2023 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. Monitoring well MW-1 was replaced with MW-1R in April 2023. A detailed Site history is presented as Appendix A.

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-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 2023. Groundwater sampling is conducted on a semi-annual basis.

MONITORING WELL REPLACEMENT ACTIVITIES

The planned monitoring well location for MW-1R was staked for permitting and utility locating purposes prior to completing public 811 locating activities. The advancement and installation of MW-1R was completed in accordance with the January 26, 2023, *Monitoring Well Replacement Work Plan* (January 2023 Work Plan), subsequently accepted by the NMOCD. The Navajo Nation Environmental Protection Agency (NNEPA) was also provided a copy of the January 2023 Work Plan but did not respond. The NMOCD and NNEPA were both notified of the start of the MW-1R drilling activities on April 5, 2023 (Appendix B and C).

Prior to completing field work, an application to replace MW-1 was submitted to the Navajo Department of Water Resources and was subsequently approved. A copy of the approved well permit is included as Appendix D.

Existing monitoring well MW-1 was over-drilled, removed, and replaced with monitoring well MW-1R from April 12 to April 13, 2023. No soil samples were collected during the advancement of MW-1R. Ground surface and casing elevations of the new monitoring well were subsequently surveyed to tie-in to the existing monitoring well network.

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Replacement monitoring well MW-1R was constructed of 4-inch-diameter, Schedule 40 polyvinyl chloride (PVC), with 0.010-inch, continuous, factory-slotted PVC screen. Monitoring well MW-1R 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 for MW-1R are provided in Appendix E.

Monitoring well development was performed by bailing and surging until visibly clear groundwater was observed. Development and decontamination water generated in April 2023 during installation of MW-1R was containerized and transported to Envirotech, Inc. (Envirotech), in Bloomfield, NM for disposal. Copies of the wastewater disposal documentation are included in Appendix F. Soil cuttings were drummed and staged on site for later removal and disposal at Envirotech. Soil disposal documentation is contained in Appendix F.

GROUNDWATER SAMPLING ACTIVITIES

Stantec Consulting Services Inc. (Stantec) provided field work notifications via electronic mail (email) to the NMOCD on May 12, 2023, August 31, 2023, and November 9, 2023, prior to initiating groundwater sampling activities at the Site. Copies of the 2023 NMOCD notifications are provided in Appendix B. Copies of NNEPA notifications are provided in Appendix C. On May 17, August 31, and November 13, 2023, water levels were gauged, and groundwater samples collected from monitoring wells MW-1R, MW-3, MW-4, MW-5, MW-6, MW-7, and MW-8. Groundwater samples were collected from selected monitoring wells using HydraSleeve™ (HydraSleeve) no-purge groundwater sampling devices. The HydraSleeves were set during the previous sampling event. HydraSleeves were suspended 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 the presence of benzene, toluene, ethylbenzene, and total xylenes (BTEX) by United States Environmental Protection Agency (EPA) Method 8260. Groundwater samples collected from monitoring wells MW-1R, MW-3, MW-4, MW-6, and MW-7 on May 17, 2023, and from MW-1R on November 14, 2023, were also analyzed for naphthalene and benzo(a)pyrene constituents using United States Environmental Protection Agency (EPA) Method 8270D. One laboratory supplied trip blank and one blind field duplicate were also collected during each of the 2023 groundwater sampling events.

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

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 and NNEPA notification of LNAPL recovery activities in 2023 is provided in Appendix B. LNAPL was not observed in the Site monitoring wells during the March, May, August, and November 2023 events.

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SUMMARY TABLES

Historic groundwater water level data are summarized on Table 1. The groundwater analytical data for BTEX constituents and selected SVOCs are summarized on Tables 2 and 3, respectively.

SITE MAPS

Groundwater analytical maps (Figures 3 and 5) and groundwater elevation contour maps (Figures 4 and 6) summarize results of the 2023 groundwater sampling and gauging events.

ANALYTICAL LAB REPORTS

The groundwater analytical lab reports are included as Appendix G.

GROUNDWATER RESULTS

- The groundwater elevations indicate the flow direction at the Site was to the west northwest during 2023 (see Figures 4 and 6).
- Concentrations of benzene were either below the NMWQCC standard (10 micrograms per liter [µg/L]) or were not detected in each of the Site monitoring wells sampled in 2023.
- Concentrations of toluene were either below the NMWQCC standard (750 µg/L) or were not detected in each of the Site monitoring wells sampled in 2023.
- Concentrations of ethylbenzene were either below the NMWQCC standard (750 µg/L) or were not detected in each of the Site monitoring wells sampled in 2023.
- Concentrations of total xylenes were either below the NMWQCC standard (620 µg/L) or were not detected in each of the Site monitoring wells sampled in 2023.
- The reported concentration of total naphthalene (calculated as the summation of 1-methylnaphthalene, 2-methylnaphthalene, and naphthalene) in the May 2023 groundwater sample collected from monitoring well MW-7 was 0.30 µg/L, which is less than the NMWQCC standard (30 µg/L). The total naphthalene concentration in the remaining groundwater samples analyzed for total naphthalene constituents were below the applicable laboratory reporting limits.
- The benzo(a)pyrene concentrations in the May and November 2023 groundwater samples were below the applicable laboratory reporting limits and less than the NMWQCC standard (0.7 µg/L).
- A field duplicate was collected from MW-1R during the May and November monitoring events. No significant differences were noted between the primary and the duplicate samples for the 2023 groundwater sampling events.
- Detectable concentrations of BTEX constituents were not reported in the trip blanks collected and analyzed as part of the 2023 groundwater monitoring events.

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PLANNED FUTURE ACTIVITIES

Quarterly groundwater monitoring is to continue through at least the third calendar quarter of 2024 to move the Site towards regulatory closure. Groundwater samples will be collected from each of the Site monitoring wells and analyzed for BTEX constituents using EPA Method 8260. Groundwater samples collected from monitoring well MW-1R will also be analyzed for total naphthalene constituents and benzo(a)pyrene using EPA Method 8270. A field duplicate and trip blank will also be collected during each groundwater sampling event. The Site monitoring wells will also be gauged during each sampling event to confirm LNAPL is not present.

The activities completed in 2024 and their results will be summarized in the 2024 Annual Report, to be submitted by April 1, 2025.

TABLES

TABLE 1 - 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

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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

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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-1	03/30/23	5946.64	ND	27.45	0.00	5919.19
	MW-1 replaced with MW-1R on 4/13/2023					
MW-1R	05/17/23	5946.90	ND	27.36	0.00	5919.54
MW-1R	08/31/23	5946.90	ND	27.13	0.00	5919.51
MW-1R	11/13/23	5946.90	ND	26.98	0.00	5919.66
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
	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

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Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
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
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-3	03/30/23	5946.83	ND	27.64		5919.19
MW-3	05/17/23	5946.83	ND	27.83		5919.00
MW-3	08/31/23	5946.83	ND	27.59		5919.24
MW-3	11/13/23	5946.83	ND	27.49		5919.34
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

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Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-4	03/30/23	5946.52	ND	27.29		5919.23
MW-4	05/17/23	5946.52	ND	27.48		5919.04
MW-4	08/31/23	5946.52	ND	27.23		5919.29
MW-4	11/13/23	5946.52	ND	27.08		5919.44
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
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-5	03/30/23	5946.03	ND	27.55		5918.48
MW-5	05/17/23	5946.03	ND	27.74		5918.29
MW-5	08/31/23	5946.03	ND	27.67		5918.36
MW-5	11/13/23	5946.03	ND	27.46		5918.57
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

TABLE 1 - 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-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-6	03/30/23	5946.31	ND	27.27		5919.04
MW-6	05/17/23	5946.31	ND	27.39		5918.92
MW-6	08/31/23	5946.31	ND	27.18		5919.13
MW-6	11/13/23	5946.31	ND	27.06		5919.25
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
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-7	03/30/23	5945.78	ND	33.46		5912.32
MW-7	05/17/23	5945.78	ND	33.69		5912.09
MW-7	08/31/23	5945.78	ND	33.78		5912.00
MW-7	11/13/23	5945.78	ND	33.46		5912.32

TABLE 1 - 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-8	05/19/22	5944.90	ND	34.43		5910.47
MW-8	11/02/22	5944.90	ND	31.51		5913.39
MW-8	03/30/23	5944.90	ND	30.94		5913.96
MW-8	05/17/23	5944.90	ND	31.29		5913.61
MW-8	08/31/23	5944.90	ND	31.27		5913.63
MW-8	11/13/23	5944.90	ND	31.19		5913.71

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 2 - GROUNDWATER BTEX 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

TABLE 2 - GROUNDWATER BTEX 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	06/27/02	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
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

TABLE 2 - GROUNDWATER BTEX 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	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-1 replaced with MW-1R on 4/13/2023				
MW-1R	05/17/23	<1.0	<1.0	<1.0	<10
DUP-01(MW-1R)*	05/17/23	<1.0	<1.0	<1.0	<10
MW-1R	08/31/23	<1.0	<1.0	<1.0	<10
DUP-01(MW-1R)*	08/31/23	<1.0	<1.0	<1.0	<10
MW-1R	11/13/23	<1.0	<1.0	<1.0	<10
DUP-01(MW-1R)*	11/13/23	<1.0	<1.0	<1.0	<10
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
	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

TABLE 2 - GROUNDWATER BTEX 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-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
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-01(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-3	05/17/23	<1.0	<1.0	<1.0	<10
MW-3	08/31/23	<1.0	<1.0	<1.0	<10
MW-3	11/13/23	<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

TABLE 2 - GROUNDWATER BTEX 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-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-4	05/17/23	<1.0	<1.0	<1.0	<10
MW-4	08/31/23	<1.0	<1.0	<1.0	<10
MW-4	11/13/23	<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
DUP-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
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-5	05/17/23	<1.0	<1.0	<1.0	<10
MW-5	08/31/23	<1.0	<1.0	<1.0	<10
MW-5	11/13/23	<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

TABLE 2 - GROUNDWATER BTEX 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-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-6	05/17/23	<1.0	<1.0	<1.0	<10
MW-6	08/31/23	<1.0	<1.0	<1.0	<10
MW-6	11/13/23	<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-01(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-7	05/17/23	<1.0	<1.0	<1.0	<10

TABLE 2 - GROUNDWATER BTEX 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-7	08/31/23	<1.0	<1.0	<1.0	<10
MW-7	11/13/23	<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
MW-8	05/17/23	<1.0	<1.0	<1.0	<10
MW-8	08/31/23	<1.0	<1.0	<1.0	<10
MW-8	11/13/23	<1.0	<1.0	<1.0	<10

Notes:.
NS = Not Sampled
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

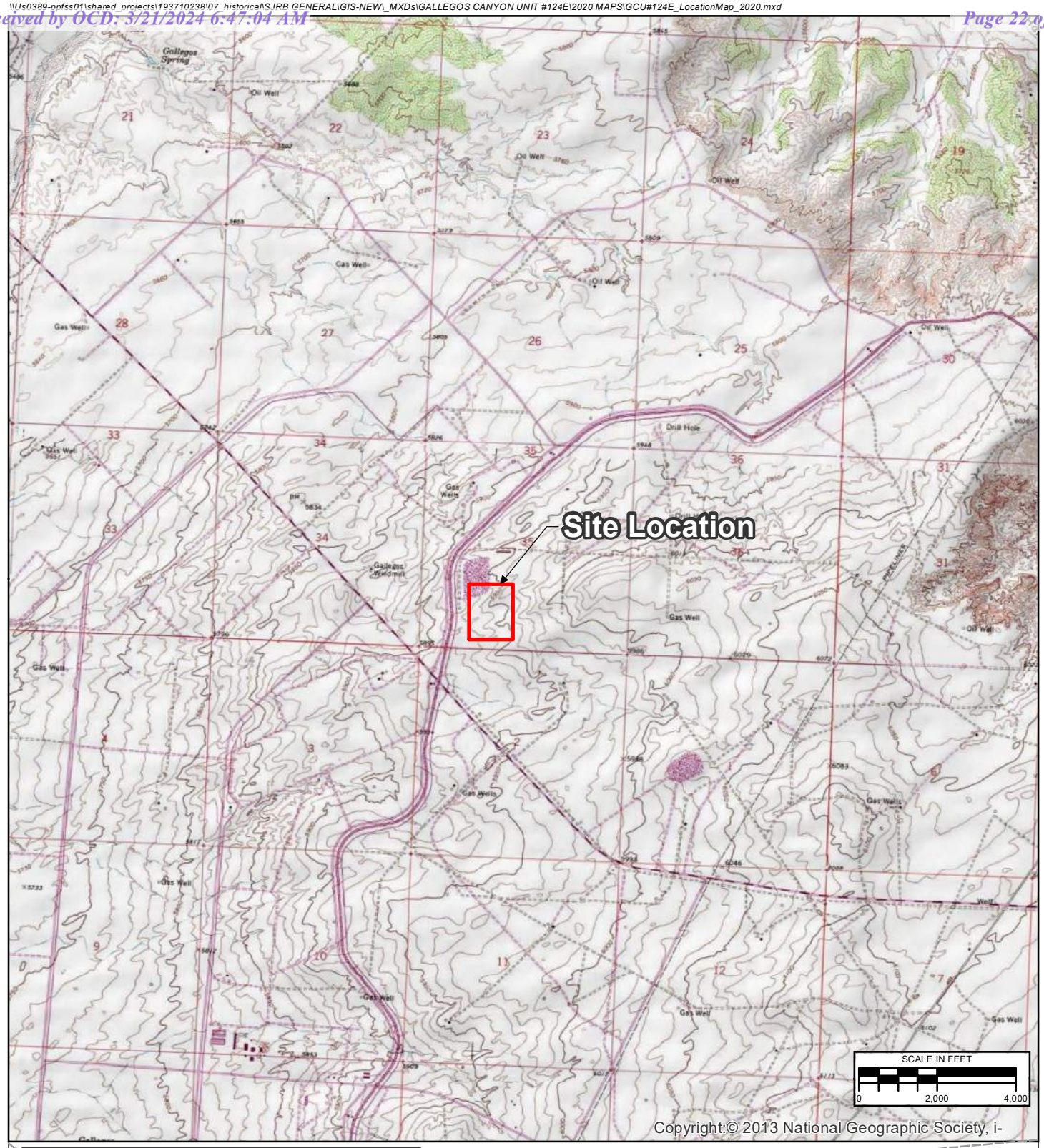
TABLE 3 - GROUNDWATER SVOCS ANALYTICAL RESULTS

Gallegos Canyon Unit #124E						
Location	**Date**	**1-Methylnaphthalene (µg/L)**	**2-Methylnaphthalene (µg/L)**	**Naphthalene (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-1	05/17/23	<0.30	<0.30	<0.30	<0.30	<0.30
DUP-01 (MW-1)*	05/17/23	<0.30	<0.30	<0.30	<0.30	<0.30
MW-1R	11/14/23	<0.21	<0.21	<0.21	<0.21	<0.21
MW-3	05/17/23	<0.23	<0.23	<0.23	<0.23	<0.23
MW-4	05/17/23	<0.27	<0.27	<0.27	<0.27	<0.27
MW-5	08/02/22	<0.19	<0.19	<0.19	<0.19	<0.19
MW-6	05/17/23	<0.24	<0.24	<0.24	<0.24	<0.24
MW-7	05/17/23	<0.26	<0.26	0.31	0.31	<0.26

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
"<" = analyte was not detected at the indicated reporting limit
"SVOC" = Semi-volatile Organic Compounds
*Field Duplicate results presented immediately below primary sample result

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-CIFSS\VDI\Redirect\shansen\Desktop\GIS-NEW_MXDs\GALLEGOS CANYON UNIT #124E\2023 MAPS\GCU#124E_SITEMAP_2023.mxd

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
- SOIL BORING
- RIG ANCHOR
- WELLHEAD

N

SCALE IN FEET

0 30 60

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	2024-02-29	SAH	SAH	SRV

TITLE:

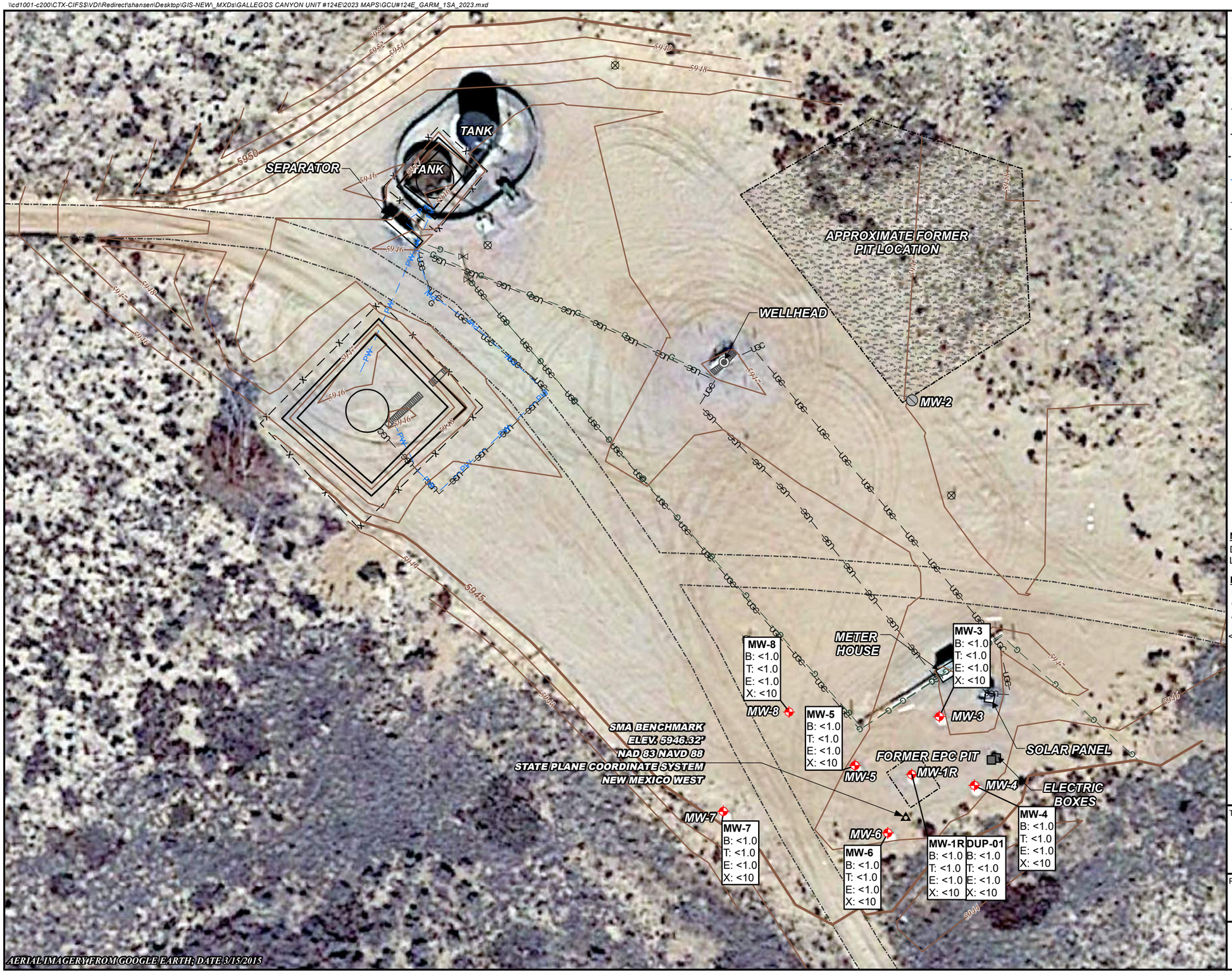
SITE PLAN

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

Stantec

Figure No.: **2**

\\cd1001-c200\CTX-CIFSS\VDI\Redirect\shansen\Desktop\GIS-NEW_MXDs\GALLEGOS CANYON UNIT #124E\2023 MAPS\GCU#124E_GARM_1SA_2023.mxd



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
- 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
	2024-02-29	SAH	SAH	SRV

TITLE:

GROUNDWATER ANALYTICAL RESULTS
MAY 17, 2023

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

Stantec

Figure No.: **3**

\\cd1001-c200\CTX-CIFSS\VDI\Redirect\shansen\Desktop\GIS-NEW_MXDs\GALLEGOS CANYON UNIT #124E\2023 MAPS\GCU#124E_GECM_1SA_2023.mxd

TANK
TANK
SEPARATOR
APPROXIMATE FORMER PIT LOCATION
WELLHEAD
MW-2
METER HOUSE
MW-3 5919.00
MW-3
MW-8
MW-8 5913.61
FORMER EPC PIT
SOLAR PANEL
MW-5
MW-5 5918.29
MW-1R
MW-1R 5919.54
MW-4
MW-4 5919.04
ELECTRIC BOXES
MW-7 5912.09
MW-7
MW-6
MW-6 5918.92
SMA BENCHMARK
ELEV. 5946.32'
NAD 83 NAVD 88
STATE PLANE COORDINATE SYSTEM
NEW MEXICO WEST

AERIAL IMAGERY FROM GOOGLE EARTH; DATE 8/15/2015

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
- RIG ANCHOR
- WELLHEAD

NOTES:

5913.61 GROUNDWATER ELEVATION CORRECTED FOR LNAPL THICKNESS. FEET ABOVE MEAN SEA LEVEL

5913 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
	2024-02-29	SAH	SAH	SRV

TITLE:

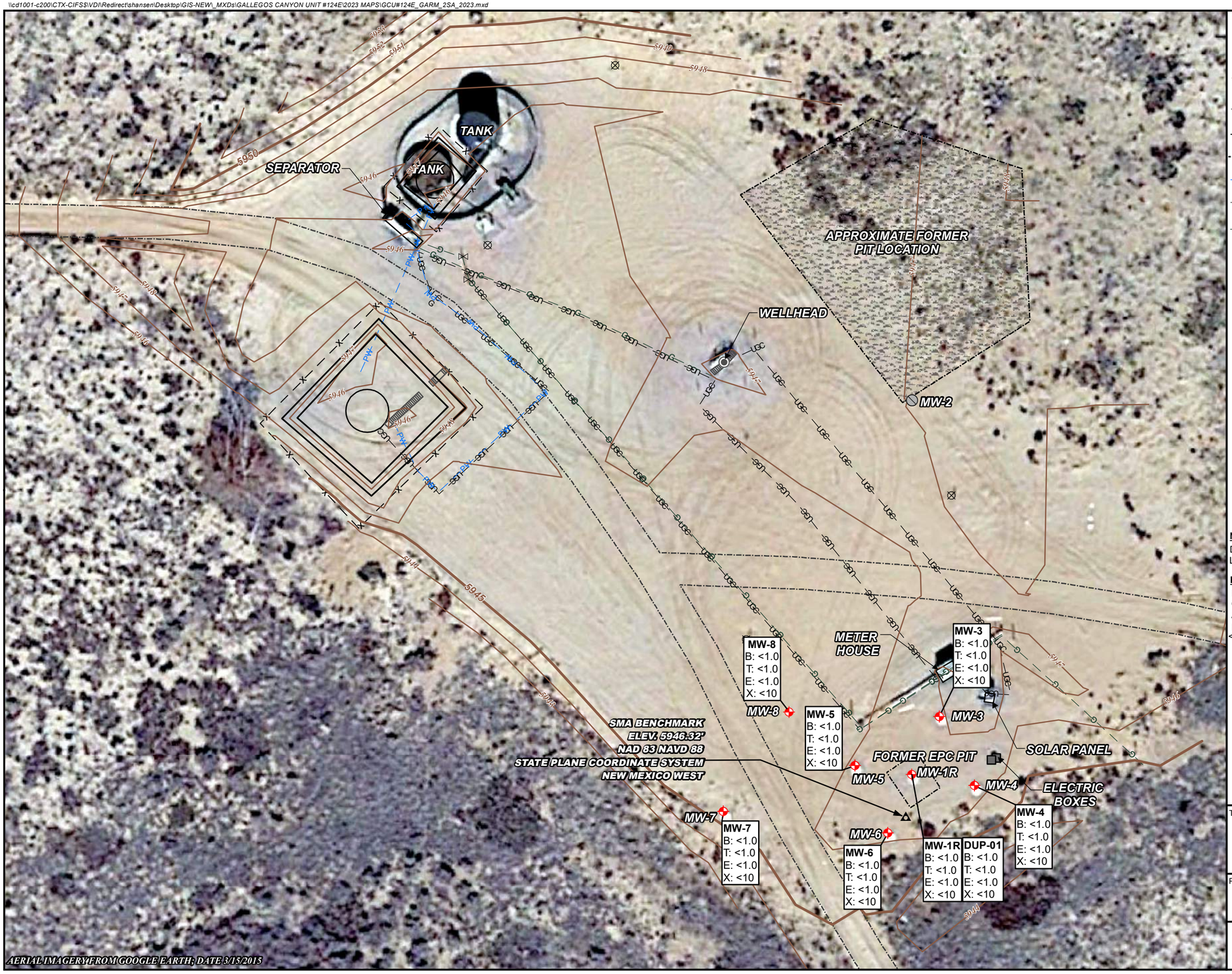
GROUNDWATER ELEVATION MAP
MAY 17, 2023

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

Stantec

Figure No.: 4

\\cd1001-c200\CTX-CIFSS\VDI\Redirect\shansen\Desktop\GIS-NEW_MXDs\GALLEGOS CANYON UNIT #124E\2023 MAPS\GCU#124E_GARM_2SA_2023.mxd



LEGEND:

- 5795 — APPROX. GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- FENCE
- FORMER PIT
- PW — PRODUCED WATER LINE
- UGC — UNDERGROUND CABLE
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- GAS VALVE
- MONITORING WELL
- 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
	2024-02-29	SAH	SAH	SRV

TITLE:

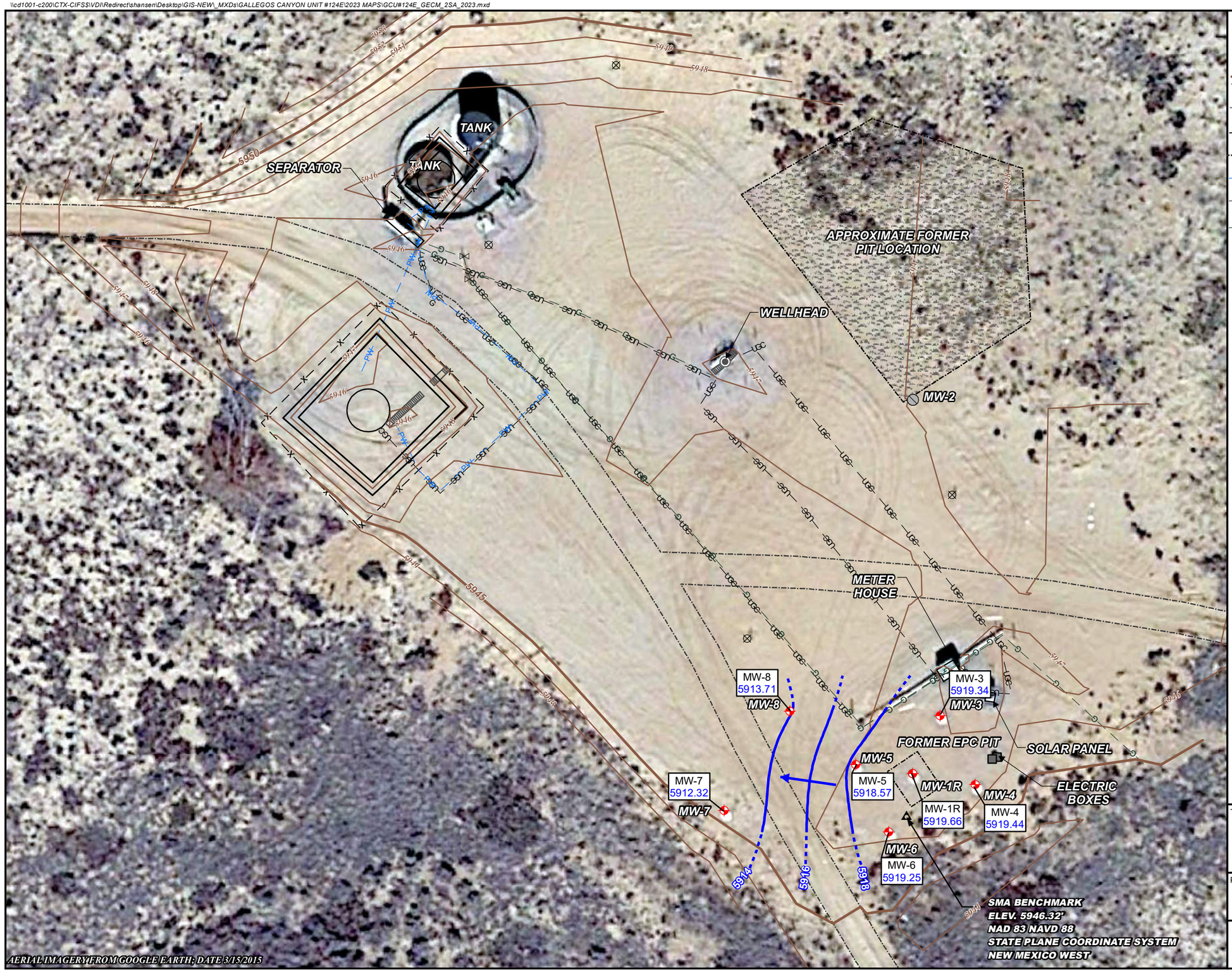
GROUNDWATER ANALYTICAL RESULTS
NOVEMBER 13, 2023

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

Stantec

Figure No.: **5**

\\cd1001-c200\CTX-CIFSS\VDI\Redirect\shansen\Desktop\GIS-NEW_MXDs\GALLEGOS CANYON UNIT #124E\2023 MAPS\GCU#124E_GECM_2SA_2023.mxd



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
- RIG ANCHOR
- WELLHEAD

NOTES:

5913.71 GROUNDWATER ELEVATION CORRECTED FOR LNAPL THICKNESS. FEET ABOVE MEAN SEA LEVEL

5914 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
	2024-02-29	SAH	SAH	SRV

TITLE:

GROUNDWATER ELEVATION MAP
NOVEMBER 13, 2023

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

Stantec

Figure No.: 6

APPENDICES

APPENDIX A

Site History

Gallegos Canyon Unit #124E
Site History

San Juan River Basin, New Mexico

Date	Source (Regulatory File #)	Event/Action	Description/Comments
4/16/1985	API # 30-045-26289	Well spudded	Amoco is owner/operator. Well completed May 6, 1985. First production May 21, 1985.
6/17/1985	API # 30-045-26289	Request for Allowable and Authorization to Transport Oil and Natural Gas	Amoco as operator designated Permian Corporation as transporter.
4/11/1989	API # 30-045-26289	Request for Allowable and Authorization to Transport Oil and Natural Gas	Amoco as operator designated Meridian Oil as transporter.
9/16/1995	Unknown	EPFS Remediation Plan for Groundwater Encountered During Pit Closure Activities to NMOCD	Outlines approach to investigating and remediating soil and groundwater at closed pit sites.
11/29/1995	Unknown	EPFS Addendum to the Remediation Plan for Groundwater Encountered During Pit Closure Activities to NMOCD	Amends work plan for include installation of additional wells for delienation, define groundwater sampling parameters, and release closure following four consecutive quarters of results below NMWQCC standards.
11/30/1995	Unknown	NMOCD approval of the Remediation Plan with conditions	Approval of Remediation Plan and Addendum.
2/27/1998	nAUTOfAB000205 (Case # 3RP-176)	Semi-annual EPFS Pit Projects Groundwater Report	Lists pits where groundwater was encountered.
7/8/1998	nAUTOfAB000205 (Case # 3RP-176)	NMOCD review letter	Approves modifying reporting schedule from semi-annual to annual basis
3/31/1999	nAUTOfAB000205 (Case # 3RP-176)	PSC 1998 Annual Groundwater Report (for El Paso Field Services [EPFS])	Summarizes pit closure, installation of MW-1, quarterly groundwater sampling was initiated in June 1998.
2/17/2000	nAUTOfAB000205 (Case # 3RP-176)	Letter from El Paso Energy to NMOCD requesting an extension of the due date for the 2000 Annual Groundwater Report	for calendar year 1999.

Gallegos Canyon Unit #124E
Site History

San Juan River Basin, New Mexico

3/24/2000	nAUTOfAB000205 (Case # 3RP-176)	PSC 1999 Annual Groundwater Report (for EPFS)	Quarterly groundwater monitoring suspended; LNAPL recovery initiated.
2/26/2001	nAUTOfAB000205 (Case # 3RP-176)	PSC 2000 Annual Groundwater Report (for EPFS)	two soil boirngs (SB-2 and SB-3) advanced; LNAPL recovery.
1/22/2002	API # 30-045-26289	NMOCD approved a Change in Operator	Operator changed from Amoco to BP.
2/28/2002	nAUTOfAB000205 (Case # 3RP-176)	MWH 2001 Annual Groundwater Report (for EPFS)	LNAPL recovery
2/28/2003	nAUTOfAB000205 (Case # 3RP-176)	MWH 2002 Annual Groundwater Report (for EPFS)	LNAPL recovery
2/2004	API # 30-045-26289	NMOCD received a Pit Remediation and Closure Report	Amoco pit closure on 1/27/2003.
2/26/2004	nAUTOfAB000205 (Case # 3RP-176)	MWH 2003 Annual Groundwater Report (for EPFS)	LNAPL recovery.
2/21/2005	nAUTOfAB000205 (Case # 3RP-176)	MWH 2004 Annual Groundwater Report (for EPFS)	Quarterly LNAPL recovery.
3/2/2006	nAUTOfAB000205 (Case # 3RP-407)	MWH Final 2005 Annual Report (for El Paso Tennessee Pipeline Company [EPTPC))	Quarterly LNAPL recovery.
2/16/2007	nAUTOfAB000205 (Case # 3RP-407)	MWH Final 2006 Annual Report (for EPTPC)	Quarterly groundwater sampling.
4/2/2008	nAUTOfAB000205 (Case # 3RP-407)	MWH 2007 Annual Groundwater Report (for EPTPC)	Quarterly groundwater sampling.
2/28/2009	Missing from NMOCD files	MWH 2008 Annual Groundwater Report (for EPTPC)	Quarterly groundwater sampling.
8/10/2010	nAUTOfAB000205 (Case # 3RP-407)	MWH Final 2009 Annual Report (for EPTPC)	Semi-annual groundwater sampling.
3/2/2011	Missing from NMOCD files	MWH 2010 Annual Report (for EPTPC)	Annual groundwater sampling.

Gallegos Canyon Unit #124E
Site History

San Juan River Basin, New Mexico

3/20/2012	API # 30-045-26289	NMOCD approved a Closure Plan submitted by BP	tank closure
8/16/2012	Missing from NMOCD files	MWH 2011 Annual Report - Pit Groundwater Remediation (for EPCGP)	Annual groundwater sampling.
10/22/2013	nAUTOfAB000205 (Case # 3RP-176)	MWH Work Plan for Monitoring Well Installation (for El Paso CGP Company [EPCGP])	Proposes installation of 6 monitoring wells.
2/28/2014	nAUTOfAB000205 (Case # 3RP-407)	MWH 2013 Annual Report (for EPCGPC)	MW-2 through MW-7 installed, groundwater sampling.
6/2014	API # 30-045-26289	Tanl closure report (BP)	Below ground tank closure.
2/2/2015	nAUTOfAB000205 (Case # 3RP-407)	MWH 2014 Annual Report (for EPCGPC)	Semi-annual groundwater sampling and LNAPL recovery
2/12/2016	nAUTOfAB000205 (Case # 3RP-407)	MWH 2015 Annual Report (for EPCGPC)	MW-2 plugged & abandoned; modify completions on remaining monitoring well, semi-annual sampling and LNAPL recovery.
3/28/2017	nAUTOfAB000205 (Case # 3RP-407)	MWH 2016 Annual Report (for EPCGPC)	Semi-annual groundwater sampling and LNAPL recovery.
6/2/2017	nAUTOfAB000205 (Case # 3RP-407)	NMOCD review letter for 2016 Annual Groundwater Monitoring Report	Request to address LNAPL.
6/28/2017	nAUTOfAB000205 (Case # 3RP-407)	MWH LNAPL Recovery Work Plan (for EPCGPC)	MDPE proposed to address LNAPL in MW-1.
7/5/2017	nAUTOfAB000205 (Case # 3RP-407)	NMOCD approval of MWH June 2017 LNAPL Recovery Plan	
7/19/2017	nAUTOfAB000205 (Case # 3RP-407)	Letter from EPCGPC to NMOCD in response to its June 2, 2017 review letter of the 2016 Annual Report	Letter stated no further delineation of ground water contamination is planned at this time.
4/5/2018	nAUTOfAB000205 (Case # 3RP-407)	MWH 2017 Annual Report (for EPCGPC)	MDPE events; LNAPL recovery and semi-annual groundwater sampling.

Gallegos Canyon Unit #124E
Site History

San Juan River Basin, New Mexico

3/27/2019	Missing from NMOCD files	MWH 2018 Annual Report (for EPCGPC)	Semi-annual groundwater sampling and LNAPL recovery
3/15/2020	nAUTOfAB000205 (Case # 3RP-407)	MWH 2019 Annual Report	Semi-annual groundwater sampling and LNAPL recovery.
4/2/2020	nAUTOfAB000205 (Case # 3RP-407)	Electronic correspondence from NMOCD to EPCGPC regarding the 2019 Annual Groundwater Report	Report approved, quarterly LNAPL recovery requested, Incident # NAUTOFAB000205 assigned to release.
6/30/2020	API # 30-045-26289	NMOCD approved a Change of Operator	Operator changed from BP to SIMCOE
4/8/2021	nAUTOfAB000205 (Case # 3RP-407)	2020 Annual Groundwater Report	GW Monitoring and quarterly LNAPL removal. Report is online and stamped Approved 12/29/2021.
3/18/2022	nAUTOfAB000205 (Case # 3RP-407)	Stantec Work Plan for Monitoring Well Installation Activities (for EPCGPC)	Installation of MW-8 proposed. Work Plan stamped Reviewed/Accepted For the Record 11/23/2022.
3/30/2022	nAUTOfAB000205 (Case # 3RP-407)	Stantec 2021 Annual Report (for EPCGPC)	Semi-annual groundwater sampling, LNAPL recovery. Report stamped Reviewed 11/22/2023.
1/26/2023	nAUTOfAB000205 (Case # 3RP-407)	Monitoring Well Replacement Work Plan	Replacement of MW-1. Work Plan stamped Accepted 5/19/23.
3/22/2023	nAUTOfAB000205 (Case # 3RP-407)	Stantec 2022 Annual Report (for EPCGPC)	Semi-annual groundwater sampling. Report is online and stamped Received 3/27/2023.

APPENDIX B

NMOCD Notification of Site Activities

From: Varsa, Steve
To: nelson.valez@state.nm.us
Cc: Bratcher, Mike, EMNRD; Wiley, Joe
Bcc: Varsa, Steve
Subject: El Paso CGP Company - Notice of upcoming product recovery activities
Date: Wednesday, August 16, 2023 1:56:00 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	8/27/2023
Fields A#7A	nAUTOfAB000176	8/30/2023
Fogelson 4-1	nAUTOfAB000192	8/31/2023
Gallegos Canyon Unit #124E	nAUTOfAB000205	8/31/2023
James F. Bell #1E	nAUTOfAB000291	8/25/2023
Johnston Fed #4	nAUTOfAB000305	8/30/2023
K27 LDO72	nAUTOfAB000316	8/31/2023
State Gas Com N #1	nAUTOfAB000668	8/29/2023

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

From: Varsa, Steve
To: nelson.valez@state.nm.us
Cc: Bratcher, Mike, EMNRD; Wiley, Joe
Bcc: Varsa, Steve
Subject: El Paso CGP Company - Notice of upcoming groundwater sampling activities
Date: Wednesday, August 16, 2023 1:44:00 PM

Hi Nelson -

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

Site Name	Incident Number	Sample Date
Gallegos Canyon Unit #124E	nAUTOfAB000205	08/31/2023
Johnston Federal #6A	nAUTOfAB000309	08/30/2023

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

From: Varsa, Steve
To: nelson.valez@state.nm.us
Subject: FW: El Paso CGP Company - Notice of upcoming product recovery activities
Date: Wednesday, March 22, 2023 9:51:09 PM

From: Varsa, Steve <steve.varsa@stantec.com>
Sent: Wednesday, March 22, 2023 9:33 PM
To: nelson.valez@state.nm
Cc: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Wiley, Joe <joe_wiley@kindermorgan.com>
Subject: El Paso CGP Company - Notice of upcoming product recovery activities

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	3/28/2023
Fields A#7A	nAUTOfAB000176	3/29/2023
Fogelson 4-1	nAUTOfAB000192	3/29/2023
Gallegos Canyon Unit #124E	nAUTOfAB000205	3/28/2023
James F. Bell #1E	nAUTOfAB000291	3/29/2023
Johnston Fed #4	nAUTOfAB000305	3/30/2023
K27 LDO72	nAUTOfAB000316	3/28/2023
Lateral L-40	nAUTOfAB000335	3/29/2023
State Gas Com N #1	nAUTOfAB000668	3/29/2023

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

From: Varsa, Steve
To: nelson.valez@state.nm.us
Cc: Bratcher, Mike, EMNRD; Wiley, Joe
Subject: El Paso CGP Company - Notice of upcoming groundwater sampling activities
Date: Friday, May 12, 2023 9:54:16 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	5/20/2023
Fields A#7A	nAUTOfAB000176	5/21/2023
Fogelson 4-1	nAUTOfAB000192	5/18/2023
Gallegos Canyon Unit #124E	nAUTOfAB000205	5/17/2023
GCU Com A #142E	nAUTOfAB000219	5/21/2023
James F. Bell #1E	nAUTOfAB000291	5/18/2023
Johnston Fed #4	nAUTOfAB000305	5/19/2023
Johnston Fed #6A	nAUTOfAB000309	5/19/2023
K27 LDO72	nAUTOfAB000316	5/20/2023
Knight #1	nAUTOfAB000324	5/17/2023
Lateral L 40 Line Drip	nAUTOfAB000335	5/21/2023
Sandoval GC A #1A	nAUTOfAB000635	5/19/2023
Standard Oil Com #1	nAUTOfAB000666	5/20/2023
State Gas Com N #1	nAUTOfAB000668	5/22/2023

We also plan to conduct quarterly operation and maintenance activities on the Knight #1 air sparge/soil vapor extraction system (Incident number nAUTOAB000324) on Wednesday, May 17, 2023.

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

From: Varsa, Steve
To: nelson.valez@state.nm.us
Cc: Bratcher, Mike, EMNRD; Wiley, Joe
Subject: El Paso CGP Company - Notice of upcoming groundwater sampling activities
Date: Thursday, November 2, 2023 6:17:33 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	11/12/2023
Fields A#7A	nAUTOfAB000176	11/15/2023
Fogelson 4-1	nAUTOfAB000192	11/8/2023
Gallegos Canyon Unit #124E	nAUTOfAB000205	11/9/2023
GCU Com A #142E	nAUTOfAB000219	11/9/2023
James F. Bell #1E	nAUTOfAB000291	11/15/2023
Johnston Fed #4	nAUTOfAB000305	11/11/2023
Johnston Fed #6A	nAUTOfAB000309	11/11/2023
K27 LDO72	nAUTOfAB000316	11/12/2023
Knight #1	nAUTOfAB000324	11/7/2023
Lateral L 40 Line Drip	nAUTOfAB000335	11/16/2023
Sandoval GC A #1A	nAUTOfAB000635	11/11/2023
Standard Oil Com #1	nAUTOfAB000666	11/12/2023
State Gas Com N #1	nAUTOfAB000668	11/10/2023

We also plan to conduct quarterly operation and maintenance activities on the Knight #1 air sparge/soil vapor extraction system (Incident number nAUTOAB000324) on Tuesday, November 7, 2023.

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

From: Varsa, Steve
To: nelson.valez@state.nm.us
Cc: Bratcher, Mike, EMNRD; Wiley, Joe
Subject: Gallegos Canyon Unit #124E (nAUTOfAB000205) - notification of upcoming work
Date: Wednesday, April 5, 2023 12:10:16 PM

Hi Nelson, on behalf of El Paso CGP Company (EPCGP), Stantec is conducting well replacement activities at the subject site on April 11 and 12, 2023. A work plan for these activities has been submitted in the e-permitting portal.

Please feel free to contact me Joe Wiley, with EPCGP, if you have need anything further.

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

NNEPA Notification of Site Activities

From: Varsa, Steve
To: NNEPAUIC@frontiernet.net
Subject: Stantec - Notice of upcoming activities
Date: Wednesday, August 16, 2023 5:23:56 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 quarterly groundwater sampling on Thursday, August 31, 2023.

Thank you,
Steve

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

From: Varsa, Steve
To: NNEPAUIC@frontiernet.net
Subject: Stantec - Notice of upcoming activities (Gallegos Canyon Unit #124E site)
Date: Wednesday, March 22, 2023 10:05:37 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 quarterly product monitoring and recovery activities on Wednesday, 3/29/2023.

Thank you,
Steve

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

From: Varsa, Steve
To: NNEPAUIC@frontiernet.net
Subject: Stantec - Notice of upcoming activities
Date: Friday, May 12, 2023 10:29:19 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, May 17, 2023.

Thank you,
Steve

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

From: Varsa, Steve
To: NNEPAUIC@frontiernet.net
Subject: Stantec - Notice of upcoming activities
Date: Thursday, November 2, 2023 6:50:45 AM

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 Thursday, November 9, 2023.

Thank you,
Steve

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

From: Varsa, Steve
To: NNEPAUIC@frontiernet.net
Subject: FW: Gallegos Canyon Unit #124E - work plan for well replacement activities
Date: Wednesday, April 5, 2023 12:00:33 PM
Attachments: 2023_01_MW replace WP (gcu124e)_nAUTOOfAB000205.pdf

---

Mr. Austin – the above-referenced well replacement activities are planned for April 11 and 12, 2023.

Thank you,
Steve

From: Varsa, Steve <steve.varsa@stantec.com>
Sent: Tuesday, February 14, 2023 8:14 AM
To: NNEPAUIC@frontiernet.net
Subject: Gallegos Canyon Unit #124E - work plan for well replacement activities

Mr. Austin – for your files and reference, please find attached the above-referenced work plan. Well replacement activities are currently planned for the week of April 10, 2023. I'll follow-up if this schedule changes.

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 D

NDWR Well Permit

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:_____

REF WUP NO:_____

VALID:_____ **TO**_____

WATER WELL DRILLING APPLICATION/PERMIT
TRIBAL WELL NO:_____

DRILLER'S NAME Yellow Jacket Drilling PHONE NO: (602) 453-3252

ADDRESS: 3922 E. University Drive, Suite 1

CITY: Phoeniz STATE: AZ ZIP: 85034

LICENSE NO: WD-1458 CONTACT PERSON: Roger Rubio

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

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

PROPOSED: WELL DEPTH 40 FT WELL DIA. 16 IN CASING DIA. 4 IN
WEIGHT OF CASING 2.75 LBS/FT PRODUCTION CAPACITY 0 GPM
(Monitoring Only)
DRILLING METHOD Hollow-stem auger

PROPOSED DRILLING DATES: START 4 / 10 / 23 COMPLETION 4 / 14 / 23

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:_____ DATE:_____

WDP NO:_____

REF WUP NO:_____

C O N D I T I O N S !

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.

R E C O M M E N D A T I O N S

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

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

TECHNICAL REVIEWER ( ) YES( ) NO_____ DATE____/____/____

APPROVED:_____ DATE____/____/____
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: _____
REF WUP NO: _____
WELL NO: MW-1R
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: Gallegos Canyon Unit #124E site - 145 feet southeast of natural gas wellhead

UTM Coordinates: X (East): -108.083664 Y (North): 36.614111 Zone: State Plane New Mexico West

STRUCTURE

Date begun: 4 / 11 / 2023 Date completed: 4 / 13 / 2023 Date depth measured: 4 / 13 / 2023

Elevation: _____ ft. Total Depth: 42 ft. Hole Diameter(s): 16 7/8"

Casing Diameter: 4 in. From: 0.5 ft. to 20.0 ft. Material: PVC Sch. 40 Casing
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 [X] Screen [ ] (type: 0.020-inch slot) Open Hole [X] From: 20.0 ft. to 40.0 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: Yellow Jacket Drilling Services Inc.

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): 27.17 ft. Date: 4 / 13 / 2023 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: _____
REF WUP NO: _____
WELL NO: MW-1R
Page 2 **of** 2

LOG

DEPTH (FT)

FROM	TO	FORMATION DESCRIPTION	GEOLOGIC UNIT	REMARKS
0	25	Sands with trace silt		Monitoring Well
25	30	Sands with some clay		
30	35	Sands with trace silt		
35	42	Weathered sandstone		

Additional Comments: MW-1R is a groundwater monitoring well for petroleum contamination assessment per the NMOCD and is not designated for water supply.

Revised 9/96

APPENDIX E

Boring Logs and Well Construction Diagrams

Drilling Log

Stantec

Monitoring Well **MW-1R**

Page: 1 of 1

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

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

Surface Elev. *5946.73 ft* North *2042840.13* East *2649677.53*

Top of Casing *5946.64 ft* Water Level Initial ▽ *5919.47* 04/13/23 00:00 Static ▼ *5919.68* 11/13/23 00:00

Hole Depth *42.0ft* Screen: Diameter *4 in* Length *20.0 ft* Type/Size *PVC/0.02 in*

Hole Diameter *16.875 in* Casing: Diameter *4 in* Length *20.0 ft* Type *PVC*

Drill Co. *Yellow Jacket Drilling* Drilling Method *Hollow Stem Auger* Sand Pack *8/12*

Driller *Sean Carrigan* Driller Reg. # *WD-1458* Log By *Scott Stanley*

Start Date *4/11/2023* Completion Date *4/13/2023* Checked By *Steve varsa*

COMMENTS

MW-1 overdrill, assume lithology from 0-31' depth is the same as MW-1.

Hydrovac around MW-1 to 5' depth. Overdrill MW-1 to 42' and set new well as MW-1R.

Bentonite Grout | Bentonite Granuals | Grout | Portland Cement | Sand Pack | 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						0-5' No recovery	
5					SP SM	5-10' Reddish brown sand, trace silt, fine to medium grained, loose, dry.	
10					SP	10-15' Tan sand, fine to medium grained, hard, dry.	
15					SP SM	15-30' Light brown sand, medium to coarse grained, trace silt, hard, dry.	
25	▽▼						
30					SP	30-31' Brown sand, medium to coarse grained, medium dense, saturated.	
35					SP	31-42' Assume sand, medium to coarse grained, medium dense, saturated.	
40						Total Depth = 42' bgs	
45							

Drilling Log GCU 124E.GPJ MWH IA.GDT 1/11/24

APPENDIX F

Waste Disposal Documentation

envirotech

Bill of Lading

MANIFEST # 79427
GENERATOR Kinder Morgan (Picked up from)
POINT OF ORIGIN Rio Vista Comp Station *
TRANSPORTER Envirotech
DATE 5/22/2023 JOB # 14073-0073

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	Contaminated Water				1		992/705	1550	
						1				
									SCANNED	

RESULTS		
-251	CHLORIDE TEST	1
	CHLORIDE TEST	
	CHLORIDE TEST	
Pass	PAINT FILTER TEST	1

LANDFARM EMPLOYEE

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

NOTES
* From San Juan River Plant, Blanco N. Flare, and numerous pit sites.

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 Sean Cleary Phone (515) 557-0109

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

SAN JUAN PRINTING 2021 407-3

envirotech BOL# 79427

CHLORIDE TESTING / PAINT FILTER TESTING

DATE 5/22/2023 TIME 1550

CUSTOMER Kinder Morgan

SITE Rio Vista Comp Station SJ River Plant Blanco N Plant Aluminous Pits Sites

DRIVER [redacted]

SAMPLE Soil Straight _____ With Dirt ✓

CHLORIDE TEST -281 mg/Kg

ACCEPTED YES ✓ NO _____

PAINT FILTER TEST Time started 1550 Time completed 1600

PASS YES ✓ NO _____

SAMPLER/ANALYST [redacted]

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

Bill of Lading

MANIFEST # 78587
GENERATOR El Paso
POINT OF ORIGIN Gallegos Canyon #124E
TRANSPORTER Riley
DATE 04/11/23 JOB # 14073-0074

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 Cont Soil			2	-	-	26010	1315	Roger Sanchez
-	BF	Cuttings Out By Riley			3	-	-	26010	1315	Roger Sanchez
					5					

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

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

Generator Onsite Contact _____ Phone _____

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

SAN JUAN PRINTING 2021 407-3

envirotech

BOL# 78587

CHLORIDE TESTING / PAINT FILTER TESTING

DATE 04/11/23 TIME 1315

CUSTOMER El Paso

SITE Gallegos Canyon 124E

DRIVER Hugo Sma

SAMPLE Soil Straight X With Dirt

CHLORIDE TEST 28 mg/Kg

ACCEPTED YES X NO

PAINT FILTER TEST Time started 1315 Time completed 1328

PASS YES X NO

SAMPLER/ANALYST

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

Bill of Lading

MANIFEST # 78643
GENERATOR ELPaso
POINT OF ORIGIN GCU 124E
TRANSPORTER Envirotech
DATE 04/14/23 JOB # 14073-0074

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

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	DESTINATION	MATERIAL	GRID	YDS	BBLS	DRUMS	TKT#	TRK#	TIME	DRIVER SIGNATURE
1	LF2.5	Contsoil	D36	4	-	-	-	998	0955	
2	"	" "	D36	2	-	-		998	1305	
3	BF		-	-	-	2		998	1305	
				6		2				

RESULTS		
281	CHLORIDE TEST	2
	CHLORIDE TEST	
	CHLORIDE TEST	
PASS	PAINT FILTER TEST	2

LANDFARM EMPLOYEE Cory Robinson

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

NOTES Two Boxes.

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

BOL# 78643

CHLORIDE TESTING / PAINT FILTER TESTING

DATE 04/14/23 TIME 0955

CUSTOMER EL PASO

SITE GCU 124E

DRIVER [illegible]

SAMPLE (Soil) Straight X With Dirt _____

CHLORIDE TEST 281 mg/Kg

ACCEPTED YES X NO _____

PAINT FILTER TEST Time started 0955 Time completed 1006

PASS YES X NO _____

SAMPLER/ANALYST Cory Robinson

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

BOL# 78643

CHLORIDE TESTING / PAINT FILTER TESTING

DATE 04/14/23 TIME 1305

Attach test strip here

CUSTOMER El Paso

SITE GCU-124E

DRIVER

SAMPLE Soil Straight _____ With Dirt X

CHLORIDE TEST 281 mg/Kg

ACCEPTED YES X NO _____

PAINT FILTER TEST Time started 1305 Time completed 1316

PASS YES X NO _____

SAMPLER/ANALYST

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

envirotech

Bill of Lading

MANIFEST # 82577
GENERATOR El Paso
POINT OF ORIGIN See the C-138 for list of sites
TRANSPORTER Envirotech
DATE 11/16/23 JOB # 14073-0081

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	B'F	Tank bottoms			1	—	—	725	1430	
					1					

RESULTS			LANDFARM EMPLOYEE	NOTES
-272	CHLORIDE TEST	1		
	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. 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.**	
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 407-3

envirotech

BOL# 82577

CHLORIDE TESTING / PAINT FILTER TESTING

DATE 11/16/23 TIME 1430

Attach test strip here

CUSTOMER El Paso

SITE See Bol 82577

DRIVER Stoven by Gomez

SAMPLE Soil Straight _____ With Dirt X

CHLORIDE TEST 272 mg/Kg

ACCEPTED YES X NO _____

PAINT FILTER TEST Time started 1430 Time completed 1441

PASS YES X NO _____

SAMPLER/ANALYST _____

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

APPENDIX G

Groundwater Analytical Lab Reports

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 6/14/2023 8:50:48 AM Revision 1

JOB DESCRIPTION

Gallegos Canyon Unit #124E.00
SDG NUMBER GCU 124

JOB NUMBER

400-237851-1

Eurofins Pensacola
3355 McLemore Drive
Pensacola FL 32514

See page two for job notes and contact information.

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Job Notes

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

Laboratory Job ID: 400-237851-1
SDG: GCU 124

Table of Contents

Case Narrative

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

Job ID: 400-237851-1
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Job ID: 400-237851-1

Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-237851-1

Comments
No additional comments.

Receipt
The samples were received on 5/18/2023 8:26 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 2.8º C.

GC/MS VOA
Method 8260D: Surrogate recovery for the following sample was outside the upper control limit: MW-4 (400-237851-5). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8260D: One of three surrogate recoveries for the following samples were outside the upper control limit: MW-5 (400-237851-6), MW-6 (400-237851-7) and MW-7 (400-237851-8). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8260D: One of three surrogate recoveries for the following sample was outside the upper control limit: (MB 400-627179/4). This method blank did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

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

GC/MS Semi VOA
Method 8270E SIM: Three surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: (MB 400-626284/1-A). These results have 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: 400-237851-1
SDG: GCU 124

Client Sample ID: TRIP BLANK — Lab Sample ID: 400-237851-1

No Detections.

Client Sample ID: DUP-01 — Lab Sample ID: 400-237851-2

No Detections.

Client Sample ID: MW-1R — Lab Sample ID: 400-237851-3

No Detections.

Client Sample ID: MW-3 — Lab Sample ID: 400-237851-4

No Detections.

Client Sample ID: MW-4 — Lab Sample ID: 400-237851-5

No Detections.

Client Sample ID: MW-5 — Lab Sample ID: 400-237851-6

No Detections.

Client Sample ID: MW-6 — Lab Sample ID: 400-237851-7

No Detections.

Client Sample ID: MW-7 — Lab Sample ID: 400-237851-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.31		0.26		ug/L	1		8270E SIM	Total/NA

Client Sample ID: MW-8 — Lab Sample ID: 400-237851-9

No Detections.

This Detection Summary does not include radiochemical test results.

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Method Summary

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

Job ID: 400-237851-1
SDG: GCU 124

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET PEN
8270E SIM	Semivolatile Organic Compounds (GC/MS SIM)	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: 400-237851-1
SDG: GCU 124

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-237851-1	TRIP BLANK	Water	05/17/23 08:30	05/18/23 08:26
400-237851-2	DUP-01	Water	05/17/23 08:35	05/18/23 08:26
400-237851-3	MW-1R	Water	05/17/23 09:30	05/18/23 08:26
400-237851-4	MW-3	Water	05/17/23 09:25	05/18/23 08:26
400-237851-5	MW-4	Water	05/17/23 09:20	05/18/23 08:26
400-237851-6	MW-5	Water	05/17/23 09:45	05/18/23 08:26
400-237851-7	MW-6	Water	05/17/23 09:10	05/18/23 08:26
400-237851-8	MW-7	Water	05/17/23 09:00	05/18/23 08:26
400-237851-9	MW-8	Water	05/17/23 08:50	05/18/23 08:26

Client Sample Results

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

Job ID: 400-237851-1
SDG: GCU 124

Client Sample ID: TRIP BLANK

Date Collected: 05/17/23 08:30
Date Received: 05/18/23 08:26

Lab Sample ID: 400-237851-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			05/30/23 16:13	1
Toluene	<1.0		1.0		ug/L			05/30/23 16:13	1
Ethylbenzene	<1.0		1.0		ug/L			05/30/23 16:13	1
Xylenes, Total	<10		10		ug/L			05/30/23 16:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*64 - 132*		*05/30/23 16:13*	*1*
Dibromofluoromethane	*102*		*75 - 126*		*05/30/23 16:13*	*1*
4-Bromofluorobenzene	*112*		*72 - 130*		*05/30/23 16:13*	*1*

Client Sample Results

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

Job ID: 400-237851-1
SDG: GCU 124

Client Sample ID: DUP-01

Date Collected: 05/17/23 08:35
Date Received: 05/18/23 08:26

Lab Sample ID: 400-237851-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			05/30/23 17:06	1
Toluene	<1.0		1.0		ug/L			05/30/23 17:06	1
Ethylbenzene	<1.0		1.0		ug/L			05/30/23 17:06	1
Xylenes, Total	<10		10		ug/L			05/30/23 17:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*64 - 132*		*05/30/23 17:06*	*1*
Dibromofluoromethane	*110*		*75 - 126*		*05/30/23 17:06*	*1*
4-Bromofluorobenzene	*110*		*72 - 130*		*05/30/23 17:06*	*1*

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.30		0.30		ug/L		05/24/23 10:15	05/26/23 19:20	1
Naphthalene	<0.30		0.30		ug/L		05/24/23 10:15	05/26/23 19:20	1
1-Methylnaphthalene	<0.30		0.30		ug/L		05/24/23 10:15	05/26/23 19:20	1
2-Methylnaphthalene	<0.30		0.30		ug/L		05/24/23 10:15	05/26/23 19:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*101*		*18 - 147*	*05/24/23 10:15*	*05/26/23 19:20*	*1*
2-Fluorobiphenyl	*85*		*15 - 128*	*05/24/23 10:15*	*05/26/23 19:20*	*1*
Nitrobenzene-d5	*56*		*10 - 144*	*05/24/23 10:15*	*05/26/23 19:20*	*1*

Client Sample Results

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

Job ID: 400-237851-1
SDG: GCU 124

Client Sample ID: MW-1R

Date Collected: 05/17/23 09:30
Date Received: 05/18/23 08:26

Lab Sample ID: 400-237851-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			05/30/23 17:32	1
Toluene	<1.0		1.0		ug/L			05/30/23 17:32	1
Ethylbenzene	<1.0		1.0		ug/L			05/30/23 17:32	1
Xylenes, Total	<10		10		ug/L			05/30/23 17:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*64 - 132*		*05/30/23 17:32*	*1*
Dibromofluoromethane	*121*		*75 - 126*		*05/30/23 17:32*	*1*
4-Bromofluorobenzene	*106*		*72 - 130*		*05/30/23 17:32*	*1*

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.30		0.30		ug/L		05/24/23 10:15	05/26/23 19:41	1
Naphthalene	<0.30		0.30		ug/L		05/24/23 10:15	05/26/23 19:41	1
1-Methylnaphthalene	<0.30		0.30		ug/L		05/24/23 10:15	05/26/23 19:41	1
2-Methylnaphthalene	<0.30		0.30		ug/L		05/24/23 10:15	05/26/23 19:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*104*		*18 - 147*	*05/24/23 10:15*	*05/26/23 19:41*	*1*
2-Fluorobiphenyl	*92*		*15 - 128*	*05/24/23 10:15*	*05/26/23 19:41*	*1*
Nitrobenzene-d5	*61*		*10 - 144*	*05/24/23 10:15*	*05/26/23 19:41*	*1*

Client Sample Results

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

Job ID: 400-237851-1
SDG: GCU 124

Client Sample ID: MW-3

Date Collected: 05/17/23 09:25
Date Received: 05/18/23 08:26

Lab Sample ID: 400-237851-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			05/30/23 17:58	1
Toluene	<1.0		1.0		ug/L			05/30/23 17:58	1
Ethylbenzene	<1.0		1.0		ug/L			05/30/23 17:58	1
Xylenes, Total	<10		10		ug/L			05/30/23 17:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*64 - 132*		*05/30/23 17:58*	*1*
Dibromofluoromethane	*111*		*75 - 126*		*05/30/23 17:58*	*1*
4-Bromofluorobenzene	*108*		*72 - 130*		*05/30/23 17:58*	*1*

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.23		0.23		ug/L		05/24/23 10:15	05/26/23 20:03	1
Naphthalene	<0.23		0.23		ug/L		05/24/23 10:15	05/26/23 20:03	1
1-Methylnaphthalene	<0.23		0.23		ug/L		05/24/23 10:15	05/26/23 20:03	1
2-Methylnaphthalene	<0.23		0.23		ug/L		05/24/23 10:15	05/26/23 20:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*109*		*18 - 147*	*05/24/23 10:15*	*05/26/23 20:03*	*1*
2-Fluorobiphenyl	*95*		*15 - 128*	*05/24/23 10:15*	*05/26/23 20:03*	*1*
Nitrobenzene-d5	*58*		*10 - 144*	*05/24/23 10:15*	*05/26/23 20:03*	*1*

Client Sample Results

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

Job ID: 400-237851-1
SDG: GCU 124

Client Sample ID: MW-4

Date Collected: 05/17/23 09:20
Date Received: 05/18/23 08:26

Lab Sample ID: 400-237851-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			05/30/23 18:24	1
Toluene	<1.0		1.0		ug/L			05/30/23 18:24	1
Ethylbenzene	<1.0		1.0		ug/L			05/30/23 18:24	1
Xylenes, Total	<10		10		ug/L			05/30/23 18:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*64 - 132*		*05/30/23 18:24*	*1*
Dibromofluoromethane	*130*	*S1+*	*75 - 126*		*05/30/23 18:24*	*1*
4-Bromofluorobenzene	*105*		*72 - 130*		*05/30/23 18:24*	*1*

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.27		0.27		ug/L		05/24/23 10:15	05/26/23 20:24	1
Naphthalene	<0.27		0.27		ug/L		05/24/23 10:15	05/26/23 20:24	1
1-Methylnaphthalene	<0.27		0.27		ug/L		05/24/23 10:15	05/26/23 20:24	1
2-Methylnaphthalene	<0.27		0.27		ug/L		05/24/23 10:15	05/26/23 20:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*127*		*18 - 147*	*05/24/23 10:15*	*05/26/23 20:24*	*1*
2-Fluorobiphenyl	*100*		*15 - 128*	*05/24/23 10:15*	*05/26/23 20:24*	*1*
Nitrobenzene-d5	*65*		*10 - 144*	*05/24/23 10:15*	*05/26/23 20:24*	*1*

Client Sample Results

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

Job ID: 400-237851-1
SDG: GCU 124

Client Sample ID: MW-5

Date Collected: 05/17/23 09:45
Date Received: 05/18/23 08:26

Lab Sample ID: 400-237851-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			05/31/23 15:58	1
Toluene	<1.0		1.0		ug/L			05/31/23 15:58	1
Ethylbenzene	<1.0		1.0		ug/L			05/31/23 15:58	1
Xylenes, Total	<10		10		ug/L			05/31/23 15:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*64 - 132*		*05/31/23 15:58*	*1*
Dibromofluoromethane	*127*	*S1+*	*75 - 126*		*05/31/23 15:58*	*1*
4-Bromofluorobenzene	*106*		*72 - 130*		*05/31/23 15:58*	*1*

Client Sample Results

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

Job ID: 400-237851-1
SDG: GCU 124

Client Sample ID: MW-6

Date Collected: 05/17/23 09:10
Date Received: 05/18/23 08:26

Lab Sample ID: 400-237851-7

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			05/31/23 16:25	1
Toluene	<1.0		1.0		ug/L			05/31/23 16:25	1
Ethylbenzene	<1.0		1.0		ug/L			05/31/23 16:25	1
Xylenes, Total	<10		10		ug/L			05/31/23 16:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*64 - 132*		*05/31/23 16:25*	*1*
Dibromofluoromethane	*128*	*S1+*	*75 - 126*		*05/31/23 16:25*	*1*
4-Bromofluorobenzene	*107*		*72 - 130*		*05/31/23 16:25*	*1*

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.24		0.24		ug/L		05/24/23 10:15	05/26/23 20:46	1
Naphthalene	<0.24		0.24		ug/L		05/24/23 10:15	05/26/23 20:46	1
1-Methylnaphthalene	<0.24		0.24		ug/L		05/24/23 10:15	05/26/23 20:46	1
2-Methylnaphthalene	<0.24		0.24		ug/L		05/24/23 10:15	05/26/23 20:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*130*		*18 - 147*	*05/24/23 10:15*	*05/26/23 20:46*	*1*
2-Fluorobiphenyl	*103*		*15 - 128*	*05/24/23 10:15*	*05/26/23 20:46*	*1*
Nitrobenzene-d5	*65*		*10 - 144*	*05/24/23 10:15*	*05/26/23 20:46*	*1*

Client Sample Results

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

Job ID: 400-237851-1
SDG: GCU 124

Client Sample ID: MW-7

Date Collected: 05/17/23 09:00
Date Received: 05/18/23 08:26

Lab Sample ID: 400-237851-8

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			05/31/23 16:51	1
Toluene	<1.0		1.0		ug/L			05/31/23 16:51	1
Ethylbenzene	<1.0		1.0		ug/L			05/31/23 16:51	1
Xylenes, Total	<10		10		ug/L			05/31/23 16:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*64 - 132*		*05/31/23 16:51*	*1*
Dibromofluoromethane	*138*	*S1+*	*75 - 126*		*05/31/23 16:51*	*1*
4-Bromofluorobenzene	*104*		*72 - 130*		*05/31/23 16:51*	*1*

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.26		0.26		ug/L		05/24/23 10:15	05/26/23 21:08	1
Naphthalene	**0.31**		0.26		ug/L		05/24/23 10:15	05/26/23 21:08	1
1-Methylnaphthalene	<0.26		0.26		ug/L		05/24/23 10:15	05/26/23 21:08	1
2-Methylnaphthalene	<0.26		0.26		ug/L		05/24/23 10:15	05/26/23 21:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*133*		*18 - 147*	*05/24/23 10:15*	*05/26/23 21:08*	*1*
2-Fluorobiphenyl	*106*		*15 - 128*	*05/24/23 10:15*	*05/26/23 21:08*	*1*
Nitrobenzene-d5	*66*		*10 - 144*	*05/24/23 10:15*	*05/26/23 21:08*	*1*

Client Sample Results

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

Job ID: 400-237851-1
SDG: GCU 124

Client Sample ID: MW-8

Date Collected: 05/17/23 08:50
Date Received: 05/18/23 08:26

Lab Sample ID: 400-237851-9

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			05/31/23 17:17	1
Toluene	<1.0		1.0		ug/L			05/31/23 17:17	1
Ethylbenzene	<1.0		1.0		ug/L			05/31/23 17:17	1
Xylenes, Total	<10		10		ug/L			05/31/23 17:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*64 - 132*		*05/31/23 17:17*	*1*
Dibromofluoromethane	*126*		*75 - 126*		*05/31/23 17:17*	*1*
4-Bromofluorobenzene	*106*		*72 - 130*		*05/31/23 17:17*	*1*

Definitions/Glossary

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

Job ID: 400-237851-1
SDG: GCU 124

Qualifiers

GC/MS VOA

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

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: 400-237851-1
SDG: GCU 124

Client Sample ID: TRIP BLANK
Date Collected: 05/17/23 08:30
Date Received: 05/18/23 08:26

Lab Sample ID: 400-237851-1
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	8260D		1	5 mL	5 mL	626968	05/30/23 16:13	BPO	EET PEN

Client Sample ID: DUP-01
Date Collected: 05/17/23 08:35
Date Received: 05/18/23 08:26

Lab Sample ID: 400-237851-2
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	8260D		1	5 mL	5 mL	626968	05/30/23 17:06	BPO	EET PEN
Total/NA	Prep	3510C			168.2 mL	1 mL	626284	05/24/23 10:15	BKL	EET PEN
Total/NA	Analysis	8270E SIM		1	0.4 mL	0.4 mL	626652	05/26/23 19:20	PP1	EET PEN

Client Sample ID: MW-1R
Date Collected: 05/17/23 09:30
Date Received: 05/18/23 08:26

Lab Sample ID: 400-237851-3
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	8260D		1	5 mL	5 mL	626968	05/30/23 17:32	BPO	EET PEN
Total/NA	Prep	3510C			164.6 mL	1 mL	626284	05/24/23 10:15	BKL	EET PEN
Total/NA	Analysis	8270E SIM		1	0.4 mL	0.4 mL	626652	05/26/23 19:41	PP1	EET PEN

Client Sample ID: MW-3
Date Collected: 05/17/23 09:25
Date Received: 05/18/23 08:26

Lab Sample ID: 400-237851-4
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	8260D		1	5 mL	5 mL	626968	05/30/23 17:58	BPO	EET PEN
Total/NA	Prep	3510C			216.4 mL	1 mL	626284	05/24/23 10:15	BKL	EET PEN
Total/NA	Analysis	8270E SIM		1	0.4 mL	0.4 mL	626652	05/26/23 20:03	PP1	EET PEN

Client Sample ID: MW-4
Date Collected: 05/17/23 09:20
Date Received: 05/18/23 08:26

Lab Sample ID: 400-237851-5
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	8260D		1	5 mL	5 mL	626968	05/30/23 18:24	BPO	EET PEN
Total/NA	Prep	3510C			183.4 mL	1 mL	626284	05/24/23 10:15	BKL	EET PEN
Total/NA	Analysis	8270E SIM		1	0.4 mL	0.4 mL	626652	05/26/23 20:24	PP1	EET PEN

Client Sample ID: MW-5
Date Collected: 05/17/23 09:45
Date Received: 05/18/23 08:26

Lab Sample ID: 400-237851-6
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	8260D		1	5 mL	5 mL	627179	05/31/23 15:58	JE	EET PEN

Lab Chronicle

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

Job ID: 400-237851-1
SDG: GCU 124

Client Sample ID: MW-6
Date Collected: 05/17/23 09:10
Date Received: 05/18/23 08:26

Lab Sample ID: 400-237851-7
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	8260D		1	5 mL	5 mL	627179	05/31/23 16:25	JE	EET PEN
Total/NA	Prep	3510C			212.6 mL	1 mL	626284	05/24/23 10:15	BKL	EET PEN
Total/NA	Analysis	8270E SIM		1	0.4 mL	0.4 mL	626652	05/26/23 20:46	PP1	EET PEN

Client Sample ID: MW-7
Date Collected: 05/17/23 09:00
Date Received: 05/18/23 08:26

Lab Sample ID: 400-237851-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	627179	05/31/23 16:51	JE	EET PEN
Total/NA	Prep	3510C			192.8 mL	1 mL	626284	05/24/23 10:15	BKL	EET PEN
Total/NA	Analysis	8270E SIM		1	0.4 mL	0.4 mL	626652	05/26/23 21:08	PP1	EET PEN

Client Sample ID: MW-8
Date Collected: 05/17/23 08:50
Date Received: 05/18/23 08:26

Lab Sample ID: 400-237851-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	627179	05/31/23 17:17	JE	EET PEN

Client Sample ID: Method Blank
Date Collected: N/A
Date Received: N/A

Lab Sample ID: MB 400-626284/1-A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			250 mL	1 mL	626284	05/24/23 10:15	BKL	EET PEN
Total/NA	Analysis	8270E SIM		1	0.4 mL	0.4 mL	626560	05/26/23 07:34	PP1	EET PEN

Client Sample ID: Method Blank
Date Collected: N/A
Date Received: N/A

Lab Sample ID: MB 400-626968/4
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	8260D		1	5 mL	5 mL	626968	05/30/23 10:35	BPO	EET PEN

Client Sample ID: Method Blank
Date Collected: N/A
Date Received: N/A

Lab Sample ID: MB 400-627179/4
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	8260D		1	5 mL	5 mL	627179	05/31/23 15:12	JE	EET PEN

Lab Chronicle

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

Job ID: 400-237851-1
SDG: GCU 124

Client Sample ID: Lab Control Sample
Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCS 400-626284/2-A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			250 mL	1 mL	626284	05/24/23 10:15	BKL	EET PEN
Total/NA	Analysis	8270E SIM		1	0.4 mL	0.4 mL	626560	05/26/23 07:55	PP1	EET PEN

Client Sample ID: Lab Control Sample
Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCS 400-626968/1002
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	8260D		1	5 mL	5 mL	626968	05/30/23 09:10	BPO	EET PEN

Client Sample ID: Lab Control Sample
Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCS 400-627179/1002
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	8260D		1	5 mL	5 mL	627179	05/31/23 13:47	JE	EET PEN

Client Sample ID: Lab Control Sample Dup
Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCSD 400-626284/3-A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			250 mL	1 mL	626284	05/24/23 10:15	BKL	EET PEN
Total/NA	Analysis	8270E SIM		1	0.4 mL	0.4 mL	626560	05/26/23 08:16	PP1	EET PEN

Client Sample ID: MW-7
Date Collected: 05/17/23 09:00
Date Received: 05/18/23 08:26

Lab Sample ID: 400-237851-8 MS
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	8260D		1	5 mL	5 mL	627179	05/31/23 19:48	JE	EET PEN

Client Sample ID: MW-7
Date Collected: 05/17/23 09:00
Date Received: 05/18/23 08:26

Lab Sample ID: 400-237851-8 MSD
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	8260D		1	5 mL	5 mL	627179	05/31/23 20:13	JE	EET PEN

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: 400-237851-1
SDG: GCU 124

GC/MS VOA

Analysis Batch: 626968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-237851-1	TRIP BLANK	Total/NA	Water	8260D	
400-237851-2	DUP-01	Total/NA	Water	8260D	
400-237851-3	MW-1R	Total/NA	Water	8260D	
400-237851-4	MW-3	Total/NA	Water	8260D	
400-237851-5	MW-4	Total/NA	Water	8260D	
MB 400-626968/4	Method Blank	Total/NA	Water	8260D	
LCS 400-626968/1002	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 627179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-237851-6	MW-5	Total/NA	Water	8260D	
400-237851-7	MW-6	Total/NA	Water	8260D	
400-237851-8	MW-7	Total/NA	Water	8260D	
400-237851-9	MW-8	Total/NA	Water	8260D	
MB 400-627179/4	Method Blank	Total/NA	Water	8260D	
LCS 400-627179/1002	Lab Control Sample	Total/NA	Water	8260D	
400-237851-8 MS	MW-7	Total/NA	Water	8260D	
400-237851-8 MSD	MW-7	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 626284

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-237851-2	DUP-01	Total/NA	Water	3510C	
400-237851-3	MW-1R	Total/NA	Water	3510C	
400-237851-4	MW-3	Total/NA	Water	3510C	
400-237851-5	MW-4	Total/NA	Water	3510C	
400-237851-7	MW-6	Total/NA	Water	3510C	
400-237851-8	MW-7	Total/NA	Water	3510C	
MB 400-626284/1-A	Method Blank	Total/NA	Water	3510C	
LCS 400-626284/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 400-626284/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 626560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-626284/1-A	Method Blank	Total/NA	Water	8270E SIM	626284
LCS 400-626284/2-A	Lab Control Sample	Total/NA	Water	8270E SIM	626284
LCSD 400-626284/3-A	Lab Control Sample Dup	Total/NA	Water	8270E SIM	626284

Analysis Batch: 626652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-237851-2	DUP-01	Total/NA	Water	8270E SIM	626284
400-237851-3	MW-1R	Total/NA	Water	8270E SIM	626284
400-237851-4	MW-3	Total/NA	Water	8270E SIM	626284
400-237851-5	MW-4	Total/NA	Water	8270E SIM	626284
400-237851-7	MW-6	Total/NA	Water	8270E SIM	626284
400-237851-8	MW-7	Total/NA	Water	8270E SIM	626284

QC Sample Results

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

Job ID: 400-237851-1
SDG: GCU 124

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

Lab Sample ID: MB 400-626968/4
Matrix: Water
Analysis Batch: 626968

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			05/30/23 10:35	1
Toluene	<1.0		1.0		ug/L			05/30/23 10:35	1
Ethylbenzene	<1.0		1.0		ug/L			05/30/23 10:35	1
Xylenes, Total	<10		10		ug/L			05/30/23 10:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*64 - 132*		*05/30/23 10:35*	*1*
Dibromofluoromethane	*114*		*75 - 126*		*05/30/23 10:35*	*1*
4-Bromofluorobenzene	*108*		*72 - 130*		*05/30/23 10:35*	*1*

Lab Sample ID: LCS 400-626968/1002
Matrix: Water
Analysis Batch: 626968

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	47.8		ug/L		96	70 - 130
Toluene	50.0	49.3		ug/L		99	70 - 130
Ethylbenzene	50.0	51.2		ug/L		102	70 - 130
Xylenes, Total	100	103		ug/L		103	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*86*		*67 - 134*
Toluene-d8 (Surr)	*109*		*64 - 132*
Dibromofluoromethane	*95*		*75 - 126*
4-Bromofluorobenzene	*124*		*72 - 130*

Lab Sample ID: MB 400-627179/4
Matrix: Water
Analysis Batch: 627179

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			05/31/23 15:12	1
Toluene	<1.0		1.0		ug/L			05/31/23 15:12	1
Ethylbenzene	<1.0		1.0		ug/L			05/31/23 15:12	1
Xylenes, Total	<10		10		ug/L			05/31/23 15:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*64 - 132*		*05/31/23 15:12*	*1*
Dibromofluoromethane	*129*	*S1+*	*75 - 126*		*05/31/23 15:12*	*1*
4-Bromofluorobenzene	*107*		*72 - 130*		*05/31/23 15:12*	*1*

Lab Sample ID: LCS 400-627179/1002
Matrix: Water
Analysis Batch: 627179

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	51.5		ug/L		103	70 - 130
Toluene	50.0	55.8		ug/L		112	70 - 130

QC Sample Results

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

Job ID: 400-237851-1
SDG: GCU 124

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

Lab Sample ID: LCS 400-627179/1002
Matrix: Water
Analysis Batch: 627179

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	50.0	57.9		ug/L		116	70 - 130
Xylenes, Total	100	115		ug/L		115	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*91*		*67 - 134*
Toluene-d8 (Surr)	*112*		*64 - 132*
Dibromofluoromethane	*95*		*75 - 126*
4-Bromofluorobenzene	*128*		*72 - 130*

Lab Sample ID: 400-237851-8 MS
Matrix: Water
Analysis Batch: 627179

Client Sample ID: MW-7
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	40.8		ug/L		82	56 - 142
Toluene	<1.0		50.0	39.2		ug/L		78	65 - 130
Ethylbenzene	<1.0		50.0	35.2		ug/L		70	58 - 131
Xylenes, Total	<10		100	71.5		ug/L		71	59 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*88*		*67 - 134*
Toluene-d8 (Surr)	*107*		*64 - 132*
Dibromofluoromethane	*94*		*75 - 126*
4-Bromofluorobenzene	*125*		*72 - 130*

Lab Sample ID: 400-237851-8 MSD
Matrix: Water
Analysis Batch: 627179

Client Sample ID: MW-7
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	38.9		ug/L		78	56 - 142	5	30
Toluene	<1.0		50.0	38.5		ug/L		77	65 - 130	2	30
Ethylbenzene	<1.0		50.0	35.1		ug/L		70	58 - 131	1	30
Xylenes, Total	<10		100	71.0		ug/L		71	59 - 130	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*85*		*67 - 134*
Toluene-d8 (Surr)	*108*		*64 - 132*
Dibromofluoromethane	*90*		*75 - 126*
4-Bromofluorobenzene	*126*		*72 - 130*

QC Sample Results

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

Job ID: 400-237851-1
SDG: GCU 124

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 400-626284/1-A
Matrix: Water
Analysis Batch: 626560

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 626284

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.20		0.20		ug/L		05/24/23 10:15	05/26/23 07:34	1
Naphthalene	<0.20		0.20		ug/L		05/24/23 10:15	05/26/23 07:34	1
1-Methylnaphthalene	<0.20		0.20		ug/L		05/24/23 10:15	05/26/23 07:34	1
2-Methylnaphthalene	<0.20		0.20		ug/L		05/24/23 10:15	05/26/23 07:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*185*	*S1+*	*18 - 147*	*05/24/23 10:15*	*05/26/23 07:34*	*1*
2-Fluorobiphenyl	*113*		*15 - 128*	*05/24/23 10:15*	*05/26/23 07:34*	*1*
Nitrobenzene-d5	*73*		*10 - 144*	*05/24/23 10:15*	*05/26/23 07:34*	*1*

Lab Sample ID: LCS 400-626284/2-A
Matrix: Water
Analysis Batch: 626560

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 626284

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzo[a]pyrene			2.00	1.63		ug/L		82	40 - 140		
Naphthalene			2.00	1.59		ug/L		80	40 - 140		
1-Methylnaphthalene			2.00	1.70		ug/L		85	40 - 140		
2-Methylnaphthalene			2.00	1.70		ug/L		85	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Terphenyl-d14	*141*		*18 - 147*
2-Fluorobiphenyl	*109*		*15 - 128*
Nitrobenzene-d5	*70*		*10 - 144*

Lab Sample ID: LCSD 400-626284/3-A
Matrix: Water
Analysis Batch: 626560

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 626284

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzo[a]pyrene			2.00	1.58		ug/L		79	40 - 140	3	40
Naphthalene			2.00	1.47		ug/L		73	40 - 140	8	40
1-Methylnaphthalene			2.00	1.54		ug/L		77	40 - 140	10	40
2-Methylnaphthalene			2.00	1.56		ug/L		78	40 - 140	9	40

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Terphenyl-d14	*132*		*18 - 147*
2-Fluorobiphenyl	*101*		*15 - 128*
Nitrobenzene-d5	*66*		*10 - 144*

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

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Sean Clary / Sarah Gardner	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-120293-41346.1
Client Contact: Joe Wiley	Phone: 303 291 2239	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: El Paso Energy Corporation	PWSID:			Job #:
Address: 1001 Louisiana Street Room S1905B	Due Date Requested: See ARF			
City: Houston	TAT Requested (days): See ARF			
State, Zip: TX, 77002	Compliance Project: Δ Yes Δ No			
Phone:	PO #: WD1040034			
Email: joe.wiley@kindermorgan.com	WO #: GCU#124_ERG_ARF_04-26-2023			
Project Name: Gallegos Canyon Unit #124E.00	Project #: 40015823			
Site: GCU 124	SSOW#:			

Analysis Requested

400-237851 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)	8260D - BTEX - 8260	8270E_LL - Project Specific PAHs	Total Number of containers	Special Instructions/Note:
			Preservation Code:			A	N		
Trip Blank	5/17/23	830	G	Water	—	2	-	2	Trip Blank
DUP-01	5/17/23	835	G	Water	—	2	2	4	
MW-1R	5/17/23	930	G	Water	—	2	2	4	
MW-3	5/17/23	925	G	Water	—	2	2	4	
MW-4	5/17/23	920	G	Water	—	2	2	4	
MW-5	5/17/23	945	G	Water	—	2	-	2	
MW-6	5/17/23	910	G	Water	—	2	2	4	
MW-7	5/17/23	900	G	Water	—	2	2	4	
MW-8	5/17/23	850	G	Water	—	2	-	2	
				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
1	[signature]	5/17/2023 1145	Stantec	[signature]	5-18-23 826	
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

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

Cooler Temperature(s) °C and Other Remarks: 2.8 °C IR 8

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc

Job Number: 400-237851-1
SDG Number: GCU 124

Login Number: 237851
List Number: 1
Creator: Whitley, Adrian

List Source: Eurofins Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	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	2.8°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").	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: 400-237851-1
Project/Site: Gallegos Canyon Unit #124E.00
SDG: GCU 124

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	02-22-26
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
Louisiana (All)	NELAP	30976	06-30-23
Louisiana (DW)	State	LA017	12-31-23
Maryland	State	233	09-30-23
Michigan	State	9912	06-30-23
North Carolina (WW/SW)	State	314	12-31-23
Oklahoma	NELAP	9810	08-31-23
Pennsylvania	NELAP	68-00467	01-31-24
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
USDA	US Federal Programs	FLGNV23001	01-08-26
Virginia	NELAP	460166	06-14-23
West Virginia DEP	State	136	03-31-24

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 9/29/2023 3:21:05 PM

JOB DESCRIPTION

Gallegos Canyon Unit #124E.00

JOB NUMBER

400-242852-1

Eurofins Pensacola
3355 McLemore Drive
Pensacola FL 32514

See page two for job notes and contact information.

Eurofins Pensacola

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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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Authorized for release by
Isabel Enfinger, Project Manager I
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(850)471-6222

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

Laboratory Job ID: 400-242852-1

Table of Contents

Case Narrative

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

Job ID: 400-242852-1

Job ID: 400-242852-1

Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-242852-1

Receipt

The samples were received on 9/1/2023 9:18 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.4º C.

GC/MS VOA

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: 400-242852-1

Client Sample ID: MW-1R — Lab Sample ID: 400-242852-1

No Detections.

Client Sample ID: MW-3 — Lab Sample ID: 400-242852-2

No Detections.

Client Sample ID: MW-4 — Lab Sample ID: 400-242852-3

No Detections.

Client Sample ID: MW-5 — Lab Sample ID: 400-242852-4

No Detections.

Client Sample ID: MW-6 — Lab Sample ID: 400-242852-5

No Detections.

Client Sample ID: MW-7 — Lab Sample ID: 400-242852-6

No Detections.

Client Sample ID: MW-8 — Lab Sample ID: 400-242852-7

No Detections.

Client Sample ID: DUP-01 — Lab Sample ID: 400-242852-8

No Detections.

Client Sample ID: TRIP BLANK — Lab Sample ID: 400-242852-9

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: 400-242852-1

Method	Method Description	Protocol	Laboratory
8260D	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: 400-242852-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-242852-1	MW-1R	Water	08/31/23 13:40	09/01/23 09:18
400-242852-2	MW-3	Water	08/31/23 13:52	09/01/23 09:18
400-242852-3	MW-4	Water	08/31/23 14:05	09/01/23 09:18
400-242852-4	MW-5	Water	08/31/23 14:26	09/01/23 09:18
400-242852-5	MW-6	Water	08/31/23 14:15	09/01/23 09:18
400-242852-6	MW-7	Water	08/31/23 14:43	09/01/23 09:18
400-242852-7	MW-8	Water	08/31/23 14:35	09/01/23 09:18
400-242852-8	DUP-01	Water	08/31/23 12:00	09/01/23 09:18
400-242852-9	TRIP BLANK	Water	08/31/23 12:00	09/01/23 09:18

Client Sample Results

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

Job ID: 400-242852-1

Client Sample ID: MW-1R

Date Collected: 08/31/23 13:40
Date Received: 09/01/23 09:18

Lab Sample ID: 400-242852-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			09/09/23 09:31	1
Toluene	<1.0		1.0		ug/L			09/09/23 09:31	1
Ethylbenzene	<1.0		1.0		ug/L			09/09/23 09:31	1
Xylenes, Total	<10		10		ug/L			09/09/23 09:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*92*		*64 - 132*		*09/09/23 09:31*	*1*
4-Bromofluorobenzene	*83*		*72 - 130*		*09/09/23 09:31*	*1*
Dibromofluoromethane	*110*		*75 - 126*		*09/09/23 09:31*	*1*

Client Sample Results

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

Job ID: 400-242852-1

Client Sample ID: MW-3

Date Collected: 08/31/23 13:52
Date Received: 09/01/23 09:18

Lab Sample ID: 400-242852-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			09/09/23 09:51	1
Toluene	<1.0		1.0		ug/L			09/09/23 09:51	1
Ethylbenzene	<1.0		1.0		ug/L			09/09/23 09:51	1
Xylenes, Total	<10		10		ug/L			09/09/23 09:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*64 - 132*		*09/09/23 09:51*	*1*
4-Bromofluorobenzene	*84*		*72 - 130*		*09/09/23 09:51*	*1*
Dibromofluoromethane	*109*		*75 - 126*		*09/09/23 09:51*	*1*

Client Sample Results

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

Job ID: 400-242852-1

Client Sample ID: MW-4

Date Collected: 08/31/23 14:05
Date Received: 09/01/23 09:18

Lab Sample ID: 400-242852-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			09/09/23 11:28	1
Toluene	<1.0		1.0		ug/L			09/09/23 11:28	1
Ethylbenzene	<1.0		1.0		ug/L			09/09/23 11:28	1
Xylenes, Total	<10		10		ug/L			09/09/23 11:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*64 - 132*		*09/09/23 11:28*	*1*
4-Bromofluorobenzene	*84*		*72 - 130*		*09/09/23 11:28*	*1*
Dibromofluoromethane	*104*		*75 - 126*		*09/09/23 11:28*	*1*

Client Sample Results

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

Job ID: 400-242852-1

Client Sample ID: MW-5

Date Collected: 08/31/23 14:26
Date Received: 09/01/23 09:18

Lab Sample ID: 400-242852-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			09/09/23 11:47	1
Toluene	<1.0		1.0		ug/L			09/09/23 11:47	1
Ethylbenzene	<1.0		1.0		ug/L			09/09/23 11:47	1
Xylenes, Total	<10		10		ug/L			09/09/23 11:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*64 - 132*		*09/09/23 11:47*	*1*
4-Bromofluorobenzene	*84*		*72 - 130*		*09/09/23 11:47*	*1*
Dibromofluoromethane	*106*		*75 - 126*		*09/09/23 11:47*	*1*

Client Sample Results

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

Job ID: 400-242852-1

Client Sample ID: MW-6

Date Collected: 08/31/23 14:15
Date Received: 09/01/23 09:18

Lab Sample ID: 400-242852-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			09/09/23 12:07	1
Toluene	<1.0		1.0		ug/L			09/09/23 12:07	1
Ethylbenzene	<1.0		1.0		ug/L			09/09/23 12:07	1
Xylenes, Total	<10		10		ug/L			09/09/23 12:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*64 - 132*		*09/09/23 12:07*	*1*
4-Bromofluorobenzene	*88*		*72 - 130*		*09/09/23 12:07*	*1*
Dibromofluoromethane	*107*		*75 - 126*		*09/09/23 12:07*	*1*

Client Sample Results

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

Job ID: 400-242852-1

Client Sample ID: MW-7

Date Collected: 08/31/23 14:43
Date Received: 09/01/23 09:18

Lab Sample ID: 400-242852-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			09/09/23 12:26	1
Toluene	<1.0		1.0		ug/L			09/09/23 12:26	1
Ethylbenzene	<1.0		1.0		ug/L			09/09/23 12:26	1
Xylenes, Total	<10		10		ug/L			09/09/23 12:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*64 - 132*		*09/09/23 12:26*	*1*
4-Bromofluorobenzene	*87*		*72 - 130*		*09/09/23 12:26*	*1*
Dibromofluoromethane	*110*		*75 - 126*		*09/09/23 12:26*	*1*

Client Sample Results

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

Job ID: 400-242852-1

Client Sample ID: MW-8

Date Collected: 08/31/23 14:35
Date Received: 09/01/23 09:18

Lab Sample ID: 400-242852-7

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			09/09/23 12:45	1
Toluene	<1.0		1.0		ug/L			09/09/23 12:45	1
Ethylbenzene	<1.0		1.0		ug/L			09/09/23 12:45	1
Xylenes, Total	<10		10		ug/L			09/09/23 12:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*64 - 132*		*09/09/23 12:45*	*1*
4-Bromofluorobenzene	*84*		*72 - 130*		*09/09/23 12:45*	*1*
Dibromofluoromethane	*102*		*75 - 126*		*09/09/23 12:45*	*1*

Client Sample Results

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

Job ID: 400-242852-1

Client Sample ID: DUP-01

Date Collected: 08/31/23 12:00
Date Received: 09/01/23 09:18

Lab Sample ID: 400-242852-8

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			09/09/23 13:05	1
Toluene	<1.0		1.0		ug/L			09/09/23 13:05	1
Ethylbenzene	<1.0		1.0		ug/L			09/09/23 13:05	1
Xylenes, Total	<10		10		ug/L			09/09/23 13:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*64 - 132*		*09/09/23 13:05*	*1*
4-Bromofluorobenzene	*87*		*72 - 130*		*09/09/23 13:05*	*1*
Dibromofluoromethane	*106*		*75 - 126*		*09/09/23 13:05*	*1*

Client Sample Results

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

Job ID: 400-242852-1

Client Sample ID: TRIP BLANK

Date Collected: 08/31/23 12:00
Date Received: 09/01/23 09:18

Lab Sample ID: 400-242852-9

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			09/09/23 11:09	1
Toluene	<1.0		1.0		ug/L			09/09/23 11:09	1
Ethylbenzene	<1.0		1.0		ug/L			09/09/23 11:09	1
Xylenes, Total	<10		10		ug/L			09/09/23 11:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*64 - 132*		*09/09/23 11:09*	*1*
4-Bromofluorobenzene	*83*		*72 - 130*		*09/09/23 11:09*	*1*
Dibromofluoromethane	*98*		*75 - 126*		*09/09/23 11:09*	*1*

Definitions/Glossary

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

Job ID: 400-242852-1

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: 400-242852-1

Client Sample ID: MW-1R
Date Collected: 08/31/23 13:40
Date Received: 09/01/23 09:18

Lab Sample ID: 400-242852-1
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	8260D		1	5 mL	5 mL	640362	09/09/23 09:31	WPD	EET PEN

Client Sample ID: MW-3
Date Collected: 08/31/23 13:52
Date Received: 09/01/23 09:18

Lab Sample ID: 400-242852-2
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	8260D		1	5 mL	5 mL	640362	09/09/23 09:51	WPD	EET PEN

Client Sample ID: MW-4
Date Collected: 08/31/23 14:05
Date Received: 09/01/23 09:18

Lab Sample ID: 400-242852-3
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	8260D		1	5 mL	5 mL	640362	09/09/23 11:28	WPD	EET PEN

Client Sample ID: MW-5
Date Collected: 08/31/23 14:26
Date Received: 09/01/23 09:18

Lab Sample ID: 400-242852-4
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	8260D		1	5 mL	5 mL	640362	09/09/23 11:47	WPD	EET PEN

Client Sample ID: MW-6
Date Collected: 08/31/23 14:15
Date Received: 09/01/23 09:18

Lab Sample ID: 400-242852-5
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	8260D		1	5 mL	5 mL	640362	09/09/23 12:07	WPD	EET PEN

Client Sample ID: MW-7
Date Collected: 08/31/23 14:43
Date Received: 09/01/23 09:18

Lab Sample ID: 400-242852-6
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	8260D		1	5 mL	5 mL	640362	09/09/23 12:26	WPD	EET PEN

Client Sample ID: MW-8
Date Collected: 08/31/23 14:35
Date Received: 09/01/23 09:18

Lab Sample ID: 400-242852-7
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	8260D		1	5 mL	5 mL	640362	09/09/23 12:45	WPD	EET PEN

Lab Chronicle

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

Job ID: 400-242852-1

Client Sample ID: DUP-01
Date Collected: 08/31/23 12:00
Date Received: 09/01/23 09:18

Lab Sample ID: 400-242852-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	640362	09/09/23 13:05	WPD	EET PEN

Client Sample ID: TRIP BLANK
Date Collected: 08/31/23 12:00
Date Received: 09/01/23 09:18

Lab Sample ID: 400-242852-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	640362	09/09/23 11:09	WPD	EET PEN

Client Sample ID: Method Blank
Date Collected: N/A
Date Received: N/A

Lab Sample ID: MB 400-640362/4
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	8260D		1	5 mL	5 mL	640362	09/09/23 07:35	WPD	EET PEN

Client Sample ID: Lab Control Sample
Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCS 400-640362/1002
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	8260D		1	5 mL	5 mL	640362	09/09/23 06:52	WPD	EET PEN

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: 400-242852-1

GC/MS VOA

Analysis Batch: 640362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-242852-1	MW-1R	Total/NA	Water	8260D	
400-242852-2	MW-3	Total/NA	Water	8260D	
400-242852-3	MW-4	Total/NA	Water	8260D	
400-242852-4	MW-5	Total/NA	Water	8260D	
400-242852-5	MW-6	Total/NA	Water	8260D	
400-242852-6	MW-7	Total/NA	Water	8260D	
400-242852-7	MW-8	Total/NA	Water	8260D	
400-242852-8	DUP-01	Total/NA	Water	8260D	
400-242852-9	TRIP BLANK	Total/NA	Water	8260D	
MB 400-640362/4	Method Blank	Total/NA	Water	8260D	
LCS 400-640362/1002	Lab Control Sample	Total/NA	Water	8260D	

QC Sample Results

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

Job ID: 400-242852-1

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

Lab Sample ID: MB 400-640362/4
Matrix: Water
Analysis Batch: 640362

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			09/09/23 07:35	1
Toluene	<1.0		1.0		ug/L			09/09/23 07:35	1
Ethylbenzene	<1.0		1.0		ug/L			09/09/23 07:35	1
Xylenes, Total	<10		10		ug/L			09/09/23 07:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*64 - 132*		*09/09/23 07:35*	*1*
4-Bromofluorobenzene	*81*		*72 - 130*		*09/09/23 07:35*	*1*
Dibromofluoromethane	*104*		*75 - 126*		*09/09/23 07:35*	*1*

Lab Sample ID: LCS 400-640362/1002
Matrix: Water
Analysis Batch: 640362

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	43.8		ug/L		88	70 - 130
Toluene	50.0	43.8		ug/L		88	70 - 130
Ethylbenzene	50.0	41.6		ug/L		83	70 - 130
Xylenes, Total	100	81.8		ug/L		82	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*90*		*67 - 134*
Toluene-d8 (Surr)	*95*		*64 - 132*
4-Bromofluorobenzene	*85*		*72 - 130*
Dibromofluoromethane	*94*		*75 - 126*

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

400-242852 COC

Chain of Custody Record

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Client Information	Sampler: Carl Lehman	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-122719-41348.3
Client Contact: Joe Wiley	Phone: 470 760 9733	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin: NM	Page: Page 3 of 3
Company: El Paso Energy Corporation	PWSID:			Job #:
Address: 1001 Louisiana Street Room S1905B	Due Date Requested:			
City: Houston	TAT Requested (days): Standard			
State, Zip: TX, 77002	Compliance Project: Δ Yes Δ No			
Phone:	PO #: ~~WD104033~~ WD1040034			
Email: joe wiley@kindermorgan.com	WO #: W-ERG-STW-08/12/23-GCU124E ~~GCU #142E_ERG_ARF_04 26 2023~~			
Project Name: ~~GCU Com A #142E.00~~ GCU 124E	Project #: ~~40015823~~			
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)	8260D - BTEX - 8260	8270E_SIM - Project Specific PAHs	Total Number of containers	Special Instructions/Note:
			Preservation Code:			A	N		
MW-1R	8/31/23	1340	G	Water		2			
MW-3	8/31/23	1352	G	Water		2			
MW-4	8/31/23	1405	G	Water		2			
MW-5	8/31/23	1426	G	Water		2			
MW-6	8/31/23	1415	G	W		2			
MW-7	8/31/23	1443	G	W		2			
MW-8	8/31/23	1435	G	W		2			
DUP-01	8/31/23	—	G	W		2			
Trip Blank	—	—	—	W		2			

0.00 0.00 0.00 0.00

SHIPPING:
SPECIAL:
HANDLING:
0.00 TOTAL:

Date: 28Aug23
Wgt: 10.00 LBS
DV:

Ref: S400-122718
Dep:

SVC.: PRIORITY OVERNIGHT
TRCK: 6339 6594 9532

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 _____ Month

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
[signature]	8/31/23 1640	Stantec	BP	9/1/23 918	
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: 9.4°C IR10

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc Job Number: 400-242852-1

Login Number: 242852 **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	4.4°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").	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: 400-242852-1
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	06-30-24
ANAB	ISO/IEC 17025	L2471	02-22-26
Arkansas DEQ	State	88-00689	08-01-24
California	State	2510	06-30-24
Florida	NELAP	E81010	06-30-24
Georgia	State	E81010(FL)	06-30-24
Illinois	NELAP	200041	10-09-23
Kansas	NELAP	E-10253	10-31-23
Kentucky (UST)	State	53	06-30-24
Louisiana (All)	NELAP	30976	06-30-24
Louisiana (DW)	State	LA017	12-31-23
Maryland	State	233	09-30-23
North Carolina (WW/SW)	State	314	12-31-23
Oklahoma	NELAP	9810	12-31-23
Pennsylvania	NELAP	68-00467	01-31-24
South Carolina	State	96026	06-30-24
Tennessee	State	TN02907	06-30-24
Texas	NELAP	T104704286	09-30-23
US Fish & Wildlife	US Federal Programs	A22340	06-30-24
USDA	US Federal Programs	P330-21-00056	05-17-24
USDA	US Federal Programs	FLGNV23001	01-08-26
Virginia	NELAP	460166	06-14-24
West Virginia DEP	State	136	03-31-24

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 12/4/2023 9:56:14 AM

JOB DESCRIPTION

Gallegos Canyon Unit #124E.00

JOB NUMBER

400-246821-1

Eurofins Pensacola
3355 McLemore Drive
Pensacola FL 32514

See page two for job notes and contact information.

Eurofins Pensacola

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

Authorization

Generated
12/4/2023 9:56:14 AM

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(850)471-6222

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

Laboratory Job ID: 400-246821-1

Table of Contents

Case Narrative

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

Job ID: 400-246821-1

Job ID: 400-246821-1

Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-246821-1

Receipt
The samples were received on 11/15/2023 8:54 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 1.0º C.

GC/MS VOA
Method 8260D: The matrix spike (MS) recovery for analytical batch 400-651430 was outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

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

Detection Summary

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

Job ID: 400-246821-1

Client Sample ID: MW-1R — Lab Sample ID: 400-246821-1

No Detections.

Client Sample ID: MW-3 — Lab Sample ID: 400-246821-2

No Detections.

Client Sample ID: MW-4 — Lab Sample ID: 400-246821-3

No Detections.

Client Sample ID: MW-5 — Lab Sample ID: 400-246821-4

No Detections.

Client Sample ID: MW-6 — Lab Sample ID: 400-246821-5

No Detections.

Client Sample ID: MW-7 — Lab Sample ID: 400-246821-6

No Detections.

Client Sample ID: MW-8 — Lab Sample ID: 400-246821-7

No Detections.

Client Sample ID: DUP-01 — Lab Sample ID: 400-246821-8

No Detections.

Client Sample ID: TB-01 — Lab Sample ID: 400-246821-9

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: 400-246821-1

Method	Method Description	Protocol	Laboratory
8260D	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: 400-246821-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-246821-1	MW-1R	Water	11/13/23 14:25	11/15/23 08:54
400-246821-2	MW-3	Water	11/13/23 14:45	11/15/23 08:54
400-246821-3	MW-4	Water	11/13/23 14:51	11/15/23 08:54
400-246821-4	MW-5	Water	11/13/23 14:58	11/15/23 08:54
400-246821-5	MW-6	Water	11/13/23 15:05	11/15/23 08:54
400-246821-6	MW-7	Water	11/13/23 15:15	11/15/23 08:54
400-246821-7	MW-8	Water	11/13/23 15:20	11/15/23 08:54
400-246821-8	DUP-01	Water	11/13/23 12:00	11/15/23 08:54
400-246821-9	TB-01	Water	11/13/23 14:00	11/15/23 08:54

Client Sample Results

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

Job ID: 400-246821-1

Client Sample ID: MW-1R

Date Collected: 11/13/23 14:25
Date Received: 11/15/23 08:54

Lab Sample ID: 400-246821-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/22/23 11:22	1
Ethylbenzene	<1.0		1.0		ug/L			11/22/23 11:22	1
Toluene	<1.0		1.0		ug/L			11/22/23 11:22	1
Xylenes, Total	<10		10		ug/L			11/22/23 11:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*87*		*72 - 130*		*11/22/23 11:22*	*1*
Dibromofluoromethane	*106*		*75 - 126*		*11/22/23 11:22*	*1*
Toluene-d8 (Surr)	*98*		*64 - 132*		*11/22/23 11:22*	*1*

Client Sample Results

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

Job ID: 400-246821-1

Client Sample ID: MW-3

Date Collected: 11/13/23 14:45
Date Received: 11/15/23 08:54

Lab Sample ID: 400-246821-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/22/23 12:55	1
Ethylbenzene	<1.0		1.0		ug/L			11/22/23 12:55	1
Toluene	<1.0		1.0		ug/L			11/22/23 12:55	1
Xylenes, Total	<10		10		ug/L			11/22/23 12:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*89*		*72 - 130*		*11/22/23 12:55*	*1*
Dibromofluoromethane	*104*		*75 - 126*		*11/22/23 12:55*	*1*
Toluene-d8 (Surr)	*98*		*64 - 132*		*11/22/23 12:55*	*1*

Client Sample Results

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

Job ID: 400-246821-1

Client Sample ID: MW-4

Date Collected: 11/13/23 14:51
Date Received: 11/15/23 08:54

Lab Sample ID: 400-246821-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/22/23 13:14	1
Ethylbenzene	<1.0		1.0		ug/L			11/22/23 13:14	1
Toluene	<1.0		1.0		ug/L			11/22/23 13:14	1
Xylenes, Total	<10		10		ug/L			11/22/23 13:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*89*		*72 - 130*		*11/22/23 13:14*	*1*
Dibromofluoromethane	*103*		*75 - 126*		*11/22/23 13:14*	*1*
Toluene-d8 (Surr)	*96*		*64 - 132*		*11/22/23 13:14*	*1*

Client Sample Results

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

Job ID: 400-246821-1

Client Sample ID: MW-5

Date Collected: 11/13/23 14:58
Date Received: 11/15/23 08:54

Lab Sample ID: 400-246821-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/22/23 13:32	1
Ethylbenzene	<1.0		1.0		ug/L			11/22/23 13:32	1
Toluene	<1.0		1.0		ug/L			11/22/23 13:32	1
Xylenes, Total	<10		10		ug/L			11/22/23 13:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*88*		*72 - 130*		*11/22/23 13:32*	*1*
Dibromofluoromethane	*109*		*75 - 126*		*11/22/23 13:32*	*1*
Toluene-d8 (Surr)	*94*		*64 - 132*		*11/22/23 13:32*	*1*

Client Sample Results

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

Job ID: 400-246821-1

Client Sample ID: MW-6

Date Collected: 11/13/23 15:05
Date Received: 11/15/23 08:54

Lab Sample ID: 400-246821-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/22/23 13:51	1
Ethylbenzene	<1.0		1.0		ug/L			11/22/23 13:51	1
Toluene	<1.0		1.0		ug/L			11/22/23 13:51	1
Xylenes, Total	<10		10		ug/L			11/22/23 13:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*87*		*72 - 130*		*11/22/23 13:51*	*1*
Dibromofluoromethane	*106*		*75 - 126*		*11/22/23 13:51*	*1*
Toluene-d8 (Surr)	*97*		*64 - 132*		*11/22/23 13:51*	*1*

Client Sample Results

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

Job ID: 400-246821-1

Client Sample ID: MW-7

Date Collected: 11/13/23 15:15
Date Received: 11/15/23 08:54

Lab Sample ID: 400-246821-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/22/23 14:09	1
Ethylbenzene	<1.0		1.0		ug/L			11/22/23 14:09	1
Toluene	<1.0		1.0		ug/L			11/22/23 14:09	1
Xylenes, Total	<10		10		ug/L			11/22/23 14:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*88*		*72 - 130*		*11/22/23 14:09*	*1*
Dibromofluoromethane	*108*		*75 - 126*		*11/22/23 14:09*	*1*
Toluene-d8 (Surr)	*96*		*64 - 132*		*11/22/23 14:09*	*1*

Client Sample Results

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

Job ID: 400-246821-1

Client Sample ID: MW-8

Date Collected: 11/13/23 15:20
Date Received: 11/15/23 08:54

Lab Sample ID: 400-246821-7

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/22/23 14:28	1
Ethylbenzene	<1.0		1.0		ug/L			11/22/23 14:28	1
Toluene	<1.0		1.0		ug/L			11/22/23 14:28	1
Xylenes, Total	<10		10		ug/L			11/22/23 14:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*88*		*72 - 130*		*11/22/23 14:28*	*1*
Dibromofluoromethane	*107*		*75 - 126*		*11/22/23 14:28*	*1*
Toluene-d8 (Surr)	*95*		*64 - 132*		*11/22/23 14:28*	*1*

Client Sample Results

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

Job ID: 400-246821-1

Client Sample ID: DUP-01

Date Collected: 11/13/23 12:00
Date Received: 11/15/23 08:54

Lab Sample ID: 400-246821-8

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/22/23 14:47	1
Ethylbenzene	<1.0		1.0		ug/L			11/22/23 14:47	1
Toluene	<1.0		1.0		ug/L			11/22/23 14:47	1
Xylenes, Total	<10		10		ug/L			11/22/23 14:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*87*		*72 - 130*		*11/22/23 14:47*	*1*
Dibromofluoromethane	*106*		*75 - 126*		*11/22/23 14:47*	*1*
Toluene-d8 (Surr)	*98*		*64 - 132*		*11/22/23 14:47*	*1*

Client Sample Results

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

Job ID: 400-246821-1

Client Sample ID: TB-01

Date Collected: 11/13/23 14:00
Date Received: 11/15/23 08:54

Lab Sample ID: 400-246821-9

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/22/23 12:37	1
Ethylbenzene	<1.0		1.0		ug/L			11/22/23 12:37	1
Toluene	<1.0		1.0		ug/L			11/22/23 12:37	1
Xylenes, Total	<10		10		ug/L			11/22/23 12:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*91*		*72 - 130*		*11/22/23 12:37*	*1*
Dibromofluoromethane	*101*		*75 - 126*		*11/22/23 12:37*	*1*
Toluene-d8 (Surr)	*98*		*64 - 132*		*11/22/23 12:37*	*1*

Definitions/Glossary

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

Job ID: 400-246821-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

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: 400-246821-1

Client Sample ID: MW-1R
Date Collected: 11/13/23 14:25
Date Received: 11/15/23 08:54

Lab Sample ID: 400-246821-1
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	8260D		1	5 mL	5 mL	651430	11/22/23 11:22	CAR	EET PEN

Client Sample ID: MW-3
Date Collected: 11/13/23 14:45
Date Received: 11/15/23 08:54

Lab Sample ID: 400-246821-2
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	8260D		1	5 mL	5 mL	651430	11/22/23 12:55	CAR	EET PEN

Client Sample ID: MW-4
Date Collected: 11/13/23 14:51
Date Received: 11/15/23 08:54

Lab Sample ID: 400-246821-3
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	8260D		1	5 mL	5 mL	651430	11/22/23 13:14	CAR	EET PEN

Client Sample ID: MW-5
Date Collected: 11/13/23 14:58
Date Received: 11/15/23 08:54

Lab Sample ID: 400-246821-4
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	8260D		1	5 mL	5 mL	651430	11/22/23 13:32	CAR	EET PEN

Client Sample ID: MW-6
Date Collected: 11/13/23 15:05
Date Received: 11/15/23 08:54

Lab Sample ID: 400-246821-5
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	8260D		1	5 mL	5 mL	651430	11/22/23 13:51	CAR	EET PEN

Client Sample ID: MW-7
Date Collected: 11/13/23 15:15
Date Received: 11/15/23 08:54

Lab Sample ID: 400-246821-6
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	8260D		1	5 mL	5 mL	651430	11/22/23 14:09	CAR	EET PEN

Client Sample ID: MW-8
Date Collected: 11/13/23 15:20
Date Received: 11/15/23 08:54

Lab Sample ID: 400-246821-7
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	8260D		1	5 mL	5 mL	651430	11/22/23 14:28	CAR	EET PEN

Lab Chronicle

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

Job ID: 400-246821-1

Client Sample ID: DUP-01
Date Collected: 11/13/23 12:00
Date Received: 11/15/23 08:54

Lab Sample ID: 400-246821-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	651430	11/22/23 14:47	CAR	EET PEN

Client Sample ID: TB-01
Date Collected: 11/13/23 14:00
Date Received: 11/15/23 08:54

Lab Sample ID: 400-246821-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	651430	11/22/23 12:37	CAR	EET PEN

Client Sample ID: Method Blank
Date Collected: N/A
Date Received: N/A

Lab Sample ID: MB 400-651430/5
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	8260D		1	5 mL	5 mL	651430	11/22/23 11:04	CAR	EET PEN

Client Sample ID: Lab Control Sample
Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCS 400-651430/1001
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	8260D		1	5 mL	5 mL	651430	11/22/23 09:31	CAR	EET PEN

Client Sample ID: MW-1R
Date Collected: 11/13/23 14:25
Date Received: 11/15/23 08:54

Lab Sample ID: 400-246821-1 MS
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	8260D		1	5 mL	5 mL	651430	11/22/23 11:41	CAR	EET PEN

Client Sample ID: MW-1R
Date Collected: 11/13/23 14:25
Date Received: 11/15/23 08:54

Lab Sample ID: 400-246821-1 MSD
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	8260D		1	5 mL	5 mL	651430	11/22/23 12:00	CAR	EET PEN

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: 400-246821-1

GC/MS VOA

Analysis Batch: 651430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-246821-1	MW-1R	Total/NA	Water	8260D	
400-246821-2	MW-3	Total/NA	Water	8260D	
400-246821-3	MW-4	Total/NA	Water	8260D	
400-246821-4	MW-5	Total/NA	Water	8260D	
400-246821-5	MW-6	Total/NA	Water	8260D	
400-246821-6	MW-7	Total/NA	Water	8260D	
400-246821-7	MW-8	Total/NA	Water	8260D	
400-246821-8	DUP-01	Total/NA	Water	8260D	
400-246821-9	TB-01	Total/NA	Water	8260D	
MB 400-651430/5	Method Blank	Total/NA	Water	8260D	
LCS 400-651430/1001	Lab Control Sample	Total/NA	Water	8260D	
400-246821-1 MS	MW-1R	Total/NA	Water	8260D	
400-246821-1 MSD	MW-1R	Total/NA	Water	8260D	

QC Sample Results

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

Job ID: 400-246821-1

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

Lab Sample ID: MB 400-651430/5
Matrix: Water
Analysis Batch: 651430

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/22/23 11:04	1
Ethylbenzene	<1.0		1.0		ug/L			11/22/23 11:04	1
Toluene	<1.0		1.0		ug/L			11/22/23 11:04	1
Xylenes, Total	<10		10		ug/L			11/22/23 11:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*90*		*72 - 130*		*11/22/23 11:04*	*1*
Dibromofluoromethane	*104*		*75 - 126*		*11/22/23 11:04*	*1*
Toluene-d8 (Surr)	*99*		*64 - 132*		*11/22/23 11:04*	*1*

Lab Sample ID: LCS 400-651430/1001
Matrix: Water
Analysis Batch: 651430

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	25.0	23.9		ug/L		96	70 - 130
m-Xylene & p-Xylene	25.0	22.3		ug/L		89	70 - 130
o-Xylene	25.0	20.1		ug/L		80	70 - 130
Ethylbenzene	25.0	22.9		ug/L		92	70 - 130
Toluene	25.0	23.3		ug/L		93	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*67 - 134*
4-Bromofluorobenzene	*93*		*72 - 130*
Dibromofluoromethane	*93*		*75 - 126*
Toluene-d8 (Surr)	*103*		*64 - 132*

Lab Sample ID: 400-246821-1 MS
Matrix: Water
Analysis Batch: 651430

Client Sample ID: MW-1R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<1.0		25.0	18.5		ug/L		74	56 - 142
m-Xylene & p-Xylene	<5.0		25.0	15.4		ug/L		62	57 - 130
o-Xylene	<5.0	F1	25.0	14.3	F1	ug/L		57	61 - 130
Ethylbenzene	<1.0		25.0	16.1		ug/L		64	58 - 131
Toluene	<1.0		25.0	16.9		ug/L		68	65 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*67 - 134*
4-Bromofluorobenzene	*94*		*72 - 130*
Dibromofluoromethane	*95*		*75 - 126*
Toluene-d8 (Surr)	*100*		*64 - 132*

QC Sample Results

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

Job ID: 400-246821-1

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

Lab Sample ID: 400-246821-1 MSD
Matrix: Water
Analysis Batch: 651430

Client Sample ID: MW-1R
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		25.0	19.4		ug/L		77	56 - 142	4	30
m-Xylene & p-Xylene	<5.0		25.0	16.1		ug/L		64	57 - 130	4	30
o-Xylene	<5.0	F1	25.0	15.4		ug/L		61	61 - 130	7	30
Ethylbenzene	<1.0		25.0	16.9		ug/L		67	58 - 131	5	30
Toluene	<1.0		25.0	17.6		ug/L		70	65 - 130	4	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*67 - 134*
4-Bromofluorobenzene	*96*		*72 - 130*
Dibromofluoromethane	*96*		*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

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400-246821 COC

Client Information	Sampler: SRC/ERB	Lab PM: Whitmire, Cheyenne R	Carrier:	COC No: 400-124031-41346.1
Client Contact: Joe Wiley	Phone: 515-253-0830	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of:	Page: Page 1 of 2 ERB
Company: El Paso Energy Corporation	PWSID:			Job #:
Address: 1001 Louisiana Street Room S1905B	Due Date Requested: STD			
City: Houston	TAT Requested (days):			
State, Zip: TX, 77002	Compliance Project: Δ Yes Δ No			
Phone:	PO #: WD1040034			
Email: joe.wiley@kindermorgan.com	WO #: GCU#124_ERG_ARF_10_24_2023			
Project Name: Gallegos Canyon Unit #124E.00	Project #: 40015823			
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)	8260D - BTEX - 8260	8270E_LL - Project Specific PAHs	Total Number of containers	Special Instructions/Note:
			Preservation Code:			A	N		
MW-1R	11/13/2023	1425	G	Water	N	X			
MW-3	11/13/2023	1445	G	Water	N	X			
MW-4	11/13/2023	1451	G	Water	N	X			
MW-5	11/13/2023	1458	G	Water	N	X			
MW-6	11/13/2023	1505	G	Water	N	X			
MW-7	11/13/2023	1515	G	Water	N	X			
MW-8	11/13/2023	1520	G	Water	N	X			
DUP-01	11/13/2023		G	Water	N	X			
TB-01	11/13/2023	1400	G	Water	N	X			
				Water					
				Water					

ERB

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		11/14/2023 1345	STN	BP	11/15/23 854	
2						
3						

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.5° C SRC

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc Job Number: 400-246821-1

Login Number: 246821 **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	1.0°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: 400-246821-1
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	06-30-24
ANAB	ISO/IEC 17025	L2471	02-22-26
Arkansas DEQ	State	88-00689	08-01-24
California	State	2510	06-30-24
Florida	NELAP	E81010	06-30-24
Georgia	State	E81010(FL)	06-30-24
Illinois	NELAP	200041	10-09-24
Kansas	NELAP	E-10253	10-31-24
Kentucky (UST)	State	53	06-30-24
Louisiana (All)	NELAP	30976	06-30-24
Louisiana (DW)	State	LA017	12-31-23
North Carolina (WW/SW)	State	314	12-31-23
Oklahoma	NELAP	9810	08-31-24
Pennsylvania	NELAP	68-00467	01-31-24
South Carolina	State	96026	06-30-24
Tennessee	State	TN02907	06-30-24
Texas	NELAP	T104704286	09-30-24
US Fish & Wildlife	US Federal Programs	A22340	06-30-24
USDA	US Federal Programs	P330-21-00056	05-17-24
USDA	US Federal Programs	FLGNV23001	01-08-26
Virginia	NELAP	460166	06-14-24
West Virginia DEP	State	136	03-31-24
West Virginia DEP	State	136	03-31-24

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 11/29/2023 10:48:12 PM

JOB DESCRIPTION

Gallegos Canyon Unit #124E.00

JOB NUMBER

400-246914-1

Eurofins Pensacola
3355 McLemore Drive
Pensacola FL 32514

See page two for job notes and contact information.

Eurofins Pensacola

Job Notes

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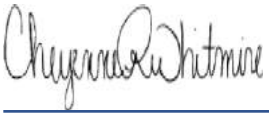
The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed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

Authorization



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11/29/2023 10:48:12 PM

Authorized for release by
Cheyenne Whitmire, Project Manager II
Cheyenne.Whitmire@et.eurofinsus.com
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Client: Stantec Consulting Services Inc
Project/Site: Gallegos Canyon Unit #124E.00

Laboratory Job ID: 400-246914-1

Table of Contents

Detection Summary

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

Job ID: 400-246914-1

Client Sample ID: MW-1R
Lab Sample ID: 400-246914-1

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: 400-246914-1

Method	Method Description	Protocol	Laboratory
8270E SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	EET PEN
3510C	Liquid-Liquid Extraction (Separatory Funnel)	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: 400-246914-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-246914-1	MW-1R	Water	11/14/23 16:20	11/16/23 10:27

Client Sample Results

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

Job ID: 400-246914-1

Client Sample ID: MW-1R
Date Collected: 11/14/23 16:20
Date Received: 11/16/23 10:27

Lab Sample ID: 400-246914-1
Matrix: Water

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.21		0.21		ug/L		11/21/23 11:22	11/24/23 22:50	1
Naphthalene	<0.21		0.21		ug/L		11/21/23 11:22	11/24/23 22:50	1
1-Methylnaphthalene	<0.21		0.21		ug/L		11/21/23 11:22	11/24/23 22:50	1
2-Methylnaphthalene	<0.21		0.21		ug/L		11/21/23 11:22	11/24/23 22:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*77*		*18 - 147*	*11/21/23 11:22*	*11/24/23 22:50*	*1*
2-Fluorobiphenyl	*73*		*15 - 128*	*11/21/23 11:22*	*11/24/23 22:50*	*1*
Nitrobenzene-d5	*62*		*10 - 144*	*11/21/23 11:22*	*11/24/23 22:50*	*1*

Definitions/Glossary

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

Job ID: 400-246914-1

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: 400-246914-1

Client Sample ID: MW-1R
Date Collected: 11/14/23 16:20
Date Received: 11/16/23 10:27

Lab Sample ID: 400-246914-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			241 mL	1 mL	651274	11/21/23 11:22	AMM	EET PEN
Total/NA	Analysis	8270E SIM		1	0.4 mL	0.4 mL	651501	11/24/23 22:50	S1B	EET PEN

Client Sample ID: Method Blank
Date Collected: N/A
Date Received: N/A

Lab Sample ID: MB 400-651274/1-A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			250 mL	1 mL	651274	11/21/23 11:22	AMM	EET PEN
Total/NA	Analysis	8270E SIM		1	0.4 mL	0.4 mL	651501	11/24/23 19:05	S1B	EET PEN

Client Sample ID: Lab Control Sample
Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCS 400-651274/2-A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			250 mL	1 mL	651274	11/21/23 11:22	AMM	EET PEN
Total/NA	Analysis	8270E SIM		1	0.4 mL	0.4 mL	651501	11/24/23 19:26	S1B	EET PEN

Client Sample ID: Lab Control Sample Dup
Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCSD 400-651274/3-A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			250 mL	1 mL	651274	11/21/23 11:22	AMM	EET PEN
Total/NA	Analysis	8270E SIM		1	0.4 mL	0.4 mL	651501	11/24/23 19:46	S1B	EET PEN

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: 400-246914-1

GC/MS Semi VOA

Prep Batch: 651274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-246914-1	MW-1R	Total/NA	Water	3510C	
MB 400-651274/1-A	Method Blank	Total/NA	Water	3510C	
LCS 400-651274/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 400-651274/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 651501

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-246914-1	MW-1R	Total/NA	Water	8270E SIM	651274
MB 400-651274/1-A	Method Blank	Total/NA	Water	8270E SIM	651274
LCS 400-651274/2-A	Lab Control Sample	Total/NA	Water	8270E SIM	651274
LCSD 400-651274/3-A	Lab Control Sample Dup	Total/NA	Water	8270E SIM	651274

QC Sample Results

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

Job ID: 400-246914-1

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 400-651274/1-A
Matrix: Water
Analysis Batch: 651501

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 651274

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.20		0.20		ug/L		11/21/23 11:22	11/24/23 19:05	1
Naphthalene	<0.20		0.20		ug/L		11/21/23 11:22	11/24/23 19:05	1
1-Methylnaphthalene	<0.20		0.20		ug/L		11/21/23 11:22	11/24/23 19:05	1
2-Methylnaphthalene	<0.20		0.20		ug/L		11/21/23 11:22	11/24/23 19:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*112*		*18 - 147*	*11/21/23 11:22*	*11/24/23 19:05*	*1*
2-Fluorobiphenyl	*109*		*15 - 128*	*11/21/23 11:22*	*11/24/23 19:05*	*1*
Nitrobenzene-d5	*91*		*10 - 144*	*11/21/23 11:22*	*11/24/23 19:05*	*1*

Lab Sample ID: LCS 400-651274/2-A
Matrix: Water
Analysis Batch: 651501

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 651274

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzo[a]pyrene			2.00	1.97		ug/L		98	40 - 140		
Naphthalene			2.00	1.79		ug/L		90	40 - 140		
1-Methylnaphthalene			2.00	1.81		ug/L		90	40 - 140		
2-Methylnaphthalene			2.00	1.83		ug/L		91	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Terphenyl-d14	*92*		*18 - 147*
2-Fluorobiphenyl	*94*		*15 - 128*
Nitrobenzene-d5	*79*		*10 - 144*

Lab Sample ID: LCSD 400-651274/3-A
Matrix: Water
Analysis Batch: 651501

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 651274

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzo[a]pyrene			2.00	1.85		ug/L		92	40 - 140	6	40
Naphthalene			2.00	1.68		ug/L		84	40 - 140	6	40
1-Methylnaphthalene			2.00	1.71		ug/L		85	40 - 140	6	40
2-Methylnaphthalene			2.00	1.77		ug/L		89	40 - 140	3	40

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Terphenyl-d14	*85*		*18 - 147*
2-Fluorobiphenyl	*87*		*15 - 128*
Nitrobenzene-d5	*73*		*10 - 144*

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

Chain of Custody Record

eurofins | Environment Testing

400-246914 COC

Client Information	Sampler: SRC/ERB	Lab PM: Whitmire, Cheyenne R		COC No: 400-124031-41346.2
Client Contact: Joe Wiley	Phone: 575-253-0830	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin:	Page: Page 2 of 2 ERB
Company: El Paso Energy Corporation	PWSID:			Job #:
Address: 1001 Louisiana Street Room S1905B	Due Date Requested: STP			
City: Houston	TAT Requested (days):			
State, Zip: TX, 77002	Compliance Project: Δ Yes Δ No			
Phone:	PO #: WD1040034			
Email: joe.wiley@kindermorgan.com	WO #: GCU#124_ERG_ARF_10_24_2023			
Project Name: Gallegos Canyon Unit #124E.00	Project #: 40015823			
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)	8260D - BTEX - 8260	8270E_LL - Project Specific PAHs	Total Number of containers	Special Instructions/Note:
			Preservation Codes:			A	N		
MW-1R	11/14/2023	1620	G	Water	N	N	X		
				Water					
				Water					
				Water					
				Water					
				Water					
				Water					
				Water					
				Water					
				Water					
				Water					

ERB

ERB

ERB

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
[signature]	11/15/2023 1130	SIN	BP	11/16/231027	
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: 0.0°C IR8

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc Job Number: 400-246914-1

Login Number: 246914 **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 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").	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: 400-246914-1
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	06-30-24
ANAB	ISO/IEC 17025	L2471	02-22-26
Arkansas DEQ	State	88-00689	08-01-24
California	State	2510	06-30-24
Florida	NELAP	E81010	06-30-24
Georgia	State	E81010(FL)	06-30-24
Illinois	NELAP	200041	10-09-24
Kansas	NELAP	E-10253	10-31-24
Kentucky (UST)	State	53	06-30-24
Louisiana (All)	NELAP	30976	06-30-24
Louisiana (DW)	State	LA017	12-31-23
North Carolina (WW/SW)	State	314	12-31-23
Oklahoma	NELAP	9810	08-31-24
Pennsylvania	NELAP	68-00467	01-31-24
South Carolina	State	96026	06-30-24
Tennessee	State	TN02907	06-30-24
Texas	NELAP	T104704286	09-30-24
US Fish & Wildlife	US Federal Programs	A22340	06-30-24
USDA	US Federal Programs	P330-21-00056	05-17-24
USDA	US Federal Programs	FLGNV23001	01-08-26
Virginia	NELAP	460166	06-14-24
West Virginia DEP	State	136	03-31-24
West Virginia DEP	State	136	03-31-24

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 325367

CONDITIONS

Operator:	OGRID:
El Paso Natural Gas Company, L.L.C 1001 Louisiana Street Houston, TX 77002	7046
	Action Number: 325367
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Review of the 2023 Annual Groundwater Report for GCU #124E: Accepted for the record. Incident on tribal land.	7/1/2024