01/02/02	5949.45	28.85	28.96	0.11	5920.57
MW-1	01/07/02	5949.45	28.94	28.99	0.05	5920.50
MW-1	01/23/02	5949.45	26.35	29.35	3.00	5922.35
MW-1	01/30/02	5949.45	29.22	29.24	0.02	5920.23
MW-1	02/07/02	5949.45	29.66	29.70	0.04	5919.78
MW-1	02/14/02	5949.45	29.28	29.29	0.01	5920.17
MW-1	02/20/02	5949.45	29.75	29.76	0.01	5919.70
MW-1	03/04/02	5949.45	NR	29.30		5920.15
MW-1	03/11/02	5949.45	NR	29.17		5920.28
MW-1	03/21/02	5949.45	NR	29.47		5919.98
MW-1	03/28/02	5949.45	NR	29.33		5920.12
MW-1	04/03/02	5949.45	NR	29.33		5920.12
MW-1	04/12/02	5949.45	NR	29.70		5919.75
MW-1	04/18/02	5949.45	NR	29.31		5920.14
MW-1	04/25/02	5949.45	NR	30.11		5919.34
MW-1	05/03/02	5949.45	NR	30.18		5919.27
MW-1	05/10/02	5949.45	NR	30.25		5919.20
MW-1	05/17/02	5949.45	NR	29.57		5919.88
MW-1	05/24/02	5949.45	NR	29.70		5919.75
MW-1	05/31/02	5949.45	NR	29.54		5919.91
MW-1	06/07/02	5949.45	NR	29.42		5920.03
MW-1	06/12/02	5949.45	NR	29.21		5920.24

TABLE 3 - GROUNDWATER ELEVATION RESULTS

Gallegos Canyon Unit #124E						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-1	06/21/02	5949.45	NR	30.12		5919.33
MW-1	06/27/02	5949.45	NR	30.18		5919.27
MW-1	07/02/02	5949.45	29.98	29.99	0.01	5919.47
MW-1	07/11/02	5949.45	NR	30.06		5919.39
MW-1	07/15/02	5949.45	NR	29.63		5919.82
MW-1	10/16/02	5949.45	29.24	29.65	0.41	5920.11
MW-1	01/15/03	5949.45	ND	28.63		5920.82
MW-1	05/05/03	5949.45	27.69	27.72	0.03	5921.75
MW-1	07/18/03	5949.45	27.06	27.08	0.02	5922.39
MW-1	01/29/04	5949.45	ND	25.40		5924.05
MW-1	04/15/04	5949.45	ND	24.98		5924.47
MW-1	07/26/04	5949.45	ND	24.50		5924.95
MW-1	10/15/04	5949.45	ND	24.98		5924.47
MW-1	01/17/05	5949.45	ND	25.49		5923.96
MW-1	04/19/05	5949.45	ND	25.45		5924.00
MW-1	07/20/05	5949.45	ND	24.73		5924.72
MW-1	10/20/05	5949.45	ND	24.85		5924.60
MW-1	01/19/06	5949.45	ND	24.53		5924.92
MW-1	04/24/06	5949.45	ND	24.25		5925.20
MW-1	07/31/06	5949.45	ND	25.68		5923.77
MW-1	10/24/06	5949.45	ND	24.94		5924.51
MW-1	01/19/07	5949.45	ND	26.33		5923.12
MW-1	04/24/07	5949.45	ND	25.97		5923.48
MW-1	07/31/07	5949.45	ND	26.26		5923.19
MW-1	10/25/07	5949.45	ND	26.44		5923.01
MW-1	01/28/08	5949.45	ND	26.67		5922.78
MW-1	04/23/08	5949.45	ND	26.67		5922.78
MW-1	07/23/08	5949.45	ND	23.49		5925.96
MW-1	10/08/08	5949.45	ND	22.30		5927.15
MW-1	01/07/09	5949.45	ND	23.74		5925.71
MW-1	08/25/09	5949.45	ND	26.65		5922.80
MW-1	11/03/09	5949.45	ND	25.62		5923.83
MW-1	02/15/10	5949.45	ND	25.93		5923.52
MW-1	05/24/10	5949.45	ND	19.47		5929.98
MW-1	09/27/10	5949.45	ND	19.78		5929.67
MW-1	11/01/10	5949.45	ND	19.82		5929.63
MW-1	02/01/11	5949.45	ND	21.70		5927.75
MW-1	05/02/11	5949.45	ND	23.32		5926.13
MW-1	09/23/11	5949.45	ND	24.71		5924.74
MW-1	02/22/12	5949.45	ND	23.51		5925.94

TABLE 3 - GROUNDWATER ELEVATION RESULTS

Gallegos Canyon Unit #124E						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-1	05/07/12	5949.45	ND	24.20		5925.25
MW-1	06/04/13	5949.45	ND	25.87		5923.58
MW-1	09/11/13	5949.45	ND	25.74		5923.71
MW-1	12/15/13	5949.45	ND	25.67		5923.78
MW-1	04/05/14	5949.45	ND	26.27		5923.18
MW-1	10/25/14	5949.45	27.06	27.07	0.01	5922.39
MW-1	05/31/15	5946.64	24.70	24.70	<0.01	5921.94
MW-1	11/22/15	5946.64	24.33	24.33	<0.01	5922.31
MW-1	04/18/16	5946.64	24.92	24.99	0.07	5921.70
MW-1	10/14/16	5946.64	25.06	25.21	0.15	5921.54
MW-1	06/10/17	5946.64	25.40	25.50	0.10	5921.22
MW-1	07/20/17	5946.64	25.52	25.59	0.07	5921.10
MW-1	09/21/17	5946.64	25.38	25.42	0.04	5921.25
MW-1	11/11/17	5946.64	25.56	25.57	0.01	5921.08
MW-1	05/18/18	5946.64	25.85	25.97	0.12	5920.76
MW-1	10/28/18	5946.64	26.15	26.41	0.26	5920.43
MW-1	05/23/19	5946.64	26.51	27.02	0.51	5920.00
MW-1	11/11/19	5946.64	26.65	26.85	0.20	5919.94
MW-1	05/16/20	5946.64	26.96	27.20	0.24	5919.62
MW-1	08/18/20	5946.64	27.02	27.13	0.11	5919.59
MW-1	11/11/20	5946.64	27.06	27.08	0.02	5919.58
MW-1	03/17/21	5946.64	27.34	27.36	0.02	5919.30
MW-1	05/21/21	5946.64	27.35	27.38	0.03	5919.28
MW-1	08/23/21	5946.64	27.44	27.50	0.06	5919.19
MW-1	11/12/21	5946.64	27.45	27.47	0.02	5919.19
MW-1	03/21/22	5946.64	27.42	27.43	0.01	5919.22
MW-1	05/19/22	5946.64	27.36	27.37	0.01	5919.28
MW-1	08/02/22	5946.64	27.54	27.57	0.03	5919.09
MW-1	11/02/22	5946.64	27.48	27.49	0.01	5919.16
MW-2	12/15/13	5950.12	ND	26.46		5923.66
MW-2	04/05/14	5950.12	ND	27.05		5923.07
MW-2	10/25/14	5950.12	ND	27.84		5922.28
MW-2	Well abandoned 1/19/2014					
MW-3	12/15/13	5949.84	ND	26.02		5923.82
MW-3	04/05/14	5949.84	ND	26.59		5923.25
MW-3	10/25/14	5949.84	ND	27.37		5922.47
MW-3	05/31/15	5946.83	ND	24.82		5922.01
MW-3	11/22/15	5946.83	ND	24.50		5922.33
MW-3	04/18/16	5946.83	ND	25.12		5921.71

TABLE 3 - GROUNDWATER ELEVATION RESULTS

Gallegos Canyon Unit #124E						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-3	10/14/16	5946.83	ND	25.36		5921.47
MW-3	06/10/17	5946.83	ND	25.61		5921.22
MW-3	11/11/17	5946.83	ND	25.72		5921.11
MW-3	05/18/18	5946.83	ND	26.07		5920.76
MW-3	10/28/18	5946.83	ND	26.37		5920.46
MW-3	05/23/19	5946.83	ND	26.83		5920.00
MW-3	11/11/19	5946.83	ND	26.86		5919.97
MW-3	05/16/20	5946.83	ND	27.18		5919.65
MW-3	11/11/20	5946.83	ND	27.24		5919.59
MW-3	05/21/21	5946.83	ND	27.56		5919.27
MW-3	11/12/21	5946.83	ND	27.63		5919.20
MW-3	05/19/22	5946.83	ND	27.54		5919.29
MW-3	11/02/22	5946.83	ND	27.62		5919.21
MW-4	12/15/13	5949.57	ND	25.62		5923.95
MW-4	04/05/14	5949.57	ND	26.22		5923.35
MW-4	10/25/14	5949.57	ND	26.98		5922.59
MW-4	05/31/15	5946.52	ND	24.52		5922.00
MW-4	11/22/15	5946.52	ND	24.16		5922.36
MW-4	04/18/16	5946.52	ND	24.80		5921.72
MW-4	10/14/16	5946.52	ND	24.99		5921.53
MW-4	06/10/17	5946.52	ND	25.28		5921.24
MW-4	11/11/17	5946.52	ND	25.37		5921.15
MW-4	05/18/18	5946.52	ND	25.69		5920.83
MW-4	10/28/18	5946.52	ND	25.98		5920.54
MW-4	05/23/19	5946.52	ND	26.83		5919.69
MW-4	11/11/19	5946.52	ND	26.49		5920.03
MW-4	05/16/20	5946.52	ND	26.82		5919.70
MW-4	11/11/20	5946.52	ND	26.86		5919.66
MW-4	05/21/21	5946.52	ND	27.20		5919.32
MW-4	11/12/21	5946.52	ND	27.24		5919.28
MW-4	05/19/22	5946.52	ND	27.18		5919.34
MW-4	11/02/22	5946.52	ND	27.25		5919.27
MW-5	12/15/13	5948.92	ND	25.17		5923.75
MW-5	04/05/14	5948.92	ND	25.85		5923.07
MW-5	10/25/14	5948.92	ND	26.60		5922.32
MW-5	05/31/15	5946.03	ND	24.17		5921.86
MW-5	11/22/15	5946.03	ND	23.83		5922.20
MW-5	04/18/16	5946.03	ND	24.42		5921.61
MW-5	10/14/16	5946.03	ND	24.64		5921.39

TABLE 3 - GROUNDWATER ELEVATION RESULTS

Gallegos Canyon Unit #124E						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-5	06/10/17	5946.03	ND	24.93		5921.10
MW-5	11/11/17	5946.03	ND	24.98		5921.05
MW-5	05/18/18	5946.03	ND	25.36		5920.67
MW-5	10/28/18	5946.03	ND	25.65		5920.38
MW-5	05/23/19	5946.03	26.12	26.31	0.19	5919.86
MW-5	11/11/19	5946.03	26.52	26.63	0.11	5919.48
MW-5	05/16/20	5946.03	26.95	27.11	0.16	5919.04
MW-5	08/18/20	5946.03	27.19	27.22	0.03	5918.83
MW-5	11/11/20	5946.03	27.14	27.15	0.01	5918.89
MW-5	03/17/21	5946.03	ND	27.30		5918.73
MW-5	05/21/21	5946.03	ND	27.45		5918.58
MW-5	08/23/21	5946.03	ND	27.55		5918.48
MW-5	11/12/21	5946.03	ND	27.50		5918.53
MW-5	03/21/22	5946.03	ND	27.49		5918.54
MW-5	05/19/22	5946.03	ND	27.58		5918.45
MW-5	08/02/22	5946.03	ND	27.67		5918.36
MW-5	11/02/22	5946.03	ND	27.59		5918.44
MW-6	12/15/13	5949.34	ND	25.48		5923.86
MW-6	04/05/14	5949.34	ND	26.16		5923.18
MW-6	10/25/14	5949.34	ND	26.90		5922.44
MW-6	05/31/15	5946.31	ND	24.44		5921.87
MW-6	11/22/15	5946.31	ND	24.13		5922.18
MW-6	04/18/16	5946.31	ND	24.66		5921.65
MW-6	10/14/16	5946.31	ND	24.89		5921.42
MW-6	06/10/17	5946.31	ND	24.19		5922.12
MW-6	11/11/17	5946.31	ND	25.29		5921.02
MW-6	05/18/18	5946.31	ND	25.62		5920.69
MW-6	10/28/18	5946.31	ND	25.91		5920.40
MW-6	05/23/19	5946.31	ND	26.31		5920.00
MW-6	11/11/19	5946.31	ND	26.55		5919.76
MW-6	05/16/20	5946.31	ND	26.72		5919.59
MW-6	11/11/20	5946.31	ND	26.83		5919.48
MW-6	05/21/21	5946.31	ND	27.11		5919.20
MW-6	11/12/21	5946.31	ND	27.22		5919.09
MW-6	05/19/22	5946.31	ND	27.22		5919.09
MW-6	11/02/22	5946.31	ND	27.26		5919.05
MW-7	12/15/13	5948.68	ND	25.34		5923.34
MW-7	04/05/14	5948.68	ND	26.13		5922.55
MW-7	10/25/14	5948.68	ND	26.89		5921.79

TABLE 3 - GROUNDWATER ELEVATION RESULTS

Gallegos Canyon Unit #124E						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-7	05/31/15	5945.78	ND	24.41		5921.37
MW-7	11/22/15	5945.78	ND	23.97		5921.81
MW-7	04/18/16	5945.78	ND	24.52		5921.26
MW-7	10/14/16	5945.78	ND	25.29		5920.49
MW-7	06/10/17	5945.78	ND	24.04		5921.74
MW-7	11/11/17	5945.78	ND	25.13		5920.65
MW-7	05/18/18	5945.78	ND	30.40		5915.38
MW-7	10/28/18	5945.78	ND	31.58		5914.20
MW-7	05/23/19	5945.78	ND	32.53		5913.25
MW-7	11/11/19	5945.78	ND	32.76		5913.02
MW-7	05/16/20	5945.78	ND	33.16		5912.62
MW-7	11/11/20	5945.78	ND	33.11		5912.67
MW-7	05/21/21	5945.78	ND	33.33		5912.45
MW-7	11/12/21	5945.78	ND	33.37		5912.41
MW-7	05/19/22	5945.78	ND	33.35		5912.43
MW-7	11/02/22	5945.78	ND	33.50		5912.28
MW-8	05/19/22	5944.90	ND	34.43		5910.47
MW-8	11/02/22	5944.90	ND	31.51		5913.39

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 - GROUNDWATER SVOCS ANALYTICAL RESULTS

Gallegos Canyon Unit #124E						
Location	**Date**	**1-Methylnaphthalene (µg/L)**	**2-Methylnaphthalene (µg/L)**	**Naphthalenes (µg/L)**	**Total Naphthalenes (µg/L)**	**Benzo(a)pyrene (µg/L)**
NMWQCC Standards:		-	-	-	30	0.7
MW-1	08/02/22	18	11	8.2	**37.2**	0.24
DUP-01 (MW-1)	08/02/22	17	10	7.6	**34.6**	<0.19
MW-5	08/02/22	BRL	BRL	BRL	BRL	BRL

Notes:

Results highlighted yellow exceed their respective New Mexico Water Quality Control Commission (NMWQCC) standards.
µg/L = micrograms per liter
NMWQCC = New Mexico Water Quality Control Commission (NMWQCC)
"-" NMWQCC Standard is not established
"BRL" = analyte was not detected at the indicated reporting limit.
"SVOC" = Semi-volatile Organic Compounds

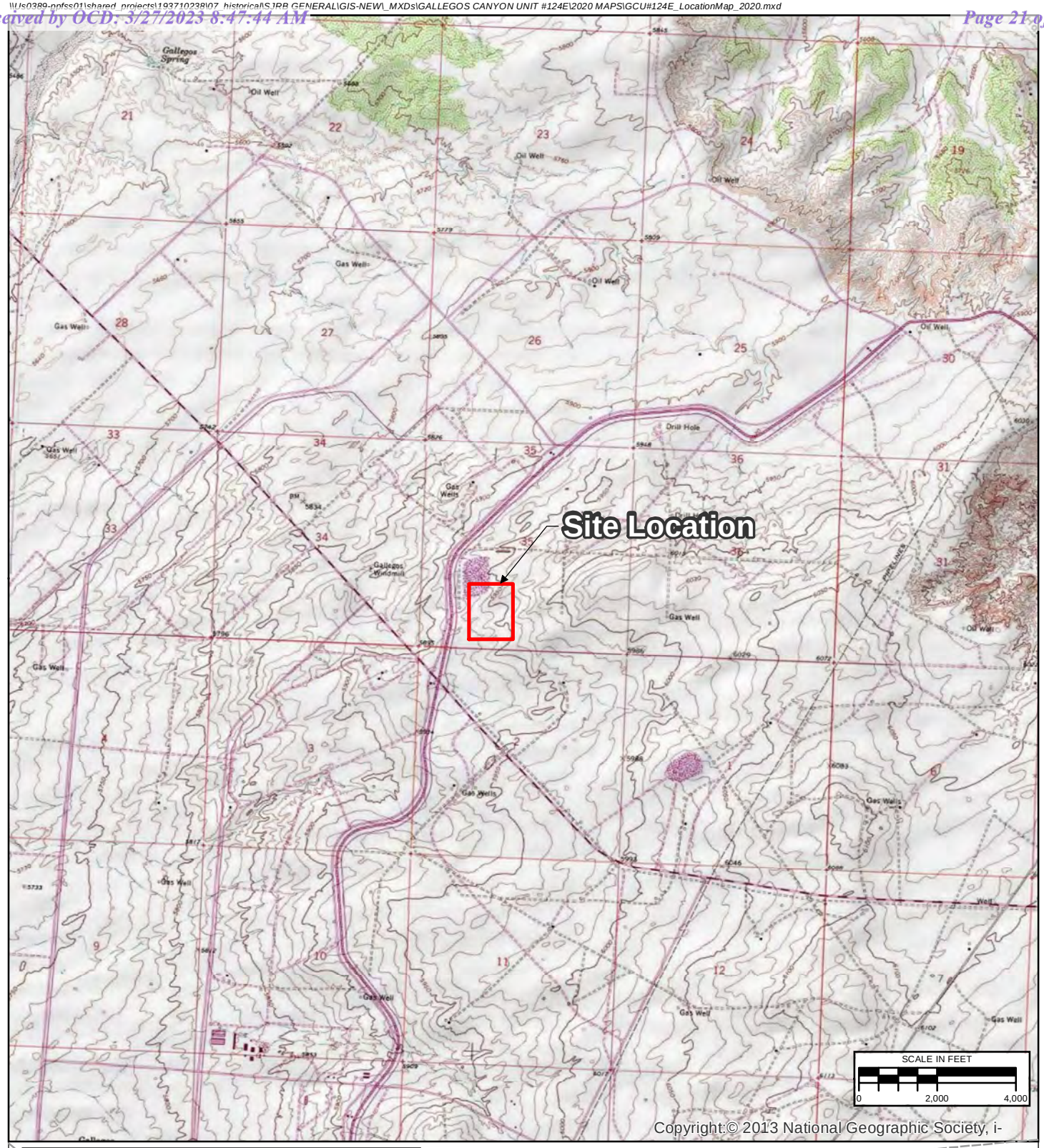
TABLE 5 - SOIL ANALYTICAL RESULTS

Gallegos Canyon Unit #124E												
Location	**Date**	**Benzene (mg/kg)**	**Toluene (mg/kg)**	**Ethylbenzene (mg/kg)**	**Total Xylenes (mg/kg)**		**BTEX Total (mg/kg)**	**TPH (C6-C10) (mg/kg)**	**TPH (C10-C22) (mg/kg)**	**TPH (C22-C36) (mg/kg)**	**TPH (mg/kg)**	**Chloride (mg/kg)**	
	NMOCD Criteria:	10	NE	NE	NE		50	NE	NE	NE	100	600	
SB-2 (40-42)	11/15/00	BRL	BRL	BRL	BRL		BRL	BRL	BRL	BRL	BRL	NA	
SB-3 (35-37)	11/15/00	BRL	BRL	BRL	BRL		BRL	BRL	BRL	BRL	BRL	NA	
MW-2 (19-20)	10/31/13	BRL	BRL	BRL	BRL		BRL	NA	NA	NA	65	35	J
MW-3 (25-26)	10/30/13	BRL	BRL	0.21	2.30		2.51	NA	NA	NA	**260**	39	J
MW-4 (25-30)	10/29/13	BRL	BRL	0.24	3.40		3.64	NA	NA	NA	**430**	26	J
MW-5 (24-25)	10/31/13	BRL	BRL	BRL	0.0036	J	0.0036	NA	NA	NA	**230**	61	
MW-6 (25-26)	10/30/13	BRL	BRL	BRL	BRL		BRL	NA	NA	NA	**590**	45	J
MW-7 (24-25)	10/31/13	BRL	BRL	BRL	BRL		BRL	NA	NA	NA	**130**	26	J
MW-8 (26-27)	04/19/22	BRL	BRL	BRL	BRL		BRL	BRL	BRL	BRL	BRL	BRL	

Notes:

J	Result is less than the Reporting Limit but greater than or equal to the Method Detection Limit and the concentration is an approximate value.
mg/kg	Milligrams per kilogram
BRL	Below Reporting Limit
NE	New Mexico Oil Conservation Division (NMOCD) Standard Not Established
BTEX	Benzene, toluene, ethylbenzene, xylenes
TPH	Total petroleum hydrocarbons
Total BTEX	Sum of the detectable concentrations of individual BTEX constituents.
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 Results bolded and highlighted yellow exceed their respective NMOCD Standards
NA	Not analyzed

FIGURES



N

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	2/22/2021	SAH	SAH	SRV

TITLE

SITE LOCATION

Stantec

PROJECT

GALLEGOS CANYON UNIT #124E
SAN JUAN RIVER BASIN
SAN JUAN COUNTY, NEW MEXICO

FIGURE

1

\\cd1001-c200\CTX-CIFS$\VDI\Redirect\shansen\Desktop\GIS-NEW_MXDs\GALLEGOS CANYON UNIT #124E\2022 MAPS\GCU#124E_SITEMAP_2022.mxd

LEGEND:

- 5795 — APPROX. GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- FENCE
- FORMER PIT
- PW — PRODUCED WATER LINE
- UGE / UGC — UNDERGROUND CABLE
- G — UNDERGROUND GAS LINE
- ABANDONED MONITORING WELL
- SMA BENCHMARK
- GAS VALVE
- MONITORING WELL
- SOIL BORING
- RIG ANCHOR
- WELLHEAD

N

SCALE IN FEET

0 30 60

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	2023-03-06	SAH	SAH	SRV

TITLE:

SITE PLAN

PROJECT: GALLEGOS CANYON UNIT #124E
SAN JUAN RIVER BASIN
SAN JUAN COUNTY, NEW MEXICO

Stantec

Figure No.: 2

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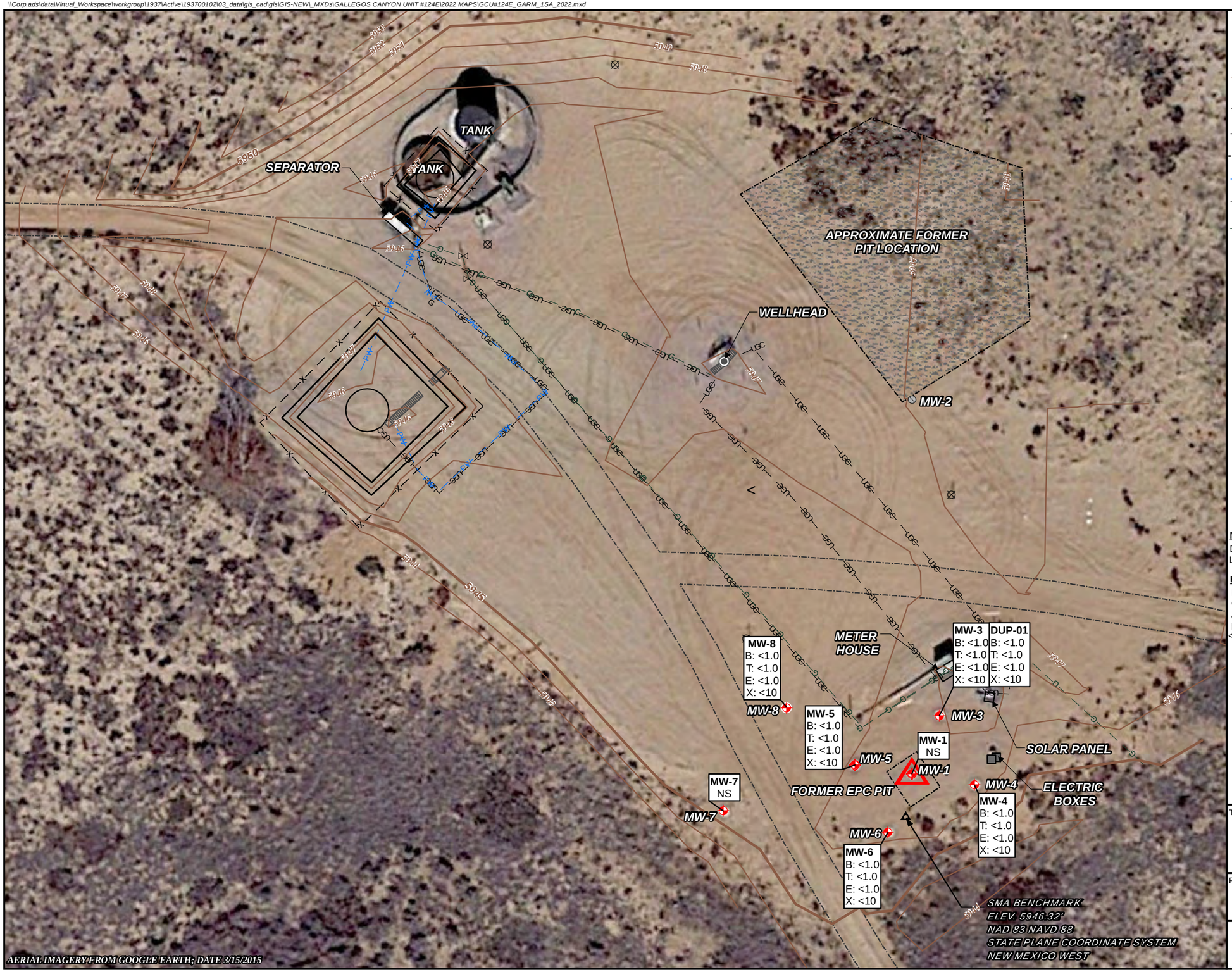

LEGEND:

- APPROX. GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- FENCE
- FORMER PIT
- PRODUCED WATER LINE
- UNDERGROUND CABLE
- UNDERGROUND GAS LINE
- ABANDONED MONITORING WELL
- SMA BENCHMARK
- GAS VALVE
- MONITORING WELL
- MONITORING WELL WITH MEASURABLE LNAPL
- RIG ANCHOR
- WELLHEAD

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.
µg/L = MICROGRAMS PER LITER
<10 = BELOW METHOD 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 30 60

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	2022-09-16	SAH	SAH	SRV

TITLE:

GROUNDWATER ANALYTICAL RESULTS
MAY 19, 2022

PROJECT: **GALLEGOS CANYON UNIT #124E**
SAN JUAN RIVER BASIN
SAN JUAN COUNTY, NEW MEXICO

Stantec

Figure No.: **3**

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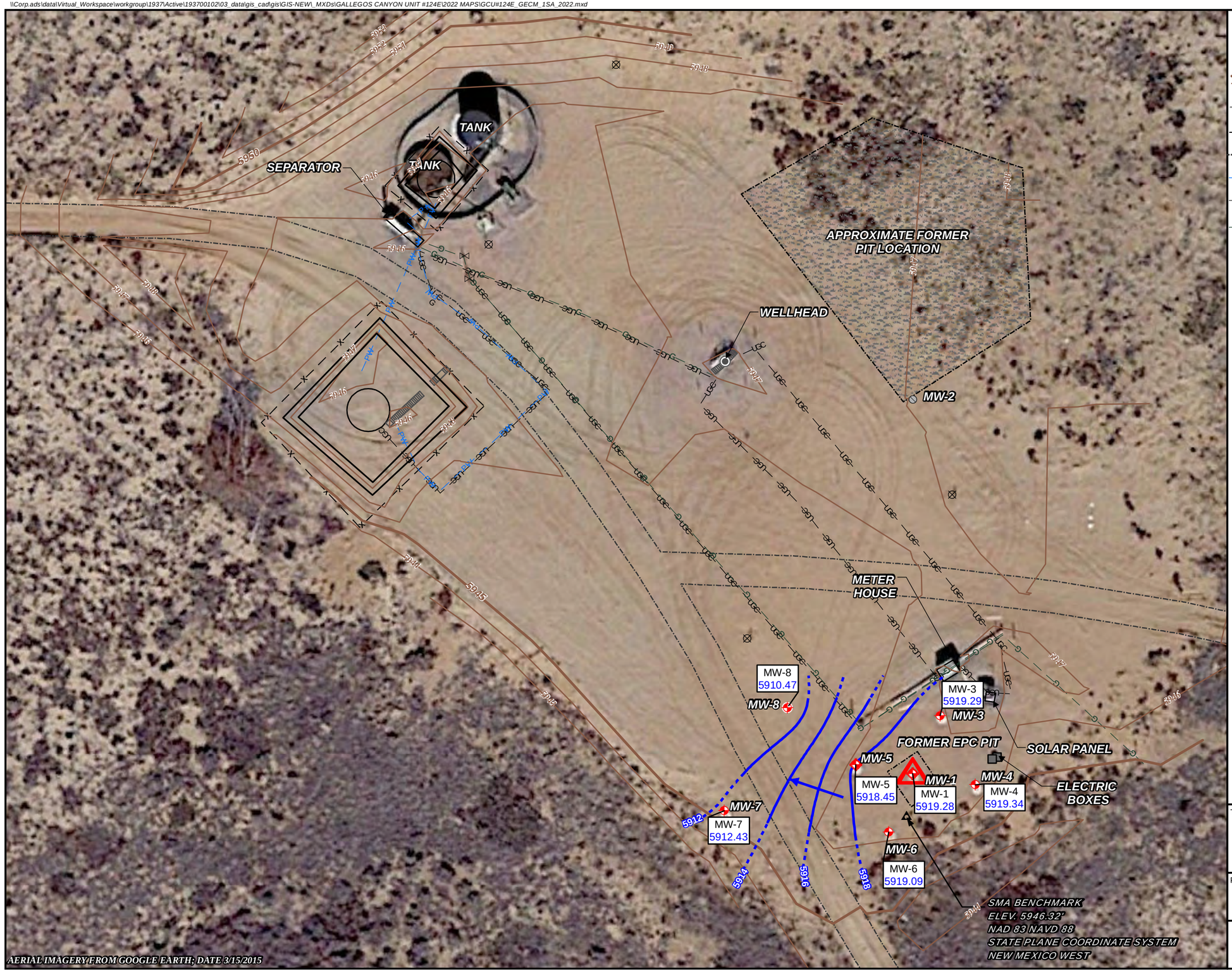


LEGEND:

- 5795 — APPROX. GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- FENCE
- FORMER PIT
- PW — PRODUCED WATER LINE
- UGC — UNDERGROUND CABLE
- G — UNDERGROUND GAS LINE
- ABANDONED MONITORING WELL
- SMA BENCHMARK
- GAS VALVE
- MONITORING WELL
- MONITORING WELL WITH MEASURABLE LNAPL
- RIG ANCHOR
- WELLHEAD

NOTES:

5919.28 GROUNDWATER ELEVATION CORRECTED FOR LNAPL THICKNESS. FEET ABOVE MEAN SEA LEVEL

5916 CORRECTED WATER LEVEL ELEVATION CONTOUR DASHED WHERE INFERRED (FEET ABOVE MEAN SEA LEVEL)

DIRECTION OF GROUNDWATER FLOW

LNAPL = LIGHT NON-AQUEOUS PHASE LIQUID

N

SCALE IN FEET

0 30 60

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	2022-09-16	SAH	SAH	SRV

TITLE:

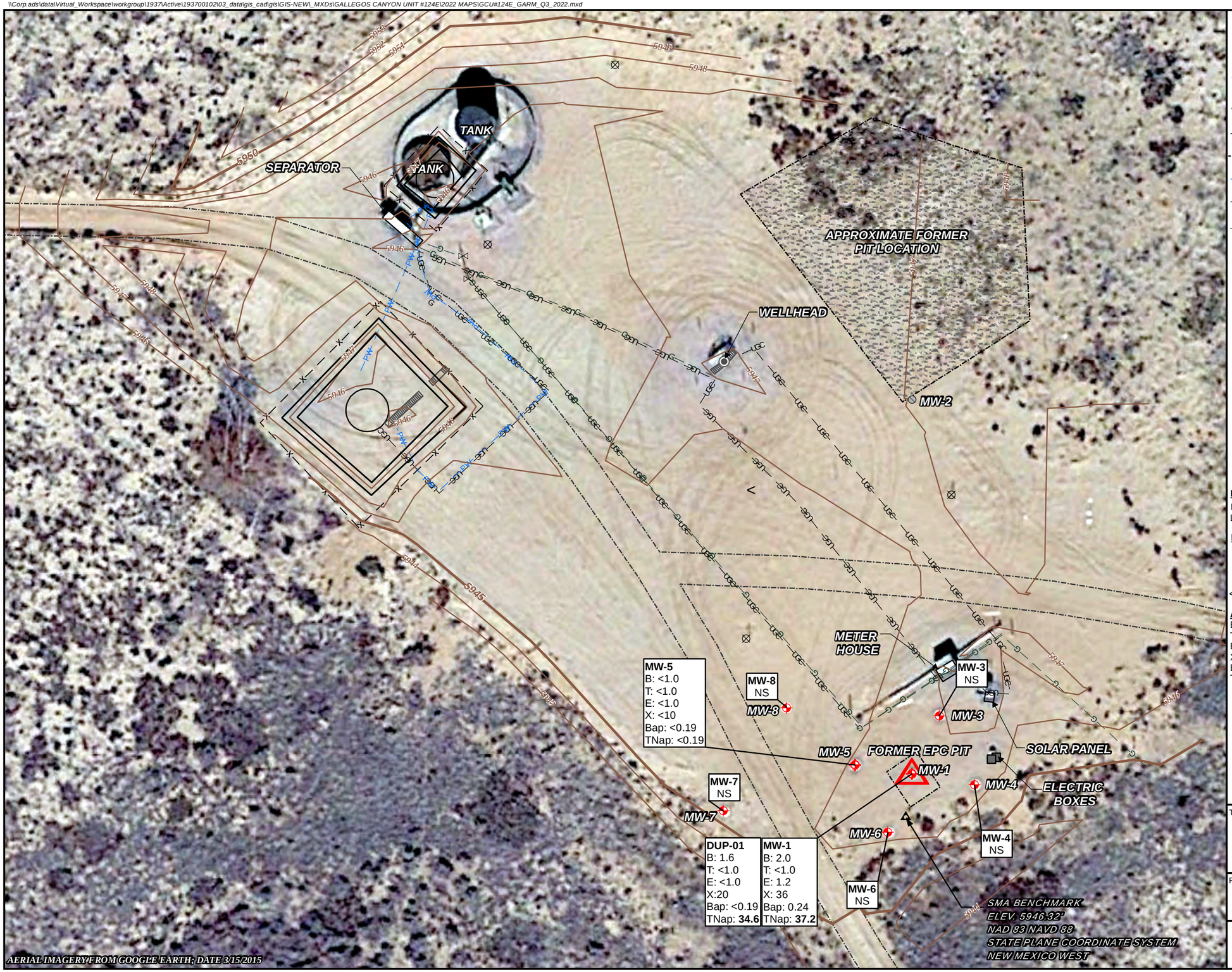
GROUNDWATER ELEVATION MAP
MAY 19, 2022

PROJECT: **GALLEGOS CANYON UNIT #124E**
SAN JUAN RIVER BASIN
SAN JUAN COUNTY, NEW MEXICO

Stantec

Figure No.: 4

\\Corp.ads\data\Virtual_Workspace\workgroup\1937\Active\193700102\03_data\gis_cad\gis\GIS-NEW_MXDs\GALLEGOS CANYON UNIT #124E\2022 MAPS\GCU#124E_GARM_Q3_2022.mxd



LEGEND:

- APPROX. GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- FENCE
- FORMER PIT
- PRODUCED WATER LINE
- UNDERGROUND CABLE
- UNDERGROUND GAS LINE
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- GAS VALVE
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- MONITORING WELL WITH MEASURABLE LNAPL
- RIG ANCHOR
- WELLHEAD

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.
µg/L = MICROGRAMS PER LITER
<10 = BELOW METHOD 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
Bap = Benzo(a)pyrene	0.7 µg/L
TNap = Total Naphthalene	30 ug/L

N

SCALE IN FEET
0 30 60

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	2022-10-03	SAH	SAH	SRV

TITLE:

GROUNDWATER ANALYTICAL RESULTS
AUGUST 2, 2022

PROJECT: **GALLEGOS CANYON UNIT #124E**
SAN JUAN RIVER BASIN
SAN JUAN COUNTY, NEW MEXICO

Stantec

Figure No.: **5**

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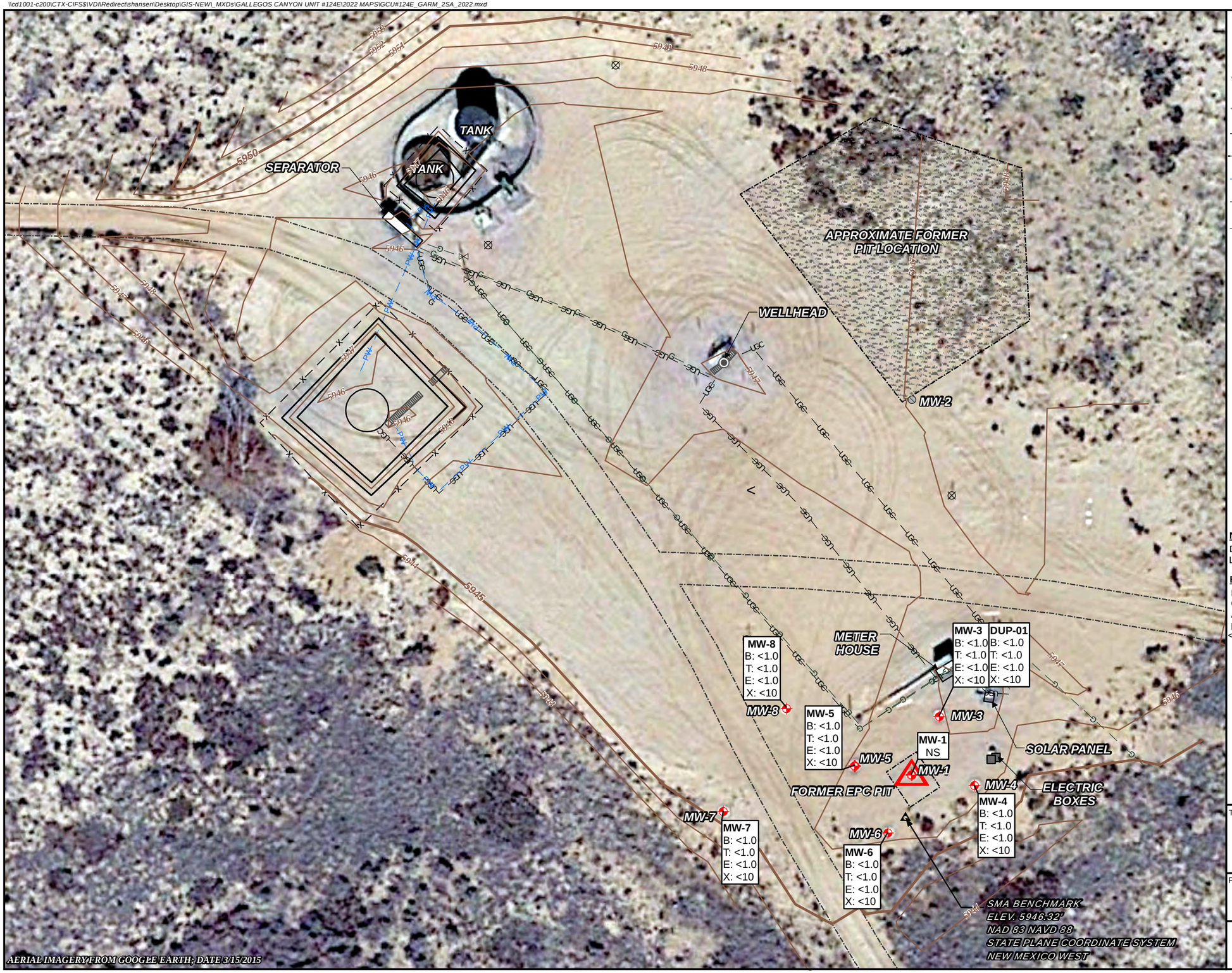

LEGEND:

- 5795 — APPROX. GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- FENCE
- FORMER PIT
- PRODUCED WATER LINE
- UNDERGROUND CABLE
- UNDERGROUND GAS LINE
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- RIG ANCHOR
- WELLHEAD

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.
µg/L = MICROGRAMS PER LITER
<10 = BELOW METHOD 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 30 60

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	2022-12-06	SAH	SAH	SRV

TITLE:

GROUNDWATER ANALYTICAL RESULTS
NOVEMBER 2, 2022

PROJECT:
GALLEGOS CANYON UNIT #124E
SAN JUAN RIVER BASIN
SAN JUAN COUNTY, NEW MEXICO

Stantec

Figure No.: 6

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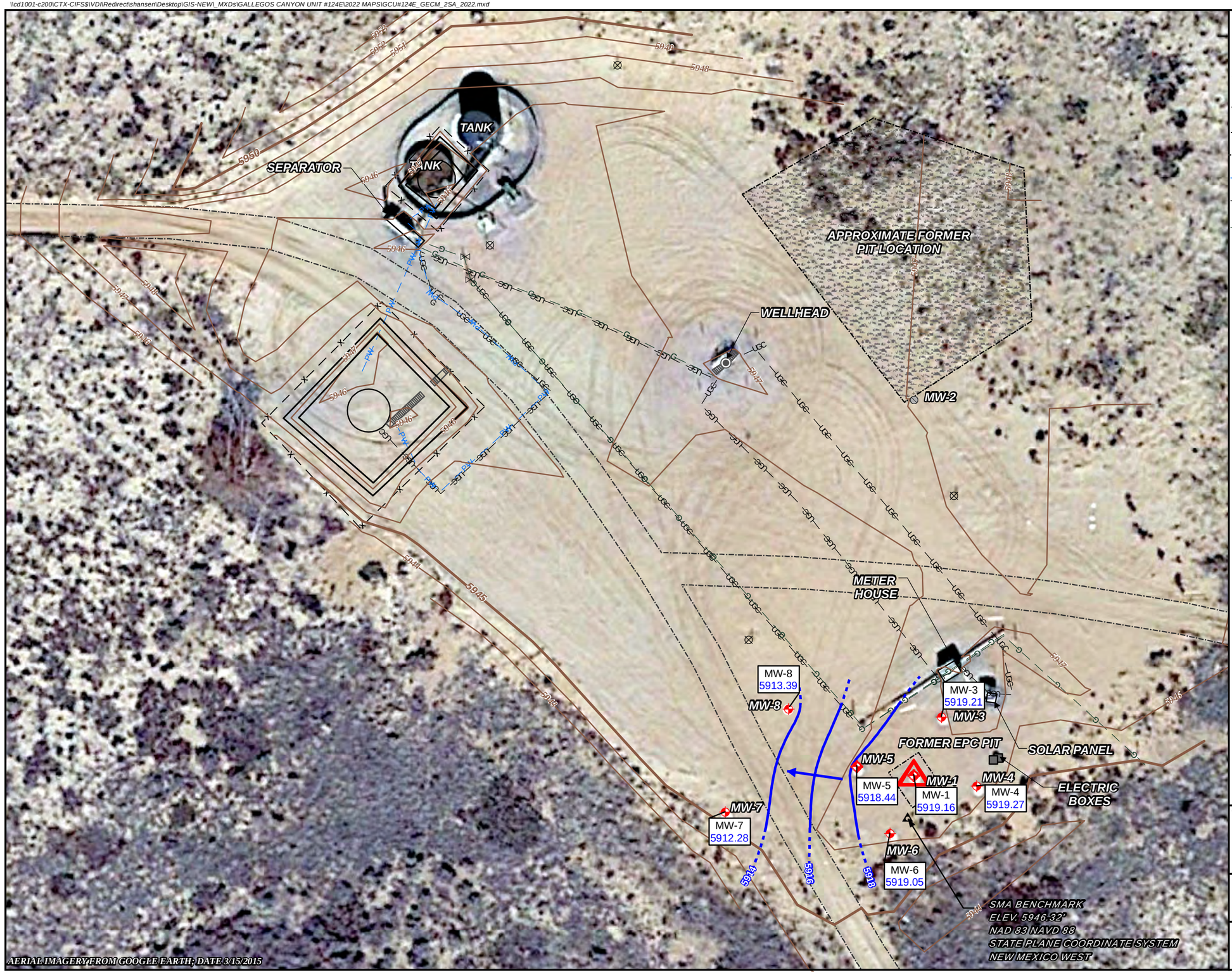

LEGEND:

- 5795 — APPROX. GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- FENCE
- FORMER PIT
- PW — PRODUCED WATER LINE
- UGE — UGC — UNDERGROUND CABLE
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- ABANDONED MONITORING WELL
- SMA BENCHMARK
- GAS VALVE
- MONITORING WELL
- MONITORING WELL WITH MEASURABLE LNAPL
- RIG ANCHOR
- WELLHEAD

NOTES:

5919.27 GROUNDWATER ELEVATION CORRECTED FOR LNAPL THICKNESS. FEET ABOVE MEAN SEA LEVEL

5916 CORRECTED WATER LEVEL ELEVATION CONTOUR DASHED WHERE INFERRED (FEET ABOVE MEAN SEA LEVEL)

DIRECTION OF GROUNDWATER FLOW

LNAPL = LIGHT NON-AQUEOUS PHASE LIQUID

N

SCALE IN FEET

0 30 60

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	2022-12-06	SAH	SAH	SRV

TITLE:

GROUNDWATER ELEVATION MAP
NOVEMBER 2, 2022

PROJECT: **GALLEGOS CANYON UNIT #124E**
SAN JUAN RIVER BASIN
SAN JUAN COUNTY, NEW MEXICO

Stantec

Figure No.: **7**

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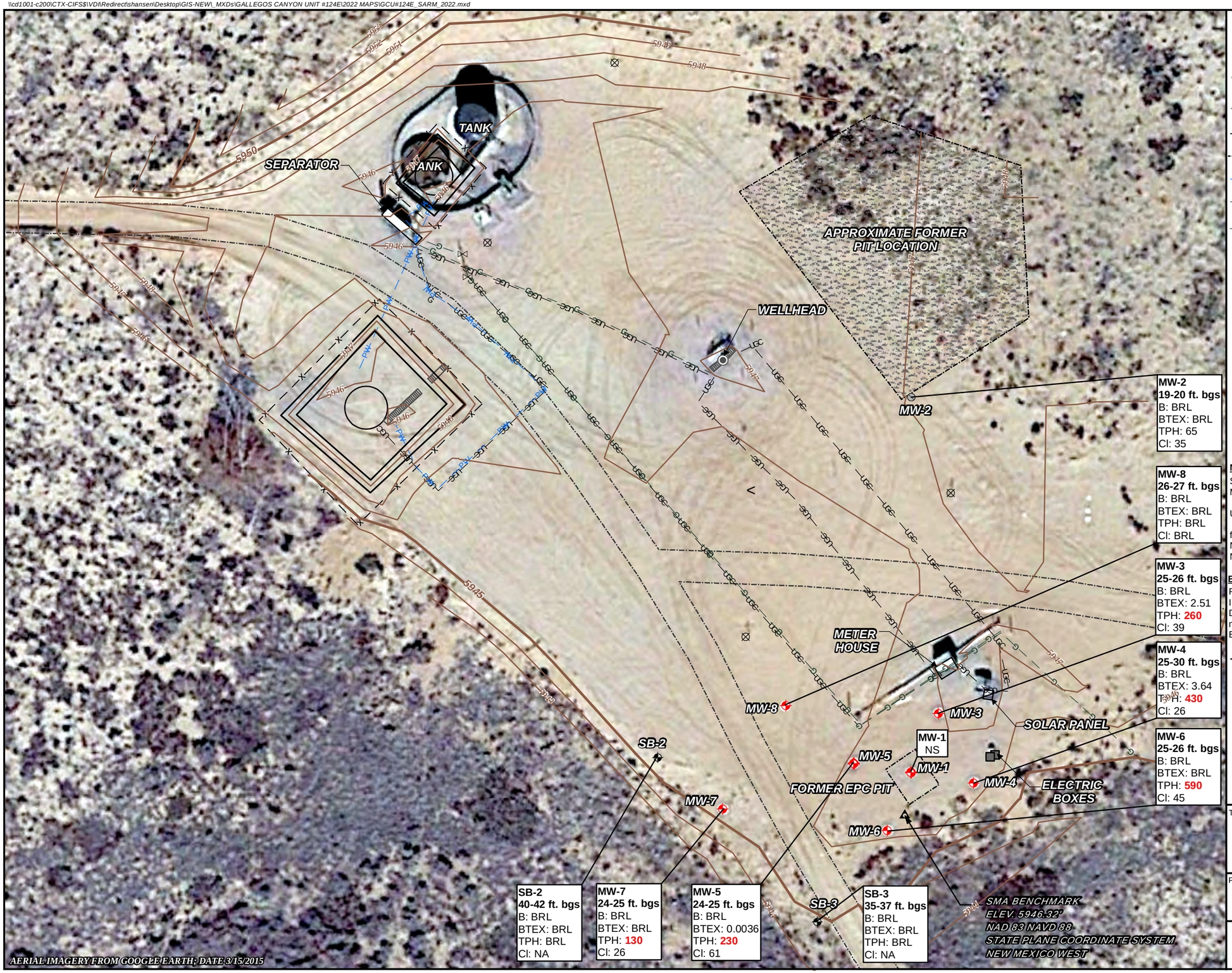

LEGEND:

- 5795 — APPROX. GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- FENCE
- FORMER PIT
- PRODUCED WATER LINE
- UNDERGROUND CABLE
- UNDERGROUND GAS LINE
- ABANDONED MONITORING WELL
- SMA BENCHMARK
- GAS VALVE
- MONITORING WELL
- SOIL BORING
- RIG ANCHOR
- WELLHEAD

NOTES:

SB-2 AND SB-3 SAMPLES COLLECTED 11/15/2000; MW-2, MW-3, MW-4, MW-5, MW-6, AND MW-7 10/31/2013; AND MW-8 4/19/2022.

UTILITY LOCATIONS ARE APPROXIMATE.

ft. bgs = FEET BELOW GROUND SURFACE
NS = NOT SAMPLED
NA = NOT ANALYZED

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 30 60

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

TITLE:

SOIL ANALYTICAL RESULTS

PROJECT:
GALLEGOS CANYON UNIT #124E
SAN JUAN RIVER BASIN
SAN JUAN COUNTY, NEW MEXICO

Stantec

Figure No.: 8

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: GCU 124E (Incident Number nAUTOfAB000205) - Notice of upcoming sampling activities
Date: Monday, April 11, 2022 6:23:05 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 18, 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: 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

From: Varsa, Steve
To: NNEPAUIC@frontiernet.net
Subject: Stantec - Notice of upcoming activities
Date: Tuesday, March 15, 2022 5:25:49 PM

Hi Mr. Austin – on behalf of El Paso CGP Company, Stantec will be on-site at the Gallegos Canyon Unit #124E to conduct routine quarterly free product activities on Monday, 03/21/2022.

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: NNEPAUIC@frontiernet.net
Bcc: Varsa, Steve
Subject: El Paso CGP Company - Work Plan for monitoring well installation activities - Gallegos Canyon Unit #124E
Date: Monday, March 21, 2022 9:40:00 AM
Attachments: 2022_03_MW instl WP (gcu 124e)_nAUTOfAB000205.pdf

---

Mr. Austin – on behalf of El Paso CGP Company, please find attached the above-referenced work plan for your reference and files. The proposed well installation work is scheduled to occur April 18 and 19, 2022.

Please feel free to contact me if you have any questions.

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: NNEPAUIC@frontiernet.net
Subject: Stantec - Notice of upcoming activities
Date: Thursday, May 12, 2022 8:50:08 AM

Hi Mr. Austin – on behalf of El Paso CGP Company, Stantec will be on-site at the Gallegos Canyon Unit #124E to conduct routine semi-annual groundwater sampling on Thursday, 5/19/2022.

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: NNEPAUIC@frontiernet.net
Subject: Stantec - Notice of upcoming activities
Date: Tuesday, July 19, 2022 8:05:09 AM

Hi Mr. Austin – on behalf of El Paso CGP Company, Stantec will be on-site at the Gallegos Canyon Unit #124E to conduct routine quarterly free product activities and sampling of two monitoring wells on Saturday, July 30, 2022.

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: NNEPAUIC@frontiernet.net
Subject: Stantec - Notice of upcoming activities (GCU 124E site)
Date: Wednesday, October 26, 2022 3:39:37 PM

Hi Mr. Austin – on behalf of El Paso CGP Company, Stantec will be on-site at the Gallegos Canyon Unit #124E site to conduct routine semi-annual groundwater sampling on Wednesday, 11/2/2022.

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 C

Drilling Log

Stantec

Monitoring Well **MW-8**

Page: 1 of 2

Project *Galegos Canyon Unit #124E* Owner *El Paso CGP Company, LLC*

Location *San Juan County, New Mexico* Project Number *193708846*

Surface Elev. *5945.37 ft* North *NA* East *NA*

Top of Casing *5944.90 ft* Water Level Initial ▽ *5911.95* 04/22/22 00:00 Static ▼ *5913.2* 05/19/22 00:00

Hole Depth *40.0 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 *20.0 ft* Type *PVC*

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

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

Start Date *4/19/2022* Completion Date *4/19/2022* 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. (Silt, clay, and sand; brown, dry, no hydrocarbon odor).	
	NM						
	NM						
	NM	100%			ML		
5	NM						
	NM						
	NM						
	NM						
	NM				SM	Sand, silty, yellowish- orangish-brown.	
	0.0				SM	Sand, silty, clayey, olive-brown, dry, loose, fine-grained, trace caliche at 9.5'.	
10	0.0						
	0.1				SC	Sand, clayey, silty, tan to orangish-brown, dry, medium dense, fine-grained.	
	0.0						
	0.0	100%					
	0.0	20%			CL	Clay, sandy, olive-brown to dark brown, dry, hard.	
	0.0						
15	0.0					No recovery.	
	NR						
	NR						
	NR	20%					
	NR						
	NR				SM	Sand, silty, brownish-tan, dry, loose, fine-grained. Driller reports hard drilling/possible cobbles below 17'.	
20	0.3					No recovery.	
	NR						
	NR						
	NR	20%					
	NR						
	NR				SC	Sand. clayey, silty, brown and orangish-brown, dry, loose, fine-grained.	
25							

Continued Next Page

Drilling Log GCU 124E.GPJ MWH IA.GDT 12/8/22

Drilling Log

Stantec

Monitoring Well **MW-8**

Page: 2 of 2

Project *Galegos Canyon Unit #124E* Owner *El Paso CGP Company, LLC*

Location *San Juan County, New Mexico* Project Number *193708846*

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	
25	0.0					No recovery.	
	NR						
	0.4*					Weathered shale, gray-green, dry, blocky texture becoming thinly bedded with depth, fractured, bedding/fracture planes oxidized. *Sample collected: MW-8 26-27'.	
	0.2	80%					
	0.2						
30	0.2					Weathered shale, gray-green, dry, very thinly bedded/fissile. bedding/fracture planes oxidized.	
	0.4						
	0.2						
	0.1	100%					
	0.0						
35	0.1					No recovery.	
	NR						
	NR					Weathered shale to siltstone, olive-gray, dry, blocky texture becoming massive with depth.	
	0.0	60%					
	0.0						
40	0.0						
						End of boring = 40'. Well set at 40'.	
45							
50							
55							

Drilling Log GCU 124E.GPJ MWH IA.GDT 12/8/22

Department of Water Resources (DWR)
Technical, Construction and Operations Branch (TCOB)
P.O. Box 678
Fort Defiance, Arizona 86504
Ph. No. (928) 729-4132/Fax No. (928) 729-4421
www.watercode.navajo-nsn.gov

WDP NO: 22-025

REF WUP NO: _____

VALID: 4/18/2022 **TO** 4/19/2022

APPROVED

WATER WELL DRILLING APPLICATION/PERMIT

TRIBAL WELL NO: _____

DRILLER'S NAME: Cascade Drilling, LP PHONE NO: 623-935-0124

ADDRESS: 7773 W. Sheldon Lane

CITY: Peoria STATE: AZ ZIP: 85345

LICENSE NO: WD-1664 CONTACT PERSON: Ronald Cain

APPLICATION/PERMIT TO: (x) DRILL ( ) RE-DRILL ( ) RE-CASE ( ) DEEPEN

WELL USE: ( ) DOMESTIC ( ) AGRICULTURE/LIVESTOCK ( ) INDUSTRIAL/MINING
( ) MUNICIPAL ( ) RECREATIONAL (x) OTHER Monitoring

PROPOSED: WELL DEPTH 40 FT WELL DIA. 9 IN CASING DIA. 2 IN
WEIGHT OF CASING 0.74 LBS/FT PRODUCTION CAPACITY 0 (Monitoring Only) GPM

DRILLING METHOD Hollow Stem Auger

PROPOSED DRILLING DATES: START 04 / 18 / 2022 COMPLETION 04 / 19 / 2022

LOCATION: CHAPTER NAME: Huerfano GRAZING DISTRICT 19

ATTACH AN 8 ½" X 11" MAP SHOWING THE LOCATION OF DRILLING

APPLICANT AGREES, AS A CONDITION AND AS CONSIDERATION FOR THE PERMIT, TO PROVIDE THE DEPARTMENT OF WATER RESOURCES, AT NO COST, THE FOLLOWING INFORMATION ON COMPLETION OF THE WELL:

A: A COMPLETED TRIBAL "WELL RECORD" FORM WITH SUMMARY DRILLER'S LOG INFORMATION AND GEOLOGIC FORMATIONS IDENTIFIED.
B: COPIES OF ALL WELL LOGS
C: COPIES OF ALL CHEMICAL ANALYSES

APPLICANT AGREES, AS A CONDITION FOR THE PERMIT, TO ALLOW REASONABLE ENTRY UPON THEIR PREMISES BY DEPARTMENT OF WATER RESOURCES.

APPLICANT: El Paso CGP Company LLC, Attn: Joseph Wiley

ADDRESS: 1001 Louisiana Street, Room 1445B CITY: Houston STATE: TX

TELEPHONE NUMBER: (713) 420-3475 ZIP: 77002

APPLICANT'S SIGNATURE: Joseph Wiley DATE: 3/18/2022

WDP NO: 22-025

REF WUP NO: _____

CONDITIONS!

The following data needs to be furnished to the DEPARTMENT OF WATER RESOURCES within 30 days of completion of the well:

1. **Driller's log;**
2. **Stratigraphic log (if done on the well);**
3. **Copies of all electric logs;**
4. **Complete water quality analysis including heavy metals and radionuclides;**
5. **Copy of completed well design and construction showing casing and well screen settings, gravel pack, and packer settings;**
6. **Cement bonding log;**
7. **Pump test data;**
8. **Copies of any special tests conducted on this well.**
9. **Placing a well in service without submittal of the above information will result in a penalty and possible fine.**
10. **Well will be utilized by local livestock permit holders in the area.**

Upon submission of data listed above to the Department of Water Resources a Water Use Permit application will be processed.

RECOMMENDATIONS

GRAZING COMMITTEE MEMBER/ DISTRICT LAND BOARD MEMBER ( ) YES( ) NO_____ DATE____/____/____

CHAPTER COUNCIL DELEGATE ( ) YES( ) NO_____ DATE____/____/____

TECHNICAL REVIEWER (✓) YES( ) NO Katrina Shultz DATE 4 / 1 / 2022

APPROVED: Jaime H. Tarin DATE 4 / 4 / 22
Branch Director, Department of Water Resources

WELL RECORD

Department of Water Resources (DWR)
Technical, Construction and Operations Branch (TCOB)
P.O. Box 678
Fort Defiance, Arizona 86504

WDP NO: 22-025
REF WUP NO:
WELL NO: MW-8
Page 1 of 2

LOCATION

7.5 min. quad name: Gallegos Trading Post Quadrangle - NM - San Juan County Quad no. 498894 Grazing Dist. 19

State: New Mexico County: San Juan Chapter: Huerfano

Approx. location: GCU 124E Site - 115 ft. southeast of NG production wellhead

UTM Coordinates: X (East): -108.0836 Y (North): 36.6139 Zone: State Plane NM West

STRUCTURE

Date begun: 4/19/2022 Date completed: 4/19/2022 Date depth measured: 4/19/2022

Elevation: _____ ft. Total Depth: 40 ft. Hole Diameter(s): 8 in.

Casing Diameter: 2 in. From: 0 ft. to 20 ft. Material: Schedule 40 PVC
Casing Diameter: _____ in. From: _____ ft. to _____ ft. Material: _____
Casing Diameter: _____ in. From: _____ ft. to _____ ft. Material: _____
Casing Diameter: _____ in. From: _____ ft. to _____ ft. Material: _____

Perforations [ ] Screen [X] (type: 0.01 in. slot) Open Hole [ ] From: 20 ft. to 40 ft.
Perforations [ ] Screen [ ] (type: _____) Open Hole [ ] From: _____ ft. to _____ ft.
Perforations [ ] Screen [ ] (type: _____) Open Hole [ ] From: _____ ft. to _____ ft.
Perforations [ ] Screen [ ] (type: _____) Open Hole [ ] From: _____ ft. to _____ ft.
Perforations [ ] Screen [ ] (type: _____) Open Hole [ ] From: _____ ft. to _____ ft.

Funded By: El Paso CGP Company LLC, Attn: Joseph Wiley Contractor: Cascade Drilling, LP (license WD-1664)

Site Improvements: Flush-mount monitoring well installation for assessment of petroleum contamination per NMOCD

Type of Lift: NA - Monitoring Well Energy Source: NA - Monitoring Well Pump HP: NA - Monitoring Well

HYDROLOGY

Well Yield: NA - Monitoring Well gallons/minute (GPM) Date Yield Measured: NA - Monitoring Well

Test Type: _____ Test rate: _____ GPM for _____ hours (Attach copy of well test data.)

Test Date: NA - Monitoring Well SWL at Beginning of Test: _____ ft. Total Drawdown: _____ ft.

Specific Capacity: NA - Monitoring Well GPM per ft. Recovery: _____ ft. after _____ hours.

Logs Available (attach copies): [X] Driller's [ ] Geophysical [ ] Other

Water Chemistry Analysis Available (attach copies): [ ] Yes [X] No

Static Water Level (SWL): 33 ft. Date: 4/22/2022 SWL. _____ ft. Date: / /

WELL RECORD

Department of Water Resources (DWR)
Technical, Construction and Operations Branch (TCOB)
P.O. Box 678
Fort Defiance, Arizona 86504

WDP NO: 22-025
REF WUP NO:
WELL NO: MW-8
Page 2 of 2

LOG

DEPTH (FT)

FROM	TO	FORMATION DESCRIPTION	GEOLOGIC UNIT	REMARKS
0	35	Silts and sands		Monitoring Well
35	40	Weathered sandstone		

Additional Comments: MW-8 is a groundwater monitoring well for petroleum contamination assessment per the NMOCD and is not designated for water supply.

Revised 9/96

1. GENERAL AND WELL LOCATION

WPD NO: 22-025	WELL TAG ID NO. MW-8	
WELL OWNER NAME(S): El Paso CGP Company LLC (contact Joseph Wiley		PHONE (OPTIONAL)
WELL OWNER MAILING ADDRESS: 1001 Louisiana Street Room 1445B		CITY: Houston, TX 77002 STATE ZIP

WELL LOCATION (FROM GPS)	DEGREES	MINUTES	SECONDS	
LATITUDE	36.6139			N
LONGITUDE	-108.0836			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
GCU 124E Site - Navajo Nation Section 35 T28N R12W

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER			NAME OF WELL DRILLING COMPANY
WD-1664	Brendan Remillard			Cascade Drilling
DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
4-19-22	4-19-22	40	41	33

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☐ SHALLOW (UNCONFINED)
STATIC WATER LEVEL IN COMPLETED WELL (FT): 33.2

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:

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

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'	40	8	Sch 40 Screen 40 to 20	Threaded	2	2	.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
41	18	8	20/40 Sand	23	Poured
18	15	8	3/8's Whole Plug	3	Poured
15	0	8	Portland Bentonite Mix	15	Pressure grout

GCU 124E Site - Navajo Nation MW-8

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	35	35	Silts and sands	Y (N)	MW Well
35	40	5	weathered Sand stone	Y (N)	MW Well
				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:

N/A

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.

SIGNATURE OF DRILLER / PRINT SIGNEE NAME

04-27-22
DATE

APPENDIX D

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

NO. 824149
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 Com LLC
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 / K 27 L 007					'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 # 72478
GENERATOR El Paso
POINT OF ORIGIN Gallegos Canyon U 124E
TRANSPORTER Riley
DATE 04.19.22 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	Hydro Vac Cont Soil			1			16013	9:15	
-	BF	Wash out			5				9:15	
					6					

SCANNED

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

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.			938	1445	
					3					
					14073-0060		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 # 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. 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 _____

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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

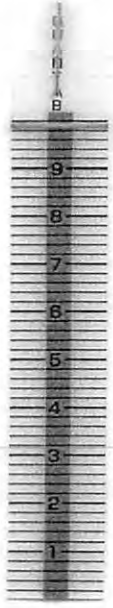
ACCEPTED YES ✓ NO _____

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 # 72478
GENERATOR El Paso
POINT OF ORIGIN Gallegos Canyon U 124E
TRANSPORTER Riley
DATE 04.19.22 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	Hydro Vac Cont Soil			1			16013	9:15	
-	BF	Wash out			5				9:15	
					6					

SCANNED

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

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 # 72588
GENERATOR El Paso (Kender morgan)
POINT OF ORIGIN GCU 124
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	Con't Soil	M34		3		01132	959	1220	
					3					
									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: BBLS Droped OFF @ L.F.

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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APPENDIX F

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 400-220350-1
Client Project/Site: Gallegos Canyon Unit #124E.00

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

Attn: Steve Varsa

Authorized for release by:
6/8/2022 7:59:02 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: Gallegos Canyon Unit #124E.00

Laboratory Job ID: 400-220350-1

Table of Contents

Case Narrative

Client: Stantec Consulting Services Inc
Project/Site: Gallegos Canyon Unit #124E.00

Job ID: 400-220350-1

Job ID: 400-220350-1

Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-220350-1

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 3.2º C.

GC/MS VOA
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.

Detection Summary

Client: Stantec Consulting Services Inc
Project/Site: Gallegos Canyon Unit #124E.00

Job ID: 400-220350-1

Client Sample ID: TRIP BLANK — Lab Sample ID: 400-220350-1

No Detections.

Client Sample ID: MW-3 — Lab Sample ID: 400-220350-2

No Detections.

Client Sample ID: MW-4 — Lab Sample ID: 400-220350-3

No Detections.

Client Sample ID: MW-5 — Lab Sample ID: 400-220350-4

No Detections.

Client Sample ID: MW-6 — Lab Sample ID: 400-220350-5

No Detections.

Client Sample ID: MW-8 — Lab Sample ID: 400-220350-6

No Detections.

Client Sample ID: DUP-01 — Lab Sample ID: 400-220350-7

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Pensacola

Method Summary

Client: Stantec Consulting Services Inc
Project/Site: Gallegos Canyon Unit #124E.00

Job ID: 400-220350-1

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

Protocol References:

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

Laboratory References:

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

Sample Summary

Client: Stantec Consulting Services Inc
Project/Site: Gallegos Canyon Unit #124E.00

Job ID: 400-220350-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-220350-1	TRIP BLANK	Water	05/19/22 17:05	05/24/22 09:02
400-220350-2	MW-3	Water	05/19/22 17:20	05/24/22 09:02
400-220350-3	MW-4	Water	05/19/22 17:55	05/24/22 09:02
400-220350-4	MW-5	Water	05/19/22 18:13	05/24/22 09:02
400-220350-5	MW-6	Water	05/19/22 18:00	05/24/22 09:02
400-220350-6	MW-8	Water	05/19/22 18:05	05/24/22 09:02
400-220350-7	DUP-01	Water	05/19/22 17:30	05/24/22 09:02

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Gallegos Canyon Unit #124E.00

Job ID: 400-220350-1

Client Sample ID: TRIP BLANK

Date Collected: 05/19/22 17:05
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220350-1

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			06/01/22 22:04	1
Toluene	<1.0		1.0		ug/L			06/01/22 22:04	1
Ethylbenzene	<1.0		1.0		ug/L			06/01/22 22:04	1
Xylenes, Total	<10		10		ug/L			06/01/22 22:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*72 - 119*		*06/01/22 22:04*	*1*
Dibromofluoromethane	*108*		*75 - 126*		*06/01/22 22:04*	*1*
Toluene-d8 (Surr)	*94*		*64 - 132*		*06/01/22 22:04*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Gallegos Canyon Unit #124E.00

Job ID: 400-220350-1

Client Sample ID: MW-3

Date Collected: 05/19/22 17:20
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220350-2

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			06/01/22 22:30	1
Toluene	<1.0		1.0		ug/L			06/01/22 22:30	1
Ethylbenzene	<1.0		1.0		ug/L			06/01/22 22:30	1
Xylenes, Total	<10		10		ug/L			06/01/22 22:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*91*		*72 - 119*		*06/01/22 22:30*	*1*
Dibromofluoromethane	*108*		*75 - 126*		*06/01/22 22:30*	*1*
Toluene-d8 (Surr)	*93*		*64 - 132*		*06/01/22 22:30*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Gallegos Canyon Unit #124E.00

Job ID: 400-220350-1

Client Sample ID: MW-4

Date Collected: 05/19/22 17:55
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220350-3

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			06/01/22 22:57	1
Toluene	<1.0		1.0		ug/L			06/01/22 22:57	1
Ethylbenzene	<1.0		1.0		ug/L			06/01/22 22:57	1
Xylenes, Total	<10		10		ug/L			06/01/22 22:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*72 - 119*		*06/01/22 22:57*	*1*
Dibromofluoromethane	*109*		*75 - 126*		*06/01/22 22:57*	*1*
Toluene-d8 (Surr)	*93*		*64 - 132*		*06/01/22 22:57*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Gallegos Canyon Unit #124E.00

Job ID: 400-220350-1

Client Sample ID: MW-5

Date Collected: 05/19/22 18:13
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220350-4

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			06/01/22 23:23	1
Toluene	<1.0		1.0		ug/L			06/01/22 23:23	1
Ethylbenzene	<1.0		1.0		ug/L			06/01/22 23:23	1
Xylenes, Total	<10		10		ug/L			06/01/22 23:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*72 - 119*		*06/01/22 23:23*	*1*
Dibromofluoromethane	*109*		*75 - 126*		*06/01/22 23:23*	*1*
Toluene-d8 (Surr)	*93*		*64 - 132*		*06/01/22 23:23*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Gallegos Canyon Unit #124E.00

Job ID: 400-220350-1

Client Sample ID: MW-6

Date Collected: 05/19/22 18:00
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220350-5

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			06/01/22 23:49	1
Toluene	<1.0		1.0		ug/L			06/01/22 23:49	1
Ethylbenzene	<1.0		1.0		ug/L			06/01/22 23:49	1
Xylenes, Total	<10		10		ug/L			06/01/22 23:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*72 - 119*		*06/01/22 23:49*	*1*
Dibromofluoromethane	*109*		*75 - 126*		*06/01/22 23:49*	*1*
Toluene-d8 (Surr)	*92*		*64 - 132*		*06/01/22 23:49*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Gallegos Canyon Unit #124E.00

Job ID: 400-220350-1

Client Sample ID: MW-8

Date Collected: 05/19/22 18:05
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220350-6

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			06/02/22 00:15	1
Toluene	<1.0		1.0		ug/L			06/02/22 00:15	1
Ethylbenzene	<1.0		1.0		ug/L			06/02/22 00:15	1
Xylenes, Total	<10		10		ug/L			06/02/22 00:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*72 - 119*		*06/02/22 00:15*	*1*
Dibromofluoromethane	*111*		*75 - 126*		*06/02/22 00:15*	*1*
Toluene-d8 (Surr)	*94*		*64 - 132*		*06/02/22 00:15*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Gallegos Canyon Unit #124E.00

Job ID: 400-220350-1

Client Sample ID: DUP-01

Date Collected: 05/19/22 17:30
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220350-7

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			06/02/22 00:41	1
Toluene	<1.0		1.0		ug/L			06/02/22 00:41	1
Ethylbenzene	<1.0		1.0		ug/L			06/02/22 00:41	1
Xylenes, Total	<10		10		ug/L			06/02/22 00:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*72 - 119*		*06/02/22 00:41*	*1*
Dibromofluoromethane	*110*		*75 - 126*		*06/02/22 00:41*	*1*
Toluene-d8 (Surr)	*92*		*64 - 132*		*06/02/22 00:41*	*1*

Definitions/Glossary

Client: Stantec Consulting Services Inc
Project/Site: Gallegos Canyon Unit #124E.00

Job ID: 400-220350-1

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: Gallegos Canyon Unit #124E.00

Job ID: 400-220350-1

Client Sample ID: TRIP BLANK
Date Collected: 05/19/22 17:05
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220350-1
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	579682	06/01/22 22:04	WPD	TAL PEN
	Instrument ID: CH_CONAN									

Client Sample ID: MW-3
Date Collected: 05/19/22 17:20
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220350-2
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	579682	06/01/22 22:30	WPD	TAL PEN
	Instrument ID: CH_CONAN									

Client Sample ID: MW-4
Date Collected: 05/19/22 17:55
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220350-3
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	579682	06/01/22 22:57	WPD	TAL PEN
	Instrument ID: CH_CONAN									

Client Sample ID: MW-5
Date Collected: 05/19/22 18:13
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220350-4
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	579682	06/01/22 23:23	WPD	TAL PEN
	Instrument ID: CH_CONAN									

Client Sample ID: MW-6
Date Collected: 05/19/22 18:00
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220350-5
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	579682	06/01/22 23:49	WPD	TAL PEN
	Instrument ID: CH_CONAN									

Client Sample ID: MW-8
Date Collected: 05/19/22 18:05
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220350-6
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	579682	06/02/22 00:15	WPD	TAL PEN
	Instrument ID: CH_CONAN									

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Gallegos Canyon Unit #124E.00

Job ID: 400-220350-1

Client Sample ID: DUP-01
Date Collected: 05/19/22 17:30
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220350-7
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	579682	06/02/22 00:41	WPD	TAL PEN
	Instrument ID: CH_CONAN									

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: Gallegos Canyon Unit #124E.00

Job ID: 400-220350-1

GC/MS VOA

Analysis Batch: 579682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-220350-1	TRIP BLANK	Total/NA	Water	8260C	
400-220350-2	MW-3	Total/NA	Water	8260C	
400-220350-3	MW-4	Total/NA	Water	8260C	
400-220350-4	MW-5	Total/NA	Water	8260C	
400-220350-5	MW-6	Total/NA	Water	8260C	
400-220350-6	MW-8	Total/NA	Water	8260C	
400-220350-7	DUP-01	Total/NA	Water	8260C	
MB 400-579682/4	Method Blank	Total/NA	Water	8260C	
LCS 400-579682/1002	Lab Control Sample	Total/NA	Water	8260C	
400-220244-A-1 MS	Matrix Spike	Total/NA	Water	8260C	
400-220244-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260C	

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Gallegos Canyon Unit #124E.00

Job ID: 400-220350-1

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

Lab Sample ID: MB 400-579682/4
Matrix: Water
Analysis Batch: 579682

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			06/01/22 16:56	1
Toluene	<1.0		1.0		ug/L			06/01/22 16:56	1
Ethylbenzene	<1.0		1.0		ug/L			06/01/22 16:56	1
Xylenes, Total	<10		10		ug/L			06/01/22 16:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*72 - 119*		*06/01/22 16:56*	*1*
Dibromofluoromethane	*104*		*75 - 126*		*06/01/22 16:56*	*1*
Toluene-d8 (Surr)	*94*		*64 - 132*		*06/01/22 16:56*	*1*

Lab Sample ID: LCS 400-579682/1002
Matrix: Water
Analysis Batch: 579682

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	45.1		ug/L		90	70 - 130		
Toluene			50.0	48.0		ug/L		96	70 - 130		
Ethylbenzene			50.0	47.1		ug/L		94	70 - 130		
Xylenes, Total			100	94.5		ug/L		94	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*97*		*72 - 119*
Dibromofluoromethane	*103*		*75 - 126*
Toluene-d8 (Surr)	*95*		*64 - 132*

Lab Sample ID: 400-220244-A-1 MS
Matrix: Water
Analysis Batch: 579682

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	41.5		ug/L		83	56 - 142		
Toluene	<1.0		50.0	39.5		ug/L		79	65 - 130		
Ethylbenzene	<1.0		50.0	38.4		ug/L		77	58 - 131		
Xylenes, Total	<10		100	77.9		ug/L		78	59 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*95*		*72 - 119*
Dibromofluoromethane	*104*		*75 - 126*
Toluene-d8 (Surr)	*91*		*64 - 132*

Lab Sample ID: 400-220244-A-1 MSD
Matrix: Water
Analysis Batch: 579682

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	43.2		ug/L		86	56 - 142	4	30
Toluene	<1.0		50.0	42.5		ug/L		85	65 - 130	7	30
Ethylbenzene	<1.0		50.0	42.0		ug/L		84	58 - 131	9	30

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Gallegos Canyon Unit #124E.00

Job ID: 400-220350-1

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

Lab Sample ID: 400-220244-A-1 MSD
Matrix: Water
Analysis Batch: 579682

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	85.3		ug/L		85	59 - 130	9	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*97*		*72 - 119*
Dibromofluoromethane	*104*		*75 - 126*
Toluene-d8 (Surr)	*92*		*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: 400-111392-37672.1
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 #: WD1040034			
Email: steve.varsa@stantec.com	WO #: ERG-STN-05-06-22-SAH-04			
Project Name: Gallegos Canyon Unit #124E.00	Project #: 40005479			
Site: GCU124	SSOW#:			

Analysis Requested

Preservation Codes:

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

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS	8260C - (MOD) BTEX 8260	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
Trip Blank	5/19/2022	1705	G	Water			3	3	
MW-3	5/19/2022	1720	G	Water			3	3	
MW-4	5/19/2022	1755	G	Water			3	3	
MW-5	5/19/2022	1813	G	Water			3	3	
MW-6	5/19/2022	1800	G	Water			2	2	
MW-8	5/19/2022	1805	G	Water			3	3	
DUP-01	5/19/2022	1730	G	Water			3	3	
				Water					

400-220350 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: Sean Clary	Date/Time: 5/23/2022 1215	Company Stantec	Received by: MW	Date/Time: 5/24/22 0902	Company EETS	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
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: 3.2°C IR10

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc Job Number: 400-220350-1

Login Number: 220350 **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	3.2°C IR10
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: 400-220350-1
Project/Site: Gallegos Canyon Unit #124E.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	03-31-23

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ANALYTICAL REPORT

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

Laboratory Job ID: 400-223968-1
Client Project/Site: Gallegos Canyon Unit #124E.00

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

Attn: Steve Varsa

Authorized for release by:
9/30/2022 8:41:44 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: Gallegos Canyon Unit #124E.00

Laboratory Job ID: 400-223968-1

Table of Contents

Case Narrative

Client: Stantec Consulting Services Inc
Project/Site: Gallegos Canyon Unit #124E.00

Job ID: 400-223968-1

Job ID: 400-223968-1

Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-223968-1

Comments
No additional comments.

Receipt
The samples were received on 8/4/2022 8:58 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 2.3º C.

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

GC/MS Semi VOA
Method 8270D LL: The surrogate recovery for the blank associated with preparation batch 400-587706 and analytical batch 400-587808 was outside the upper control limits.

Method 8270D LL: Three surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outsi acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: MW1 (400-223968-1), MW5 (400-223968-2) and (LCS 400-587706/2-A). These results ha been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or 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.

Detection Summary

Client: Stantec Consulting Services Inc
Project/Site: Gallegos Canyon Unit #124E.00

Job ID: 400-223968-1

Client Sample ID: MW1 — Lab Sample ID: 400-223968-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	2.0		1.0		ug/L	1		8260C	Total/NA
Ethylbenzene	1.2		1.0		ug/L	1		8260C	Total/NA
Xylenes, Total	36		10		ug/L	1		8260C	Total/NA
Benzo[a]pyrene	0.24		0.20		ug/L	1		8270D LL	Total/NA
1-Methylnaphthalene	18		0.20		ug/L	1		8270D LL	Total/NA
2-Methylnaphthalene	11		0.20		ug/L	1		8270D LL	Total/NA
Naphthalene	8.2		0.20		ug/L	1		8270D LL	Total/NA

Client Sample ID: MW5 — Lab Sample ID: 400-223968-2

No Detections.

Client Sample ID: DP01 — Lab Sample ID: 400-223968-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	1.6		1.0		ug/L	1		8260C	Total/NA
Xylenes, Total	20		10		ug/L	1		8260C	Total/NA
1-Methylnaphthalene	17		0.19		ug/L	1		8270D LL	Total/NA
2-Methylnaphthalene	10		0.19		ug/L	1		8270D LL	Total/NA
Naphthalene	7.6		0.19		ug/L	1		8270D LL	Total/NA

Client Sample ID: TRIP — Lab Sample ID: 400-223968-4

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Pensacola

Method Summary

Client: Stantec Consulting Services Inc
Project/Site: Gallegos Canyon Unit #124E.00

Job ID: 400-223968-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET PEN
8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	EET PEN
3510C	Liquid-Liquid Extraction (Separatory Funnel)	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: Gallegos Canyon Unit #124E.00

Job ID: 400-223968-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-223968-1	MW1	Water	08/02/22 19:05	08/04/22 08:58
400-223968-2	MW5	Water	08/02/22 18:30	08/04/22 08:58
400-223968-3	DP01	Water	08/02/22 12:00	08/04/22 08:58
400-223968-4	TRIP	Water	08/02/22 12:00	08/04/22 08:58

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Gallegos Canyon Unit #124E.00

Job ID: 400-223968-1

Client Sample ID: MW1

Date Collected: 08/02/22 19:05
Date Received: 08/04/22 08:58

Lab Sample ID: 400-223968-1

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**2.0**		1.0		ug/L			08/06/22 21:21	1
Toluene	<1.0		1.0		ug/L			08/06/22 21:21	1
Ethylbenzene	**1.2**		1.0		ug/L			08/06/22 21:21	1
Xylenes, Total	**36**		10		ug/L			08/06/22 21:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*89*		*72 - 119*		*08/06/22 21:21*	*1*
Dibromofluoromethane	*92*		*75 - 126*		*08/06/22 21:21*	*1*
Toluene-d8 (Surr)	*99*		*64 - 132*		*08/06/22 21:21*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	**0.24**		0.20		ug/L		08/05/22 13:38	08/06/22 18:02	1
1-Methylnaphthalene	**18**		0.20		ug/L		08/05/22 13:38	08/06/22 18:02	1
2-Methylnaphthalene	**11**		0.20		ug/L		08/05/22 13:38	08/06/22 18:02	1
Naphthalene	**8.2**		0.20		ug/L		08/05/22 13:38	08/06/22 18:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*121*		*15 - 122*	*08/05/22 13:38*	*08/06/22 18:02*	*1*
Nitrobenzene-d5	*97*		*19 - 130*	*08/05/22 13:38*	*08/06/22 18:02*	*1*
Terphenyl-d14	*162*	*S1+*	*33 - 138*	*08/05/22 13:38*	*08/06/22 18:02*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Gallegos Canyon Unit #124E.00

Job ID: 400-223968-1

Client Sample ID: MW5

Date Collected: 08/02/22 18:30
Date Received: 08/04/22 08:58

Lab Sample ID: 400-223968-2

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			08/06/22 21:45	1
Toluene	<1.0		1.0		ug/L			08/06/22 21:45	1
Ethylbenzene	<1.0		1.0		ug/L			08/06/22 21:45	1
Xylenes, Total	<10		10		ug/L			08/06/22 21:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*91*		*72 - 119*		*08/06/22 21:45*	*1*
Dibromofluoromethane	*91*		*75 - 126*		*08/06/22 21:45*	*1*
Toluene-d8 (Surr)	*96*		*64 - 132*		*08/06/22 21:45*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.19		0.19		ug/L		08/05/22 13:38	08/06/22 18:17	1
1-Methylnaphthalene	<0.19		0.19		ug/L		08/05/22 13:38	08/06/22 18:17	1
2-Methylnaphthalene	<0.19		0.19		ug/L		08/05/22 13:38	08/06/22 18:17	1
Naphthalene	<0.19		0.19		ug/L		08/05/22 13:38	08/06/22 18:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*116*		*15 - 122*	*08/05/22 13:38*	*08/06/22 18:17*	*1*
Nitrobenzene-d5	*98*		*19 - 130*	*08/05/22 13:38*	*08/06/22 18:17*	*1*
Terphenyl-d14	*153*	*S1+*	*33 - 138*	*08/05/22 13:38*	*08/06/22 18:17*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Gallegos Canyon Unit #124E.00

Job ID: 400-223968-1

Client Sample ID: DP01

Date Collected: 08/02/22 12:00
Date Received: 08/04/22 08:58

Lab Sample ID: 400-223968-3

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.6**		1.0		ug/L			08/06/22 22:10	1
Toluene	<1.0		1.0		ug/L			08/06/22 22:10	1
Ethylbenzene	<1.0		1.0		ug/L			08/06/22 22:10	1
Xylenes, Total	**20**		10		ug/L			08/06/22 22:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*88*		*72 - 119*		*08/06/22 22:10*	*1*
Dibromofluoromethane	*93*		*75 - 126*		*08/06/22 22:10*	*1*
Toluene-d8 (Surr)	*98*		*64 - 132*		*08/06/22 22:10*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.19		0.19		ug/L		08/05/22 13:38	08/08/22 14:31	1
1-Methylnaphthalene	**17**		0.19		ug/L		08/05/22 13:38	08/08/22 14:31	1
2-Methylnaphthalene	**10**		0.19		ug/L		08/05/22 13:38	08/08/22 14:31	1
Naphthalene	**7.6**		0.19		ug/L		08/05/22 13:38	08/08/22 14:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*80*		*15 - 122*	*08/05/22 13:38*	*08/08/22 14:31*	*1*
Nitrobenzene-d5	*78*		*19 - 130*	*08/05/22 13:38*	*08/08/22 14:31*	*1*
Terphenyl-d14	*79*		*33 - 138*	*08/05/22 13:38*	*08/08/22 14:31*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Gallegos Canyon Unit #124E.00

Job ID: 400-223968-1

Client Sample ID: TRIP
Date Collected: 08/02/22 12:00
Date Received: 08/04/22 08:58

Lab Sample ID: 400-223968-4
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			08/06/22 18:06	1
Toluene	<1.0		1.0		ug/L			08/06/22 18:06	1
Ethylbenzene	<1.0		1.0		ug/L			08/06/22 18:06	1
Xylenes, Total	<10		10		ug/L			08/06/22 18:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*72 - 119*		*08/06/22 18:06*	*1*
Dibromofluoromethane	*92*		*75 - 126*		*08/06/22 18:06*	*1*
Toluene-d8 (Surr)	*100*		*64 - 132*		*08/06/22 18:06*	*1*

Definitions/Glossary

Client: Stantec Consulting Services Inc
Project/Site: Gallegos Canyon Unit #124E.00

Job ID: 400-223968-1

Qualifiers

GC/MS Semi 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: Gallegos Canyon Unit #124E.00

Job ID: 400-223968-1

Client Sample ID: MW1
Date Collected: 08/02/22 19:05
Date Received: 08/04/22 08:58

Lab Sample ID: 400-223968-1
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	587802	08/06/22 21:21	AGW	EET PEN
	Instrument ID: Argo									
Total/NA	Prep	3510C			255.2 mL	1 mL	587706	08/05/22 13:38	STC	EET PEN
Total/NA	Analysis	8270D LL		1			587808	08/06/22 18:02	PP1	EET PEN
	Instrument ID: Peanuts									

Client Sample ID: MW5
Date Collected: 08/02/22 18:30
Date Received: 08/04/22 08:58

Lab Sample ID: 400-223968-2
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	587802	08/06/22 21:45	AGW	EET PEN
	Instrument ID: Argo									
Total/NA	Prep	3510C			259.4 mL	1 mL	587706	08/05/22 13:38	STC	EET PEN
Total/NA	Analysis	8270D LL		1			587808	08/06/22 18:17	PP1	EET PEN
	Instrument ID: Peanuts									

Client Sample ID: DP01
Date Collected: 08/02/22 12:00
Date Received: 08/04/22 08:58

Lab Sample ID: 400-223968-3
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	587802	08/06/22 22:10	AGW	EET PEN
	Instrument ID: Argo									
Total/NA	Prep	3510C			260.8 mL	1 mL	587706	08/05/22 13:38	STC	EET PEN
Total/NA	Analysis	8270D LL		1			587911	08/08/22 14:31	KJA	EET PEN
	Instrument ID: LUCY									

Client Sample ID: TRIP
Date Collected: 08/02/22 12:00
Date Received: 08/04/22 08:58

Lab Sample ID: 400-223968-4
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	587802	08/06/22 18:06	AGW	EET PEN
	Instrument ID: Argo									

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: Gallegos Canyon Unit #124E.00

Job ID: 400-223968-1

GC/MS VOA

Analysis Batch: 587802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-223968-1	MW1	Total/NA	Water	8260C	
400-223968-2	MW5	Total/NA	Water	8260C	
400-223968-3	DP01	Total/NA	Water	8260C	
400-223968-4	TRIP	Total/NA	Water	8260C	
MB 400-587802/5	Method Blank	Total/NA	Water	8260C	
LCS 400-587802/1003	Lab Control Sample	Total/NA	Water	8260C	
400-223889-A-1 MS	Matrix Spike	Total/NA	Water	8260C	
400-223889-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 587706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-223968-1	MW1	Total/NA	Water	3510C	
400-223968-2	MW5	Total/NA	Water	3510C	
400-223968-3	DP01	Total/NA	Water	3510C	
MB 400-587706/1-A	Method Blank	Total/NA	Water	3510C	
LCS 400-587706/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 400-587706/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 587808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-223968-1	MW1	Total/NA	Water	8270D LL	587706
400-223968-2	MW5	Total/NA	Water	8270D LL	587706
MB 400-587706/1-A	Method Blank	Total/NA	Water	8270D LL	587706
LCS 400-587706/2-A	Lab Control Sample	Total/NA	Water	8270D LL	587706
LCSD 400-587706/3-A	Lab Control Sample Dup	Total/NA	Water	8270D LL	587706

Analysis Batch: 587911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-223968-3	DP01	Total/NA	Water	8270D LL	587706

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Gallegos Canyon Unit #124E.00

Job ID: 400-223968-1

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

Lab Sample ID: MB 400-587802/5
Matrix: Water
Analysis Batch: 587802

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			08/06/22 15:01	1
Toluene	<1.0		1.0		ug/L			08/06/22 15:01	1
Ethylbenzene	<1.0		1.0		ug/L			08/06/22 15:01	1
Xylenes, Total	<10		10		ug/L			08/06/22 15:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*90*		*72 - 119*		*08/06/22 15:01*	*1*
Dibromofluoromethane	*93*		*75 - 126*		*08/06/22 15:01*	*1*
Toluene-d8 (Surr)	*99*		*64 - 132*		*08/06/22 15:01*	*1*

Lab Sample ID: LCS 400-587802/1003
Matrix: Water
Analysis Batch: 587802

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	49.7		ug/L		99	70 - 130		
Toluene			50.0	46.7		ug/L		93	70 - 130		
Ethylbenzene			50.0	49.8		ug/L		100	70 - 130		
Xylenes, Total			100	94.9		ug/L		95	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*88*		*72 - 119*
Dibromofluoromethane	*95*		*75 - 126*
Toluene-d8 (Surr)	*96*		*64 - 132*

Lab Sample ID: 400-223889-A-1 MS
Matrix: Water
Analysis Batch: 587802

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	46.6		ug/L		93	56 - 142		
Toluene	<1.0		50.0	43.1		ug/L		86	65 - 130		
Ethylbenzene	<1.0		50.0	43.9		ug/L		88	58 - 131		
Xylenes, Total	<10		100	83.8		ug/L		84	59 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*95*		*72 - 119*
Dibromofluoromethane	*95*		*75 - 126*
Toluene-d8 (Surr)	*95*		*64 - 132*

Lab Sample ID: 400-223889-A-1 MSD
Matrix: Water
Analysis Batch: 587802

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	46.8		ug/L		94	56 - 142	0	30
Toluene	<1.0		50.0	41.8		ug/L		84	65 - 130	3	30
Ethylbenzene	<1.0		50.0	38.1		ug/L		76	58 - 131	14	30

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Gallegos Canyon Unit #124E.00

Job ID: 400-223968-1

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

Lab Sample ID: 400-223889-A-1 MSD
Matrix: Water
Analysis Batch: 587802

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	72.8		ug/L		73	59 - 130	14	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*89*		*72 - 119*
Dibromofluoromethane	*96*		*75 - 126*
Toluene-d8 (Surr)	*98*		*64 - 132*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 400-587706/1-A
Matrix: Water
Analysis Batch: 587808

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 587706

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.20		0.20		ug/L		08/05/22 13:37	08/06/22 17:15	1
1-Methylnaphthalene	<0.20		0.20		ug/L		08/05/22 13:37	08/06/22 17:15	1
2-Methylnaphthalene	<0.20		0.20		ug/L		08/05/22 13:37	08/06/22 17:15	1
Naphthalene	<0.20		0.20		ug/L		08/05/22 13:37	08/06/22 17:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*125*	*S1+*	*15 - 122*	*08/05/22 13:37*	*08/06/22 17:15*	*1*
Nitrobenzene-d5	*138*	*S1+*	*19 - 130*	*08/05/22 13:37*	*08/06/22 17:15*	*1*
Terphenyl-d14	*166*	*S1+*	*33 - 138*	*08/05/22 13:37*	*08/06/22 17:15*	*1*

Lab Sample ID: LCS 400-587706/2-A
Matrix: Water
Analysis Batch: 587808

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 587706

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzo[a]pyrene			120	124		ug/L		103	31 - 131		
1-Methylnaphthalene			120	121		ug/L		101	26 - 120		
2-Methylnaphthalene			120	116		ug/L		97	24 - 120		
Naphthalene			120	87.6		ug/L		73	25 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*108*		*15 - 122*
Nitrobenzene-d5	*137*	*S1+*	*19 - 130*
Terphenyl-d14	*108*		*33 - 138*

Lab Sample ID: LCSD 400-587706/3-A
Matrix: Water
Analysis Batch: 587808

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 587706

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzo[a]pyrene			120	114		ug/L		95	31 - 131	8	50
1-Methylnaphthalene			120	105		ug/L		88	26 - 120	14	55
2-Methylnaphthalene			120	103		ug/L		86	24 - 120	12	57
Naphthalene			120	74.7		ug/L		62	25 - 120	16	56

Eurofins Pensacola

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Gallegos Canyon Unit #124E.00

Job ID: 400-223968-1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCSD 400-587706/3-A
Matrix: Water
Analysis Batch: 587808

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 587706

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl	96		15 - 122
Nitrobenzene-d5	126		19 - 130
Terphenyl-d14	101		33 - 138

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 Mclaonsan	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-112826-38776.1
Client Contact: Steve Varsa	Phone: 515 710 9815	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin: NM	Page: Page 1 of 1
Company: Stantec Consulting Services Inc	PWSID:			Job #: 19370895-1
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 #: WD1040034			
Email: steve.varsa@stantec.com	WO #:			
Project Name: Gallegos Canyon Unit #124E.00 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)	~~8260C - BTEX 8260~~	8270C_LL - LVI Project Specific PAHs	~~Moisture - Moisture~~	8260C - BTEX	Total Number of containers	Special Instructions/Note:
Preservation Code:							N	N	N	A		
MW1	8/2/22	1905	G	W ~~Solid~~				X		X		
MW 5	8/2/22	1830	G	W ~~Solid~~				X		X		
DP01	8/2/22	—	G	W ~~Solid~~				X		X		
Trip	8/2/22	—	G	Water						X		

400-223968 COC

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	Rob Mclaonsan	8/2/22 1200	Stantec	FedEx	8/2/22 1700	
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 8-4-22 858	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 2.3°C IR8

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc Job Number: 400-223968-1

Login Number: 223968 **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	2.3°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: 400-223968-1
Project/Site: Gallegos Canyon Unit #124E.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	09-01-22
California	State	2510	06-30-23
Florida	NELAP	E81010	06-30-23
Georgia	State	E81010(FL)	06-30-23
Illinois	NELAP	200041	10-09-22
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	09-30-22
Michigan	State	9912	06-30-23
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	06-30-23
Tennessee	State	TN02907	06-30-23
Texas	NELAP	T104704286	09-30-22
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 | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 11/18/2022 2:36:08 PM

JOB DESCRIPTION

Gallegos Canyon Unit #124E.00

JOB NUMBER

400-228408-1

Eurofins Pensacola
3355 McLemore Drive
Pensacola FL 32514

my EOL

Client: Stantec Consulting Services Inc
Project/Site: Gallegos Canyon Unit #124E.00

Laboratory Job ID: 400-228408-1

Table of Contents

Case Narrative

Client: Stantec Consulting Services Inc
Project/Site: Gallegos Canyon Unit #124E.00

Job ID: 400-228408-1

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Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-228408-1

Comments
No additional comments.

Receipt
The samples were received on 11/4/2022 8:59 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 0.0º C.

GC/MS VOA
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.

Detection Summary

Client: Stantec Consulting Services Inc
Project/Site: Gallegos Canyon Unit #124E.00

Job ID: 400-228408-1

Client Sample ID: TB-01 — Lab Sample ID: 400-228408-1

No Detections.

Client Sample ID: DUP-01 — Lab Sample ID: 400-228408-2

No Detections.

Client Sample ID: MW-3 — Lab Sample ID: 400-228408-3

No Detections.

Client Sample ID: MW-4 — Lab Sample ID: 400-228408-4

No Detections.

Client Sample ID: MW-5 — Lab Sample ID: 400-228408-5

No Detections.

Client Sample ID: MW-6 — Lab Sample ID: 400-228408-6

No Detections.

Client Sample ID: MW-7 — Lab Sample ID: 400-228408-7

No Detections.

Client Sample ID: MW-8 — Lab Sample ID: 400-228408-8

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Pensacola

Method Summary

Client: Stantec Consulting Services Inc
Project/Site: Gallegos Canyon Unit #124E.00

Job ID: 400-228408-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	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: Gallegos Canyon Unit #124E.00

Job ID: 400-228408-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-228408-1	TB-01	Water	11/02/22 16:00	11/04/22 08:59
400-228408-2	DUP-01	Water	11/02/22 12:00	11/04/22 08:59
400-228408-3	MW-3	Water	11/02/22 16:35	11/04/22 08:59
400-228408-4	MW-4	Water	11/02/22 16:47	11/04/22 08:59
400-228408-5	MW-5	Water	11/02/22 16:57	11/04/22 08:59
400-228408-6	MW-6	Water	11/02/22 17:05	11/04/22 08:59
400-228408-7	MW-7	Water	11/02/22 17:11	11/04/22 08:59
400-228408-8	MW-8	Water	11/02/22 17:20	11/04/22 08:59

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Gallegos Canyon Unit #124E.00

Job ID: 400-228408-1

Client Sample ID: TB-01
Date Collected: 11/02/22 16:00
Date Received: 11/04/22 08:59

Lab Sample ID: 400-228408-1
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			11/15/22 18:32	1
Toluene	<1.0		1.0		ug/L			11/15/22 18:32	1
Ethylbenzene	<1.0		1.0		ug/L			11/15/22 18:32	1
Xylenes, Total	<10		10		ug/L			11/15/22 18:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*72 - 119*		*11/15/22 18:32*	*1*
Dibromofluoromethane	*88*		*75 - 126*		*11/15/22 18:32*	*1*
Toluene-d8 (Surr)	*102*		*64 - 132*		*11/15/22 18:32*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Gallegos Canyon Unit #124E.00

Job ID: 400-228408-1

Client Sample ID: DUP-01
Date Collected: 11/02/22 12:00
Date Received: 11/04/22 08:59

Lab Sample ID: 400-228408-2
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			11/15/22 18:58	1
Toluene	<1.0		1.0		ug/L			11/15/22 18:58	1
Ethylbenzene	<1.0		1.0		ug/L			11/15/22 18:58	1
Xylenes, Total	<10		10		ug/L			11/15/22 18:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*72 - 119*		*11/15/22 18:58*	*1*
Dibromofluoromethane	*92*		*75 - 126*		*11/15/22 18:58*	*1*
Toluene-d8 (Surr)	*101*		*64 - 132*		*11/15/22 18:58*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Gallegos Canyon Unit #124E.00

Job ID: 400-228408-1

Client Sample ID: MW-3
Date Collected: 11/02/22 16:35
Date Received: 11/04/22 08:59

Lab Sample ID: 400-228408-3
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			11/15/22 19:23	1
Toluene	<1.0		1.0		ug/L			11/15/22 19:23	1
Ethylbenzene	<1.0		1.0		ug/L			11/15/22 19:23	1
Xylenes, Total	<10		10		ug/L			11/15/22 19:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*72 - 119*		*11/15/22 19:23*	*1*
Dibromofluoromethane	*93*		*75 - 126*		*11/15/22 19:23*	*1*
Toluene-d8 (Surr)	*99*		*64 - 132*		*11/15/22 19:23*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Gallegos Canyon Unit #124E.00

Job ID: 400-228408-1

Client Sample ID: MW-4

Date Collected: 11/02/22 16:47
Date Received: 11/04/22 08:59

Lab Sample ID: 400-228408-4

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			11/15/22 19:48	1
Toluene	<1.0		1.0		ug/L			11/15/22 19:48	1
Ethylbenzene	<1.0		1.0		ug/L			11/15/22 19:48	1
Xylenes, Total	<10		10		ug/L			11/15/22 19:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*72 - 119*		*11/15/22 19:48*	*1*
Dibromofluoromethane	*90*		*75 - 126*		*11/15/22 19:48*	*1*
Toluene-d8 (Surr)	*101*		*64 - 132*		*11/15/22 19:48*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Gallegos Canyon Unit #124E.00

Job ID: 400-228408-1

Client Sample ID: MW-5
Date Collected: 11/02/22 16:57
Date Received: 11/04/22 08:59

Lab Sample ID: 400-228408-5
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			11/15/22 20:13	1
Toluene	<1.0		1.0		ug/L			11/15/22 20:13	1
Ethylbenzene	<1.0		1.0		ug/L			11/15/22 20:13	1
Xylenes, Total	<10		10		ug/L			11/15/22 20:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*72 - 119*		*11/15/22 20:13*	*1*
Dibromofluoromethane	*89*		*75 - 126*		*11/15/22 20:13*	*1*
Toluene-d8 (Surr)	*100*		*64 - 132*		*11/15/22 20:13*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Gallegos Canyon Unit #124E.00

Job ID: 400-228408-1

Client Sample ID: MW-6

Date Collected: 11/02/22 17:05
Date Received: 11/04/22 08:59

Lab Sample ID: 400-228408-6

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			11/15/22 20:38	1
Toluene	<1.0		1.0		ug/L			11/15/22 20:38	1
Ethylbenzene	<1.0		1.0		ug/L			11/15/22 20:38	1
Xylenes, Total	<10		10		ug/L			11/15/22 20:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*72 - 119*		*11/15/22 20:38*	*1*
Dibromofluoromethane	*89*		*75 - 126*		*11/15/22 20:38*	*1*
Toluene-d8 (Surr)	*98*		*64 - 132*		*11/15/22 20:38*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Gallegos Canyon Unit #124E.00

Job ID: 400-228408-1

Client Sample ID: MW-7

Date Collected: 11/02/22 17:11
Date Received: 11/04/22 08:59

Lab Sample ID: 400-228408-7

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			11/15/22 21:04	1
Toluene	<1.0		1.0		ug/L			11/15/22 21:04	1
Ethylbenzene	<1.0		1.0		ug/L			11/15/22 21:04	1
Xylenes, Total	<10		10		ug/L			11/15/22 21:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*72 - 119*		*11/15/22 21:04*	*1*
Dibromofluoromethane	*86*		*75 - 126*		*11/15/22 21:04*	*1*
Toluene-d8 (Surr)	*99*		*64 - 132*		*11/15/22 21:04*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Gallegos Canyon Unit #124E.00

Job ID: 400-228408-1

Client Sample ID: MW-8

Date Collected: 11/02/22 17:20
Date Received: 11/04/22 08:59

Lab Sample ID: 400-228408-8

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			11/16/22 11:53	1
Toluene	<1.0		1.0		ug/L			11/16/22 11:53	1
Ethylbenzene	<1.0		1.0		ug/L			11/16/22 11:53	1
Xylenes, Total	<10		10		ug/L			11/16/22 11:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*72 - 119*		*11/16/22 11:53*	*1*
Dibromofluoromethane	*92*		*75 - 126*		*11/16/22 11:53*	*1*
Toluene-d8 (Surr)	*102*		*64 - 132*		*11/16/22 11:53*	*1*

Definitions/Glossary

Client: Stantec Consulting Services Inc
Project/Site: Gallegos Canyon Unit #124E.00

Job ID: 400-228408-1

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: Gallegos Canyon Unit #124E.00

Job ID: 400-228408-1

Client Sample ID: TB-01
Date Collected: 11/02/22 16:00
Date Received: 11/04/22 08:59

Lab Sample ID: 400-228408-1
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	600828	11/15/22 18:32	JE	EET PEN
	Instrument ID: Argo									

Client Sample ID: DUP-01
Date Collected: 11/02/22 12:00
Date Received: 11/04/22 08:59

Lab Sample ID: 400-228408-2
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	600828	11/15/22 18:58	JE	EET PEN
	Instrument ID: Argo									

Client Sample ID: MW-3
Date Collected: 11/02/22 16:35
Date Received: 11/04/22 08:59

Lab Sample ID: 400-228408-3
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	600828	11/15/22 19:23	JE	EET PEN
	Instrument ID: Argo									

Client Sample ID: MW-4
Date Collected: 11/02/22 16:47
Date Received: 11/04/22 08:59

Lab Sample ID: 400-228408-4
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	600828	11/15/22 19:48	JE	EET PEN
	Instrument ID: Argo									

Client Sample ID: MW-5
Date Collected: 11/02/22 16:57
Date Received: 11/04/22 08:59

Lab Sample ID: 400-228408-5
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	600828	11/15/22 20:13	JE	EET PEN
	Instrument ID: Argo									

Client Sample ID: MW-6
Date Collected: 11/02/22 17:05
Date Received: 11/04/22 08:59

Lab Sample ID: 400-228408-6
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	600828	11/15/22 20:38	JE	EET PEN
	Instrument ID: Argo									

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Gallegos Canyon Unit #124E.00

Job ID: 400-228408-1

Client Sample ID: MW-7

Lab Sample ID: 400-228408-7
Matrix: Water
Date Collected: 11/02/22 17:11
Date Received: 11/04/22 08:59

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	600828	11/15/22 21:04	JE	EET PEN
	Instrument ID: Argo									

Client Sample ID: MW-8

Lab Sample ID: 400-228408-8
Matrix: Water
Date Collected: 11/02/22 17:20
Date Received: 11/04/22 08:59

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	600913	11/16/22 11:53	JE	EET PEN
	Instrument ID: Argo									

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: Gallegos Canyon Unit #124E.00

Job ID: 400-228408-1

GC/MS VOA

Analysis Batch: 600828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-228408-1	TB-01	Total/NA	Water	8260C	
400-228408-2	DUP-01	Total/NA	Water	8260C	
400-228408-3	MW-3	Total/NA	Water	8260C	
400-228408-4	MW-4	Total/NA	Water	8260C	
400-228408-5	MW-5	Total/NA	Water	8260C	
400-228408-6	MW-6	Total/NA	Water	8260C	
400-228408-7	MW-7	Total/NA	Water	8260C	
MB 400-600828/4	Method Blank	Total/NA	Water	8260C	
LCS 400-600828/1002	Lab Control Sample	Total/NA	Water	8260C	
400-228330-A-1 MS	Matrix Spike	Total/NA	Water	8260C	
400-228330-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260C	

Analysis Batch: 600913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-228408-8	MW-8	Total/NA	Water	8260C	
MB 400-600913/4	Method Blank	Total/NA	Water	8260C	
400-228408-8 MS	MW-8	Total/NA	Water	8260C	
400-228408-8 MSD	MW-8	Total/NA	Water	8260C	

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Gallegos Canyon Unit #124E.00

Job ID: 400-228408-1

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

Lab Sample ID: MB 400-600828/4
Matrix: Water
Analysis Batch: 600828

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			11/15/22 11:38	1
Toluene	<1.0		1.0		ug/L			11/15/22 11:38	1
Ethylbenzene	<1.0		1.0		ug/L			11/15/22 11:38	1
Xylenes, Total	<10		10		ug/L			11/15/22 11:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*72 - 119*		*11/15/22 11:38*	*1*
Dibromofluoromethane	*90*		*75 - 126*		*11/15/22 11:38*	*1*
Toluene-d8 (Surr)	*106*		*64 - 132*		*11/15/22 11:38*	*1*

Lab Sample ID: LCS 400-600828/1002
Matrix: Water
Analysis Batch: 600828

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	47.1		ug/L		94	70 - 130		
Toluene			50.0	50.5		ug/L		101	70 - 130		
Ethylbenzene			50.0	52.3		ug/L		105	70 - 130		
Xylenes, Total			100	97.2		ug/L		97	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*98*		*72 - 119*
Dibromofluoromethane	*87*		*75 - 126*
Toluene-d8 (Surr)	*107*		*64 - 132*

Lab Sample ID: 400-228330-A-1 MS
Matrix: Water
Analysis Batch: 600828

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	47.7		ug/L		94	56 - 142		
Toluene	<1.0		50.0	46.9		ug/L		94	65 - 130		
Ethylbenzene	<1.0		50.0	52.2		ug/L		104	58 - 131		
Xylenes, Total	<10		100	98.3		ug/L		97	59 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*95*		*72 - 119*
Dibromofluoromethane	*87*		*75 - 126*
Toluene-d8 (Surr)	*101*		*64 - 132*

Lab Sample ID: 400-228330-A-1 MSD
Matrix: Water
Analysis Batch: 600828

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		98	56 - 142	4	30
Toluene	<1.0		50.0	49.5		ug/L		99	65 - 130	6	30
Ethylbenzene	<1.0		50.0	52.7		ug/L		105	58 - 131	1	30

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Gallegos Canyon Unit #124E.00

Job ID: 400-228408-1

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

Lab Sample ID: 400-228330-A-1 MSD
Matrix: Water
Analysis Batch: 600828

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	99.6		ug/L		98	59 - 130	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*98*		*72 - 119*
Dibromofluoromethane	*86*		*75 - 126*
Toluene-d8 (Surr)	*101*		*64 - 132*

Lab Sample ID: MB 400-600913/4
Matrix: Water
Analysis Batch: 600913

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			11/16/22 11:03	1
Toluene	<1.0		1.0		ug/L			11/16/22 11:03	1
Ethylbenzene	<1.0		1.0		ug/L			11/16/22 11:03	1
Xylenes, Total	<10		10		ug/L			11/16/22 11:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*72 - 119*		*11/16/22 11:03*	*1*
Dibromofluoromethane	*89*		*75 - 126*		*11/16/22 11:03*	*1*
Toluene-d8 (Surr)	*103*		*64 - 132*		*11/16/22 11:03*	*1*

Lab Sample ID: 400-228408-8 MS
Matrix: Water
Analysis Batch: 600913

Client Sample ID: MW-8
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<1.0		50.0	49.2		ug/L		98	56 - 142		
Toluene	<1.0		50.0	49.1		ug/L		98	65 - 130		
Ethylbenzene	<1.0		50.0	49.4		ug/L		99	58 - 131		
Xylenes, Total	<10		100	92.2		ug/L		92	59 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*97*		*72 - 119*
Dibromofluoromethane	*87*		*75 - 126*
Toluene-d8 (Surr)	*99*		*64 - 132*

Lab Sample ID: 400-228408-8 MSD
Matrix: Water
Analysis Batch: 600913

Client Sample ID: MW-8
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<1.0		50.0	51.1		ug/L		102	56 - 142	4	30
Toluene	<1.0		50.0	51.2		ug/L		102	65 - 130	4	30
Ethylbenzene	<1.0		50.0	55.1		ug/L		110	58 - 131	11	30
Xylenes, Total	<10		100	101		ug/L		101	59 - 130	9	30

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Gallegos Canyon Unit #124E.00

Job ID: 400-228408-1

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

Lab Sample ID: 400-228408-8 MSD
Matrix: Water
Analysis Batch: 600913

Client Sample ID: MW-8
Prep Type: Total/NA

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene	93		72 - 119
Dibromofluoromethane	87		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

Client Information	Sampler: SLC	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-114528-37672.1
Client Contact: Steve Varsa	Phone: 913 980 0221	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin: NM	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): STD			
State, Zip: IA, 50322-7904	Compliance Project: Δ Yes Δ No			
Phone:	PO #: WD1040034			
Email: steve.varsa@stantec.com	WO #: ERG-STN-10-07-22-SAH-04			
Project Name: Gallegos Canyon Unit #124E.00 SemiAnnual	Project #: 40005479			
Site: GCU 124	SSOW#:			

Analysis Requested

400-228408 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	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	A		
TB-01	11/2/2022	1600	G	Water			3		3	Trip Blank
DUP 01	11/2/2022	—	G	Water			3		3	
MW-3	11/2/2022	1635	G	Water			3		3	
MW-4	11/2/2022	1647	G	Water			3		3	
MW-5	11/2/2022	1657	G	Water			3		3	
MW-6	11/2/2022	1705	G	Water			3		3	
MW-7	11/2/2022	1711	G	Water			3		3	
MW-8	11/2/2022	1720	G	Water			3		3	
				Water						
				Water						
				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
				11/4/22 859	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 0.0°C IR10

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc Job Number: 400-228408-1

Login Number: 228408 **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	0.0°C IR10
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: 400-228408-1
Project/Site: Gallegos Canyon Unit #124E.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

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APPENDIX G

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ANALYTICAL REPORT

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

Laboratory Job ID: 400-218819-1
Client Project/Site: Gallegos Canyon Unit #124E

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

Attn: Steve Varsa

Authorized for release by:
6/20/2022 11:25:45 AM
Isabel Enfinger, Project Manager I
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Designee for

Cheyenne Whitmire, Project Manager II
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Cheyenne.Whitmire@et.eurofinsus.com

Client: Stantec Consulting Services Inc
Project/Site: Gallegos Canyon Unit #124E

Laboratory Job ID: 400-218819-1

Table of Contents

Case Narrative

Client: Stantec Consulting Services Inc
Project/Site: Gallegos Canyon Unit #124E

Job ID: 400-218819-1

Job ID: 400-218819-1

Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-218819-1

Receipt
The sample was received on 4/21/2022 9:44 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 1.9º C.

GC Semi VOA
Method 8015B: Due to the high concentration of C10-C28, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 400-575370 and analytical batch 400-575692 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

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: Gallegos Canyon Unit #124E

Job ID: 400-218819-1

Client Sample ID: MW8 (26-27')

Lab Sample ID: 400-218819-1

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Stantec Consulting Services Inc
Project/Site: Gallegos Canyon Unit #124E

Job ID: 400-218819-1

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: Gallegos Canyon Unit #124E

Job ID: 400-218819-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-218819-1	MW8 (26-27')	Solid	04/19/22 10:25	04/21/22 09:44

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Gallegos Canyon Unit #124E

Job ID: 400-218819-1

Client Sample ID: MW8 (26-27')

Date Collected: 04/19/22 10:25
Date Received: 04/21/22 09:44

Lab Sample ID: 400-218819-1

Matrix: Solid
Percent Solids: 86.1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0058		0.0058		mg/Kg	☼	04/24/22 08:40	04/24/22 12:37	1
Ethylbenzene	<0.0058		0.0058		mg/Kg	☼	04/24/22 08:40	04/24/22 12:37	1
Toluene	<0.0058		0.0058		mg/Kg	☼	04/24/22 08:40	04/24/22 12:37	1
Xylenes, Total	<0.012		0.012		mg/Kg	☼	04/24/22 08:40	04/24/22 12:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*67 - 130*	*04/24/22 08:40*	*04/24/22 12:37*	*1*
Dibromofluoromethane	*102*		*77 - 127*	*04/24/22 08:40*	*04/24/22 12:37*	*1*
Toluene-d8 (Surr)	*97*		*76 - 127*	*04/24/22 08:40*	*04/24/22 12:37*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.11		0.11		mg/Kg	☼	04/22/22 10:42	04/22/22 14:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*99*		*65 - 125*	*04/22/22 10:42*	*04/22/22 14:00*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<5.8		5.8		mg/Kg	☼	04/26/22 14:47	04/29/22 12:05	1
Oil Range Organics (ORO)	<5.8		5.8		mg/Kg	☼	04/26/22 14:47	04/29/22 12:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*88*		*27 - 150*	*04/26/22 14:47*	*04/29/22 12:05*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<23		23		mg/Kg	☼		04/28/22 14:42	1

Definitions/Glossary

Client: Stantec Consulting Services Inc
Project/Site: Gallegos Canyon Unit #124E

Job ID: 400-218819-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

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: Gallegos Canyon Unit #124E

Job ID: 400-218819-1

Client Sample ID: MW8 (26-27')
Date Collected: 04/19/22 10:25
Date Received: 04/21/22 09:44

Lab Sample ID: 400-218819-1
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			575116	04/25/22 09:22	WJM	TAL PEN
	Instrument ID: NOEQUIP									

Client Sample ID: MW8 (26-27')
Date Collected: 04/19/22 10:25
Date Received: 04/21/22 09:44

Lab Sample ID: 400-218819-1
Matrix: Solid
Percent Solids: 86.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5.00 g	575069	04/24/22 08:40	BPO	TAL PEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	575068	04/24/22 12:37	BPO	TAL PEN
	Instrument ID: CH_WASP									
Total/NA	Prep	5035			5.19 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 14:00	NTH	TAL PEN
	Instrument ID: CH_RITA									
Total/NA	Prep	3546			15.07 g	1 mL	575370	04/26/22 14:47	NGB	TAL PEN
Total/NA	Analysis	8015B		1			575798	04/29/22 12:05	JAW	TAL PEN
	Instrument ID: Eva									
Soluble	Leach	DI Leach			2.512 g	50 mL	575302	04/26/22 09:43	JAS	TAL PEN
Soluble	Analysis	300.0		1			575647	04/28/22 14:42	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: Gallegos Canyon Unit #124E

Job ID: 400-218819-1

GC/MS VOA

Analysis Batch: 575068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-218819-1	MW8 (26-27')	Total/NA	Solid	8260B	575069
MB 400-575069/2-A	Method Blank	Total/NA	Solid	8260B	575069
LCS 400-575069/1-A	Lab Control Sample	Total/NA	Solid	8260B	575069
400-218819-1 MS	MW8 (26-27')	Total/NA	Solid	8260B	575069
400-218819-1 MSD	MW8 (26-27')	Total/NA	Solid	8260B	575069

Prep Batch: 575069

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-218819-1	MW8 (26-27')	Total/NA	Solid	5035	
MB 400-575069/2-A	Method Blank	Total/NA	Solid	5035	
LCS 400-575069/1-A	Lab Control Sample	Total/NA	Solid	5035	
400-218819-1 MS	MW8 (26-27')	Total/NA	Solid	5035	
400-218819-1 MSD	MW8 (26-27')	Total/NA	Solid	5035	

GC VOA

Prep Batch: 574888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-218819-1	MW8 (26-27')	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
400-218819-1	MW8 (26-27')	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: 575370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-218819-1	MW8 (26-27')	Total/NA	Solid	3546	
MB 400-575370/1-A	Method Blank	Total/NA	Solid	3546	
LCS 400-575370/2-A	Lab Control Sample	Total/NA	Solid	3546	
400-218932-B-8-A MS	Matrix Spike	Total/NA	Solid	3546	
400-218932-B-8-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 575692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-575370/1-A	Method Blank	Total/NA	Solid	8015B	575370
LCS 400-575370/2-A	Lab Control Sample	Total/NA	Solid	8015B	575370

Analysis Batch: 575798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-218819-1	MW8 (26-27')	Total/NA	Solid	8015B	575370
400-218932-B-8-A MS	Matrix Spike	Total/NA	Solid	8015B	575370
400-218932-B-8-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	575370

QC Association Summary

Client: Stantec Consulting Services Inc
Project/Site: Gallegos Canyon Unit #124E

Job ID: 400-218819-1

HPLC/IC

Leach Batch: 575302

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-218819-1	MW8 (26-27')	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
400-218819-1	MW8 (26-27')	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: 575116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-218819-1	MW8 (26-27')	Total/NA	Solid	Moisture	
400-218886-D-27 MS	Matrix Spike	Total/NA	Solid	Moisture	
400-218886-D-27 MSD	Matrix Spike Duplicate	Total/NA	Solid	Moisture	
400-218786-A-1 DU	Duplicate	Total/NA	Solid	Moisture	

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Gallegos Canyon Unit #124E

Job ID: 400-218819-1

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

Lab Sample ID: MB 400-575069/2-A
Matrix: Solid
Analysis Batch: 575068

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 575069

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0050		0.0050		mg/Kg		04/24/22 08:40	04/24/22 11:18	1
Ethylbenzene	<0.0050		0.0050		mg/Kg		04/24/22 08:40	04/24/22 11:18	1
Toluene	<0.0050		0.0050		mg/Kg		04/24/22 08:40	04/24/22 11:18	1
Xylenes, Total	<0.010		0.010		mg/Kg		04/24/22 08:40	04/24/22 11:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*67 - 130*	*04/24/22 08:40*	*04/24/22 11:18*	*1*
Dibromofluoromethane	*100*		*77 - 127*	*04/24/22 08:40*	*04/24/22 11:18*	*1*
Toluene-d8 (Surr)	*96*		*76 - 127*	*04/24/22 08:40*	*04/24/22 11:18*	*1*

Lab Sample ID: LCS 400-575069/1-A
Matrix: Solid
Analysis Batch: 575068

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575069

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.0500	0.0485		mg/Kg		97	65 - 130		
Ethylbenzene			0.0500	0.0447		mg/Kg		89	70 - 130		
Toluene			0.0500	0.0439		mg/Kg		88	70 - 130		
Xylenes, Total			0.100	0.0875		mg/Kg		88	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*98*		*67 - 130*
Dibromofluoromethane	*98*		*77 - 127*
Toluene-d8 (Surr)	*94*		*76 - 127*

Lab Sample ID: 400-218819-1 MS
Matrix: Solid
Analysis Batch: 575068

Client Sample ID: MW8 (26-27')
Prep Type: Total/NA
Prep Batch: 575069

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.0058		0.0574	0.0577		mg/Kg	☼	101	38 - 131		
Ethylbenzene	<0.0058		0.0574	0.0499		mg/Kg	☼	87	35 - 130		
Toluene	<0.0058		0.0574	0.0518		mg/Kg	☼	90	42 - 130		
Xylenes, Total	<0.012		0.115	0.0966		mg/Kg	☼	84	35 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*98*		*67 - 130*
Dibromofluoromethane	*96*		*77 - 127*
Toluene-d8 (Surr)	*95*		*76 - 127*

Lab Sample ID: 400-218819-1 MSD
Matrix: Solid
Analysis Batch: 575068

Client Sample ID: MW8 (26-27')
Prep Type: Total/NA
Prep Batch: 575069

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.0058		0.0573	0.0564		mg/Kg	☼	99	38 - 131	2	36
Ethylbenzene	<0.0058		0.0573	0.0477		mg/Kg	☼	83	35 - 130	4	46
Toluene	<0.0058		0.0573	0.0498		mg/Kg	☼	87	42 - 130	4	37

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Gallegos Canyon Unit #124E

Job ID: 400-218819-1

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

Lab Sample ID: 400-218819-1 MSD — **Client Sample ID: MW8 (26-27')**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 575068 — **Prep Batch: 575069**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Xylenes, Total	<0.012		0.115	0.0932		mg/Kg	☼	81	35 - 130	4	39

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*98*		*67 - 130*
Dibromofluoromethane	*98*		*77 - 127*
Toluene-d8 (Surr)	*97*		*76 - 127*

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

Lab Sample ID: MB 400-574888/2-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 574890 — **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 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 574890 — **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 — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 574890 — **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 — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 574890 — **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

Eurofins Pensacola

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Gallegos Canyon Unit #124E

Job ID: 400-218819-1

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 400-575370/1-A
Matrix: Solid
Analysis Batch: 575692

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 575370

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<5.0		5.0		mg/Kg		04/26/22 14:32	04/28/22 15:07	1
Oil Range Organics (ORO)	<5.0		5.0		mg/Kg		04/26/22 14:32	04/28/22 15:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	*84*		*27 - 150*	*04/26/22 14:32*	*04/28/22 15:07*	*1*

Lab Sample ID: LCS 400-575370/2-A
Matrix: Solid
Analysis Batch: 575692

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575370

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics (DRO)			274	218		mg/Kg		80	38 - 116		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	*77*		*27 - 150*

Lab Sample ID: 400-218932-B-8-A MS
Matrix: Solid
Analysis Batch: 575798

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 575370

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics (DRO)	45000		328	44300	4	mg/Kg	☼	-341	62 - 150		

Surrogate	MS %Recovery	MS Qualifier	Limits
o-Terphenyl	*92*		*27 - 150*

Lab Sample ID: 400-218932-B-8-B MSD
Matrix: Solid
Analysis Batch: 575798

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 575370

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics (DRO)	45000		330	41000	4	mg/Kg	☼	-1340	62 - 150	8	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
o-Terphenyl	*81*		*27 - 150*

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Gallegos Canyon Unit #124E

Job ID: 400-218819-1

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 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: 400-110416-38776.1
Client Contact: Steve Varsa	Phone: 515 251 1099	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin: NM	Page: Page 1 of 1
Company: Stantec Consulting Services Inc	PWSID:			Job #: 193708846
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:	PO #: WD801911			
Email: steve.varsa@stantec.com	WO #:			
Project Name: Gallegos Canyon Unit #124E GCU 124E	Project #: 40005479			
Site: EPCGP	SSOW#:			

Analysis Requested

400-218819 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:
MW8(26-27')	4/19/22	1025	G	Solid			X	X	X	X	X			
~~Trip Blank~~ RSM	—	—	—	Water							X			RSM
Temp Blank	—	—	—	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: RSM	Date/Time: 4/20/22 1700	Company: Stantec	Received by: Date/Time: 4/20/22 1700 Company: Fed Ex
Relinquished by:	Date/Time:	Company	Received by: Date/Time: 4/21/22 944 Company: EETS
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: 1.9°C IR9

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc Job Number: 400-218819-1

Login Number: 218819 **List Source: Eurofins Pensacola**
List Number: 1
Creator: Perez, Trina M

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.9°C IR-9
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: 400-218819-1
Project/Site: Gallegos Canyon Unit #124E

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

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 200894

CONDITIONS

Operator:	OGRID:
El Paso Natural Gas Company, L.L.C 1001 Louisiana Street Houston, TX 77002	7046
	Action Number: 200894
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Accepted for the record. Incident on tribal land.	5/19/2023