



2024 ANNUAL GROUNDWATER REPORT – Canada Mesa

San Juan County, New Mexico

NMOCD Incident No.
nAUTOfAB000065

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ABBREVIATIONS

µg/L	micrograms per liter
bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene, and total xylenes
Envirotech	Envirotech, Inc.
EPA	United States Environmental Protection Agency
Eurofins	Eurofins Environment Testing Southeast, LLC
EPCGP	El Paso CGP Company
HydraSleeve	HydraSleeve™
LNAPL	light non-aqueous phase liquid
MDPE	mobile dual-phase extraction
NMOCD	New Mexico Oil Conservation Division
NMOSE	New Mexico Office of the State Engineer
NMWQCC	New Mexico Water Quality Control Commission
Stantec	Stantec Consulting Services Inc.

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1.0 INTRODUCTION

This 2024 Annual Groundwater Report has been prepared on behalf of El Paso CGP Company (EPCGP), a subsidiary of Kinder Morgan, Inc., by Stantec Consulting Services Inc. (Stantec). This report summarizes groundwater sampling and associated activities completed in 2024 at the Canada Mesa #2 site (Site; Meter Code 87640), located at Unit I, Section 24, Township 24 North, Range 6 West, in Rio Arriba County, New Mexico. The location of the Site is Latitude 36.296081, Longitude -107.414109, depicted in Figure 1. The Site has been assigned Incident Number nAUTOfAB000065 by the New Mexico Oil Conservation Division (NMOCD).

2.0 SITE BACKGROUND

Environmental remediation activities at the 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 NMOCD in correspondence dated November 30, 1995; and the NMOCD approval conditions were adopted into EPCGP's program methods. Formerly, the Site was operated by Merrion Oil & Gas Company and is no longer active.

Canada Mesa #2 is located on Federal land managed by the United States Bureau of Land Management. An initial site assessment was completed in July 1994, and an excavation to approximately 12 feet below ground surface (bgs) was completed in August 1994. Various site investigations have occurred since 1994. Monitoring wells were installed in 1995 (MW-1) and 2000 (MW-2 and MW-3). Monitoring wells MW-2 and MW-3 were abandoned in May 2016, ahead of Merrion Oil and Gas Company's reclamation activities. Monitoring wells MW2R, MW-3R, and MW-4 through MW-7 were installed in 2018 and monitoring wells MW-8 and MW-9 were installed in 2019. In 2022, monitoring wells MW-10 and MW-11 were installed. In July 2023, monitoring well MW-12 and test well TW-1 were installed. A detailed Site history is presented in Appendix A.

A Site Plan map depicting the locations of monitoring wells, soil borings, and current and historical site features is provided as Figure 2. Historically, light non-aqueous phase liquid (LNAPL) has been periodically encountered and recovered at the Site. Mobile dual-phase extraction (MDPE) events to evaluate enhancement of LNAPL recovery were conducted in 2018 and 2023. LNAPL is present at the Site, and manual recovery has been performed periodically since 2018. Currently, groundwater sampling of key monitoring wells not containing LNAPL is conducted on a semi-annual basis, and biennially from all EPCGP monitoring wells not containing LNAPL.

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3.0 GROUNDWATER SAMPLING ACTIVITIES

Pursuant to the Remediation Plan, Stantec provided field work notifications via email to NMOCD on May 7, 2024, and October 28, 2024, prior to initiating groundwater sampling activities at the Site. Copies of the 2024 NMOCD notifications are provided in Appendix B. On May 16, 2024, water levels were gauged at MW-1, MW-2R, MW-3R, and MW-4 through MW-12. Water levels were not measured during the November 2024 sampling event due to a malfunction with the oil-water interface probe. The presence or absence of LNAPL, and where present it's apparent in-well thickness, was confirmed with disposable bailers.

On May 16, 2024 and November 14, 2024, groundwater samples were collected from MW-2R, MW-3R, MW-5, MW-8, and MW-11. Groundwater samples were collected using HydraSleeve™ (HydraSleeve) no-purge groundwater sampling devices. The HydraSleeves were set during the previous sampling event using a suspension tether and stainless-steel weights. The HydraSleeves were positioned to collect a sample from the screened interval by setting the bottom of the sleeve approximately 0.5 foot above the bottom of the screened interval.

Groundwater samples were placed into laboratory-supplied sample containers, packed on ice, and shipped under standard chain-of-custody protocols to Eurofins Environment Testing Southeast, LLC, (Eurofins) in Pensacola, Florida where they were analyzed for BTEX using EPA Method 8260. One laboratory-supplied trip blank and one blind field duplicate were also collected during each groundwater sampling event.

The unused sample water was placed in a waste container and transported to the Envirotech, Inc. land farm (Envirotech) in Bloomfield, New Mexico for disposal. Wastewater disposal documentation for Envirotech is included as Appendix C.

4.0 LNAPL RECOVERY

As documented in EPCGP's letter dated January 5, 2021, EPCGP initiated quarterly LNAPL recovery activities beginning in the second calendar quarter of 2020. Documentation of NMOCD notification of site LNAPL recovery activities in 2024 is provided in Appendix B.

LNAPL recovery data is summarized in Table 1. LNAPL was observed and recovered from MW-4, and MW-9 during the March, May, September, and November LNAPL recovery site visits. Trace LNAPL was observed in MW-1 during the May, September, and November site visits.

During the groundwater sampling site visits in May and November, the recovered LNAPL was disposed of with wastewater generated during the monitoring well sampling activities. Recovered LNAPL from the March and September site visits was disposed at Envirotech (Appendix C).

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5.0 GROUNDWATER RESULTS

Historical groundwater analytical results and well gauging data are summarized in Tables 2 and 3, respectively. Groundwater analytical data maps (Figures 3 and 5) and a groundwater elevation contour map (Figure 4) summarize results of the 2024 groundwater sampling and gauging events. The groundwater analytical lab reports are included as Appendix D. The following summarizes the groundwater monitoring and sampling conducted during this reporting period:

- The groundwater elevations indicate the flow direction at the Site was generally to the northeast during 2024 (see Figure 4).
- LNAPL was observed in MW-1, MW-4, and MW-9 during the May and November 2024 groundwater events; therefore, no groundwater samples were collected at these locations.
- Concentrations of benzene were either below the New Mexico Water Quality Control Commission (NMWQCC) standard (10 micrograms per liter [µg/L]) or were not detected in each of the Site monitoring wells sampled in 2024.
- 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 2024.
- 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 2024.
- 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 2024.
- A field duplicate was collected from monitoring well MW-5 during both 2024 sampling events. There were no significant differences between the primary and duplicate samples in 2024.
- Detectable concentrations of BTEX constituents were not reported in the trip blanks collected and analyzed as part of the 2024 groundwater monitoring events.

2024 ANNUAL GROUNDWATER REPORT – CANADA MESA**6.0 REVISED NMOSE PERMIT**

As requested by the NMOCD on May 2, 2024, a revised permit for installation of monitoring well MW-12 and test well TW-1 was reissued by the New Mexico Office of the State Engineer (NMOSE), and is included as Appendix E.

7.0 PLANNED FUTURE ACTIVITIES

Quarterly site visits will continue at the Site in 2025 to facilitate removal of measurable LNAPL where it is present.

Groundwater monitoring events will also continue on a semi-annual basis in 2025. Groundwater samples will be collected from key monitoring wells not containing LNAPL on a semi-annual basis and analyzed for BTEX constituents using EPA Method 8260. A field duplicate and trip blank will also be collected during each groundwater sampling event. Sampling of all Site monitoring wells is conducted on a biennial basis, with the next site-wide sampling event to be conducted in the second calendar quarter of 2025.

The activities completed in 2025 and their results will be summarized in the 2025 Annual Report, to be submitted by April 1, 2026.

TABLES

TABLE 1 – LIGHT NON-AQUEOUS PHASE LIQUID RECOVERY SUMMARY

TABLE 2 – GROUNDWATER ANALYTICAL RESULTS

TABLE 3 – GROUNDWATER ELEVATION RESULTS

TABLE 1 - LIGHT NON-AQUEOUS PHASE LIQUID RECOVERY SUMMARY

Canada Mesa #2						
	Depth to LNAPL (Feet)	Depth to Water (Feet)	Measured Thickness (Feet)	LNAPL Recovered (gal)	Water Recovered (gal)	Recovery Type
Well ID - MW-1						
4/14/2016	34.74	35.17	0.43	0.61	0.00	manual
5/23/2016	ND	34.77	0.00	0.00	0.00	manual
6/17/2016	NM	NM	0.22	0.08	0.01	manual
7/17/2016	NM	NM	0.11	0.05	0.00	manual
8/19/2016	NM	NM	0.11	0.08	0.01	manual
9/24/2016	NM	NM	0.06	<0.01	<0.01	manual
10/13/2016	35.32	35.41	0.09	0.01	0.00	manual
11/15/2016	36.49	36.50	0.01	<0.01	<0.01	manual
12/14/2016	36.37	36.40	0.03	<0.01	<0.01	manual
11/14/2017	35.41	35.50	0.09	Trace	<0.01	manual
5/15/2018	35.04	35.72	0.68	<0.01	<0.01	manual
7/16/2018	35.39	36.16	0.77	--	--	Mobile DPE
10/18/2018	36.78	37.15	0.37	4.3	646	Mobile DPE*
10/19/2018	36.93	37.02	0.09	7.0	994	Mobile DPE*
10/27/2018	35.67	35.68	0.01	<0.01	<0.01	manual
5/21/2019	35.46	35.46	<0.01	<0.01	<0.01	manual
11/10/2019	35.87	35.96	0.09	0.05	0.37	manual
5/11/2020	35.83	36.04	0.21	0.16	0.24	manual
11/12/2020	36.13	36.17	0.04	0.03	0.05	manual
3/18/2021	36.21	36.22	0.01	0.04	0.45	manual
5/19/2021	36.17	36.30	0.13	0.02	0.06	manual
9/18/2021	36.36	36.68	0.32	2.20	0.06	manual
11/11/2021	36.38	36.48	0.10	0.02	0.29	manual
3/21/2022	36.33	36.35	0.02	<0.01	0.11	manual
5/22/2022	36.35	36.45	0.10	0.03	0.12	manual
8/1/2022	36.49	36.50	0.01	<0.01	0.09	manual
8/27/2023	36.26	36.28	0.02	<0.01	0.87	manual
11/12/2023	36.28	36.30	0.02	0.02	0.28	manual
5/16/2024	36.94	36.95	0.01	0.01	0.20	manual
9/24/2024	36.50	36.66	0.16	0.05	2.32	manual
11/14/2024	NM	NM	0.02	0.01	0.29	manual
			Total:	14.8	1646	

TABLE 1 - LIGHT NON-AQUEOUS PHASE LIQUID RECOVERY SUMMARY

Canada Mesa #2						
	Depth to LNAPL (Feet)	Depth to Water (Feet)	Measured Thickness (Feet)	LNAPL Recovered (gal)	Water Recovered (gal)	Recovery Type
Well ID - MW-2R						
5/11/2020	36.29	36.30	0.01	Trace	Trace	manual
8/19/2020	36.50	36.50	<0.01	Trace	0.13	manual
3/18/2021	36.65	36.65	<0.01	<0.01	0.23	manual
3/21/2022	36.74	36.75	0.01	<0.01	0.15	manual
8/1/2022	36.98	36.99	0.01	<0.01	<0.01	manual
			Total:	Trace	0.51	
Well ID - MW-4						
5/15/2018	39.16	39.16	<0.01	Trace	0.26	manual
7/16/2018	39.44	40.60	1.16	2.7	817	Mobile DPE*
10/18/2018	39.63	40.82	1.19	1.1	470	Mobile DPE*
10/19/2018	40.00	40.18	0.18	3.4	1379	Mobile DPE*
5/21/2019	39.60	39.60	<0.01	<0.01	0	manual
11/10/2019	39.92	40.62	0.70	0.13	0.37	manual
5/11/2020	39.91	40.40	0.49	0.21	0.48	manual
8/19/2020	40.16	40.36	0.20	0.42	0.11	manual
11/12/2020	40.10	41.13	1.03	0.28	0.09	manual
3/18/2021	39.42	40.17	0.75	0.40	0.40	manual
5/19/2021	40.13	41.11	0.98	0.38	0.16	manual
9/18/2021	40.29	41.43	1.14	0.25	3.01	manual
11/11/2021	40.32	41.44	1.12	0.41	0.5	manual
3/21/2022	40.24	41.22	0.98	0.35	0.28	manual
5/22/2022	38.29	39.30	1.01	0.43	0.23	manual
8/1/2022	38.48	39.55	1.07	0.44	0.53	manual
11/6/2022	38.28	39.16	0.88	0.65	0.33	manual
3/29/2023	38.03	38.29	0.26	0.06	0.82	manual
5/20/2023	37.98	38.01	0.03	<0.01	0.17	manual
8/27/2023	38.35	38.60	0.25	0.03	0.81	manual
11/12/2023	38.39	38.58	0.19	0.04	0.15	manual
3/28/2024	38.11	38.32	0.21	0.08	0.17	manual
5/16/2024	38.08	38.13	0.05	0.01	0.23	manual
9/24/2024	38.50	39.28	0.78	0.23	2.06	manual
11/14/2024	NM	NM	0.70	0.29	0.18	manual
			Total:	12.3	2677	

TABLE 1 - LIGHT NON-AQUEOUS PHASE LIQUID RECOVERY SUMMARY

Canada Mesa #2						
	Depth to LNAPL (Feet)	Depth to Water (Feet)	Measured Thickness (Feet)	LNAPL Recovered (gal)	Water Recovered (gal)	Recovery Type
Well ID - MW-9						
11/10/2019	36.72	37.45	0.73	0.18	0.26	manual
5/11/2020	36.66	37.30	0.64	2.5	0.18	manual
8/19/2020	36.87	37.57	0.70	2.14	0.17	manual
11/12/2020	36.98	37.67	0.69	2.17	0.44	manual
3/18/2021	37.07	37.49	0.42	0.49	0.22	manual
5/19/2021	37.04	37.46	0.42	0.05	0.08	manual
9/18/2021	37.21	37.75	0.54	0.08	5.00	manual
11/11/2021	37.21	37.75	0.54	0.74	0.54	manual
3/21/2022	37.18	37.47	0.29	0.32	0.20	manual
5/22/2022	35.20	35.56	0.36	0.27	0.10	manual
8/1/2022	35.35	35.70	0.35	0.32	0.66	manual
11/6/2022	35.19	35.39	0.20	0.43	0.02	manual
3/29/2023	34.80	34.89	0.09	0.04	0.45	manual
5/20/2023	34.73	34.79	0.06	0.07	0.42	manual
8/27/2023	35.60	35.95	0.35	0.04	0.46	manual
11/12/2023	35.16	35.21	0.05	0.01	0.21	manual
3/28/2024	34.90	34.91	0.01	<0.01	0.32	manual
5/16/2024	35.84	35.85	0.01	0.01	0.07	manual
9/24/2024	35.39	35.63	0.24	0.02	0.75	manual
11/14/2024	NM	NM	0.03	0.02	0.24	manual
			Total:	9.9	10.79	

Notes:

gal = gallons.

NM - Not Measured. Measured thickness was obtained by measuring the thickness within a bailer.

ND = Not Detected.

* = Mobile Dual Phase Extraction (DPE) includes calculated recovered hydrocarbon vapors.

LNAPL = Light non-aqueous phase liquid

LNAPL recovery data for 2015 and previous years documented in previously-submitted reports.

TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

Canada Mesa #2					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-1	11/04/96	5520	8880	469	3920
MW-1	02/05/97	3450	5200	214	1770
MW-1	05/07/97	4650	8440	317	2580
MW-1	01/09/00	NS	NS	NS	NS
MW-1	01/26/00	NS	NS	NS	NS
MW-1	02/15/00	NS	NS	NS	NS
MW-1	10/06/00	NS	NS	NS	NS
MW-1	11/14/00	NS	NS	NS	NS
MW-1	01/03/01	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	02/13/01	NS	NS	NS	NS
MW-1	02/20/01	NS	NS	NS	NS
MW-1	02/28/01	NS	NS	NS	NS
MW-1	06/04/01	NS	NS	NS	NS
MW-1	07/03/01	NS	NS	NS	NS
MW-1	08/06/01	NS	NS	NS	NS
MW-1	08/20/01	NS	NS	NS	NS
MW-1	08/31/01	NS	NS	NS	NS
MW-1	09/14/01	NS	NS	NS	NS
MW-1	09/26/01	NS	NS	NS	NS
MW-1	10/02/01	NS	NS	NS	NS
MW-1	10/10/01	NS	NS	NS	NS
MW-1	12/05/01	NS	NS	NS	NS
MW-1	12/14/01	NS	NS	NS	NS
MW-1	12/21/01	NS	NS	NS	NS
MW-1	12/28/01	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	02/26/02	NS	NS	NS	NS
MW-1	03/07/02	NS	NS	NS	NS
MW-1	03/12/02	NS	NS	NS	NS
MW-1	03/28/02	NS	NS	NS	NS
MW-1	04/03/02	NS	NS	NS	NS
MW-1	04/25/02	NS	NS	NS	NS

TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

Canada Mesa #2					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-1	05/21/02	NS	NS	NS	NS
MW-1	06/10/02	NS	NS	NS	NS
MW-1	09/23/02	NS	NS	NS	NS
MW-1	03/25/03	NS	NS	NS	NS
MW-1	06/22/03	NS	NS	NS	NS
MW-1	09/15/03	NS	NS	NS	NS
MW-1	12/15/03	NS	NS	NS	NS
MW-1	03/17/04	NS	NS	NS	NS
MW-1	03/22/04	NS	NS	NS	NS
MW-1	06/03/04	NS	NS	NS	NS
MW-1	06/04/04	NS	NS	NS	NS
MW-1	09/13/04	NS	NS	NS	NS
MW-1	09/14/04	NS	NS	NS	NS
MW-1	12/15/04	NS	NS	NS	NS
MW-1	03/22/05	NS	NS	NS	NS
MW-1	06/24/05	NS	NS	NS	NS
MW-1	09/14/05	NS	NS	NS	NS
MW-1	12/14/05	NS	NS	NS	NS
MW-1	03/28/06	NS	NS	NS	NS
MW-1	06/07/06	NS	NS	NS	NS
MW-1	09/29/06	NS	NS	NS	NS
MW-1	12/26/06	NS	NS	NS	NS
MW-1	03/26/07	NS	NS	NS	NS
MW-1	06/13/07	NS	NS	NS	NS
MW-1	09/28/07	NS	NS	NS	NS
MW-1	12/18/07	NS	NS	NS	NS
MW-1	03/05/08	NS	NS	NS	NS
MW-1	06/16/08	NS	NS	NS	NS
MW-1	09/10/08	NS	NS	NS	NS
MW-1	12/10/08	NS	NS	NS	NS
MW-1	03/02/09	NS	NS	NS	NS
MW-1	06/10/09	NS	NS	NS	NS
MW-1	08/25/09	NS	NS	NS	NS
MW-1	11/03/09	1970	6020	359	6110
MW-1	02/16/10	NS	NS	NS	NS
MW-1	06/02/10	NS	NS	NS	NS
MW-1	09/27/10	NS	NS	NS	NS
MW-1	11/08/10	571	9070	1370	27200
MW-1	02/01/11	NS	NS	NS	NS
MW-1	05/02/11	NS	NS	NS	NS
MW-1	09/23/11	NS	NS	NS	NS

TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

Canada Mesa #2					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-1	11/10/11	1340	9510	1260	20800
MW-1	02/22/12	NS	NS	NS	NS
MW-1	05/15/12	NS	NS	NS	NS
MW-1	06/05/13	720	2200	92	4000
MW-1	09/10/13	570	1700	63	2900
MW-1	12/10/13	190	740	40	1000
MW-1	04/04/14	NS	NS	NS	NS
MW-1	10/22/14	NS	NS	NS	NS
MW-1	05/28/15	NS	NS	NS	NS
MW-1	11/21/15	NS	NS	NS	NS
MW-1	04/14/16	NS	NS	NS	NS
MW-1	12/14/16	NS	NS	NS	NS
MW-1	06/07/17	1400	5900	470	21000
MW-1	11/14/17	NS	NS	NS	NS
MW-1	05/15/18	NS	NS	NS	NS
MW-1	10/27/18	NS	NS	NS	NS
MW-1	05/21/19	NS	NS	NS	NS
MW-1	11/10/19	NS	NS	NS	NS
MW-1	05/11/20	NS	NS	NS	NS
MW-1	05/19/21	NS	NS	NS	NS
MW-1	11/11/21	NS	NS	NS	NS
MW-1	05/22/22	NS	NS	NS	NS
MW-1	11/06/22	45	180	120	730
MW-1	05/20/23	NS	NS	NS	NS
MW-1	11/12/23	NS	NS	NS	NS
MW-1	05/16/24	NS	NS	NS	NS
MW-1	11/14/24	NS	NS	NS	NS
MW-2	11/16/00	3200	330	1200	1100
MW-2	06/04/01	NS	NS	NS	NS
MW-2	07/03/01	NS	NS	NS	NS
MW-2	08/06/01	NS	NS	NS	NS
MW-2	08/31/01	NS	NS	NS	NS
MW-2	09/14/01	NS	NS	NS	NS
MW-2	03/19/02	22	<5	150	14
MW-2	12/24/02	12.1	2.1	129	16.4
MW-2	03/25/03	NS	NS	NS	NS
MW-2	06/22/03	NS	NS	NS	NS
MW-2	09/15/03	NS	NS	NS	NS
MW-2	12/15/03	10	11.7	55.3	29.7
MW-2	03/22/04	NS	NS	NS	NS

TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

Canada Mesa #2					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-2	06/04/04	NS	NS	NS	NS
MW-2	09/14/04	NS	NS	NS	NS
MW-2	12/15/04	6.3	3.8	8	5.9
MW-2	03/22/05	NS	NS	NS	NS
MW-2	06/24/05	NS	NS	NS	NS
MW-2	09/14/05	NS	NS	NS	NS
MW-2	12/14/05	NS	NS	NS	NS
MW-2	12/15/05	12.1	30.9	5.6	61.9
MW-2	03/28/06	NS	NS	NS	NS
MW-2	06/07/06	NS	NS	NS	NS
MW-2	09/29/06	NS	NS	NS	NS
MW-2	12/26/06	5.3	5	1.8	7.1
MW-2	03/26/07	NS	NS	NS	NS
MW-2	06/13/07	NS	NS	NS	NS
MW-2	09/28/07	NS	NS	NS	NS
MW-2	12/18/07	<2	<2	<2	<6
MW-2	03/05/08	NS	NS	NS	NS
MW-2	06/16/08	NS	NS	NS	NS
MW-2	09/10/08	NS	NS	NS	NS
MW-2	12/10/08	1.2	2.7	1.7	4.9
MW-2	03/02/09	NS	NS	NS	NS
MW-2	06/10/09	NS	NS	NS	NS
MW-2	08/25/09	NS	NS	NS	NS
MW-2	11/03/09	0.68 J	<1	<1	1.5 J
MW-2	02/16/10	NS	NS	NS	NS
MW-2	06/02/10	NS	NS	NS	NS
MW-2	09/27/10	NS	NS	NS	NS
MW-2	11/08/10	<2	<2	<2	<6
MW-2	02/01/11	NS	NS	NS	NS
MW-2	09/23/11	NS	NS	NS	NS
MW-2	11/10/11	1.1	<1	<1	1.4 J
MW-2	02/22/12	NS	NS	NS	NS
MW-2	05/15/12	NS	NS	NS	NS
MW-2	06/05/13	<0.14	<0.30	<0.20	<0.23
MW-2	09/10/13	0.22	<0.30	<0.020	<0.23
MW-2	12/10/13	0.24 J	<0.38	<0.20	<0.65
MW-2	04/04/14	0.46 J	<0.38	<0.20	<0.65
MW-2	10/22/14	<0.38	<0.70	<0.50	<1.6
MW-2	05/28/15	0.57 J	<5.0	<1.0	<5.0
MW-2	11/21/15	<1.0	<1.0	<1.0	<3.0
MW-2	04/14/16	NS	NS	NS	NS

TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

Canada Mesa #2					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-2 abandoned on May 22, 2016					
MW-2R	05/15/18	<10	<10	300	1800
MW-2R	10/27/18	<1.0	<1.0	7.8	59
MW-2R	05/21/19	<1.0	<1.0	<1.0	<10
MW-2R	11/10/19	<1.0	<1.0	<1.0	<10
DUP-01(MW-2R)*	11/10/19	<1.0	<1.0	<1.0	18
MW-2R	05/11/20	NS	NS	NS	NS
MW-2R	05/19/21	<1.0	<1.0	<1.0	<10
MW-2R	11/11/21	<1.0	<1.0	<1.0	<10
MW-2R	05/22/22	<1.0	<1.0	<1.0	34
MW-2R	11/06/22	<1.0	<1.0	<1.0	<10
MW-2R	05/20/23	<1.0	<1.0	<1.0	<10
MW-2R	11/12/23	<1.0	<1.0	<1.0	<10
MW-2R	05/16/24	<1.0	<1.0	<1.0	<10
MW-2R	11/14/24	<1.0	<1.0	<1.0	<10
MW-3	11/16/00	880	1300	420	3700
MW-3	06/04/01	NS	NS	NS	NS
MW-3	07/03/01	NS	NS	NS	NS
MW-3	08/06/01	NS	NS	NS	NS
MW-3	08/31/01	NS	NS	NS	NS
MW-3	09/14/01	NS	NS	NS	NS
MW-3	03/19/02	1100	29	360	3700
MW-3	06/10/02	NS	NS	NS	NS
MW-3	09/23/02	NS	NS	NS	NS
MW-3	12/24/02	1430	95	483	2359
MW-3	03/25/03	NS	NS	NS	NS
MW-3	06/22/03	NS	NS	NS	NS
MW-3	09/15/03	NS	NS	NS	NS
MW-3	12/15/03	503	79.7	148	891
MW-3	03/22/04	NS	NS	NS	NS
MW-3	06/04/04	NS	NS	NS	NS
MW-3	09/14/04	NS	NS	NS	NS
MW-3	12/15/04	410	54.9	88.7	420
MW-3	03/22/05	NS	NS	NS	NS
MW-3	06/24/05	NS	NS	NS	NS
MW-3	09/14/05	NS	NS	NS	NS
MW-3	12/15/05	482	32.7	74.1	399
MW-3	03/28/06	NS	NS	NS	NS
MW-3	06/07/06	NS	NS	NS	NS
MW-3	09/29/06	NS	NS	NS	NS

TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

Canada Mesa #2					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-3	12/26/06	679	78.9	106	565
MW-3	03/26/07	NS	NS	NS	NS
MW-3	06/13/07	NS	NS	NS	NS
MW-3	09/28/07	NS	NS	NS	NS
MW-3	12/18/07	412	39.4	31.5	207
MW-3	03/05/08	NS	NS	NS	NS
MW-3	06/16/08	NS	NS	NS	NS
MW-3	09/10/08	NS	NS	NS	NS
MW-3	12/10/08	653	63.2	55.5	253
MW-3	03/02/09	NS	NS	NS	NS
MW-3	06/10/09	NS	NS	NS	NS
MW-3	08/25/09	NS	NS	NS	NS
MW-3	11/03/09	715	220	80	570
MW-3	02/16/10	NS	NS	NS	NS
MW-3	06/02/10	NS	NS	NS	NS
MW-3	09/27/10	NS	NS	NS	NS
MW-3	11/08/10	426	15	22.1	85.1
MW-3	02/01/11	NS	NS	NS	NS
MW-3	09/23/11	NS	NS	NS	NS
MW-3	11/10/11	167	5.3	16.5	54.3
MW-3	02/22/12	NS	NS	NS	NS
MW-3	05/15/12	NS	NS	NS	NS
MW-3	06/05/13	340	1.3	31	47
MW-3	09/10/13	340	0.9	12	4.2
MW-3	12/10/13	220	13	6.3	2.6
MW-3	04/04/14	320	5.4 J	<0.80	<2.6
MW-3	10/22/14	240	<0.70	0.52 J	<1.6
MW-3	05/28/15	390	<25	<5.0	26
MW-3	11/21/15	380	1.5	1.3	8.8
MW-3	04/14/16	370	<25	<5.0	<25
MW-3 abandoned on May 22, 2016					
MW-3R	05/15/18	3.6	1.4	2.3	16
DUP-01(MW-3R)*	05/15/18	3.6	1.2	1.9	12
MW-3R	10/27/18	<1.0	<1.0	<1.0	<10
MW-3R	05/21/19	<1.0	<1.0	<1.0	<10
MW-3R	11/10/19	<1.0	<1.0	<1.0	<10
MW-3R	05/11/20	<1.0	<1.0	<1.0	<10
MW-3R	11/12/20	<1.0	<1.0	<1.0	<10
MW-3R	05/19/21	<1.0	<1.0	<1.0	<10
MW-3R	11/11/21	<1.0	<1.0	<1.0	<10

TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

Canada Mesa #2					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-3R	05/22/22	<1.0	<1.0	<1.0	<10
MW-3R	11/06/22	<1.0	<1.0	<1.0	<10
MW-3R	05/20/23	<1.0	<1.0	<1.0	<10
MW-3R	11/12/23	<1.0	<1.0	<1.0	<10
MW-3R	05/16/24	<1.0	<1.0	<1.0	<10
MW-3R	11/14/24	<1.0	<1.0	<1.0	<10
MW-4	05/15/18	NS	NS	NS	NS
MW-4	10/27/18	25	2500	740	12000
MW-4	05/21/19	NS	NS	NS	NS
MW-4	11/10/19	NS	NS	NS	NS
MW-4	08/19/20	NS	NS	NS	NS
MW-4	05/19/21	NS	NS	NS	NS
MW-4	11/11/21	NS	NS	NS	NS
MW-4	05/22/22	NS	NS	NS	NS
MW-4	11/06/22	NS	NS	NS	NS
MW-4	05/20/23	NS	NS	NS	NS
MW-4	11/12/23	NS	NS	NS	NS
MW-4	05/16/24	NS	NS	NS	NS
MW-4	11/14/24	NS	NS	NS	NS
MW-5	05/15/18	<1.0	<1.0	<1.0	<10
MW-5	10/27/18	<1.0	<1.0	1.9	<10
MW-5	05/21/19	<1.0	<1.0	<1.0	<10
MW-5	11/10/19	<1.0	<1.0	<1.0	<10
MW-5	05/11/20	<1.0	<1.0	<1.0	<10
MW-5	11/12/20	<1.0	<1.0	<1.0	<10
MW-5	05/19/21	<1.0	<1.0	<1.0	<10
MW-5	09/18/21	NS	NS	NS	NS
MW-5	11/11/21	<1.0	<1.0	<1.0	<10
MW-5	05/22/22	<1.0	<1.0	<1.0	<10
MW-5	11/06/22	<1.0	<1.0	<1.0	<10
MW-5	05/20/23	<1.0	<1.0	<1.0	<10
DUP-01 (MW-5)*	05/20/23	<1.0	<1.0	<1.0	<10
MW-5	11/12/23	<1.0	<1.0	<1.0	<10
DUP-01 (MW-5)*	11/12/23	<1.0	<1.0	<1.0	<10
MW-5	05/16/24	<1.0	<1.0	<1.0	<10
DUP-01 (MW-5)*	05/16/24	<1.0	<1.0	<1.0	<10
MW-5	11/14/24	<1.0	<1.0	<1.0	<10
DUP-01 (MW-5)*	11/14/24	<1.0	<1.0	<1.0	<10

TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

Canada Mesa #2					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-6	05/15/18	<2.0	26	7.1	450
MW-6	10/27/18	<1.0	<1.0	<1.0	<10
DUP-01 (MW-6)*	10/27/18	<1.0	<1.0	<1.0	<10
MW-6	05/21/19	<1.0	<1.0	<1.0	<10
MW-6	11/10/19	<1.0	<1.0	<1.0	<10
MW-6	05/11/20	NS	NS	NS	NS
MW-6	11/12/20	NS	NS	NS	NS
MW-6	05/19/21	NS	NS	NS	NS
MW-6	09/18/21	NS	NS	NS	NS
MW-6	11/11/21	<1.0	<1.0	<1.0	<10
MW-6	05/22/22	NS	NS	NS	NS
MW-6	11/06/22	NS	NS	NS	NS
MW-6	05/20/23	NS	NS	NS	NS
MW-6	11/12/23	<1.0	<1.0	<1.0	<10
MW-6	05/16/24	NS	NS	NS	NS
MW-6	11/14/24	NS	NS	NS	NS
MW-7	05/15/18	<1.0	<1.0	<1.0	<10
MW-7	10/27/18	<1.0	<1.0	<1.0	<10
MW-7	05/21/19	<1.0	<1.0	<1.0	<10
MW-7	11/10/19	<1.0	<1.0	<1.0	<10
MW-7	05/11/20	NS	NS	NS	NS
MW-7	11/12/20	NS	NS	NS	NS
MW-7	05/19/21	NS	NS	NS	NS
MW-7	09/18/21	NS	NS	NS	NS
MW-7	11/11/21	<1.0	<1.0	<1.0	<10
MW-7	05/22/22	NS	NS	NS	NS
MW-7	11/06/22	NS	NS	NS	NS
MW-7	05/20/23	NS	NS	NS	NS
MW-7	11/12/23	<1.0	<1.0	<1.0	<10
MW-7	05/16/24	NS	NS	NS	NS
MW-7	11/14/24	NS	NS	NS	NS
MW-8	11/10/19	110	<20	910	8100
MW-8	05/11/20	100	<20	630	3900
DUP-01 (MW-8)*	05/11/20	60	<20	440	2400
MW-8	11/12/20	30	<20	1500	13000
DUP-01 (MW-8)*	11/12/20	<20	<20	1200	9800
MW-8	05/19/21	10	3.2	390	1200
DUP-01 (MW-8)*	05/19/21	1.3	<1.0	15	45
MW-8	09/18/21	NS	NS	NS	NS
MW-8	11/11/21	5.7	<1.0	1.4	<10

TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

Canada Mesa #2					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
DUP-01 (MW-8)*	11/11/21	5.8	<1.0	1.6	<10
MW-8	05/22/22	1.7	<1.0	1.8	<10
DUP-01 (MW-8)*	05/22/22	2.0	<1.0	1.7	<10
MW-8	11/06/22	2.2	<1.0	2.3	<10
MW-8	05/20/23	2.2	<1.0	38	16
MW-8	11/12/23	<1.0	<1.0	4.3	14
MW-8	05/16/24	1.0	<1.0	5.5	<10
MW-8	11/14/24	6.5	<1.0	13	14
MW-9	11/10/19	NS	NS	NS	NS
MW-9	05/11/20	NS	NS	NS	NS
MW-9	05/19/21	NS	NS	NS	NS
MW-9	11/11/21	NS	NS	NS	NS
MW-9	05/22/22	NS	NS	NS	NS
MW-9	11/06/22	NS	NS	NS	NS
MW-9	05/20/23	NS	NS	NS	NS
MW-9	11/12/23	NS	NS	NS	NS
MW-9	05/16/24	NS	NS	NS	NS
MW-9	11/14/24	NS	NS	NS	NS
MW-10	05/22/22	<1.0	<1.0	<1.0	<10
MW-10	11/06/22	<1.0	<1.0	<1.0	<10
MW-10	05/20/23	NS	NS	NS	NS
MW-10	11/12/23	<1.0	<1.0	<1.0	<10
MW-10	05/16/24	NS	NS	NS	NS
MW-10	11/14/24	NS	NS	NS	NS
MW-11	05/22/22	<1.0	<1.0	<1.0	<10
MW-11	11/06/22	<1.0	<1.0	<1.0	<10
MW-11	05/20/23	<1.0	<1.0	<1.0	<10
MW-11	11/12/23	<1.0	<1.0	<1.0	<10
MW-11	05/16/24	<1.0	<1.0	<1.0	<10
MW-11	11/14/24	<1.0	<1.0	<1.0	<10
MW-12	11/12/23	<1.0	<1.0	1.0	<10
MW-12	05/16/24	NS	NS	NS	NS
MW-12	09/24/24	NS	NS	NS	NS
MW-12	11/14/24	NS	NS	NS	NS

TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

Canada Mesa #2					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620

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 is an approximate value.

"<" = analyte was not detected at the indicated reporting limit (some historic data were reported at the detection limit).

*Field Duplicate results presented immediately below primary sample result

TABLE 3- GROUNDWATER ELEVATION RESULTS

Canada Mesa #2						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-1	11/04/96	6503.37	33.67	34.42	0.75	6469.51
MW-1	02/05/97	6503.37	33.64	34.35	0.71	6469.55
MW-1	05/07/97	6503.37	33.61	34.24	0.63	6469.60
MW-1	01/09/00	6503.37	33.79	33.93	0.14	6469.54
MW-1	01/26/00	6503.37	35.03	35.22	0.19	6468.29
MW-1	02/15/00	6503.37	34.93	35.11	0.18	6468.39
MW-1	10/06/00	6503.37	33.82	34.11	0.29	6469.47
MW-1	11/14/00	6503.37	33.81	33.98	0.17	6469.51
MW-1	01/03/01	6503.37	33.83	33.96	0.13	6469.50
MW-1	01/15/01	6503.37	33.78	33.93	0.15	6469.55
MW-1	01/22/01	6503.37	NR	33.81		6469.56
MW-1	01/30/01	6503.37	33.82	33.83	0.01	6469.54
MW-1	02/13/01	6503.37	NR	33.80		6469.57
MW-1	02/20/01	6503.37	NR	33.81		6469.56
MW-1	02/28/01	6503.37	NR	33.81		6469.56
MW-1	06/04/01	6503.37	33.81	34.13	0.32	6469.48
MW-1	07/03/01	6503.37	33.96	34.09	0.13	6469.37
MW-1	08/06/01	6503.37	34.07	34.08	0.01	6469.29
MW-1	08/20/01	6503.37	34.09	34.10	0.01	6469.27
MW-1	08/31/01	6503.37	NR	34.17		6469.20
MW-1	09/14/01	6503.37	34.13	34.14	0.01	6469.23
MW-1	09/26/01	6503.37	34.14	34.15	0.01	6469.22
MW-1	10/02/01	6503.37	34.15	34.17	0.02	6469.21
MW-1	10/10/01	6503.37	34.16	34.18	0.02	6469.20
MW-1	12/05/01	6503.37	34.25	34.26	0.01	6469.11
MW-1	12/14/01	6503.37	NR	34.27		6469.10
MW-1	12/21/01	6503.37	NR	34.24		6469.13
MW-1	12/28/01	6503.37	NR	34.22		6469.15
MW-1	01/02/02	6503.37	NR	34.23		6469.14
MW-1	01/07/02	6503.37	34.23	34.25	0.02	6469.13
MW-1	01/23/02	6503.37	34.37	34.42	0.05	6468.98
MW-1	01/30/02	6503.37	34.50	34.51	0.01	6468.86
MW-1	02/07/02	6503.37	34.49	34.50	0.01	6468.87
MW-1	02/14/02	6503.37	34.41	34.42	0.01	6468.95
MW-1	02/20/02	6503.37	34.99	35.00	0.01	6468.37
MW-1	02/26/02	6503.37	NR	34.25		6469.12
MW-1	03/07/02	6503.37	34.24	34.25	0.01	6469.12
MW-1	03/12/02	6503.37	34.24	34.25	0.01	6469.12
MW-1	03/28/02	6503.37	NR	34.27		6469.10

TABLE 3- GROUNDWATER ELEVATION RESULTS

Canada Mesa #2						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-1	04/03/02	6503.37	NR	34.26		6469.11
MW-1	04/25/02	6503.37	NR	34.45		6468.92
MW-1	05/21/02	6503.37	NR	34.30		6469.07
MW-1	06/10/02	6503.37	NR	34.32		6469.05
MW-1	09/23/02	6503.37	NR	34.50		6468.87
MW-1	03/25/03	6503.37	ND	34.50		6468.87
MW-1	06/22/03	6503.37	34.48	34.55	0.07	6468.87
MW-1	09/15/03	6503.37	34.65	34.97	0.32	6468.64
MW-1	12/15/03	6503.37	34.41	34.98	0.57	6468.81
MW-1	03/17/04	6503.37	34.24	34.80	0.56	6468.99
MW-1	03/22/04	6503.37	34.29	34.49	0.20	6469.03
MW-1	06/03/04	6503.37	34.30	34.44	0.14	6469.03
MW-1	06/04/04	6503.37	34.20	34.30	0.10	6469.14
MW-1	09/13/04	6503.37	34.64	35.30	0.66	6468.56
MW-1	09/14/04	6503.37	34.65	34.95	0.30	6468.64
MW-1	12/15/04	6503.37	34.74	35.32	0.58	6468.48
MW-1	03/22/05	6503.37	34.36	35.01	0.65	6468.84
MW-1	06/24/05	6503.37	34.39	34.97	0.58	6468.83
MW-1	09/14/05	6503.37	34.60	35.65	1.05	6468.50
MW-1	12/14/05	6503.37	34.74	35.05	0.31	6468.55
MW-1	03/28/06	6503.37	34.59	35.14	0.55	6468.64
MW-1	06/07/06	6503.37	34.52	35.11	0.59	6468.70
MW-1	09/29/06	6503.37	34.85	35.14	0.29	6468.44
MW-1	12/26/06	6503.37	34.44	34.85	0.41	6468.82
MW-1	03/26/07	6503.37	34.35	34.60	0.25	6468.95
MW-1	06/13/07	6503.37	34.20	35.39	1.19	6468.87
MW-1	09/28/07	6503.37	34.86	35.12	0.26	6468.44
MW-1	12/18/07	6503.37	34.18	34.34	0.16	6469.15
MW-1	03/05/08	6503.37	34.15	34.17	0.02	6469.21
MW-1	06/16/08	6503.37	ND	34.17		6469.20
MW-1	09/10/08	6503.37	ND	34.35		6469.02
MW-1	12/10/08	6503.37	ND	34.30		6469.07
MW-1	03/02/09	6503.37	ND	34.22		6469.15
MW-1	06/10/09	6503.37	ND	35.14		6468.23
MW-1	08/25/09	6503.37	ND	34.50		6468.87
MW-1	11/03/09	6503.37	ND	34.57		6468.80
MW-1	02/16/10	6503.37	34.54	34.57	0.03	6468.82
MW-1	06/02/10	6503.37	34.34	34.58	0.24	6468.97
MW-1	09/27/10	6503.37	34.71	35.26	0.55	6468.52

TABLE 3- GROUNDWATER ELEVATION RESULTS

Canada Mesa #2						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-1	11/08/10	6503.37	34.73	34.98	0.25	6468.57
MW-1	02/01/11	6503.37	34.63	34.97	0.34	6468.65
MW-1	05/02/11	6503.37	ND	35.52		6467.85
MW-1	09/23/11	6503.37	34.93	35.40	0.47	6468.32
MW-1	11/10/11	6503.37	34.95	35.21	0.26	6468.35
MW-1	02/22/12	6503.37	ND	34.98		6468.39
MW-1	05/15/12	6503.37	ND	35.04		6468.33
MW-1	06/05/13	6503.37	ND	39.13		6464.24
MW-1	09/10/13	6503.37	ND	36.50		6466.87
MW-1	12/10/13	6503.37	35.35	35.45	0.10	6467.99
MW-1	04/04/14	6503.37	35.00	35.78	0.78	6468.17
MW-1	10/22/14	6503.37	35.37	36.25	0.88	6467.78
MW-1	05/28/15	6503.37	34.80	35.42	0.62	6468.41
MW-1	11/21/15	6503.37	35.01	35.55	0.54	6468.22
MW-1	04/14/16	6503.37	34.74	35.17	0.43	6468.52
MW-1	05/23/16	6503.37	34.77	34.77	<0.01	6468.60
MW-1	06/17/16	6503.37	NM	NM		NM
MW-1	07/17/16	6503.37	NM	NM		NM
MW-1	08/19/16	6503.37	NM	NM		NM
MW-1	09/24/16	6503.37	NM	NM		NM
MW-1	10/13/16	6503.37	35.32	35.41	0.09	6468.02
MW-1	11/15/16	6503.37	36.49	36.50	0.01	6466.87
MW-1	12/14/16	6503.37	36.37	36.40	0.03	6466.99
MW-1	06/07/17	6503.37	ND	34.90		6468.47
MW-1	11/14/17	6503.37	35.41	35.50	0.09	6467.93
MW-1	05/15/18	6503.37	35.04	35.72	0.68	6468.16
MW-1	07/16/18	6503.37	35.39	36.16	0.77	6467.78
MW-1	10/18/18	6503.37	36.78	37.15	0.37	6466.49
MW-1	10/27/18	6503.37	35.67	35.68	0.01	6467.69
MW-1	05/21/19	6503.37	35.46	35.46	<0.01	6467.91
MW-1	11/10/19	6503.37	35.87	35.96	0.09	6467.41
MW-1	05/11/20	6503.37	35.83	36.04	0.21	6467.48
MW-1	08/19/20	6503.37	ND	35.96		6467.41
MW-1	11/12/20	6503.37	36.13	36.17	0.04	6467.23
MW-1	03/18/21	6503.37	36.21	36.22	0.01	6467.15
MW-1	05/19/21	6503.37	36.17	36.30	0.13	6467.16
MW-1	09/18/21	6503.37	36.36	36.68	0.32	6466.93
MW-1	11/11/21	6503.37	36.38	36.48	0.10	6466.96
MW-1	03/21/22	6503.37	36.33	36.35	0.02	6467.03

TABLE 3- GROUNDWATER ELEVATION RESULTS

Canada Mesa #2						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-1	05/22/22	6503.37	36.35	36.45	0.10	6466.99
MW-1	08/01/22	6503.37	36.49	36.50	0.01	6466.87
MW-1	11/06/22	6503.37	ND	36.34		6467.03
MW-1	03/29/23	6503.37	ND	35.94		6467.43
MW-1	05/20/23	6503.37	ND	35.87		6467.50
MW-1	08/27/23	6503.37	36.26	36.28	0.02	6467.10
MW-1	11/12/23	6503.37	36.28	36.30	0.02	6467.08
MW-1	03/28/24	6503.37	ND	36.02		6467.35
MW-1	05/16/24	6503.37	36.94	36.95	0.01	6466.42
MW-1	09/24/24	6503.37	36.50	36.66	0.16	6466.83
MW-1	11/14/24	6503.37	NM	NM	0.02	NM
MW-2	11/16/00	6504.34	NR	34.90		6469.44
MW-2	06/04/01	6504.34	NR	34.97		6469.37
MW-2	07/03/01	6504.34	NR	35.07		6469.27
MW-2	08/06/01	6504.34	NR	35.14		6469.20
MW-2	08/31/01	6504.34	NR	35.19		6469.15
MW-2	09/14/01	6504.34	NR	35.21		6469.13
MW-2	03/19/02	6504.34	NR	35.36		6468.98
MW-2	12/24/02	6504.34	NR	35.52		6468.82
MW-2	03/25/03	6504.34	ND	35.54		6468.80
MW-2	06/22/03	6504.34	ND	35.60		6468.74
MW-2	09/15/03	6504.34	ND	35.60		6468.74
MW-2	12/15/03	6504.34	ND	35.63		6468.71
MW-2	03/22/04	6504.34	ND	35.41		6468.93
MW-2	06/04/04	6504.34	ND	35.31		6469.03
MW-2	09/14/04	6504.34	ND	35.80		6468.54
MW-2	12/15/04	6504.34	ND	35.79		6468.55
MW-2	03/22/05	6504.34	ND	35.63		6468.71
MW-2	06/24/05	6504.34	ND	35.60		6468.74
MW-2	09/14/05	6504.34	ND	35.92		6468.42
MW-2	12/14/05	6504.34	ND	35.85		6468.49
MW-2	12/15/05	6504.34	ND	35.85		6468.49
MW-2	03/28/06	6504.34	ND	35.73		6468.61
MW-2	06/07/06	6504.34	ND	35.73		6468.61
MW-2	09/29/06	6504.34	ND	35.91		6468.43
MW-2	12/26/06	6504.34	ND	35.63		6468.71
MW-2	03/26/07	6504.34	ND	35.41		6468.93
MW-2	06/13/07	6504.34	ND	35.32		6469.02
MW-2	09/28/07	6504.34	ND	35.93		6468.41

TABLE 3- GROUNDWATER ELEVATION RESULTS

Canada Mesa #2						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-2	12/18/07	6504.34	ND	35.32		6469.02
MW-2	03/05/08	6504.34	ND	35.22		6469.12
MW-2	06/16/08	6504.34	ND	35.15		6469.19
MW-2	09/10/08	6504.34	ND	35.45		6468.89
MW-2	12/10/08	6504.34	ND	35.37		6468.97
MW-2	03/02/09	6504.34	ND	35.27		6469.07
MW-2	06/10/09	6504.34	ND	35.23		6469.11
MW-2	08/25/09	6504.34	ND	35.58		6468.76
MW-2	11/03/09	6504.34	ND	35.65		6468.69
MW-2	02/16/10	6504.34	ND	35.65		6468.69
MW-2	06/02/10	6504.34	ND	35.48		6468.86
MW-2	09/27/10	6504.34	ND	35.85		6468.49
MW-2	11/08/10	6504.34	ND	35.85		6468.49
MW-2	02/01/11	6504.34	ND	35.75		6468.59
MW-2	09/23/11	6504.34	ND	36.07		6468.27
MW-2	11/10/11	6504.34	ND	36.08		6468.26
MW-2	02/22/12	6504.34	ND	36.97		6467.37
MW-2	05/15/12	6504.34	ND	36.10		6468.24
MW-2	06/05/13	6504.34	ND	36.18		6468.16
MW-2	09/10/13	6504.34	ND	36.58		6467.76
MW-2	12/10/13	6504.34	ND	36.44		6467.90
MW-2	04/04/14	6504.34	ND	35.25		6469.09
MW-2	10/22/14	6504.34	ND	36.65		6467.69
MW-2	05/28/15	6504.34	ND	36.02		6468.32
MW-2	11/21/15	6504.34	ND	36.20		6468.14
MW-2	04/14/16	6504.34	ND	35.91		6468.43
MW-2 abandoned on May 22, 2016						
MW-2R	05/15/18	6503.35	ND	35.60		6467.75
MW-2R	10/27/18	6503.35	ND	36.18		6467.17
MW-2R	05/21/19	6503.35	ND	35.92		6467.43
MW-2R	11/10/19	6503.35	ND	36.36		6466.99
MW-2R	05/11/20	6503.35	36.29	36.30	0.01	6467.05
MW-2R	08/19/20	6503.35	36.50	36.50	<0.01	6466.85
MW-2R	11/12/20	6503.35	ND	36.62		6466.73
MW-2R	03/18/21	6503.35	36.65	36.65	<0.01	6466.70
MW-2R	05/19/21	6503.35	ND	36.63		6466.72
MW-2R	09/18/21	6503.35	ND	36.84		6466.51
MW-2R	11/11/21	6503.35	ND	36.85		6466.50
MW-2R	03/21/22	6503.35	36.34	36.35	0.01	6467.00

TABLE 3- GROUNDWATER ELEVATION RESULTS

Canada Mesa #2						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-2R	05/22/22	6503.35	ND	36.82		6466.53
MW-2R	08/01/22	6503.35	36.98	36.99	0.01	6466.36
MW-2R	05/20/23	6503.35	ND	36.29		6467.06
MW-2R	11/12/23	6503.35	ND	36.71		6466.64
MW-2R	03/28/24	6503.35	ND	36.45		6466.90
MW-2R	05/16/24	6503.35	ND	36.37		6466.98
MW-2R	09/24/24	6503.35	ND	36.96		6466.39
MW-2R	11/14/24	6503.35	ND	NM		NM
MW-3	11/16/00	6503.67	NR	34.46		6469.21
MW-3	06/04/01	6503.67	NR	34.64		6469.03
MW-3	07/03/01	6503.67	NR	34.66		6469.01
MW-3	08/06/01	6503.67	NR	34.74		6468.93
MW-3	08/31/01	6503.67	NR	34.79		6468.88
MW-3	09/14/01	6503.67	NR	34.81		6468.86
MW-3	03/19/02	6503.67	NR	34.92		6468.75
MW-3	06/10/02	6503.67	NR	34.98		6468.69
MW-3	09/23/02	6503.67	NR	35.11		6468.56
MW-3	12/24/02	6503.67	NR	35.15		6468.52
MW-3	03/25/03	6503.67	ND	35.12		6468.55
MW-3	06/22/03	6503.67	ND	35.17		6468.50
MW-3	09/15/03	6503.67	ND	35.41		6468.26
MW-3	12/15/03	6503.67	ND	35.17		6468.50
MW-3	03/22/04	6503.67	ND	34.95		6468.72
MW-3	06/04/04	6503.67	ND	34.88		6468.79
MW-3	09/14/04	6503.67	ND	35.39		6468.28
MW-3	12/15/04	6503.67	ND	35.17		6468.50
MW-3	03/22/05	6503.67	ND	35.17		6468.50
MW-3	06/24/05	6503.67	ND	35.21		6468.46
MW-3	09/14/05	6503.67	ND	35.51		6468.16
MW-3	12/15/05	6503.67	ND	35.40		6468.27
MW-3	03/28/06	6503.67	ND	35.27		6468.40
MW-3	06/07/06	6503.67	ND	35.32		6468.35
MW-3	09/29/06	6503.67	ND	35.47		6468.20
MW-3	12/26/06	6503.67	ND	35.16		6468.51
MW-3	03/26/07	6503.67	ND	34.96		6468.71
MW-3	06/13/07	6503.67	ND	34.88		6468.79
MW-3	09/28/07	6503.67	ND	35.51		6468.16
MW-3	12/18/07	6503.67	ND	34.88		6468.79
MW-3	03/05/08	6503.67	ND	34.79		6468.88

TABLE 3- GROUNDWATER ELEVATION RESULTS

Canada Mesa #2						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-3	06/16/08	6503.67	ND	34.75		6468.92
MW-3	09/10/08	6503.67	ND	35.13		6468.54
MW-3	12/10/08	6503.67	ND	34.95		6468.72
MW-3	03/02/09	6503.67	ND	34.83		6468.84
MW-3	06/10/09	6503.67	ND	34.83		6468.84
MW-3	08/25/09	6503.67	ND	35.18		6468.49
MW-3	11/03/09	6503.67	ND	35.23		6468.44
MW-3	02/16/10	6503.67	ND	35.23		6468.44
MW-3	06/02/10	6503.67	ND	35.05		6468.62
MW-3	09/27/10	6503.67	ND	35.43		6468.24
MW-3	11/08/10	6503.67	ND	35.43		6468.24
MW-3	02/01/11	6503.67	ND	35.31		6468.36
MW-3	09/23/11	6503.67	ND	35.70		6467.97
MW-3	11/10/11	6503.67	ND	35.66		6468.01
MW-3	02/22/12	6503.67	ND	35.60		6468.07
MW-3	05/15/12	6503.67	ND	35.67		6468.00
MW-3	06/05/13	6503.67	ND	35.79		6467.88
MW-3	09/10/13	6503.67	ND	36.20		6467.47
MW-3	12/10/13	6503.67	ND	36.00		6467.67
MW-3	04/04/14	6503.67	ND	35.81		6467.86
MW-3	10/22/14	6503.67	ND	36.20		6467.47
MW-3	05/28/15	6503.67	ND	35.55		6468.12
MW-3	11/21/15	6503.67	ND	35.74		6467.93
MW-3	04/14/16	6503.67	ND	35.46		6468.21
MW-3 abandoned on May 22, 2016						
MW-3R	05/15/18	6498.85	ND	31.28		6467.57
MW-3R	10/27/18	6498.85	ND	31.84		6467.01
MW-3R	05/21/19	6498.85	ND	31.60		6467.25
MW-3R	11/10/19	6498.85	ND	32.02		6466.83
MW-3R	05/11/20	6498.85	ND	31.99		6466.86
MW-3R	11/12/20	6498.85	ND	32.29		6466.56
MW-3R	05/19/21	6498.85	ND	32.32		6466.53
MW-3R	09/18/21	6498.85	ND	33.52		6465.33
MW-3R	11/11/21	6498.85	ND	32.52		6466.33
MW-3R	05/22/22	6498.85	ND	32.50		6466.35
MW-3R	11/06/22	6498.85	ND	32.45		6466.40
MW-3R	05/20/23	6498.85	ND	31.95		6466.90
MW-3R	11/12/23	6498.85	ND	32.38		6466.47

TABLE 3- GROUNDWATER ELEVATION RESULTS

Canada Mesa #2						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-3R	05/16/24	6498.85	ND	32.06		6466.79
MW-3R	11/14/24	6498.85	ND	NM		NM
MW-4	05/15/18	6507.17	39.16	39.16	<0.01	6468.01
MW-4	07/16/18	6507.17	39.44	40.60	1.16	6467.44
MW-4	10/18/18	6507.17	39.63	40.82	1.19	6467.24
MW-4	10/27/18	6507.17	ND	39.92		6467.25
MW-4	05/21/19	6507.17	39.60	39.60	<0.01	6467.57
MW-4	11/10/19	6507.17	39.92	40.62	<0.02	6468.57
MW-4	08/19/20	6507.17	40.16	40.36	0.20	6466.96
MW-4	05/11/20	6507.17	39.91	40.40	0.49	6467.14
MW-4	11/12/20	6507.17	40.10	41.13	1.03	6466.81
MW-4	03/18/21	6507.17	39.42	40.17	0.75	6467.56
MW-4	05/19/21	6507.17	40.13	41.11	0.98	6466.80
MW-4	09/18/21	6507.17	40.29	41.43	1.14	6466.60
MW-4	11/11/21	6507.17	40.32	41.44	1.12	6466.57
MW-4	03/21/22	6507.17	40.24	41.22	0.98	6466.69
MW-4	05/22/22	6505.17	38.29	39.30	1.01	6466.63
MW-4	08/01/22	6505.17	38.40	39.55	1.15	6466.48
MW-4	11/06/22	6505.17	38.28	39.16	0.88	6466.67
MW-4	03/29/23	6505.17	38.03	38.29	0.26	6467.08
MW-4	05/20/23	6505.17	37.98	38.01	0.03	6467.18
MW-4	08/27/23	6505.17	38.35	38.60	0.25	6466.76
MW-4	11/12/23	6505.17	38.39	38.58	0.19	6466.73
MW-4	03/28/24	6505.17	38.11	38.32	0.21	6467.01
MW-4	05/16/24	6505.17	38.08	38.13	0.05	6467.08
MW-4	09/24/24	6505.17	38.50	39.28	0.78	6466.48
MW-4	11/14/24	6505.17	NM	NM	0.70	NM
MW-5	05/15/18	6503.72	ND	35.89		6467.83
MW-5	10/27/18	6503.72	ND	36.45		6467.27
MW-5	05/21/19	6503.72	ND	36.20		6467.52
MW-5	11/10/19	6503.72	ND	36.60		6467.12
MW-5	05/11/20	6503.72	ND	36.58		6467.14
MW-5	11/12/20	6503.72	ND	36.90		6466.82
MW-5	05/19/21	6503.72	ND	36.92		6466.80
MW-5	09/18/21	6503.72	ND	37.12		6466.60
MW-5	11/11/21	6503.72	ND	37.12		6466.60
MW-5	05/22/22	6503.72	ND	37.09		6466.63
MW-5	11/06/22	6503.72	ND	37.06		6466.66

TABLE 3- GROUNDWATER ELEVATION RESULTS

Canada Mesa #2						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-5	05/20/23	6503.72	ND	36.55		6467.17
MW-5	11/12/23	6503.72	ND	37.00		6466.72
MW-5	05/16/24	6503.72	ND	36.66		6467.06
MW-5	11/14/24	6503.72	ND	NM		NM
MW-6	05/15/18	6504.29	ND	36.41		6467.88
MW-6	10/27/18	6504.29	ND	36.98		6467.31
MW-6	05/21/19	6504.29	ND	36.74		6467.55
MW-6	11/10/19	6504.29	ND	37.11		6467.18
MW-6	05/11/20	6504.29	ND	37.10		6467.19
MW-6	11/12/20	6504.29	ND	37.42		6466.87
MW-6	05/19/21	6504.29	ND	37.42		6466.87
MW-6	09/18/21	6504.29	ND	37.64		6466.65
MW-6	11/11/21	6504.29	ND	37.65		6466.64
MW-6	05/22/22	6504.29	ND	37.61		6466.68
MW-6	11/06/22	6504.29	ND	37.58		6466.71
MW-6	05/20/23	6504.29	ND	37.08		6467.21
MW-6	11/12/23	6504.29	ND	37.52		6466.77
MW-6	05/16/24	6504.29	ND	37.19		6467.10
MW-6	11/14/24	6504.29	ND	NM		NM
MW-7	05/15/18	6504.59	ND	36.71		6467.88
MW-7	10/27/18	6504.59	ND	37.28		6467.31
MW-7	05/21/19	6504.59	ND	37.03		6467.56
MW-7	11/10/19	6504.59	ND	37.43		6467.16
MW-7	05/11/20	6504.59	ND	37.40		6467.19
MW-7	11/12/20	6504.59	ND	37.71		6466.88
MW-7	05/19/21	6504.59	ND	37.73		6466.86
MW-7	09/18/21	6504.59	ND	37.94		6466.65
MW-7	11/11/21	6504.59	ND	37.95		6466.64
MW-7	05/22/22	6504.59	ND	37.91		6466.68
MW-7	11/06/22	6504.59	ND	37.88		6466.71
MW-7	05/20/23	6504.59	ND	37.40		6467.19
MW-7	11/12/23	6504.59	ND	37.82		6466.77
MW-7	05/16/24	6504.59	ND	37.50		6467.09
MW-7	11/14/24	6504.59	ND	NM		NM
MW-8	11/10/19	6508.27	ND	41.21		6467.06
MW-8	05/11/20	6508.27	ND	41.17		6467.10
MW-8	11/12/20	6508.27	ND	41.46		6466.81

TABLE 3- GROUNDWATER ELEVATION RESULTS

Canada Mesa #2						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-8	05/19/21	6508.27	ND	41.48		6466.79
MW-8	09/18/21	6508.27	ND	41.67		6466.60
MW-8	11/11/21	6508.27	ND	41.70		6466.57
MW-8	05/22/22	6508.27	ND	41.65		6466.62
MW-8	11/06/22	6508.27	ND	41.60		6466.67
MW-8	05/20/23	6508.27	ND	41.14		6467.13
MW-8	11/12/23	6508.27	ND	41.55		6466.72
MW-8	05/16/24	6508.27	ND	41.22		6467.05
MW-8	11/14/24	6508.27	ND	NM		NM
MW-9	11/10/19	6503.86	36.72	37.45	0.73	6466.96
MW-9	05/11/20	6503.86	36.66	37.30	0.64	6467.04
MW-9	08/19/20	6503.86	36.87	37.57	0.70	6466.81
MW-9	11/12/20	6503.86	36.98	37.67	0.69	6466.71
MW-9	03/18/21	6503.86	37.07	37.49	0.42	6466.68
MW-9	05/19/21	6503.86	37.04	37.46	0.42	6466.71
MW-9	09/18/21	6503.86	37.21	37.75	0.54	6466.51
MW-9	11/11/21	6503.86	37.24	37.74	0.50	6466.49
MW-9	03/21/22	6503.86	37.18	37.47	0.29	6466.61
MW-9	05/22/22	6501.81	35.20	35.56	0.36	6466.52
MW-9	08/01/22	6501.81	35.35	35.70	0.35	6466.37
MW-9	11/06/22	6501.81	35.19	35.39	0.20	6466.57
MW-9	03/29/23	6501.81	34.80	34.89	0.09	6466.99
MW-9	05/20/23	6501.81	34.73	34.79	0.06	6467.07
MW-9	08/27/23	6501.81	35.60	35.95	0.35	6466.12
MW-9	11/12/23	6501.81	35.16	35.21	0.05	6466.64
MW-9	03/28/24	6501.81	34.90	34.91	0.01	6466.91
MW-9	05/16/24	6501.81	35.84	35.85	0.01	6465.97
MW-9	09/24/24	6501.81	35.39	35.63	0.24	6466.36
MW-9	11/14/24	6501.81	NM	NM	0.03	NM
MW-10	05/22/22	6506.23	ND	39.68		6466.55
MW-10	11/06/22	6506.23	ND	39.63		6466.60
MW-10	05/20/23	6506.23	ND	39.15		6467.08
MW-10	11/12/23	6506.23	ND	39.57		6466.66
MW-10	05/16/24	6506.23	ND	39.25		6466.98
MW-10	11/14/24	6506.23	ND	NM		NM
MW-11	05/22/22	6503.08	ND	36.82		6466.26
MW-11	11/06/22	6503.08	ND	36.75		6466.33

TABLE 3- GROUNDWATER ELEVATION RESULTS

Canada Mesa #2						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-11	05/20/23	6503.08	ND	36.20		6466.88
MW-11	11/12/23	6503.08	ND	36.68		6466.40
MW-11	05/16/24	6503.08	ND	36.34		6466.74
MW-11	11/14/24	6503.08	ND	NM		NM
MW-12	11/12/23	6503.08	ND	37.56		6465.52
MW-12	05/16/24	6503.08	ND	38.24		6464.84
MW-12	09/24/24	6503.08	ND	38.80		6464.28
MW-12	11/14/24	6503.08	ND	NM		NM
TW-1	09/24/24	NM	ND	38.65		NM

Notes:

"ft" = feet

"TOC" = Top of casing

"LNAPL" = Light non-aqueous phase liquid

"ND" = LNAPL not detected

"NR" = LNAPL not recorded

"NM" = Not Measured due to oil-water interface probe malfunction. In-well thickness estimated by transparent disposable bailer.

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>)

FIGURES

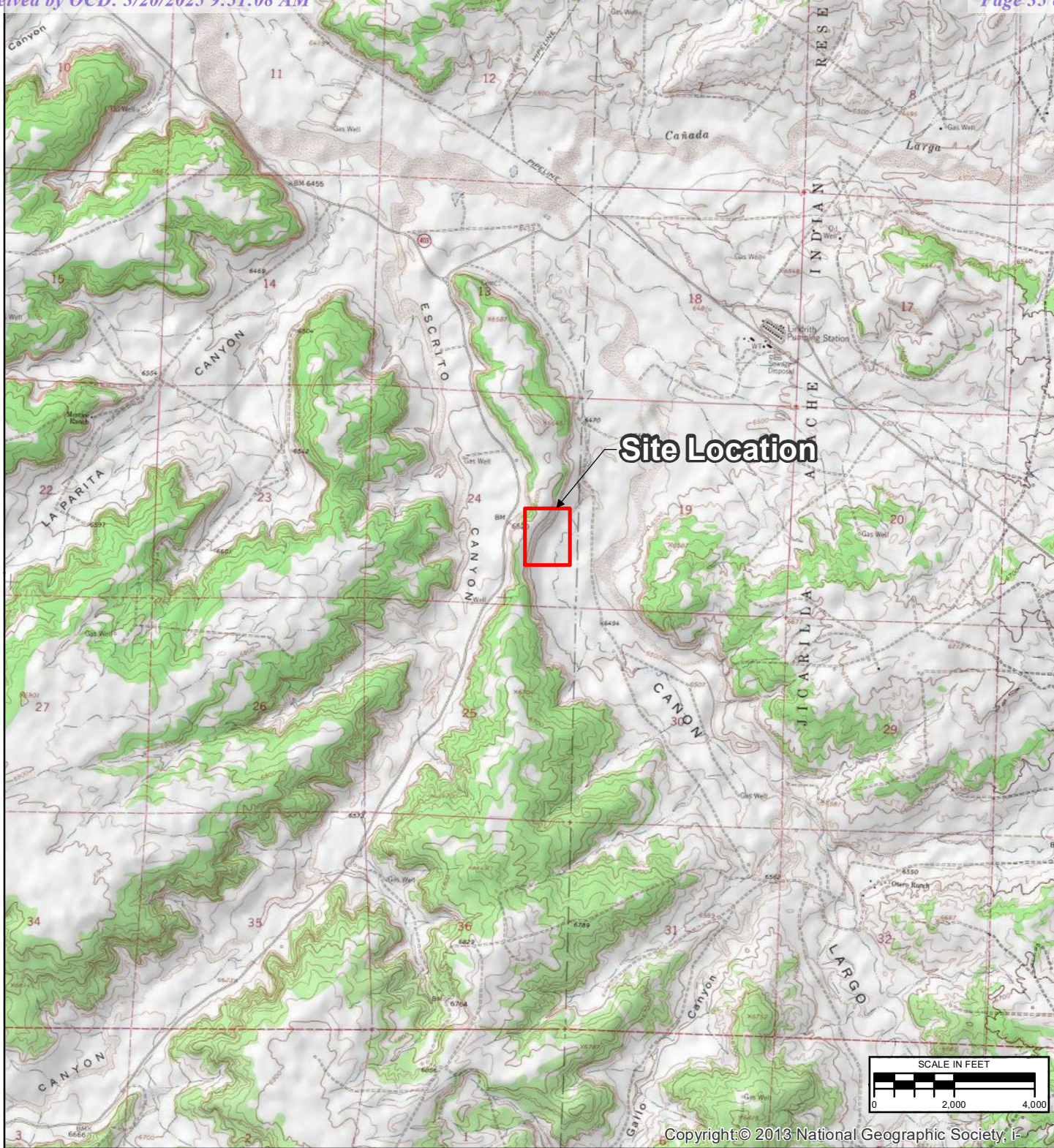
FIGURE 1: SITE LOCATION

FIGURE 2: SITE PLAN

FIGURE 3: GROUNDWATER ANALYTICAL RESULTS – MAY 16, 2024


FIGURE 4: GROUNDWATER ELEVATION MAP – MAY 16, 2024

FIGURE 5: GROUNDWATER ANALYTICAL RESULTS – NOVEMBER 14, 2024

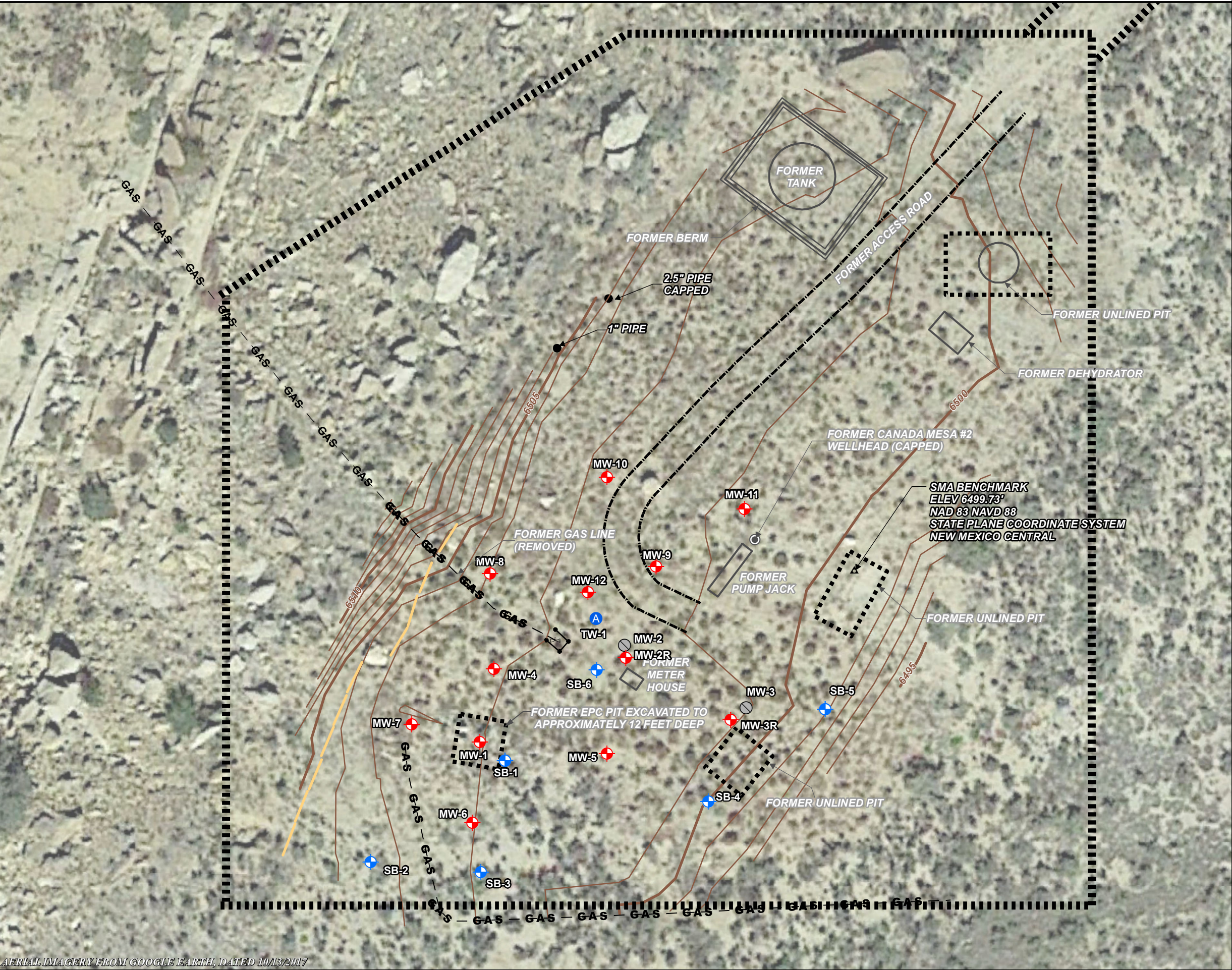


National Geographic, Esri, Garmin, HERE, UNEP-WCMC, USGS, NASA,

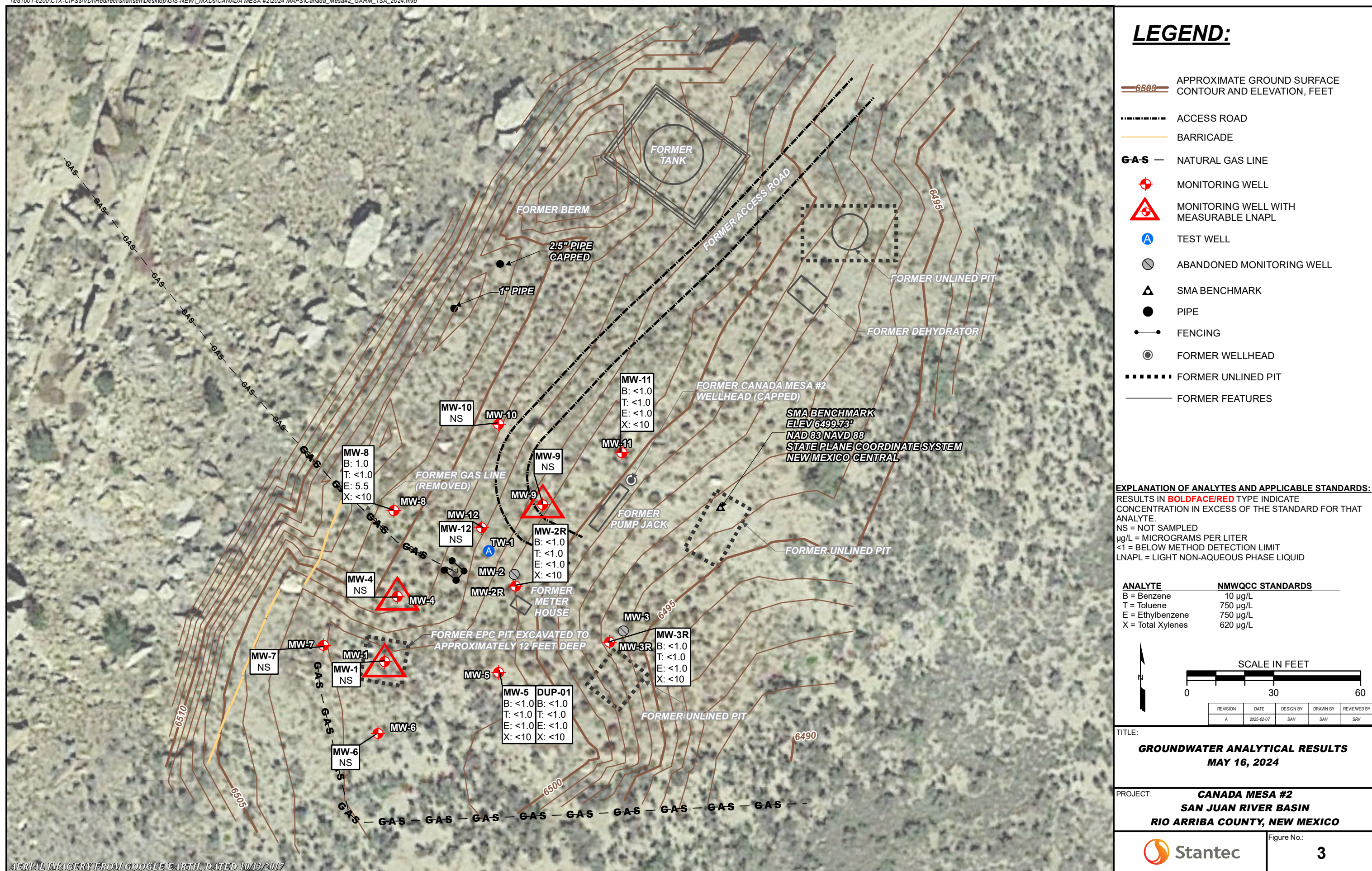
REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	2/15/2021	SAH	SAH	SRV

TITLE SITE LOCATION		
PROJECT CANADA MESA #2 SAN JUAN RIVER BASIN RIO ARRIBA COUNTY, NEW MEXICO	FIGURE 1	

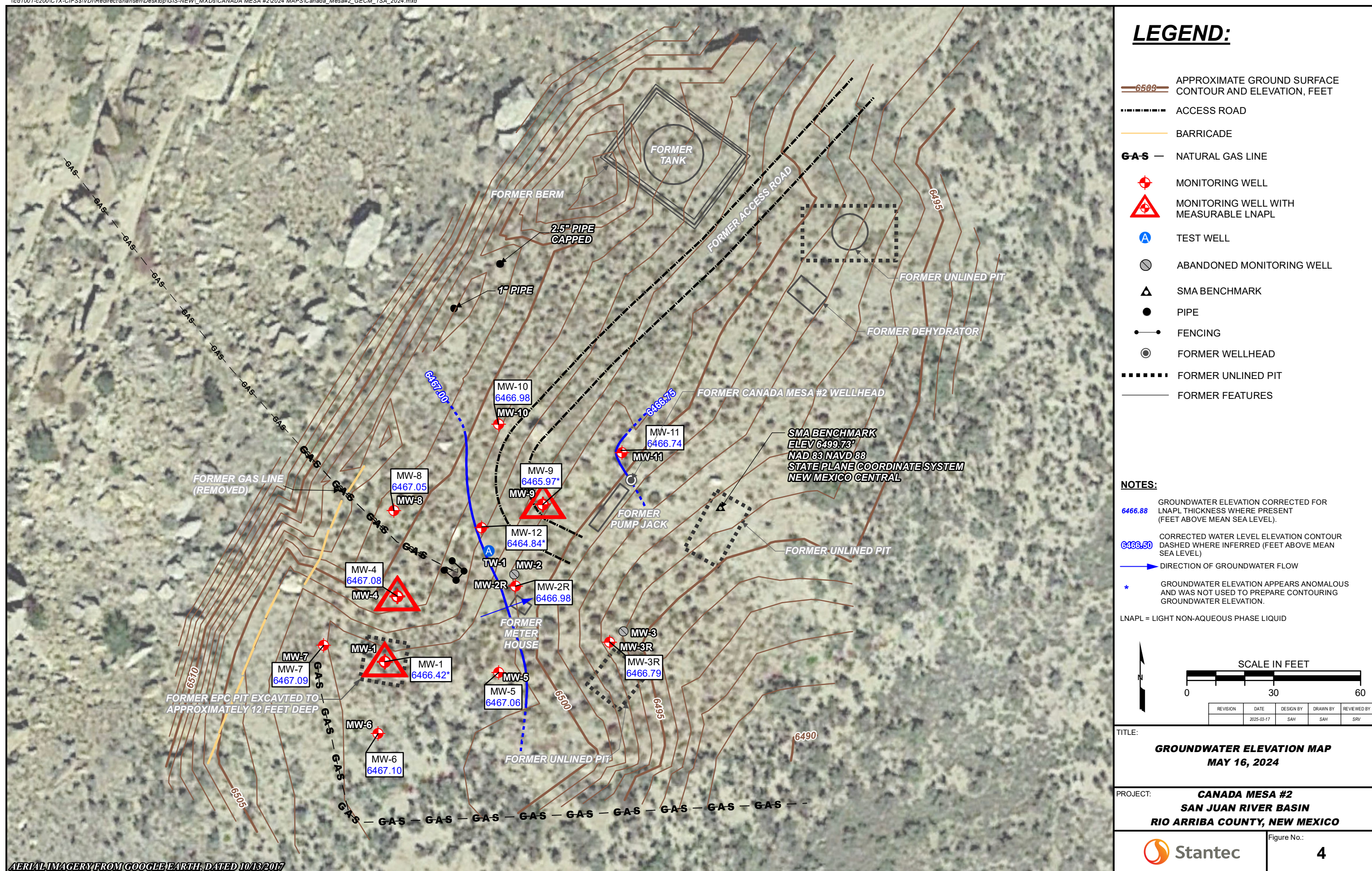
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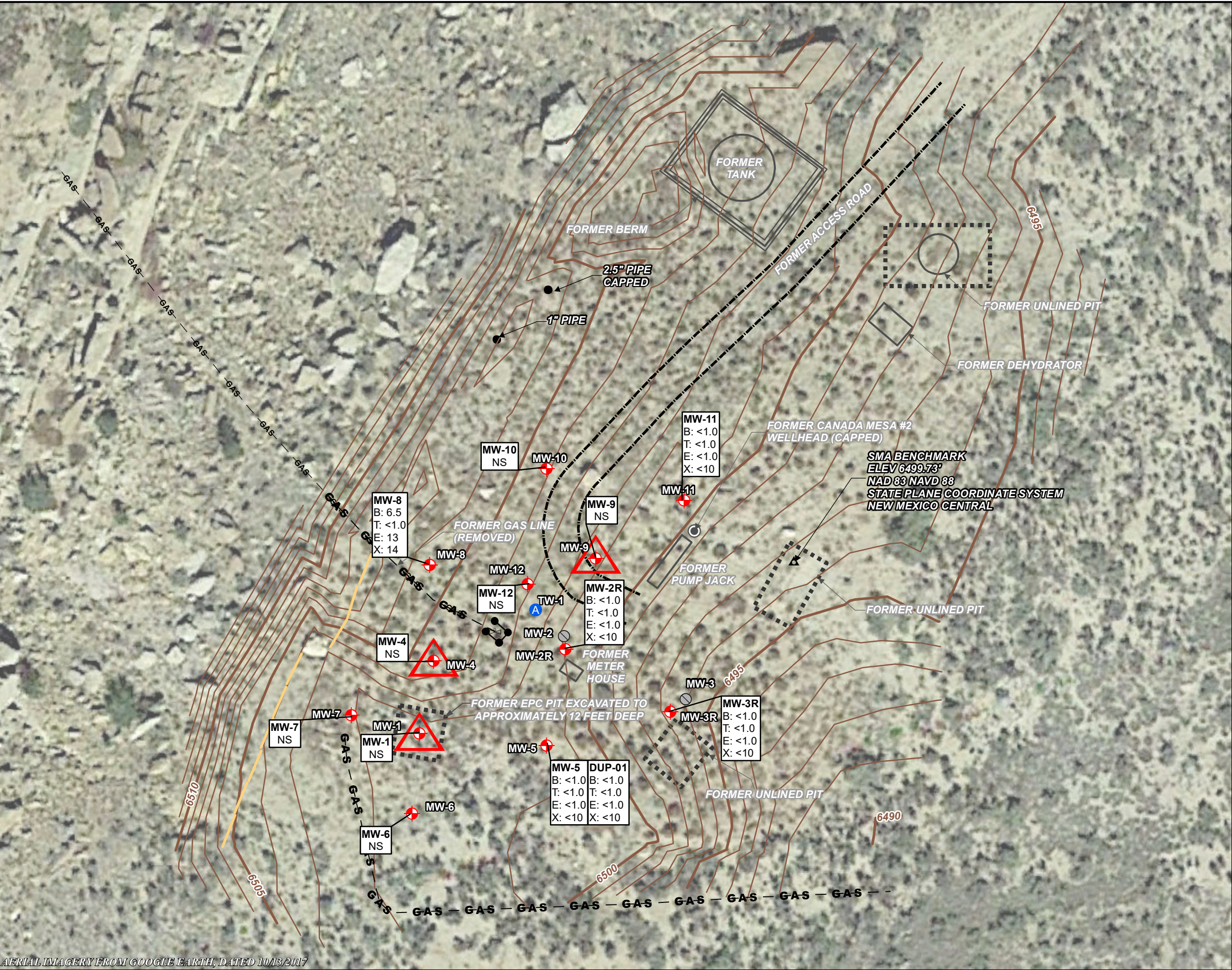
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\\cd1001-c200\CTX-CIFSS\VDI\Redirect\shansen\Desktop\GIS-NEW\MXDs\CANADA MESA #2\2024 MAPS\Canada_Mesa#2_GARM_2SA_2024.mxd



AERIAL IMAGERY FROM GOOGLE EARTH, DATED 10/13/2017

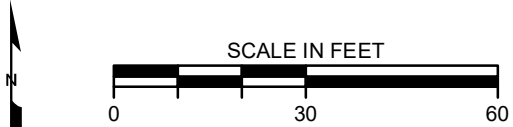
LEGEND:

- APPROXIMATE GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- BARRICADE
- NATURAL GAS LINE
- MONITORING WELL
- MONITORING WELL WITH MEASURABLE LNAPL
- TEST WELL
- ABANDONED MONITORING WELL
- SMA BENCHMARK
- PIPE
- FENCING
- FORMER WELLHEAD
- FORMER UNLINED PIT
- FORMER FEATURES

EXPLANATION OF ANALYTES AND APPLICABLE STANDARDS:

RESULTS IN **BOLDFACE/RED** TYPE INDICATE CONCENTRATION IN EXCESS OF THE STANDARD FOR THAT ANALYTE.
NS = NOT SAMPLED
µg/L = MICROGRAMS PER LITER
<1 = BELOW METHOD DETECTION LIMIT
LNAPL = LIGHT NON-AQUEOUS PHASE LIQUID

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



REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
A	2025-02-07	SAH	SAH	SRV

TITLE:
**GROUNDWATER ANALYTICAL RESULTS
NOVEMBER 14, 2024**

PROJECT: **CANADA MESA #2
SAN JUAN RIVER BASIN
RIO ARriba COUNTY, NEW MEXICO**



Figure No.:
5

APPENDICES

APPENDIX A – SITE HISTORY

APPENDIX B – NMOCD NOTIFICATION OF SITE ACTIVITIES

APPENDIX C – WASTE DISPOSAL DOCUMENTATION

APPENDIX D – GROUNDWATER ANALYTICAL LAB REPORTS

APPENDIX E – NMOSE WELL PERMITS

APPENDIX A

Site History

Site History
San Juan River Basin, New Mexico

Date	Source (Regulatory File #)	Event/Action	Description/Comments
10/2/1972	API # 30-039-20571	Application for Permit to Drill	Operator shown as Merrion and Bayless.
12/13/1972	API # 30-039-20571	Well Completion Report and Log	Date spudded 11/11/1972, first production 11/27/1972, date completed 11/28/1972.
6/9/1994	API # 30-039-20571	Pit Remediation and Closure Report	Remediation of 2 pits - the "Old BS&W Pit" and the "Old Earthen Pit". New fiberglass pit with liner was installed.
9/16/1995	nAUTOfAB000065	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	nAUTOfAB000065	EPFS Addendum to the Remediation Plan for Groundwater Encountered During Pit Closure Activities to NMOCD	Amends work plan to include installation of additional wells for delineation, define groundwater sampling parameters, and release closure following four consecutive quarters of results below NMWQCC standards.
11/30/1995	nAUTOfAB000065	NMOCD approval of the Remediation Plan with conditions	Approval of Remediation Plan and Addendum.
6/2/1997	nAUTOfAB000065 (Case # 3RP-155)	Semi-annual EPFS Pit Projects Groundwater Report	List pits where groundwater was encountered.
8/6/1997	nAUTOfAB000065 (Case # 3RP-155)	NMOCD review letter	Approves modifying reporting schedule from semi-annual to annual basis.
2/27/1998	nAUTOfAB000065 (Case # 3RP-155)	Philip Services Corp 1997 Annual Report (for EPFS)	Pit closure and installation of MW-1, quarterly groundwater monitoring and Passive LNAPL recovery from MW-1.
7/8/1998	nAUTOfAB000065 (Case # 3RP-155)	NMOCD review letter for 1997 Annual Groundwater Report (EPFS)	NMOCD requested EPFS work cooperatively with operator to investigate and remediate site.
3/31/1999	nAUTOfAB000065 (Case # 3RP-155)	Philip Services Corp 1998 Annual Report (for EPFS)	LNAPL recovery activities at MW-1.

Site History
San Juan River Basin, New Mexico

3/24/2000	nAUTOfAB000065 (Case # 3RP-155)	Philip Services Corp 1999 Annual Report (for EPFS)	LNAPL recovery activities and quarterly groundwater monitoring.
2/26/2001	nAUTOfAB000065 (Case # 3RP-155)	Philip Services Corp 2000 Annual Report (for EPFS)	Two additional monitoring wells (MW-2 and MW-3) installed and LNAPL recovery activities at MW-1
7/18/2001	nAUTOfAB000065 (Case # 3RP-155)	NMOCD review letter for 2000 Annual Groundwater Report (EPFS)	NMOCD requests EPFS work cooperatively with operator to investigate and remediate site.
2/28/2002	nAUTOfAB000065 (Case # 3RP-155)	MWH 2001 Annual Report (for EPFS)	LNAPL recovery activities at MW-1.
2/28/2003	nAUTOfAB000065 (Case # 3RP-155)	MWH 2002 Annual Report (for EPFS)	Annual groundwater monitoring. LNAPL recovery activities at MW-1.
2/26/2004	nAUTOfAB000065 (Case # 3RP-155)	MWH 2003 Annual Report (for EPFS)	Annual groundwater monitoring. LNAPL recovery activities at MW-1.
2/21/2005	nAUTOfAB000065 (Case # 3RP-155)	MWH 2004 Annual Report (for EPFS)	Quarterly LNAPL recovery at MW-1. Annual groundwater monitoring activities.
3/16/2006	nAUTOfAB000065 (Case # 3RP-155)	MWH 2005 Annual Report (for EPFS)	Annual groundwater monitoring. LNAPL recovery activities at MW-1.
3/2/2007	nAUTOfAB000065 (Case # 3RP-155)	MWH Final 2006 Annual Report (for EPTPC)	Annual groundwater monitoring. LNAPL recovery activities at MW-1.
4/2/2008	nAUTOfAB000065 (Case # 3RP-155)	MWH 2007 Annual Report (for EPTPC)	Annual groundwater monitoring. Passive skimmer installed for LNAPL recovery at MW- 1.
2/28/2009	nAUTOfAB000065 (Case # 3RP-155)	MWH 2008 Annual Groundwater Report (for EPTPC)	Quarterly LNAPL recovery at MW-1. Annual groundwater monitoring activities.
4/16/2010	nAUTOfAB000065 (Case # 3RP-155)	MWH Final 2009 Annual Report (for EPTPC)	Quarterly LNAPL recovery at MW-1. Annual groundwater monitoring activities.
3/2/2011	nAUTOfAB000065 (Case # 3RP-155)	MWH Final 2010 Annual Report (for EPTPC)	Quarterly LNAPL recovery at MW-1. Annual groundwater monitoring activities.
8/16/2012	nAUTOfAB000065 (Case # 3RP-155)	MWH 2011 Annual Report (for EPCGP)	Quarterly LNAPL recovery at MW-1. Annual groundwater monitoring activities.
2/8/2014	nAUTOfAB000065 (Case # 3RP-155)	MWH 2013 Annual Report (for EPCGP)	Annual groundwater monitoring. LNAPL recovery activities at MW-1.

Site History
San Juan River Basin, New Mexico

2/2/2015	nAUTOfAB000065 (Case # 3RP-155)	MWH 2014 Annual Report (for EPCGP)	Annual groundwater monitoring. LNAPL recovery activities at MW-1.
2/11/2016	nAUTOfAB000065 (Case # 3RP-155)	Stantec 2015 Annual Report (for EPCGP)	Annual groundwater monitoring. LNAPL recovery activities at MW-1.
3/20/2017	nAUTOfAB000065 (Case # 3RP-155)	Stantec 2016 Annual Report (for EPCGP)	Annual groundwater monitoring activities. LNAPL recovery at MW-1. Monitoring wells MW-2 and MW-3 abandoned in May 2016, ahead of Merrion Oil and Gas Company's reclamation activities.
6/2/2017	nAUTOfAB000065 (Case # 3RP-155)	NMOCD review letter for 2016 Annual Report	Requested remediation plan.
7/19/2017	nAUTOfAB000065 (Case # 3RP-155)	Response letter from EPCGP to NMOCD	Site was reclaimed in late 2016 by former operator, and delineation around monitoring well MW-1 is planned for 2018. Work plan will be submitted to NMOCD prior to that activity.
3/2/2018	nAUTOfAB000065 (Case # 3RP-155)	Stantec 2017 Annual Report (for EPCGP)	Annual groundwater monitoring activities.
3/20/2018	nAUTOfAB000065 (Case # 3RP-155)	NMOCD letter approving Stantec Groundwater Monitoring and Air Sparge/Soil Vapor Extraction Work Plan	Per the Work Plan, six additional monitoring wells would be installed.
3/28/2019	Not in NMOCD files	Stantec 2018 Annual Report (for EPCGP)	Six new monitoring wells installed and one soil boring advanced. Semi-annual groundwater monitoring activities. Two MDPE events conducted for LNAPL recovery.
6/28/2019	Not in NMOCD files	Stantec 2019 Monitoring Well Installation Work Plan (for EPCGP)	Two additional monitoring wells and four soil borings are proposed for further delineation of contamination.
4/1/2020	Not in NMOCD files	Stantec 2019 Annual Report (for EPCGP)	Two additional monitoring wells installed and four soil borings advanced. Semi-annual groundwater monitoring activities. LNAPL recovery activities.
4/8/2021	nAUTOfAB000065	Stantec 2020 Annual Report (for EPCGP)	Semi-annual groundwater monitoring activities. Quarterly LNAPL recovery activities.
8/23/2021	nAUTOfAB000065	Stantec Work Plan for LNAPL Recovery Activities	Work Plan for LNAPL recovery using MDPE.

Site History
San Juan River Basin, New Mexico

3/22/2022	nAUTOfAB000065	Stantec Monitoring Well Installation Activities Work Plan	Work plan proposed installation of two monitoring wells, MW-10 and MW-11.
3/29/2022	nAUTOfAB000065	Stantec 2021 Annual Report (for EPCGP)	Quarterly LNAPL recovery by manual methods. Semi-annual groundwater monitoring activities.
3/22/2023	nAUTOfAB000065	Stantec 2022 Annual Report (for EPCGP)	Two additional monitoring wells installed. Semi-annual groundwater monitoring. Quarterly LNAPL recovery activities. Report is stamped reviewed 5/22/2023 on OCD website.
7/17/2023	nAUTOfAB000065	Stantec Well Installation and Remedial Testing Feasibility Work Plan (for EPCGP)	Work Plan proposed installation of one monitoring well (MW-12) and one air sparge (AS) test well (TW-1). Work Plan also proposed AS and soil vapor extraction (SVE) feasibility testing. MDPE event was proposed to recover LNAPL. Work plan is stamped reviewed 8/11/2023 on OCD website.
3/20/2024	nAUTOfAB000065	Stantec 2023 Annual Report (for EPCGP)	Quarterly LNAPL recovery by manual methods. Semi-annual groundwater monitoring activities. Report approved by the NMOCD on 5/2/2024.

APPENDIX B

NMOCD Notification of Site Activities

From: OCDOnline@state.nm.us
To: [Varsa, Steve](#)
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 325364
Date: Thursday, March 21, 2024 3:30:52 AM

To whom it may concern (c/o Stephen Varsa for El Paso Natural Gas Company, L.L.C),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAUTOfAB000065.

The sampling event is expected to take place:

When: 03/28/2024 @ 15:00

Where: I-24-24N-06W 0 FNL 0 FEL (36.296081,-107.414109)

Additional Information: Sean Clary 913-980-0281. Quarterly LNAPL recovery.

Additional Instructions: At south end of 2 mile access road with "El Paso CGP Company" gate sign, on east side of the base of Canada Mesa.

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive

Santa Fe, NM 87505

Caution: This email originated from outside of Stantec. Please take extra precaution.

Attention: Ce courriel provient de l'extérieur de Stantec. Veuillez prendre des précautions supplémentaires.

Atención: Este correo electrónico proviene de fuera de Stantec. Por favor, tome precauciones adicionales.

From: [Varsa, Steve](#)
To: OCD.ENVIRO@EMNRD.NM.GOV
Cc: [Wiley, Joe](#); [Buchanan, Michael, EMNRD](#)
Subject: FW: El Paso CGP Company - Notice of upcoming groundwater sampling activities (nAUTOfAB000668 - State Gas Com N#1)
Date: Monday, May 13, 2024 7:23:34 AM

Please note the work at the subject location has been rescheduled for May 19, 2024. For the remaining sites below, note the correct year is 2024, not 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

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From: Varsa, Steve
Sent: Tuesday, May 7, 2024 4:34 PM
To: 'OCD.ENVIRO@EMNRD.NM.GOV' <OCD.ENVIRO@EMNRD.NM.GOV>
Cc: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Buchanan, Michael, EMNRD <Michael.Buchanan@emnrn.nm.gov>; Wiley, Joe <Joe_Wiley@kindermorgan.com>
Subject: El Paso CGP Company - Notice of upcoming groundwater sampling activities

Pursuant to El Paso CGP's Groundwater Remediation Plan, 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	5/15/2023
Fields A#7A	nAUTOfAB000176	5/17/2023
Fogelson 4-1	nAUTOfAB000192	5/14/2023
Gallegos Canyon Unit #124E	nAUTOfAB000205	5/14/2023
GCU Com A #142E	nAUTOfAB000219	5/13/2023
James F. Bell #1E	nAUTOfAB000291	5/14/2023
Johnston Fed #4	nAUTOfAB000305	5/15/2023
Johnston Fed #6A	nAUTOfAB000309	5/15/2023
K27 LDO72	nAUTOfAB000316	5/16/2023
Knight #1	nAUTOfAB000324	5/14/2023
Lateral L 40 Line Drip	nAUTOfAB000335	5/17/2023
Sandoval GC A #1A	nAUTOfAB000635	5/15/2023
Standard Oil Com #1	nAUTOfAB000666	5/16/2023
State Gas Com N #1	nAUTOfAB000668	5/13/2023

Quarterly operation and maintenance activities on the Knight #1 air sparge/soil vapor extraction system (Incident number nAUTOAB000324) are to occur on Monday, May 13, 2024.

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

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From: [Varsa, Steve](#)
To: OCD.ENVIRO@EMNRD.NM.GOV
Cc: [Buchanan, Michael, EMNRD](#); [Bratcher, Michael, EMNRD](#); [Wiley, Joe](#)
Subject: FW: El Paso CGP Company - Notice of upcoming third calendar quarter 2024 site activities
Date: Thursday, September 19, 2024 11:26:03 AM

Stantec was able to complete the LNAPL recovery activities at the Canada Mesa #2 and K27 LD072 locations on August 29, 2024, due to poor road conditions. We are planning to conduct this work on September 24, 2024.

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
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steve.varsa@stantec.com

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From: Varsa, Steve <steve.varsa@stantec.com>
Sent: Wednesday, August 21, 2024 9:44 AM
To: OCD.ENVIRO@EMNRD.NM.GOV
Cc: [Buchanan, Michael, EMNRD](#) <Michael.Buchanan@emnrd.nm.gov>; [Bratcher, Michael, EMNRD](#) <mike.bratcher@emnrd.nm.gov>; [Wiley, Joe](#) <joe_wiley@kindermorgan.com>
Subject: El Paso CGP Company - Notice of upcoming third calendar quarter 2024 site activities

This correspondence is to provide notice to the NMOCD of upcoming light nonaqueous-phase liquid (LNAPL) monitoring and recovery activities at the following El Paso CGP Company (EPCGP) project sites:

Site Name	Incident Number	Sample Date
Canada Mesa #2	nAUTOAB000065	8/29/2024
Fields A#7A	nAUTOAB000176	8/27/2024
Gallegos Canyon Unit #124E	nAUTOAB000205	8/28/2024
Johnston Fed #4	nAUTOAB000305	8/30/2024
Johnston Fed #6A	nAUTOAB000309	8/30/2024
K27 LDO72	nAUTOAB000316	8/29/2024
Knight #1	nAUTOAB000324	8/28/2024
State Gas Com N #1	nAUTOAB000668	8/26/2024

Quarterly groundwater sampling at the Gallegos Canyon Unit #124E and Johnston Federal #6A locations are also to be done concurrent to the LNAPL monitoring and recovery events.

Quarterly operation and maintenance activities on the Knight #1 air sparge/soil vapor extraction system (Incident number nAUTOAB000324) are to occur on Tuesday and Wednesday, August 27 and 28, 2024.

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: OCD.ENVIRO@EMNRD.NM.GOV
Cc: [Buchanan, Michael, EMNRD](#); [Bratcher, Michael, EMNRD](#); [Wiley, Joe](#)
Subject: El Paso CGP Company - Notice of upcoming groundwater sampling activities
Date: Monday, October 28, 2024 11:07:52 AM

Pursuant to El Paso CGP's Groundwater Remediation Plan, this correspondence is to provide notice to the NMOCDD 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	11/9/2024
Fields A#7A	nAUTOfAB000176	11/8/2024
Fogelson 4-1	nAUTOfAB000192	11/5/2024
Gallegos Canyon Unit #124E	nAUTOfAB000205	11/9/2024
GCU Com A #142E	nAUTOfAB000219	11/7/2024
James F. Bell #1E	nAUTOfAB000291	11/7/2024
Johnston Fed #4	nAUTOfAB000305	11/8/2024
Johnston Fed #6A	nAUTOfAB000309	11/8/2024
K27 LDO72	nAUTOfAB000316	11/9/2024
Knight #1	nAUTOfAB000324	11/5/2024
Lateral L 40 Line Drip	nAUTOfAB000335	11/10/2024
Sandoval GC A #1A	nAUTOfAB000635	11/8/2024
Standard Oil Com #1	nAUTOfAB000666	11/9/2024
State Gas Com N #1	nAUTOfAB000668	11/6/2024

Quarterly operation and maintenance activities on the Knight #1 air sparge/soil vapor extraction system (Incident number nAUTOAB000324) are to occur on Monday and Tuesday, November 4 and 5, 2024.

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

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APPENDIX C

Waste Disposal Documentation



envirotech

Bill of Lading

MANIFEST # 84352

GENERATOR EL Paso

POINT OF ORIGIN See^c-138 For list

TRANSPORTER Envirotech

DATE 03/29/24 JOB # 14073-0090

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

[illegible]

Generator Onsite Contact _____ Phone _____

Signatures required prior to distribution of the legal document.

DISTRIBUTION: **White** - Company Records / Billing **Yellow** - Customer **Pink** - LF Copy

BOL# 84352

CHLORIDE TESTING / PAINT FILTER TESTING

DATE 03/29/24 TIME 1000

Attach test strip here

CUSTOMER EL PasoSITE See the C-138 For ListDRIVER Austin FautzSAMPLE Soil Straight With Dirt XCHLORIDE TEST - 281 mg/KgACCEPTED YES X NO PAINT FILTER TEST Time started 1000 Time completed 1012PASS YES X NO SAMPLER/ANALYST Cary Rolinse

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 # 85181

GENERATOR EL PASO Pit Sites

POINT OF ORIGIN: See C-138 For

TRANSPORTER Location Envirotech

DATE 05/21/24 JOB # 14073-0090

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

[illegible]

Generator Onsite Contact _____ Phone _____

Signatures required prior to distribution of the legal document.

DISTRIBUTION: **White** - Company Records / Billing **Yellow** - Customer **Pink** - LF Copy

BOL# 85181

CHLORIDE TESTING / PAINT FILTER TESTING

DATE 05/21/24 TIME 0945

Attach test strip here

CUSTOMER ELPOSOSITE See C-138 For Johnston Fed 4DRIVER [Signature]SAMPLE Soil Straight _____ With Dirt XCHLORIDE TEST 434 mg/KgACCEPTED YES X NO _____PAINT FILTER TEST Time started 0945 Time completed 0959PASS YES X NO _____SAMPLER/ANALYST [Signature]

Bill of Lading

GENERATOR EL PASO

POINT OF ORIGIN See notes

TRANSPORTER Envirotech

DATE 09/24/24 JOB # 14073-0090

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

[illegible]

Generator Onsite Contact	Phone
--------------------------	-------

Signatures required prior to distribution of the legal document.

DISTRIBUTION: **White** - Company Records / Billing **Yellow** - Customer **Pink** - LF Copy

BOL# 87518

CHLORIDE TESTING / PAINT FILTER TESTING

DATE 09/24/24 TIME 1600 Attach test strip hereCUSTOMER EL PASOSITE Canada mesa #2, 1-27 Line DripDRIVER Justin TarteSAMPLE Soil Straight With Dirt XCHLORIDE TEST 274 mg/KgACCEPTED YES X NO PAINT FILTER TEST Time started 1600 Time completed 1610PASS YES X NO SAMPLER/ANALYST Carly



envirotech

Bill of Lading

Envirotech Inv 66775 on 11/14/24

MANIFEST # 88384

GENERATOR RIPOSO see list below

POINT OF ORIGIN Rio Vista Comp Station

TRANSPORTER E Tech

DATE 11/15/24 JOB # 14073 - 0090

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

[illegible]

Generator Onsite Contact	Phone
--------------------------	-------

Signatures required prior to distribution of the legal document.

DISTRIBUTION: **White** - Company Records / Billing **Yellow** - Customer **Pink** - LF Copy

BOL# 88384

CHLORIDE TESTING / PAINT FILTER TESTING

DATE 11/15/24TIME 11:00

Attach test strip here

CUSTOMER EL PASOSITE Rio Vista Comp Station ^{SEE LIST} ^{PEU} _{See BOL for List}DRIVER [Signature]

SAMPLE

Soil _____ Straight _____ With Dirt X

CHLORIDE TEST

400 mg/Kg

ACCEPTED

YES

X

NO

PAINT FILTER TEST

Time started

11:00

Time completed

11:10

PASS

YES

X

NO

SAMPLER/ANALYST [Signature]

APPENDIX D

Groundwater Analytical Laboratory Reports



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 5/31/2024 9:23:20 AM

JOB DESCRIPTION

Canada Mesa #2.00

JOB NUMBER

400-256229-1

Eurofins Pensacola
3355 McLemore Drive
Pensacola FL 32514

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
5/31/2024 9:23:20 AM

Authorized for release by
Isabel Enfinger, Project Manager I
isabel.enfinger@et.eurofinsus.com
Designee for
Cheyenne Whitmire, Senior Project Manager
Cheyenne.Whitmire@et.eurofinsus.com
(850)471-6222

Client: Stantec Consulting Services, Inc.
Project/Site: Canada Mesa #2.00

Laboratory Job ID: 400-256229-1

Table of Contents

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Case Narrative

Client: Stantec Consulting Services, Inc.
Project: Canada Mesa #2.00

Job ID: 400-256229-1

Job ID: 400-256229-1Eurofins Pensacola

Job Narrative
400-256229-1

Receipt

The samples were received on 5/18/2024 8:32 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.5° C.

GC/MS VOA

Method 8260D: The matrix spike (MS) recoveries for analytical batch 400-672311 were outside control limits. Sample matrix interference 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.

Eurofins Pensacola

Detection Summary

Client: Stantec Consulting Services, Inc.
Project/Site: Canada Mesa #2.00

Job ID: 400-256229-1

Client Sample ID: TB-01

Lab Sample ID: 400-256229-1

No Detections.

Client Sample ID: DUP-01

Lab Sample ID: 400-256229-2

No Detections.

Client Sample ID: MW-2R

Lab Sample ID: 400-256229-3

No Detections.

Client Sample ID: MW-3R

Lab Sample ID: 400-256229-4

No Detections.

Client Sample ID: MW-5

Lab Sample ID: 400-256229-5

No Detections.

Client Sample ID: MW-8

Lab Sample ID: 400-256229-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.0		1.0		ug/L	1		8260D	Total/NA
Ethylbenzene	5.5		1.0		ug/L	1		8260D	Total/NA

Client Sample ID: MW-11

Lab Sample ID: 400-256229-7

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Pensacola

Method Summary

Client: Stantec Consulting Services, Inc.
Project/Site: Canada Mesa #2.00

Job ID: 400-256229-1

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

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Sample Summary

Client: Stantec Consulting Services, Inc.
Project/Site: Canada Mesa #2.00

Job ID: 400-256229-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-256229-1	TB-01	Water	05/16/24 16:30	05/18/24 08:32
400-256229-2	DUP-01	Water	05/16/24 00:00	05/18/24 08:32
400-256229-3	MW-2R	Water	05/16/24 16:55	05/18/24 08:32
400-256229-4	MW-3R	Water	05/16/24 17:00	05/18/24 08:32
400-256229-5	MW-5	Water	05/16/24 16:35	05/18/24 08:32
400-256229-6	MW-8	Water	05/16/24 16:40	05/18/24 08:32
400-256229-7	MW-11	Water	05/16/24 16:50	05/18/24 08:32

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Client Sample Results

Client: Stantec Consulting Services, Inc.
Project/Site: Canada Mesa #2.00

Job ID: 400-256229-1

Client Sample ID: TB-01
Date Collected: 05/16/24 16:30
Date Received: 05/18/24 08:32

Lab Sample ID: 400-256229-1
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			05/29/24 17:06	1
Ethylbenzene	<1.0		1.0		ug/L			05/29/24 17:06	1
Toluene	<1.0		1.0		ug/L			05/29/24 17:06	1
Xylenes, Total	<10		10		ug/L			05/29/24 17:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	104		72 - 130		05/29/24 17:06	1
Dibromofluoromethane	95		75 - 126		05/29/24 17:06	1
Toluene-d8 (Surr)	100		64 - 132		05/29/24 17:06	1

Client Sample Results

Client: Stantec Consulting Services, Inc.
Project/Site: Canada Mesa #2.00

Job ID: 400-256229-1

Client Sample ID: DUP-01
Date Collected: 05/16/24 00:00
Date Received: 05/18/24 08:32

Lab Sample ID: 400-256229-2
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			05/29/24 17:31	1
Ethylbenzene	<1.0		1.0		ug/L			05/29/24 17:31	1
Toluene	<1.0		1.0		ug/L			05/29/24 17:31	1
Xylenes, Total	<10		10		ug/L			05/29/24 17:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	107		72 - 130		05/29/24 17:31	1
Dibromofluoromethane	98		75 - 126		05/29/24 17:31	1
Toluene-d8 (Surr)	101		64 - 132		05/29/24 17:31	1

Client Sample Results

Client: Stantec Consulting Services, Inc.
Project/Site: Canada Mesa #2.00

Job ID: 400-256229-1

Client Sample ID: MW-2R
Date Collected: 05/16/24 16:55
Date Received: 05/18/24 08:32

Lab Sample ID: 400-256229-3
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			05/22/24 14:47	1
Ethylbenzene	<1.0		1.0		ug/L			05/22/24 14:47	1
Toluene	<1.0		1.0		ug/L			05/22/24 14:47	1
Xylenes, Total	<10		10		ug/L			05/22/24 14:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	117		72 - 130		05/22/24 14:47	1
Dibromofluoromethane	101		75 - 126		05/22/24 14:47	1
Toluene-d8 (Surr)	102		64 - 132		05/22/24 14:47	1

Client Sample Results

Client: Stantec Consulting Services, Inc.
Project/Site: Canada Mesa #2.00

Job ID: 400-256229-1

Client Sample ID: MW-3R
Date Collected: 05/16/24 17:00
Date Received: 05/18/24 08:32

Lab Sample ID: 400-256229-4
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			05/29/24 17:56	1
Ethylbenzene	<1.0		1.0		ug/L			05/29/24 17:56	1
Toluene	<1.0		1.0		ug/L			05/29/24 17:56	1
Xylenes, Total	<10		10		ug/L			05/29/24 17:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	105		72 - 130					05/29/24 17:56	1
Dibromofluoromethane	92		75 - 126					05/29/24 17:56	1
Toluene-d8 (Surr)	100		64 - 132					05/29/24 17:56	1

Client Sample Results

Client: Stantec Consulting Services, Inc.
Project/Site: Canada Mesa #2.00

Job ID: 400-256229-1

Client Sample ID: MW-5
Date Collected: 05/16/24 16:35
Date Received: 05/18/24 08:32

Lab Sample ID: 400-256229-5
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			05/29/24 18:21	1
Ethylbenzene	<1.0		1.0		ug/L			05/29/24 18:21	1
Toluene	<1.0		1.0		ug/L			05/29/24 18:21	1
Xylenes, Total	<10		10		ug/L			05/29/24 18:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	104		72 - 130					05/29/24 18:21	1
Dibromofluoromethane	95		75 - 126					05/29/24 18:21	1
Toluene-d8 (Surr)	100		64 - 132					05/29/24 18:21	1

Client Sample Results

Client: Stantec Consulting Services, Inc.
Project/Site: Canada Mesa #2.00

Job ID: 400-256229-1

Client Sample ID: MW-8
Date Collected: 05/16/24 16:40
Date Received: 05/18/24 08:32

Lab Sample ID: 400-256229-6
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			05/29/24 18:46	1
Ethylbenzene	5.5		1.0		ug/L			05/29/24 18:46	1
Toluene	<1.0		1.0		ug/L			05/29/24 18:46	1
Xylenes, Total	<10		10		ug/L			05/29/24 18:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	110		72 - 130					05/29/24 18:46	1
Dibromofluoromethane	99		75 - 126					05/29/24 18:46	1
Toluene-d8 (Surr)	101		64 - 132					05/29/24 18:46	1

Client Sample Results

Client: Stantec Consulting Services, Inc.
Project/Site: Canada Mesa #2.00

Job ID: 400-256229-1

Client Sample ID: MW-11
Date Collected: 05/16/24 16:50
Date Received: 05/18/24 08:32

Lab Sample ID: 400-256229-7
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			05/29/24 19:11	1
Ethylbenzene	<1.0		1.0		ug/L			05/29/24 19:11	1
Toluene	<1.0		1.0		ug/L			05/29/24 19:11	1
Xylenes, Total	<10		10		ug/L			05/29/24 19:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	101		72 - 130					05/29/24 19:11	1
Dibromofluoromethane	98		75 - 126					05/29/24 19:11	1
Toluene-d8 (Surr)	99		64 - 132					05/29/24 19:11	1

Definitions/Glossary

Client: Stantec Consulting Services, Inc.
Project/Site: Canada Mesa #2.00

Job ID: 400-256229-1

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: Canada Mesa #2.00

Job ID: 400-256229-1

Client Sample ID: TB-01**Lab Sample ID: 400-256229-1****Date Collected: 05/16/24 16:30****Matrix: Water****Date Received: 05/18/24 08:32**

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	672973	05/29/24 17:06	CAR	EET PEN

Client Sample ID: DUP-01**Lab Sample ID: 400-256229-2****Date Collected: 05/16/24 00:00****Matrix: Water****Date Received: 05/18/24 08:32**

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	672973	05/29/24 17:31	CAR	EET PEN

Client Sample ID: MW-2R**Lab Sample ID: 400-256229-3****Date Collected: 05/16/24 16:55****Matrix: Water****Date Received: 05/18/24 08:32**

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	672311	05/22/24 14:47	WPD	EET PEN

Client Sample ID: MW-3R**Lab Sample ID: 400-256229-4****Date Collected: 05/16/24 17:00****Matrix: Water****Date Received: 05/18/24 08:32**

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	672973	05/29/24 17:56	CAR	EET PEN

Client Sample ID: MW-5**Lab Sample ID: 400-256229-5****Date Collected: 05/16/24 16:35****Matrix: Water****Date Received: 05/18/24 08:32**

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	672973	05/29/24 18:21	CAR	EET PEN

Client Sample ID: MW-8**Lab Sample ID: 400-256229-6****Date Collected: 05/16/24 16:40****Matrix: Water****Date Received: 05/18/24 08:32**

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	672973	05/29/24 18:46	CAR	EET PEN

Client Sample ID: MW-11**Lab Sample ID: 400-256229-7****Date Collected: 05/16/24 16:50****Matrix: Water****Date Received: 05/18/24 08:32**

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	672973	05/29/24 19:11	CAR	EET PEN

Eurofins Pensacola

Lab Chronicle

Client: Stantec Consulting Services, Inc.
Project/Site: Canada Mesa #2.00

Job ID: 400-256229-1

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

Lab Sample ID: MB 400-672311/4
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	672311	05/22/24 08:17	WPD	EET PEN

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

Lab Sample ID: MB 400-672973/4
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	672973	05/29/24 09:43	CAR	EET PEN

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

Lab Sample ID: LCS 400-672311/1002
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	672311	05/22/24 07:19	WPD	EET PEN

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

Lab Sample ID: LCS 400-672973/1002
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	672973	05/29/24 08:38	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: Canada Mesa #2.00

Job ID: 400-256229-1

GC/MS VOA

Analysis Batch: 672311

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-256229-3	MW-2R	Total/NA	Water	8260D	
MB 400-672311/4	Method Blank	Total/NA	Water	8260D	
LCS 400-672311/1002	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 672973

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-256229-1	TB-01	Total/NA	Water	8260D	
400-256229-2	DUP-01	Total/NA	Water	8260D	
400-256229-4	MW-3R	Total/NA	Water	8260D	
400-256229-5	MW-5	Total/NA	Water	8260D	
400-256229-6	MW-8	Total/NA	Water	8260D	
400-256229-7	MW-11	Total/NA	Water	8260D	
MB 400-672973/4	Method Blank	Total/NA	Water	8260D	
LCS 400-672973/1002	Lab Control Sample	Total/NA	Water	8260D	

QC Sample Results

Client: Stantec Consulting Services, Inc.
Project/Site: Canada Mesa #2.00

Job ID: 400-256229-1

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

Lab Sample ID: MB 400-672311/4

Matrix: Water

Analysis Batch: 672311

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			05/22/24 08:17	1
Ethylbenzene	<1.0		1.0		ug/L			05/22/24 08:17	1
Toluene	<1.0		1.0		ug/L			05/22/24 08:17	1
Xylenes, Total	<10		10		ug/L			05/22/24 08:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	109		72 - 130		05/22/24 08:17	1
Dibromofluoromethane	100		75 - 126		05/22/24 08:17	1
Toluene-d8 (Surr)	100		64 - 132		05/22/24 08:17	1

Lab Sample ID: LCS 400-672311/1002

Matrix: Water

Analysis Batch: 672311

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	40.7		ug/L		81	70 - 130
m-Xylene & p-Xylene	50.0	46.7		ug/L		93	70 - 130
o-Xylene	50.0	46.3		ug/L		93	70 - 130
Ethylbenzene	50.0	45.5		ug/L		91	70 - 130
Toluene	50.0	42.6		ug/L		85	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	106		72 - 130
Dibromofluoromethane	100		75 - 126
Toluene-d8 (Surr)	103		64 - 132
1,2-Dichloroethane-d4 (Surr)	111		67 - 134

Lab Sample ID: MB 400-672973/4

Matrix: Water

Analysis Batch: 672973

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			05/29/24 09:43	1
Ethylbenzene	<1.0		1.0		ug/L			05/29/24 09:43	1
Toluene	<1.0		1.0		ug/L			05/29/24 09:43	1
Xylenes, Total	<10		10		ug/L			05/29/24 09:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	106		72 - 130		05/29/24 09:43	1
Dibromofluoromethane	94		75 - 126		05/29/24 09:43	1
Toluene-d8 (Surr)	99		64 - 132		05/29/24 09:43	1

Lab Sample ID: LCS 400-672973/1002

Matrix: Water

Analysis Batch: 672973

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	47.9		ug/L		96	70 - 130

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QC Sample Results

Client: Stantec Consulting Services, Inc.
Project/Site: Canada Mesa #2.00

Job ID: 400-256229-1

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

Lab Sample ID: LCS 400-672973/1002				Client Sample ID: Lab Control Sample			
Matrix: Water				Prep Type: Total/NA			
Analysis Batch: 672973							
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
m-Xylene & p-Xylene	50.0	50.3		ug/L		101	70 - 130
o-Xylene	50.0	50.6		ug/L		101	70 - 130
Ethylbenzene	50.0	51.5		ug/L		103	70 - 130
Toluene	50.0	44.7		ug/L		89	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene	105		72 - 130				
Dibromofluoromethane	99		75 - 126				
Toluene-d8 (Surr)	95		64 - 132				
1,2-Dichloroethane-d4 (Surr)	103		67 - 134				

Age Group	Number of People
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14

Login Sample Receipt Checklist

Client: Stantec Consulting Services, Inc.

Job Number: 400-256229-1

Login Number: 256229

List Source: Eurofins Pensacola

List Number: 1

Creator: Perez, Trina M

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.5°C IR-11
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 $<6\text{mm}$ (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.
Project/Site: Canada Mesa #2.00

Job ID: 400-256229-1

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	12-31-24
North Carolina (WW/SW)	State	314	12-31-24
Oklahoma	NELAP	9810	08-31-24
Pennsylvania	NELAP	68-00467	01-31-25
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	01-09-26
USDA	US Federal Programs	FLGNV23001	01-08-26
Virginia	NELAP	460166	06-14-24
West Virginia DEP	State	136	03-31-25



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 11/30/2024 10:47:47 AM

JOB DESCRIPTION

Canada Mesa #2.00

JOB NUMBER

400-266185-1

Eurofins Pensacola
3355 McLemore Drive
Pensacola FL 32514

See page two for job notes and contact information.



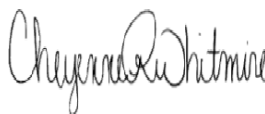
Eurofins Pensacola

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
11/30/2024 10:47:47 AM

Authorized for release by
Cheyenne Whitmire, Senior Project Manager
Cheyenne.Whitmire@et.eurofinsus.com
(850)471-6222

Client: Stantec Consulting Services, Inc.
Project/Site: Canada Mesa #2.00

Laboratory Job ID: 400-266185-1

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Detection Summary

Client: Stantec Consulting Services, Inc.
Project/Site: Canada Mesa #2.00

Job ID: 400-266185-1

Client Sample ID: TB-01

Lab Sample ID: 400-266185-1

No Detections.

Client Sample ID: MW-2R

Lab Sample ID: 400-266185-2

No Detections.

Client Sample ID: MW-3R

Lab Sample ID: 400-266185-3

No Detections.

Client Sample ID: MW-5

Lab Sample ID: 400-266185-4

No Detections.

Client Sample ID: MW-8

Lab Sample ID: 400-266185-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	6.5		1.0		ug/L	1		8260D	Total/NA
Ethylbenzene	13		1.0		ug/L	1		8260D	Total/NA
Xylenes, Total	14		10		ug/L	1		8260D	Total/NA

Client Sample ID: MW-11

Lab Sample ID: 400-266185-6

No Detections.

Client Sample ID: DUP-01

Lab Sample ID: 400-266185-7

No Detections.

This Detection Summary does not include radiochemical test results.

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Method Summary

Client: Stantec Consulting Services, Inc.
Project/Site: Canada Mesa #2.00

Job ID: 400-266185-1

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

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Sample Summary

Client: Stantec Consulting Services, Inc.
Project/Site: Canada Mesa #2.00

Job ID: 400-266185-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-266185-1	TB-01	Water	11/14/24 07:30	11/16/24 09:27
400-266185-2	MW-2R	Water	11/14/24 07:50	11/16/24 09:27
400-266185-3	MW-3R	Water	11/14/24 08:14	11/16/24 09:27
400-266185-4	MW-5	Water	11/14/24 08:20	11/16/24 09:27
400-266185-5	MW-8	Water	11/14/24 08:31	11/16/24 09:27
400-266185-6	MW-11	Water	11/14/24 08:36	11/16/24 09:27
400-266185-7	DUP-01	Water	11/14/24 00:00	11/16/24 09:27



Client Sample Results

Client: Stantec Consulting Services, Inc.
Project/Site: Canada Mesa #2.00

Job ID: 400-266185-1

Client Sample ID: TB-01
Date Collected: 11/14/24 07:30
Date Received: 11/16/24 09:27

Lab Sample ID: 400-266185-1
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			11/26/24 14:23	1
Ethylbenzene	<1.0		1.0		ug/L			11/26/24 14:23	1
Toluene	<1.0		1.0		ug/L			11/26/24 14:23	1
Xylenes, Total	<10		10		ug/L			11/26/24 14:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	101		72 - 130		11/26/24 14:23	1
Dibromofluoromethane	96		75 - 126		11/26/24 14:23	1
Toluene-d8 (Surr)	101		64 - 132		11/26/24 14:23	1

Client Sample Results

Client: Stantec Consulting Services, Inc.
Project/Site: Canada Mesa #2.00

Job ID: 400-266185-1

Client Sample ID: MW-2R
Date Collected: 11/14/24 07:50
Date Received: 11/16/24 09:27

Lab Sample ID: 400-266185-2
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			11/20/24 11:43	1
Ethylbenzene	<1.0		1.0		ug/L			11/20/24 11:43	1
Toluene	<1.0		1.0		ug/L			11/20/24 11:43	1
Xylenes, Total	<10		10		ug/L			11/20/24 11:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	92		72 - 130		11/20/24 11:43	1
Dibromofluoromethane	103		75 - 126		11/20/24 11:43	1
Toluene-d8 (Surr)	99		64 - 132		11/20/24 11:43	1

Client Sample Results

Client: Stantec Consulting Services, Inc.
Project/Site: Canada Mesa #2.00

Job ID: 400-266185-1

Client Sample ID: MW-3R
Date Collected: 11/14/24 08:14
Date Received: 11/16/24 09:27

Lab Sample ID: 400-266185-3
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			11/26/24 14:46	1
Ethylbenzene	<1.0		1.0		ug/L			11/26/24 14:46	1
Toluene	<1.0		1.0		ug/L			11/26/24 14:46	1
Xylenes, Total	<10		10		ug/L			11/26/24 14:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	103		72 - 130		11/26/24 14:46	1
Dibromofluoromethane	98		75 - 126		11/26/24 14:46	1
Toluene-d8 (Surr)	103		64 - 132		11/26/24 14:46	1

Client Sample Results

Client: Stantec Consulting Services, Inc.
Project/Site: Canada Mesa #2.00

Job ID: 400-266185-1

Client Sample ID: MW-5
Date Collected: 11/14/24 08:20
Date Received: 11/16/24 09:27

Lab Sample ID: 400-266185-4
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			11/26/24 15:08	1
Ethylbenzene	<1.0		1.0		ug/L			11/26/24 15:08	1
Toluene	<1.0		1.0		ug/L			11/26/24 15:08	1
Xylenes, Total	<10		10		ug/L			11/26/24 15:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	111		72 - 130		11/26/24 15:08	1
Dibromofluoromethane	99		75 - 126		11/26/24 15:08	1
Toluene-d8 (Surr)	106		64 - 132		11/26/24 15:08	1

Client Sample Results

Client: Stantec Consulting Services, Inc.
Project/Site: Canada Mesa #2.00

Job ID: 400-266185-1

Client Sample ID: MW-8

Lab Sample ID: 400-266185-5

Date Collected: 11/14/24 08:31

Matrix: Water

Date Received: 11/16/24 09:27

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	6.5		1.0		ug/L			11/26/24 15:31	1
Ethylbenzene	13		1.0		ug/L			11/26/24 15:31	1
Toluene	<1.0		1.0		ug/L			11/26/24 15:31	1
Xylenes, Total	14		10		ug/L			11/26/24 15:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	123		72 - 130		11/26/24 15:31	1
Dibromofluoromethane	99		75 - 126		11/26/24 15:31	1
Toluene-d8 (Surr)	108		64 - 132		11/26/24 15:31	1

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Client Sample Results

Client: Stantec Consulting Services, Inc.
Project/Site: Canada Mesa #2.00

Job ID: 400-266185-1

Client Sample ID: MW-11
Date Collected: 11/14/24 08:36
Date Received: 11/16/24 09:27

Lab Sample ID: 400-266185-6
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			11/26/24 15:54	1
Ethylbenzene	<1.0		1.0		ug/L			11/26/24 15:54	1
Toluene	<1.0		1.0		ug/L			11/26/24 15:54	1
Xylenes, Total	<10		10		ug/L			11/26/24 15:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	106		72 - 130		11/26/24 15:54	1
Dibromofluoromethane	98		75 - 126		11/26/24 15:54	1
Toluene-d8 (Surr)	106		64 - 132		11/26/24 15:54	1

Client Sample Results

Client: Stantec Consulting Services, Inc.
Project/Site: Canada Mesa #2.00

Job ID: 400-266185-1

Client Sample ID: DUP-01
Date Collected: 11/14/24 00:00
Date Received: 11/16/24 09:27

Lab Sample ID: 400-266185-7
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			11/26/24 16:16	1
Ethylbenzene	<1.0		1.0		ug/L			11/26/24 16:16	1
Toluene	<1.0		1.0		ug/L			11/26/24 16:16	1
Xylenes, Total	<10		10		ug/L			11/26/24 16:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	106		72 - 130		11/26/24 16:16	1
Dibromofluoromethane	100		75 - 126		11/26/24 16:16	1
Toluene-d8 (Surr)	104		64 - 132		11/26/24 16:16	1

Definitions/Glossary

Client: Stantec Consulting Services, Inc.
Project/Site: Canada Mesa #2.00

Job ID: 400-266185-1

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: Canada Mesa #2.00

Job ID: 400-266185-1

Client Sample ID: TB-01**Lab Sample ID: 400-266185-1****Date Collected: 11/14/24 07:30****Matrix: Water****Date Received: 11/16/24 09:27**

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	692447	11/26/24 14:23	WPD	EET PEN

Client Sample ID: MW-2R**Lab Sample ID: 400-266185-2****Date Collected: 11/14/24 07:50****Matrix: Water****Date Received: 11/16/24 09:27**

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	691766	11/20/24 11:43	WPD	EET PEN

Client Sample ID: MW-3R**Lab Sample ID: 400-266185-3****Date Collected: 11/14/24 08:14****Matrix: Water****Date Received: 11/16/24 09:27**

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	692447	11/26/24 14:46	WPD	EET PEN

Client Sample ID: MW-5**Lab Sample ID: 400-266185-4****Date Collected: 11/14/24 08:20****Matrix: Water****Date Received: 11/16/24 09:27**

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	692447	11/26/24 15:08	WPD	EET PEN

Client Sample ID: MW-8**Lab Sample ID: 400-266185-5****Date Collected: 11/14/24 08:31****Matrix: Water****Date Received: 11/16/24 09:27**

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	692447	11/26/24 15:31	WPD	EET PEN

Client Sample ID: MW-11**Lab Sample ID: 400-266185-6****Date Collected: 11/14/24 08:36****Matrix: Water****Date Received: 11/16/24 09:27**

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	692447	11/26/24 15:54	WPD	EET PEN

Client Sample ID: DUP-01**Lab Sample ID: 400-266185-7****Date Collected: 11/14/24 00:00****Matrix: Water****Date Received: 11/16/24 09:27**

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	692447	11/26/24 16:16	WPD	EET PEN

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Lab Chronicle

Client: Stantec Consulting Services, Inc.
Project/Site: Canada Mesa #2.00

Job ID: 400-266185-1

Client Sample ID: Method Blank**Lab Sample ID: MB 400-691766/5****Date Collected: N/A****Matrix: Water****Date Received: N/A**

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	691766	11/20/24 08:25	WPD	EET PEN

Client Sample ID: Method Blank**Lab Sample ID: MB 400-692447/4****Date Collected: N/A****Matrix: Water****Date Received: N/A**

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	692447	11/26/24 09:28	WPD	EET PEN

Client Sample ID: Lab Control Sample**Lab Sample ID: LCS 400-691766/1002****Date Collected: N/A****Matrix: Water****Date Received: N/A**

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	691766	11/20/24 07:19	WPD	EET PEN

Client Sample ID: Lab Control Sample**Lab Sample ID: LCS 400-692447/1002****Date Collected: N/A****Matrix: Water****Date Received: N/A**

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	692447	11/26/24 08:33	WPD	EET PEN

Laboratory References:

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

Eurofins Pensacola

QC Association Summary

Client: Stantec Consulting Services, Inc.
Project/Site: Canada Mesa #2.00

Job ID: 400-266185-1

GC/MS VOA

Analysis Batch: 691766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-266185-2	MW-2R	Total/NA	Water	8260D	
MB 400-691766/5	Method Blank	Total/NA	Water	8260D	
LCS 400-691766/1002	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 692447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-266185-1	TB-01	Total/NA	Water	8260D	
400-266185-3	MW-3R	Total/NA	Water	8260D	
400-266185-4	MW-5	Total/NA	Water	8260D	
400-266185-5	MW-8	Total/NA	Water	8260D	
400-266185-6	MW-11	Total/NA	Water	8260D	
400-266185-7	DUP-01	Total/NA	Water	8260D	
MB 400-692447/4	Method Blank	Total/NA	Water	8260D	
LCS 400-692447/1002	Lab Control Sample	Total/NA	Water	8260D	

QC Sample Results

Client: Stantec Consulting Services, Inc.
Project/Site: Canada Mesa #2.00

Job ID: 400-266185-1

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

Lab Sample ID: MB 400-691766/5

Matrix: Water

Analysis Batch: 691766

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			11/20/24 08:25	1
Ethylbenzene	<1.0		1.0		ug/L			11/20/24 08:25	1
Toluene	<1.0		1.0		ug/L			11/20/24 08:25	1
Xylenes, Total	<10		10		ug/L			11/20/24 08:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	85		72 - 130		11/20/24 08:25	1
Dibromofluoromethane	104		75 - 126		11/20/24 08:25	1
Toluene-d8 (Surr)	94		64 - 132		11/20/24 08:25	1

Lab Sample ID: LCS 400-691766/1002

Matrix: Water

Analysis Batch: 691766

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	50.0	45.0		ug/L		90	70 - 130
m-Xylene & p-Xylene	50.0	45.1		ug/L		90	70 - 130
o-Xylene	50.0	45.6		ug/L		91	70 - 130
Ethylbenzene	50.0	47.5		ug/L		95	70 - 130
Toluene	50.0	47.9		ug/L		96	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	96		72 - 130
Dibromofluoromethane	83		75 - 126
Toluene-d8 (Surr)	97		64 - 132
1,2-Dichloroethane-d4 (Surr)	69		67 - 134

Lab Sample ID: MB 400-692447/4

Matrix: Water

Analysis Batch: 692447

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			11/26/24 09:28	1
Ethylbenzene	<1.0		1.0		ug/L			11/26/24 09:28	1
Toluene	<1.0		1.0		ug/L			11/26/24 09:28	1
Xylenes, Total	<10		10		ug/L			11/26/24 09:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	101		72 - 130		11/26/24 09:28	1
Dibromofluoromethane	98		75 - 126		11/26/24 09:28	1
Toluene-d8 (Surr)	102		64 - 132		11/26/24 09:28	1

Lab Sample ID: LCS 400-692447/1002

Matrix: Water

Analysis Batch: 692447

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	50.0	53.2		ug/L		106	70 - 130

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QC Sample Results

Client: Stantec Consulting Services, Inc.
Project/Site: Canada Mesa #2.00

Job ID: 400-266185-1

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

Lab Sample ID: LCS 400-692447/1002				Client Sample ID: Lab Control Sample			
Matrix: Water				Prep Type: Total/NA			
Analysis Batch: 692447							
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
m-Xylene & p-Xylene	50.0	52.6		ug/L		105	70 - 130
o-Xylene	50.0	54.4		ug/L		109	70 - 130
Ethylbenzene	50.0	55.3		ug/L		111	70 - 130
Toluene	50.0	55.9		ug/L		112	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene	99		72 - 130				
Dibromofluoromethane	98		75 - 126				
Toluene-d8 (Surr)	101		64 - 132				
1,2-Dichloroethane-d4 (Surr)	112		67 - 134				

Eurofins Pensacola

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

Chain of Custody Record



Environment Testing

Client Information		Sampler: Sean Clary		Lab PM: Whitmire, Cheyenne R		400-266185 COC		Carrier Tracking No(s):		COC No: 400-134757-41339.1													
Client Contact: Steve Varsa		Phone: 913 980 0281		E-Mail: Cheyenne.Whitmire@et.eurofinsus.com		State of Origin: NM		Page: Page 1 of 1		Job #:													
Company: Stantec Consulting Services, Inc.		PWSID:		Analysis Requested								Preservation Codes: A - HCL N - None											
Address: 11311 Aurora Avenue		Due Date Requested:		<div>8260D - BTEX - 8260</div> <div>8260D - BTEX - 8260</div>								Other:											
City: Des Moines		TAT Requested (days): Standard																					
State, Zip: IA, 50322-7904		Compliance Project: Δ Yes / No																					
Phone: 515 253 0830		PO #: WD1040036																					
Email: steve.varsa@stantec.com		WO #: Canada Mesa #2_ERG_ARF_10-25-2024																					
Project Name: Canada Mesa #2.00		Project #: 40015823																					
Site:		SSOW#:																					
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oli, BT=Tissue, A=Air)		Special Instructions/Note:													
TB-01		11-14-2024		0730		G		Water															
MW-2R		11-14-2024		0750		G		Water															
MW-3R		11-14-2024		0814		G		Water															
MW-5		11-14-2024		0820		G		Water															
MW-8		11-14-2024		0831		G		Water															
MW-11		11-14-2024		0836		G		Water															
Dup-01		11-14-2024		---		G		Water															
								Water															
								Water															
								Water															
								Water															
Possible Hazard Identification												Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)											
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological												<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months											
Deliverable Requested: I, II, III, IV, Other (specify) See ARF												Special Instructions/QC Requirements:											
Empty Kit Relinquished by:				Date:				Time:				Method of Shipment:											
Relinquished by: Sean R Clary				Date/Time: 11-15-2024 0800				Company: STN				Received by: [Signature]											
Relinquished by:				Date/Time:				Company:				Received by:											
Relinquished by:				Date/Time:				Company:				Received by:											
Custody Seals Intact: Δ Yes Δ No				Custody Seal No.:				Cooler Temperature(s) °C and Other Remarks: 0.0°C IR11															

Login Sample Receipt Checklist

Client: Stantec Consulting Services, Inc.

Job Number: 400-266185-1

Login Number: 266185

List Source: Eurofins Pensacola

List Number: 1

Creator: Pardonner, Brett

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.0°C IR11
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 $<6\text{mm}$ (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.
Project/Site: Canada Mesa #2.00

Job ID: 400-266185-1

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	06-30-25
ANAB	ISO/IEC 17025	L2471	02-22-26
Arkansas DEQ	State	88-00689	08-01-25
California	State	2510	06-30-25
Florida	NELAP	E81010	06-30-25
Georgia	State	E81010(FL)	06-30-25
Illinois	NELAP	200041	10-09-25
Kansas	NELAP	E-10253	10-31-25
Kentucky (UST)	State	53	06-30-25
Louisiana (All)	NELAP	30976	06-30-25
Louisiana (DW)	State	LA017	12-31-24
North Carolina (WW/SW)	State	314	12-31-24
Oklahoma	NELAP	9810	08-31-25
Pennsylvania	NELAP	68-00467	01-31-25
South Carolina	State	96026	06-30-25
Tennessee	State	TN02907	06-30-25
Texas	NELAP	T104704286	09-30-25
US Fish & Wildlife	US Federal Programs	A22340	06-30-25
USDA	US Federal Programs	P330-21-00056	01-09-26
USDA	US Federal Programs	FLGNV23001	01-08-26
Virginia	NELAP	460166	06-14-25
West Virginia DEP	State	136	03-31-25

APPENDIX E

NMOSE Well Permits



STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER

AZTEC

Mike A. Hamman, P.E.
State Engineer

100 Gossett Drive, Suite A
Aztec, New Mexico 87410

July 11, 2023

El Paso CGP Company, LLC
Attn: Joseph Wiley
1001 Louisiana Street, Room 1445B
Houston, Texas 77002

RE: Permit Approval to Drill Wells with No Water Right (SJ-4279 POD 13 & 14) and for Use of Four Wells for Temporary Pollution Recovery, SJ-4279 PODs 1, 10, 13 & 14, El Paso CGP Company, LLC, Canada Mesa #2 Site Investigation

Dear Mr. Wiley:

On June 14, 2023, the New Mexico Office of the State Engineer received an application for a permit for the installation of two new groundwater monitoring wells, and the temporary use of these wells in addition to the temporary use of two existing groundwater monitoring wells for pollution recovery purposes at the above referenced location. Enclosed is a copy of the above numbered permit that has been approved subject to the conditions set forth on the approval page and in the attached Conditions of Approval. Also enclosed is a receipt for the fees paid.

Please be aware that there are time and extraction volume limitations for this pollution recovery permit (Condition 3 of the Condition of Approval). Also, quarterly reporting of the volumes of water extracted is required in accordance with Condition 4 of the Conditions of Approval.

If you have any questions regarding this permitting action, please call (505) 383-4571.

Sincerely,

A handwritten signature in black ink, appearing to read "Miles Juett".

Miles Juett
Watermaster
Water Rights Division – District V Office

Enclosures

cc: Aztec Reading (w/o enclosures)
SJ-4279 File
WATERS

OFFICE OF THE STATE ENGINEER/INTERSTATE STREAM COMMISSION – AZTEC OFFICE

OFFICIAL RECEIPT NUMBER: 5 - **7277** DATE: 6-14-2023 FILE NO.: ST-411, ST-423, ST-425, ST-427 and ST-428

TOTAL: 75.00 RECEIVED: Seventy-Five DOLLARS || CASH: || CHECK NO.: 1210

PAYOR: Stephen Varso ADDRESS: 63179 270th St.

CITY: Nevada STATE: IA ZIP: 50201 RECEIVED BY: MJ

INSTRUCTIONS: Indicate the number of actions to the left of the appropriate type of filing. Complete the receipt information. **Original** to payor; **pink** copy to Program Support/ASD; **yellow** copy remains in district office; and **goldenrod** copy to accompany application being filed. If a mistake is made, void the original and all copies and submit to Program Support/ASD as part of the daily deposit.

A. Ground Water Filing Fees

- | | | |
|-----------------------------|--|-----------|
| <input type="checkbox"/> 1. | Change of Ownership of Water Right | \$ 2.00 |
| <input type="checkbox"/> 2. | Application to Appropriate or Supplement Domestic 72-12-1 Well | \$ 125.00 |
| <input type="checkbox"/> 3. | Application to Repair or Deepen 72-12-1 Well | \$ 75.00 |
| <input type="checkbox"/> 4. | Application for Replacement 72-12-1 Well | \$ 75.00 |
| <input type="checkbox"/> 5. | Application to Change Purpose of Use 72-12-1 Well | \$ 75.00 |
| <input type="checkbox"/> 6. | Application for Stock Well/Temp. Use | \$ 5.00 |
-
- | | | |
|------------------------------|---|----------|
| <input type="checkbox"/> 7. | Application to Appropriate Irrigation, Municipal, or Commercial Use | \$ 25.00 |
| <input type="checkbox"/> 8. | Declaration of Water Right | \$ 1.00 |
| <input type="checkbox"/> 9. | Application for Supplemental Non 72-12-1 Well | \$ 25.00 |
| <input type="checkbox"/> 10. | Application to Change Place or Purpose of Use Non 72-12-1 Well | \$ 25.00 |
| <input type="checkbox"/> 11. | Application to Change Point of Diversion and Place and/or Purpose of Use from Surface Water to Ground Water | \$ 50.00 |
| <input type="checkbox"/> 12. | Application to Change Point of Diversion and Place and/or Purpose of Use from Ground Water to Ground Water | \$ 50.00 |
| <input type="checkbox"/> 13. | Application to Change Point of Diversion of Non 72-12-1 Well | \$ 25.00 |
| <input type="checkbox"/> 14. | Application to Repair or Deepen Non 72-12-1 Well | \$ 5.00 |
-
- | | | |
|------------------------------|--|--------------------|
| <input type="checkbox"/> 15. | Application for Test, Expl. Observ. Well | \$ 5.00 |
| <input type="checkbox"/> 16. | Application for Extension of Time | \$ 25.00 |
| <input type="checkbox"/> 17. | Proof of Application to Beneficial Use | \$ 25.00 |
| <input type="checkbox"/> 18. | Notice of Intent to Appropriate | \$ 25.00 |

B. Surface Water Filing Fees

- | | | |
|------------------------------|--|-----------|
| <input type="checkbox"/> 1. | Change of Ownership of a Water Right | \$ 5.00 |
| <input type="checkbox"/> 2. | Declaration of Water Right | \$ 10.00 |
| <input type="checkbox"/> 3. | Amended Declaration | \$ 25.00 |
| <input type="checkbox"/> 4. | Application to Change Point of Diversion and Place and/or Purpose of Use from Surface Water to Surface Water | \$ 200.00 |
| <input type="checkbox"/> 5. | Application to Change Point of Diversion and Place and/or Purpose of Use from Ground Water to Surface Water | \$ 200.00 |
| <input type="checkbox"/> 6. | Application to Change Point of Diversion | \$ 100.00 |
| <input type="checkbox"/> 7. | Application to Change Place and/or Purpose of Use | \$ 100.00 |
| <input type="checkbox"/> 8. | Application to Appropriate | \$ 25.00 |
| <input type="checkbox"/> 9. | Notice of Intent to Appropriate | \$ 25.00 |
| <input type="checkbox"/> 10. | Application for Extension of Time | \$ 50.00 |
| <input type="checkbox"/> 11. | Supplemental Well to a Surface Right | \$ 100.00 |
| <input type="checkbox"/> 12. | Return Flow Credit | \$ 100.00 |
| <input type="checkbox"/> 13. | Proof of Completion of Works | \$ 25.00 |
| <input type="checkbox"/> 14. | Proof of Application of Water to Beneficial Use | \$ 25.00 |
| <input type="checkbox"/> 15. | Water Development Plan | \$ 100.00 |
| <input type="checkbox"/> 16. | Declaration of Livestock Water Impoundment | \$ 10.00 |
| <input type="checkbox"/> 17. | Application for Livestock Water Impoundment | \$ 10.00 |

C. Well Driller Fees

- | | | |
|-----------------------------|---|----------|
| <input type="checkbox"/> 1. | Application for Well Driller's License | \$ 50.00 |
| <input type="checkbox"/> 2. | Application for Renewal of Well Driller's License | \$ 50.00 |

D. Reproduction of Documents

- | | | |
|--------------------------|------------|----------|
| <input type="checkbox"/> | @ 25¢/copy | \$ _____ |
| <input type="checkbox"/> | Map(s) | \$ _____ |

E. Certification

	\$ _____
--	----------

F. *Credit Card Convenience Fee

	\$ _____
--	----------

G. Other _____	\$ _____
-----------------------	----------

Comments:

All fees are non-refundable.



NEW MEXICO OFFICE OF THE STATE ENGINEER

WR-07 APPLICATION FOR PERMIT TO DRILL

A WELL WITH NO WATER RIGHT



(check applicable box):

For fees, see State Engineer website: <http://www.ose.state.nm.us/>

Purpose:	<input checked="" type="checkbox"/> Pollution Control And/Or Recovery	<input type="checkbox"/> Ground Source Heat Pump
<input type="checkbox"/> Exploratory Well*(Pump test)	<input type="checkbox"/> Construction Site/Public Works Dewatering	<input type="checkbox"/> Other(Describe):
<input checked="" type="checkbox"/> Monitoring Well	<input type="checkbox"/> Mine Dewatering	

A separate permit will be required to apply water to beneficial use regardless if use is consumptive or nonconsumptive.

*New Mexico Environment Department-Drinking Water Bureau (NMED-DWB) will be notified if a proposed exploratory well is used for public water supply.

<input checked="" type="checkbox"/> Temporary Request - Requested Start Date: July 24, 2023	Requested End Date: TBD. For pollution control, 09/30/2023.
---	--

Plugging Plan of Operations Submitted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
--	--

1. APPLICANT(S)

Name: El Paso CGP Company, LLC	Name:
Contact or Agent: check here if Agent <input type="checkbox"/>	Contact or Agent: check here if Agent <input type="checkbox"/>
Joseph Wiley	
Mailing Address: 1001 Louisiana Street, Room 1445B	Mailing Address:
City: Houston	City:
State: Texas	State:
Zip Code: 77002	Zip Code:
Phone: <input type="checkbox"/> Home <input type="checkbox"/> Cell Phone (Work): (713) 420-3475	Phone: <input type="checkbox"/> Home <input type="checkbox"/> Cell Phone (Work):
E-mail (optional): joe_wiley@kindermorgan.com	E-mail (optional):

STATE ENGINEER OFFICE
AZTEC, NEW MEXICO
2023 JUN 14 AM 10:19

FOR OSE INTERNAL USE Application for Permit, Form WR-07, Rev 07/12/22

File No.: SJ-4279-PODs 1, 10, 13 & 14	Trm. No.:	Receipt No.: 5-7277
Trans Description (optional):		
Sub-Basin:	PCW/LOG Due Date: 7-11-2024	

2 WELL(S) Describe the well(s) applicable to this application.

Location Required: Coordinate location must be reported in NM State Plane (NAD 83), UTM (NAD 83), or Latitude/Longitude (Lat/Long - WGS84).
District II (Roswell) and District VII (Cimarron) customers, provide a PLSS location in addition to above.

<input type="checkbox"/> NM State Plane (NAD83) (Feet) <input type="checkbox"/> NM West Zone <input type="checkbox"/> NM East Zone <input type="checkbox"/> NM Central Zone	<input type="checkbox"/> UTM (NAD83) (Meters) <input type="checkbox"/> Zone 12N <input type="checkbox"/> Zone 13N	<input checked="" type="checkbox"/> Lat/Long (WGS84) (to the nearest 1/10 th of second)
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Well Number (if known):	X or Easting or Longitude:	Y or Northing or Latitude:	Provide if known: -Public Land Survey System (PLSS) (Quarters or Halves, Section, Township, Range) OR - Hydrographic Survey Map & Tract; OR - Lot, Block & Subdivision; OR - Land Grant Name
(SJ-4279 POD13) MW-12	-107.414082	36.295987	NE/4 SE/4, Sec. 24, T24N, R6W, Rio Arriba County, NM
(POD14) TW-1	-107.414065	36.295967	NE/4 SE/4, Sec. 24, T24N, R6W, Rio Arriba County, NM
MW-1 (SJ-4279 POD 1)	-107.41419	36.29585	NE/4 SE/4, Sec. 24, T24N, R6W, Rio Arriba County, NM
MW-9 (SJ-4279 POD 10)	-107.41418	36.29601	NE/4 SE/4, Sec. 24, T24N, R6W, Rio Arriba County, NM

NOTE: If more well locations need to be described, complete form WR-08 (Attachment 1 – POD Descriptions)
Additional well descriptions are attached: ☐ Yes ☒ No If yes, how many _____

Other description relating well to common landmarks, streets, or other:
Permit SJ-4279. Canada Mesa #2 site.

Well is on land owned by: Bureau of Land Management (BLM)

Well Information: NOTE: If more than one (1) well needs to be described, provide attachment. Attached? ☐ Yes ☒ No
If yes, how many _____

Approximate depth of well (feet): 50 (MW-12), 55 (TW-1)	Outside diameter of well casing (inches): 2
Driller Name: Cascade Environmental Drilling	Driller License Number: WD-1664

3. ADDITIONAL STATEMENTS OR EXPLANATIONS

New wells MW-12 and TW-1 are being installed to better characterize the extent of LNAPL at the site and facilitate feasibility testing of air sparge remedies. Soil vapor extraction (SVE) feasibility testing will be completed on monitoring well MW-12, therefore a pollution recovery permit is necessary. Additionally, pollution recovery permitting for PODs 1 and 10 (existing wells MW-1 and MW-9, respectively) is requested. SVE testing will be conducted at MW-1 and a mobile dual phase extraction (MDPE) event will be conducted at MW-9. All monitoring wells will be abandoned once a No Further Action determination has been granted by the New Mexico Oil Conservation Division (NMOCD) for the release.

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STATE OF NEW MEXICO
AZTEC, NEW MEXICO

4. SPECIFIC REQUIREMENTS: The applicant must include the following, as applicable to each well type. Please check the appropriate boxes, to indicate the information has been included and/or attached to this application:

<p>Exploratory: Is proposed well a future public water supply well? <input type="checkbox"/> Yes <input type="checkbox"/> NO If Yes, an application must be filed with NMED-DWB, concurrently. <input type="checkbox"/> Include a description of the requested pump test if applicable.</p>	<p>Pollution Control and/or Recovery: <input type="checkbox"/> Include a plan for pollution control/recovery, that includes the following: <input type="checkbox"/> A description of the need for the pollution control or recovery operation. <input type="checkbox"/> The estimated maximum period of time for completion of the operation. <input type="checkbox"/> The annual diversion amount. <input type="checkbox"/> The annual consumptive use amount. <input type="checkbox"/> The maximum amount of water to be diverted and injected for the duration of the operation. <input type="checkbox"/> The method and place of discharge. <input type="checkbox"/> The method of measurement of water produced and discharged. <input type="checkbox"/> The source of water to be injected. <input type="checkbox"/> The method of measurement of water injected. <input type="checkbox"/> The characteristics of the aquifer. <input type="checkbox"/> The method of determining the resulting annual consumptive use of water and depletion from any related stream system. <input type="checkbox"/> Proof of any permit required from the New Mexico Environment Department. <input type="checkbox"/> An access agreement if the applicant is not the owner of the land on which the pollution plume control or recovery well is to be located.</p>	<p>Construction De-Watering: <input type="checkbox"/> Include a description of the proposed dewatering operation, <input type="checkbox"/> The estimated duration of the operation, <input type="checkbox"/> The maximum amount of water to be diverted, <input type="checkbox"/> A description of the need for the dewatering operation, and, <input type="checkbox"/> A description of how the diverted water will be disposed of.</p> <p>Ground Source Heat Pump: <input type="checkbox"/> Include a description of the geothermal heat exchange project, <input type="checkbox"/> The number of boreholes for the completed project and required depths. <input type="checkbox"/> The time frame for constructing the geothermal heat exchange project, and, <input type="checkbox"/> The duration of the project. <input type="checkbox"/> Preliminary surveys, design data, and additional information shall be included to provide all essential facts relating to the request.</p>	<p>Mine De-Watering: <input type="checkbox"/> Include a plan for pollution control/recovery, that includes the following: <input type="checkbox"/> A description of the need for mine dewatering. <input type="checkbox"/> The estimated maximum period of time for completion of the operation. <input type="checkbox"/> The source(s) of the water to be diverted. <input type="checkbox"/> The geohydrologic characteristics of the aquifer(s). <input type="checkbox"/> The maximum amount of water to be diverted per annum. <input type="checkbox"/> The maximum amount of water to be diverted for the duration of the operation. <input type="checkbox"/> The quality of the water. <input type="checkbox"/> The method of measurement of water diverted. <input type="checkbox"/> The recharge of water to the aquifer. <input type="checkbox"/> Description of the estimated area of hydrologic effect of the project. <input type="checkbox"/> The method and place of discharge. <input type="checkbox"/> An estimation of the effects on surface water rights and underground water rights from the mine dewatering project. <input type="checkbox"/> A description of the methods employed to estimate effects on surface water rights and underground water rights. <input type="checkbox"/> Information on existing wells, rivers, springs, and wetlands within the area of hydrologic effect.</p>
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ACKNOWLEDGEMENT

I, We (name of applicant(s)), Joseph Wiley

Print Name(s)

affirm that the foregoing statements are true to the best of (my, our) knowledge and belief.

Joseph Wiley
Applicant Signature

Applicant Signature

ACTION OF THE STATE ENGINEER

This application is:

☒ approved ☐ partially approved ☐ denied

provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare and further subject to the attached conditions of approval.

Witness my hand and seal this 11 day of July 20 23, for the State Engineer,

Mike A. Hamman, P.E.

State Engineer

By: Miles Juett
Signature

Miles Juett

Print

Title: Watermaster
Print

2023 JUN 14 AM 10:19
STATE ENGINEER
AZTEC, NEW MEXICO

FOR USE INTERNAL USE

Application for Permit, Form WR-07 Version 07/12/22

File No.: <u>SJ-4279 PODs 1, 10, 13 & 14</u>	Trn No.:
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NMOSE Permit for Temporary Use of Groundwater for Contaminant Remediation
Conditions of Approval
SJ-4279 PODs 1, 10, 13 & 14

Upon review of the proposed pollution recovery plan, the New Mexico Office of the State Engineer (NMOSE) has determined that existing water rights will not be permanently impaired by this activity. This application is approved without publication provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare of the state. This application is further subject to the following conditions of approval.

1. This application is approved as follows:

Permittee(s): El Paso CGP Company, LLC
via Steve Varsa, Stantec Consulting Services, as Agent
1001 Louisiana St, Room 1445B
Houston, TX 77002

Permit Number: SJ-4279

Application File Date: June 14, 2023

Priority: N/A

Source: Groundwater

Point(s) of Diversion: Four points of diversion (PODs), SJ-4279 PODs 1, 10, 13 & 14 , are proposed for use in pollution control or recovery activities. Two PODs (Table 1) are existing monitoring wells, and two PODs (Table 2) are newly proposed monitoring wells, which are all proposed for temporary use for pollution recovery and ongoing groundwater monitoring. The wells are located at the applicant's Canada Mesa #2 site on land owned by the U.S. Department of Interior Bureau of Land Management in rural Rio Arriba County, New Mexico. The PODs are located within the NE¼ SE¼ of Section 24, Township 24 North, Range 6 West, NMPM, at the following approximate point locations (Long/Lat, WGS84).

Table 1: Existing Monitoring Wells with temporary Pollution Recovery Use

POD Number and Owner's Well Name	Casing: Diameter (inches) and Depth (feet)		Longitude (DD)	Latitude (DD)
SJ-4279 POD1 (MW-1)	2	On file	-107.41419	36.29585
SJ-4279 POD10 (MW-9)	2	On file	-107.41418	36.29601

Table 2: New Monitoring Wells with temporary Pollution Recovery Use

POD Number and Owner's Well Name	Casing: Diameter (inches) and Depth (feet)		Longitude (DD)	Latitude (DD)
SJ-4279 POD13 (MW-12)	2	50	-107.414082	36.295987
SJ-4279 POD14 (TW-1)	2	55	-107.414065	36.295967

July 11, 2023

Purpose of Use: Groundwater monitoring and dual phase pollution recovery

Place of Use: N/A

Amount of Water: The permittee may produce up to a total volume of **one acre-foot (325,851 gallons)**, including light non-aqueous phase liquid (LNAPL). This is the total maximum annual volume allowed to be pumped from all water wells at the facility.

2. No extraction of water which is inconsistent with the purpose, date, and volume limitation amounts authorized by this permit shall occur from the wells identified herein.
3. Only *de minimis* amounts of water generated as a result of pollution remediation activities are permitted to be removed from the approved PODs. The application states that contaminants and entrained water will be removed from the wells during multiple dual phase extraction events conducted between July 24, 2023, and September 30, 2023. **Approval under this permit to use wells SJ-4279 PODs 1, 10, 13 & 14 for the purpose of pollution extraction/recovery shall expire September 30, 2023, or once the total volume extracted from all approved PODs is equal to one acre-foot, whichever occurs first.**
4. The total volume of water extracted shall be determined quarterly using a totalizing flow meter(s) and submitted to the NMOSE District V office in Aztec based on the following schedule. The quarterly reports shall include the beginning and ending meter readings with units of measurement, meter information, and total volume extracted for the quarterly period. Should no extraction occur during a quarterly measurement period a statement indicating such shall be included in the quarterly report(s). Meter reporting forms are available at: <http://www.ose.state.nm.us/Meter/index.php>.

Total volumes extracted shall be determined for the following quarters and submitted as follows:

- January 1st through March 31st - due by May 1st
 - April 1st through June 30th - due by August 1st
 - July 1st through September 30th - due by November 1st
 - October 1st through December 31st - due by February 1st
5. The well(s) may continue to be used indefinitely for groundwater sampling or monitoring purposes, as required for the current site investigation and any associated remediation, so long as they are required for such activities and remain in good repair. **A new application shall be submitted and a permit obtained from the NMOSE prior to replacing a well(s) or for any change in use as approved herein.**
 6. Water well drilling and well drilling activities, including well plugging, are regulated under NMOSE Regulations 19.27.4 NMAC. These regulations apply, and provide both general and specific direction regarding the drilling of wells in New Mexico. Note that the construction of any well that allows groundwater to flow uncontrolled to the land surface or to move appreciably between geologic units is prohibited.
 7. In accordance with Subsection A of 19.27.4.29 NMAC, on-site supervision of well drilling/plugging is required by the holder of a New Mexico Well Driller License or a NMOSE-registered Drill Rig Supervisor. The New Mexico licensed Well Driller shall ensure that well

July 11, 2023

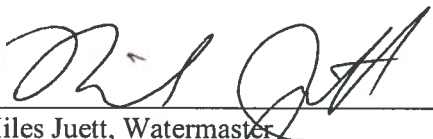
drilling activities are completed in accordance with 19.27.4.29, 19.27.4.30 and 19.27.4.31 NMAC. However, pursuant to 72-12-12 NMSA 1978 and 19.27.4.8 NMAC, a driller's license is not required for the construction of a driven well with an outside casing diameter of 2 $\frac{3}{8}$ inches or less and that does not require the use of a drill rig (e.g., auger) for installation. This exemption is not applicable to well plugging.

8. When the permittee receives approval or direction to permanently abandon the well(s), the District V Office of NMOSE shall be notified and provided with a plugging plan for review, modification as necessary, and approval. Approval of a plugging plan is required *prior* to initiation of *any* well plugging activities. The well(s) shall be plugged in accordance with Subsection C of 19.27.4.30 NMAC.
9. Should another regulatory agency sharing jurisdiction of the project authorize, or by regulation require, more stringent requirements than stated herein, the more stringent procedure should be followed. These, among others, may include provisions regarding pre-authorization to proceed, type of methods and materials used, inspection, or prohibition of free discharge of any fluid or other material to or from the well that is related to the drilling and/or monitoring process.
10. The State Engineer retains jurisdiction of this permit.

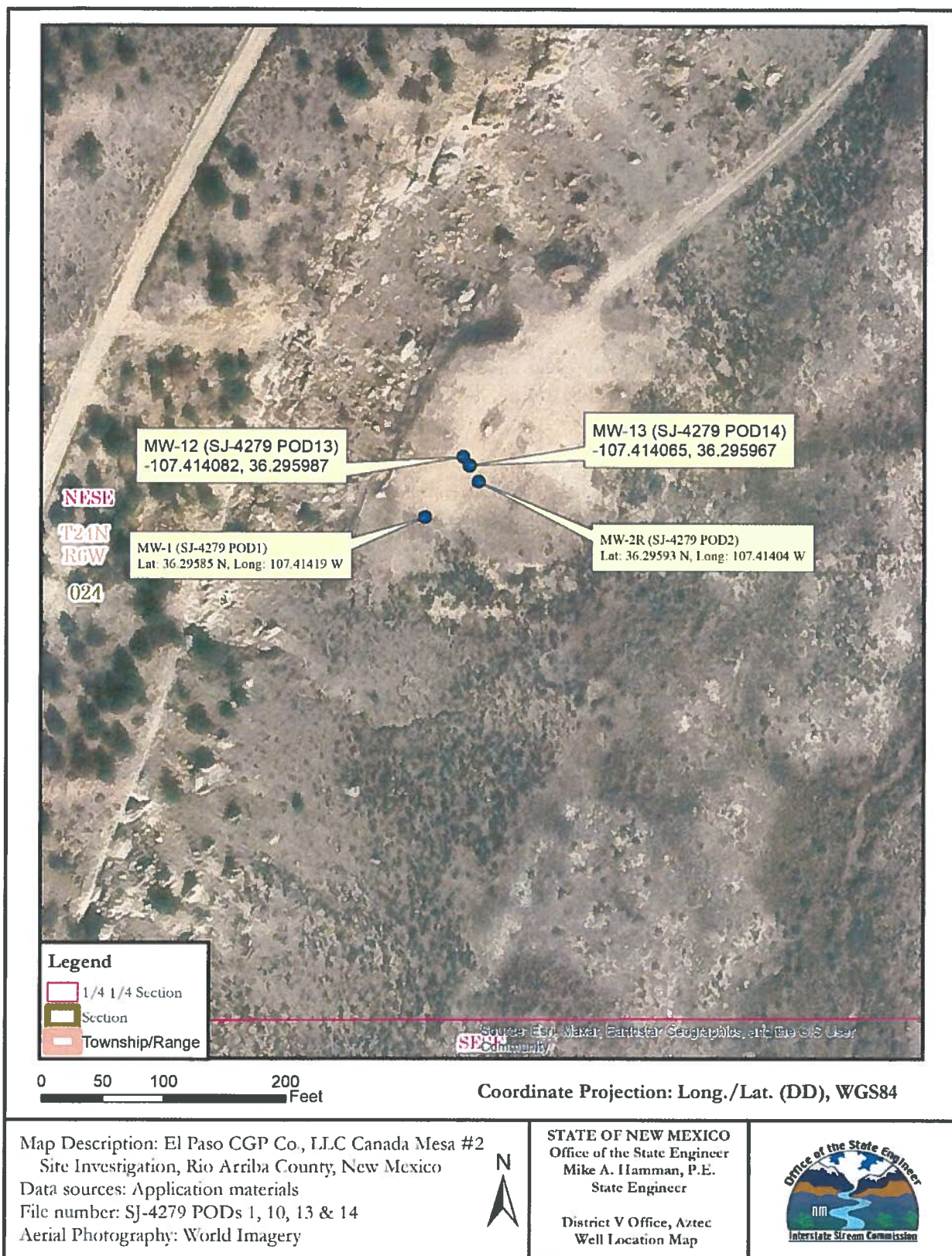
The application for temporary use of non-consumptive use well(s) SJ-4279 PODs 1, 10, 13 & 14 for pollution recovery purposes, submitted on June 14, 2023, is hereby approved with the aforesaid conditions applied, when signed by an authorized designee of the State Engineer:

Witness my hand and seal this 11th day of July, A.D. 2023.
Mike A. Hamman, P.E., State Engineer

By:



Miles Juett, Watermaster
Water Rights Division District V



Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

CONDITIONS

Action 444159

CONDITIONS

Operator: El Paso Natural Gas Company, L.L.C 1001 Louisiana Street Houston, TX 77002	OGRID: 7046
	Action Number: 444159
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Review of the 2024 Annual Groundwater Monitoring Report for Canada Mesa, App ID: 444159. 1. Continue sampling on a semi-annual basis in 2025. 2. Collect Groundwater samples from key monitoring wells not containing LNAPL on a semi-annual basis and analyze for BTEX constituents using EPA Method 8260. Sample all Site monitoring wells on a biennial basis, with the next site-wide sampling event to be conducted in the second calendar quarter of 2025. Submit an annual report to include all activities completed in 2025 and their results summarized in the 2025 Annual Report, to be submitted by April 1, 2026.	5/6/2025