2023 ANNUAL GROUNDWATER REPORT

K-27 Line Drip
Incident Number: nAUTOfAB000316
Meter Code: LD072
T25N, R6W, Sec4, Unit E

REVIEWED
By Mike Buchanan at 4:20 pm, Jul 15, 2024

Review of the 2023 Annual Groundwater Report for K-27 Line Drip: content satisfactory
1. Remove measurable LNAPL on a quarterly basis.
2. Continue to conduct groundwater monitoring on a semi-annual basis, and biennially from monitoring wells not containing LNAPL.
3. Transition to a quarterly sampling schedule when all COCs are beginning to demonstrate at or below the WQCC human health standards until eight (8) monitoring events are all below the standards in TItle 20 of the NMAC.
4. Analyze for BTEX by EPA Method 8260.
5. Submit the next annual report to OCD by April 1, 2025.

SITE DETAILS

Site Location: Latitude: 36.430553 N, Longitude: -107.480164 W
Land Type: Federal
Operator: Enterprise (Pipeline)

SITE BACKGROUND

Environmental Remediation activities at K-27 Line Drip (Site) are being managed pursuant to the procedures set forth in the document entitled, "*Remediation Plan for Groundwater Encountered During Pit Closure Activities*" (Remediation Plan, El Paso Natural Gas Company / El Paso Field Services Company, 1995). This Remediation Plan was conditionally approved by the New Mexico Oil Conservation Division (NMOCD) in correspondence dated November 30, 1995; and the NMOCD approval conditions were adopted into El Paso CGP Company, LLC's (EPCGP's) program methods. The Site is crossed by a pipeline operated by Enterprise.

The Site is located on Federal land. An initial site assessment was completed in July 1994, and an excavation to approximately 12 feet below ground surface (bgs) was completed in August of 1994. Monitoring wells were installed in 1995 (MW-1), 2000 (MW-2 and MW-3), 2006 (TMW-4), 2016 (MW-2R, MW-3R, MW-5, MW-6, MW-7, and MW-8), and 2017 (MW-9 and MW-10); one test well was installed in 2018 (TW-1). TMW-4 was later re-designated MW-4. Monitoring wells MW-12 through MW-14 were installed in 2022. Soil boring SB-11 was also advanced in 2022. A detailed history of Site activities is provided in Appendix A.

The location of the Site is depicted on Figure 1. A Site Plan map depicting the locations of monitoring wells, soil borings, and current and historical site features is provided as Figure 2. 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. Quarterly LNAPL recovery began in the second quarter of 2020 and has continued through 2023. Currently, groundwater sampling is conducted on a semi-annual basis.

GROUNDWATER SAMPLING ACTIVITIES

Pursuant to the Remediation Plan, Stantec provided field work notifications via email to NMOCD on May 12, 2023, and November 2, 2023, prior to initiating groundwater sampling activities at the Site. Copies of the 2023 NMOCD notifications are provided in Appendix B. On May 20 and November 12, 2023, water levels were gauged at TW-1, MW-1, MW-2R, MW-3R, MW-4 through MW-10, and MW-12 through MW-14.

Groundwater samples were collected from MW-1, MW-3R, MW-6, MW-7, MW-8, MW-10, MW-12 and MW-14 during the May and November 2023 sampling events. Groundwater samples were collected using HydraSleeve™ (HydraSleeve) no-purge groundwater sampling devices. The HydraSleeves were set during the previous sampling event, using a suspension tether and stainless-steel weights. The HydraSleeves were positioned to collect a sample from the screened interval by setting the bottom of the sleeve approximately 0.5 foot above the bottom of the well screen.

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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 the presence of benzene, toluene, ethylbenzene, and total xylenes (BTEX) using United States Environmental Protection Agency (EPA) Method 8260. One laboratory-supplied trip blank and one blind field duplicate were also collected during each groundwater sampling event.

Excess sample water was placed in a waste container and transported to Envirotech, Inc. (Envirotech) in Bloomfield, NM for disposal. Waste disposal documentation is included as Appendix C.

LNAPL RECOVERY

As documented in EPCGP's letter dated January 5, 2021, quarterly LNAPL recovery activities were initiated in the second calendar quarter of 2020 and continued recovery events performed in March, May, August, and November 2023. Documentation of NMOCD notification of site LNAPL recovery activities in 2023 is provided in Appendix B. LNAPL was observed in monitoring well MW-2R in August and November of 2023. LNAPL was also observed in MW-9 in May and August of 2023.

During the groundwater sampling site visits in May and November 2023, the recovered LNAPL was disposed of with wastewater generated during the monitoring well sampling activities. Recovered LNAPL from the August site visit was disposed at Envirotech (Appendix C).

SUMMARY TABLES

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

SITE MAPS

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

ANALYTICAL LAB REPORTS

The groundwater analytical lab reports are included as Appendix D.

GROUNDWATER RESULTS

- Groundwater elevations indicate the groundwater flow direction at the Site was generally to the northeast during 2023 (see Figures 4 and 6).
- LNAPL was observed in MW-2R during the November sampling event, and in MW-9 during the May sampling event; therefore, no groundwater samples were collected at these locations during those events.

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- The groundwater sample collected from MW-1 in November 2023 exceeded the New Mexico Water Quality Control Commission (NMWQCC) standard (10 micrograms per liter [µg/L]) for benzene in groundwater. Concentrations of benzene were either below the NMWQCC standard or not detected in the remaining Site monitoring wells sampled in 2023.

- Concentrations of toluene were either below the NMWQCC standard (750 µg/L) or were not detected in the Site monitoring wells sampled in 2023.

- Concentrations of ethylbenzene were either below the NMWQCC standard (750 µg/L) or were not detected in the Site monitoring wells sampled in 2023.

- Concentrations of total xylenes were either below the NMWQCC standard (620 µg/L) or were not detected in the Site monitoring wells sampled in 2023.

- A field duplicate was collected from monitoring well MW-1 in May and November 2023. No significant differences were noted between concentrations in the primary and duplicate samples for both groundwater sampling events.

- Detectable concentrations of BTEX constituents were not reported in the trip blanks collected and analyzed as part of the 2023 groundwater monitoring events.

PLANNED FUTURE ACTIVITIES

Based on the reduction in the amount of LNAPL present at the Site in 2023, quarterly site visits will continue at the Site in 2024 to facilitate removal of measurable LNAPL where it is present. Groundwater monitoring events will continue to be conducted on a semi-annual basis. Groundwater samples will be collected from key monitoring wells not containing LNAPL on a semi-annual basis, and biennially from all monitoring wells not containing LNAPL. The groundwater samples will be analyzed for BTEX constituents using EPA Method 8260. A field duplicate and trip blank will also be collected during each groundwater sampling event. The next site-wide sampling event is scheduled to be conducted in the second calendar quarter of 2024.

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

TABLES

TABLE 1
LIGHT NON-AQUEOUS PHASE LIQUID RECOVERY SUMMARY

K-27 Line Drip						
Date	Depth to LNAPL (Feet)	Depth to Water (Feet)	Measured Thickness (Feet)	LNAPL Recovered (gal)	Water Recovered (gal)	Recovery Type
Well ID - MW-1						
11/12/2020	39.47	39.49	0.02	<0.01	0.02	manual
8/23/2021	39.89	39.89	<0.01	<0.01	0.37	manual
11/11/2021	39.49	39.51	0.02	<0.01	0.39	manual
8/2/2022	39.15	39.16	0.01	0.00	0.00	manual
			Total:	<0.01	0.78	
Well ID - MW-2R						
10/15/2016	37.62	37.97	0.35	0.06	<0.01	manual
6/7/2017	36.53	36.94	0.41	0.07	<0.01	manual
7/26/2017	32.24	32.81	0.57	2.2	348	Mobile DPE*
11/14/2017	36.96	37.76	0.8	Trace	<0.01	manual
5/15/2018	36.48	36.86	0.38	<0.01	<0.01	manual
10/21/2018	37.64	38.85	1.21	0.1	<0.01	manual
5/21/2019	36.70	37.35	0.65	0.13	0.32	manual
11/10/2019	37.65	38.82	1.17	0.82	0.29	manual
5/11/2020	37.26	38.24	0.98	0.84	0.47	manual
8/19/2020	38.24	39.75	1.51	1.44	0.86	manual
11/12/2020	38.62	38.69	0.07	<0.01	0.06	manual
3/18/2021	37.00	38.00	1.00	0.59	0.57	manual
5/19/2021	37.92	39.03	1.11	0.48	0.07	manual
8/23/2021	38.92	39.80	0.88	0.38	1.23	manual
11/11/2021	38.67	38.78	0.11	0.05	0.48	manual
3/21/2022	37.81	38.69	0.88	0.46	0.21	manual
5/22/2022	37.93	38.94	1.01	0.65	0.21	manual
8/2/2022	38.35	38.70	0.35	0.18	0.20	manual
11/6/2022	37.54	37.85	0.31	0.16	0.63	manual
8/30/2023	37.94	37.95	0.01	<0.01	0.14	manual
11/12/2023	37.75	38.24	0.49	0.38	0.49	manual
			Total:	8.6	354	
Well ID - MW-6						
10/21/2018	40.40	40.49	0.09	<0.01	0.10	manual
11/12/2020	41.04	41.09	0.05	<0.01	<0.01	manual
8/23/2021	41.29	41.93	0.64	0.13	0.43	manual
11/11/2021	41.02	41.39	0.37	0.14	0.13	manual
3/21/2022	40.43	40.58	0.15	0.02	0.22	manual
5/22/2022	40.54	40.80	0.26	0.01	0.06	manual
8/2/2022	40.98	41.12	0.14	0.01	0.04	manual
			Total:	0.31	0.98	

TABLE 1
LIGHT NON-AQUEOUS PHASE LIQUID RECOVERY SUMMARY

K-27 Line Drip						
Well ID - MW-7						
5/19/2021	38.83	39.05	0.22	0.01	0.07	manual
8/23/2021	39.66	40.10	0.44	0.08	0.48	manual
			Total:	0.09	0.55	
Well ID - MW-8						
10/27/2018	37.15	37.57	0.42	0.05	<0.01	manual
11/12/2020	37.84	38.04	0.20	0.26	0.03	manual
3/18/2021	37.58	37.60	0.02	<0.01	0.24	manual
5/19/2021	37.64	37.72	0.08	<0.01	0.05	manual
8/23/2021	38.27	39.30	1.03	0.30	0.82	manual
11/11/2021	37.95	38.54	0.59	0.20	0.33	manual
3/21/2022	37.47	37.48	0.01	<0.01	0.05	manual
			Total:	0.81	1.52	
Well ID - MW-9						
10/14/2017	35.75	38.14	2.39	0.25	0.1	manual
5/15/2018	37.16	37.65	0.49	0.2	<0.01	manual
10/21/2018	38.34	39.35	1.01	8.3	301	Mobile DPE*
5/21/2019	37.44	37.99	0.55	0.11	0.1	manual
11/10/2019	38.39	39.70	1.31	0.95	0.24	manual
5/11/2020	37.46	38.85	1.39	0.69	0.40	manual
8/19/2020	38.50	40.59	2.09	2.76	0.85	manual
11/12/2020	39.02	40.36	1.34	2.13	0.25	manual
3/18/2021	37.75	38.75	1.00	0.58	0.16	manual
5/19/2021	38.67	39.58	0.91	0.48	0.11	manual
8/23/2021	39.35	41.04	1.69	2.09	0.61	manual
11/11/2021	39.15	40.10	0.95	0.73	0.34	manual
3/21/2022	38.65	38.95	0.30	0.27	0.20	manual
5/22/2022	38.76	39.30	0.54	0.35	0.16	manual
8/2/2022	38.95	39.51	0.56	1.07	0.44	manual
11/6/2022	38.28	38.29	0.01	<0.01	0.16	manual
5/20/2023	37.45	37.54	0.09	0.02	0.46	manual
8/30/2023	38.64	38.70	0.06	<0.01	0.62	manual
			Total:	21.0	305	

Notes:
gal = gallons.
* = Mobile Dual Phase Extraction (DPE) includes calculated recovered hydrocarbon vapors.
LNAPL = Light non-aqueous phase liquid
LNAPL recovery data for 2012 and previous years documented in previously-submitted reports.

TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

K-27 Line Drip					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-1	11/04/96	996	2170	204	1520
MW-1	02/05/97	207	613	168	1010
MW-1	05/07/97	41.8	114	98	500
MW-1	08/08/97	1690	2980	298	1930
MW-1	11/07/97	533	1210	267	1720
MW-1	02/26/98	NS	NS	NS	NS
MW-1	02/24/99	NS	NS	NS	NS
MW-1	08/19/99	179	379	79	777
MW-1	11/10/99	39	95	56	390
MW-1	09/05/00	NS	NS	NS	NS
MW-1	10/06/00	NS	NS	NS	NS
MW-1	07/03/01	NS	NS	NS	NS
MW-1	09/04/01	NS	NS	NS	NS
MW-1	09/24/01	NS	NS	NS	NS
MW-1	04/01/02	NS	NS	NS	NS
MW-1	07/15/02	NS	NS	NS	NS
MW-1	10/08/02	NS	NS	NS	NS
MW-1	01/27/03	NS	NS	NS	NS
MW-1	04/26/03	NS	NS	NS	NS
MW-1	07/17/03	NS	NS	NS	NS
MW-1	10/13/03	NS	NS	NS	NS
MW-1	01/19/04	NS	NS	NS	NS
MW-1	04/20/04	NS	NS	NS	NS
MW-1	07/27/04	NS	NS	NS	NS
MW-1	10/20/04	NS	NS	NS	NS
MW-1	01/25/05	NS	NS	NS	NS
MW-1	04/14/05	NS	NS	NS	NS
MW-1	07/19/05	NS	NS	NS	NS
MW-1	10/12/05	NS	NS	NS	NS
MW-1	10/21/05	NS	NS	NS	NS
MW-1	01/23/06	NS	NS	NS	NS
MW-1	04/28/06	NS	NS	NS	NS
MW-1	07/26/06	NS	NS	NS	NS
MW-1	11/07/06	NS	NS	NS	NS
MW-1	01/17/07	NS	NS	NS	NS
MW-1	04/24/07	NS	NS	NS	NS
MW-1	07/31/07	NS	NS	NS	NS
MW-1	10/25/07	NS	NS	NS	NS
MW-1	01/25/08	NS	NS	NS	NS
MW-1	04/18/08	NS	NS	NS	NS
MW-1	07/23/08	NS	NS	NS	NS

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K-27 Line Drip					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-1	10/08/08	7.3	3.9	20.2	68.7
MW-1	10/13/08	NS	NS	NS	NS
MW-1	01/16/09	NS	NS	NS	NS
MW-1	04/06/09	NS	NS	NS	NS
MW-1	08/25/09	NS	NS	NS	NS
MW-1	11/03/09	355	69.3	45.8	259
MW-1	02/16/10	NS	NS	NS	NS
MW-1	05/24/10	NS	NS	NS	NS
MW-1	09/27/10	NS	NS	NS	NS
MW-1	11/08/10	138	29.4	43.9	183
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
MW-1	11/10/11	71.8	57.5	5	62.2
MW-1	02/22/12	NS	NS	NS	NS
MW-1	05/15/12	NS	NS	NS	NS
MW-1	06/05/13	350	61	15	220
MW-1	09/10/13	150	32	7	83
MW-1	12/11/13	150	100	13	120
MW-1	04/04/14	220	51	20	150
MW-1	10/22/14	140	53	5.2	73
MW-1	05/28/15	110	75	13	97
MW-1	11/21/15	65	17	2.1	28
MW-1	04/17/16	6.1	5.9	<1.0	10
MW-1	10/15/16	2	<5.0	<1.0	6.9
MW-1	06/07/17	52	18	5.6	38
MW-1	11/14/17	190	98	8.9	87
MW-1	05/15/18	22	27	<1.0	19
DUP-01(MW-1)*	05/15/18	61	74	2.2	51
MW-1	10/27/18	42	12	4.6	31
DUP-01(MW-1)*	10/27/18	38	9.1	3.3	23
MW-1	05/21/19	72	47	8.3	140
MW-1	11/10/19	140	54	1.9	52
MW-1	05/12/20	340	220	19	370
MW-1	11/12/20	NS	NS	NS	NS
MW-1	03/18/21	NS	NS	NS	NS
MW-1	05/19/21	260	52	4.1	72
DUP-01(MW-1)*	05/19/21	250	50	4.1	72
MW-1	08/23/21	NS	NS	NS	NS
MW-1	11/11/21	NS	NS	NS	NS
MW-1	05/22/22	180	21	1.3	28

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K-27 Line Drip					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-1	11/06/22	190	88	3.6	120
MW-1	05/20/23	9.3	3.5	<1.0	<10
DUP-01(MW-1)*	05/20/23	7.8	2.9	<1.0	<10
MW-1	11/12/23	230	120	4.8	58
DUP-01(MW-1)*	11/12/23	200	99	3.7	44
MW-2	08/31/00	5500	14000	670	5800
MW-2	09/05/00	NS	NS	NS	NS
MW-2	10/06/00	NS	NS	NS	NS
MW-2	07/03/01	NS	NS	NS	NS
MW-2	09/04/01	NS	NS	NS	NS
MW-2	09/24/01	NS	NS	NS	NS
MW-2	01/02/02	NS	NS	NS	NS
MW-2	04/01/02	NS	NS	NS	NS
MW-2	07/15/02	NS	NS	NS	NS
MW-2	10/08/02	NS	NS	NS	NS
MW-2	01/27/03	NS	NS	NS	NS
MW-2	04/26/03	NS	NS	NS	NS
MW-2	07/17/03	NS	NS	NS	NS
MW-2	10/13/03	NS	NS	NS	NS
MW-2	01/19/04	NS	NS	NS	NS
MW-2	04/20/04	NS	NS	NS	NS
MW-2	07/27/04	NS	NS	NS	NS
MW-2	10/20/04	NS	NS	NS	NS
MW-2	01/25/05	NS	NS	NS	NS
MW-2	04/14/05	NS	NS	NS	NS
MW-2	07/19/05	NS	NS	NS	NS
MW-2	10/21/05	NS	NS	NS	NS
MW-2	01/23/06	NS	NS	NS	NS
MW-2	04/28/06	NS	NS	NS	NS
MW-2	07/26/06	NS	NS	NS	NS
MW-2	11/07/06	NS	NS	NS	NS
MW-2	01/17/07	NS	NS	NS	NS
MW-2	04/24/07	NS	NS	NS	NS
MW-2	07/31/07	NS	NS	NS	NS
MW-2	10/25/07	NS	NS	NS	NS
MW-2	01/25/08	NS	NS	NS	NS
MW-2	04/18/08	NS	NS	NS	NS
MW-2	07/23/08	NS	NS	NS	NS
MW-2	10/13/08	NS	NS	NS	NS
MW-2	01/16/09	NS	NS	NS	NS

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K-27 Line Drip					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-2	04/06/09	NS	NS	NS	NS
MW-2	08/25/09	NS	NS	NS	NS
MW-2	11/03/09	223	1070	532	2590
MW-2	02/16/10	NS	NS	NS	NS
MW-2	05/24/10	NS	NS	NS	NS
MW-2	09/27/10	NS	NS	NS	NS
MW-2	11/08/10	152	547	471	2190
MW-2	02/01/11	NS	NS	NS	NS
MW-2	05/02/11	NS	NS	NS	NS
MW-2	09/23/11	NS	NS	NS	NS
MW-2	11/10/11	31.9	101	156	446
MW-2	02/22/12	NS	NS	NS	NS
MW-2	05/15/12	NS	NS	NS	NS
MW-2	06/05/13	NS	NS	NS	NS
MW-2	09/10/13	NS	NS	NS	NS
MW-2	12/11/13	NS	NS	NS	NS
MW-2	04/04/14	NS	NS	NS	NS
MW-2 abandoned and replaced with MW-2R on September 26, 2016					
MW-2R	10/15/16	NS	NS	NS	NS
MW-2R	06/07/17	NS	NS	NS	NS
MW-2R	07/26/17	NS	NS	NS	NS
MW-2R	11/14/17	NS	NS	NS	NS
MW-2R	05/15/18	NS	NS	NS	NS
MW-2R	10/27/18	35	140	65	250
MW-2R	05/21/19	NS	NS	NS	NS
MW-2R	11/10/19	NS	NS	NS	NS
MW-2R	05/12/20	NS	NS	NS	NS
MW-2R	11/12/20	NS	NS	NS	NS
MW-2R	03/18/21	NS	NS	NS	NS
MW-2R	05/19/21	NS	NS	NS	NS
MW-2R	08/23/21	NS	NS	NS	NS
MW-2R	11/11/21	NS	NS	NS	NS
MW-2R	05/22/22	NS	NS	NS	NS
MW-2R	11/06/22	NS	NS	NS	NS
MW-2R	05/20/23	NS	NS	NS	NS
MW-2R	11/12/23	NS	NS	NS	NS
MW-3	09/05/00	<0.5	<0.5	<0.5	<0.5
MW-3	07/03/01	<0.5	<0.5	<0.5	<0.5
MW-3	09/04/01	NS	NS	NS	NS
MW-3	09/24/01	NS	NS	NS	NS

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K-27 Line Drip					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-3	04/01/02	NS	NS	NS	NS
MW-3	07/15/02	NS	NS	NS	NS
MW-3	10/08/02	NS	NS	NS	NS
MW-3	07/17/03	NS	NS	NS	NS
MW-3	10/13/03	NS	NS	NS	NS
MW-3	01/19/04	NS	NS	NS	NS
MW-3	04/20/04	NS	NS	NS	NS
MW-3	07/27/04	NS	NS	NS	NS
MW-3	10/20/04	NS	NS	NS	NS
MW-3	01/25/05	NS	NS	NS	NS
MW-3	04/14/05	NS	NS	NS	NS
MW-3	07/19/05	NS	NS	NS	NS
MW-3	10/21/05	<1	<1	<1	<2
MW-3	01/23/06	NS	NS	NS	NS
MW-3	04/28/06	NS	NS	NS	NS
MW-3	07/26/06	NS	NS	NS	NS
MW-3	11/07/06	1.1	1.6	0.42 J	2.3
MW-3	01/17/07	NS	NS	NS	NS
MW-3	04/24/07	NS	NS	NS	NS
MW-3	07/31/07	NS	NS	NS	NS
MW-3	10/25/07	<1	<1	<1	<2
MW-3	01/25/08	NS	NS	NS	NS
MW-3	04/18/08	NS	NS	NS	NS
MW-3	07/23/08	NS	NS	NS	NS
MW-3	10/08/08	<2	<2	<2	<6
MW-3	10/13/08	NS	NS	NS	NS
MW-3	01/16/09	NS	NS	NS	NS
MW-3	04/06/09	NS	NS	NS	NS
MW-3	08/25/09	NS	NS	NS	NS
MW-3	11/03/09	<1	<1	<1	<2
MW-3	02/16/10	NS	NS	NS	NS
MW-3	05/24/10	NS	NS	NS	NS
MW-3	09/27/10	NS	NS	NS	NS
MW-3	11/08/10	<2	<2	<2	<6
MW-3	02/01/11	NS	NS	NS	NS
MW-3	05/02/11	NS	NS	NS	NS
MW-3	09/23/11	NS	NS	NS	NS
MW-3	11/10/11	<1	<1	<1	<3
MW-3	02/22/12	NS	NS	NS	NS
MW-3	05/15/12	NS	NS	NS	NS
MW-3	06/05/13	<0.14	<0.30	<0.20	<0.23

TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

K-27 Line Drip					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-3	09/10/13	NS	NS	NS	NS
MW-3	12/11/13	NS	NS	NS	NS
MW-3	04/04/14	NS	NS	NS	NS
MW-3	10/22/14	NS	NS	NS	NS
MW-3	05/28/15	NS	NS	NS	NS
MW-3	11/21/15	NS	NS	NS	NS
MW-3	04/17/16	NS	NS	NS	NS
MW-3 abandoned and replaced with MW-3R on September 26, 2016					
MW-3R	10/15/16	<1.0	<5.0	<1.0	<5.0
MW-3R	06/07/17	<1.0	<5.0	<1.0	<5.0
MW-3R	11/14/17	<1.0	<1.0	<1.0	<10
MW-3R	05/15/18	<1.0	<1.0	<1.0	<10
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	05/12/20	<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
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-4	11/08/06	<1	<1	<1	<2
MW-4	01/17/07	NS	NS	NS	NS
MW-4	04/24/07	NS	NS	NS	NS
MW-4	07/31/07	NS	NS	NS	NS
MW-4	10/25/07	<1	<1	<1	<2
MW-4	01/25/08	NS	NS	NS	NS
MW-4	04/18/08	NS	NS	NS	NS
MW-4	07/23/08	NS	NS	NS	NS
MW-4	10/08/08	<2	<2	<2	<6
MW-4	10/13/08	NS	NS	NS	NS
MW-4	01/16/09	NS	NS	NS	NS
MW-4	04/06/09	NS	NS	NS	NS
MW-4	08/25/09	NS	NS	NS	NS
MW-4	11/03/09	<1	<1	<1	<2
MW-4	02/16/10	NS	NS	NS	NS
MW-4	05/24/10	NS	NS	NS	NS
MW-4	09/27/10	NS	NS	NS	NS

TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

K-27 Line Drip					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-4	11/08/10	<2	<2	<2	<6
MW-4	02/01/11	NS	NS	NS	NS
MW-4	05/02/11	NS	NS	NS	NS
MW-4	09/23/11	NS	NS	NS	NS
MW-4	11/10/11	<1	<1	<1	<3
MW-4	02/22/12	NS	NS	NS	NS
MW-4	05/15/12	NS	NS	NS	NS
MW-4	06/05/13	<0.14	<0.30	<0.20	<0.23
MW-4	09/10/13	<0.14	<0.30	<0.20	<0.23
MW-4	12/11/13	<0.20	<0.38	<0.20	<0.65
MW-4	04/14/14	<0.20	<0.38	<0.20	<0.65
MW-4	10/22/14	<0.38	<0.70	<0.50	<1.6
MW-4	05/28/15	<1.0	<5.0	<1.0	<5.0
MW-4	11/21/15	<1.0	<1.0	<1.0	<3.0
MW-4	04/17/16	<1.0	<5.0	<1.0	<5.0
MW-4	10/15/16	<1.0	<5.0	<1.0	<5.0
MW-4	06/07/17	<1.0	<5.0	<1.0	<5.0
MW-4	11/14/17	<1.0	<1.0	<1.0	<10
MW-4	05/15/18	NS	NS	NS	NS
MW-4	10/27/18	NS	NS	NS	NS
MW-4	05/21/19	NS	NS	NS	NS
MW-4	11/10/19	NS	NS	NS	NS
MW-4	05/12/20	<1.0	<1.0	<1.0	<10
MW-4	11/12/20	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	<1.0	<1.0	<1.0	<10
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-5	10/15/16	<1.0	<5.0	<1.0	<5.0
MW-5	06/07/17	<1.0	<5.0	<1.0	<5.0
MW-5	11/14/17	<1.0	<1.0	<1.0	<10
MW-5	05/15/18	NS	NS	NS	NS
MW-5	10/27/18	NS	NS	NS	NS
MW-5	05/21/19	NS	NS	NS	NS
MW-5	11/10/19	NS	NS	NS	NS
MW-5	05/12/20	<1.0	<1.0	<1.0	<10
MW-5	11/12/20	NS	NS	NS	NS
MW-5	05/19/21	NS	NS	NS	NS
MW-5	11/11/21	NS	NS	NS	NS

TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

K-27 Line Drip					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-5	05/22/22	<1.0	<1.0	<1.0	<10
MW-5	11/06/22	NS	NS	NS	NS
MW-5	05/20/23	NS	NS	NS	NS
MW-5	11/12/23	NS	NS	NS	NS
MW-6	10/15/16	4.5	<5.0	4.5	59
MW-6	06/07/17	1.4	<5.0	<1.0	<5.0
MW-6	11/14/17	<1.0	<1.0	1.7	170
MW-6	05/15/18	<1.0	<1.0	<1.0	<10
MW-6	10/27/18	<1.0	<1.0	<1.0	<10
MW-6	05/21/19	NS	NS	NS	NS
MW-6	11/10/19	NS	NS	NS	NS
MW-6	05/12/20	<1.0	<1.0	<1.0	<10
MW-6	11/12/20	NS	NS	NS	NS
MW-6	03/18/21	NS	NS	NS	NS
MW-6	05/19/21	<1.0	<1.0	<1.0	<10
MW-6	08/23/21	NS	NS	NS	NS
MW-6	11/11/21	NS	NS	NS	NS
MW-6	05/22/22	NS	NS	NS	NS
MW-6	08/02/22	NS	NS	NS	NS
MW-6	11/06/22	<1.0	<1.0	15	680
MW-6	05/20/23	<1.0	<1.0	3.7	34
MW-6	11/12/23	1.9	<1.0	12	170
MW-7	10/15/16	2.2	<5.0	<1.0	<5.0
MW-7	06/07/17	<1.0	<5.0	<1.0	<5.0
MW-7	11/14/17	<1.0	<1.0	<1.0	<10
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	1.6	<1.0	<1.0	<10
MW-7	11/10/19	<1.0	<1.0	<1.0	<10
MW-7	05/12/20	5.5	<1.0	<1.0	<10
DUP-01(MW-7)*	05/12/20	6.5	<1.0	<1.0	<10
MW-7	11/12/20	<1.0	<1.0	<1.0	<10
DUP-01(MW-7)*	11/12/20	<1.0	<1.0	<1.0	<10
MW-7	05/19/21	NS	NS	NS	NS
MW-7	08/23/21	NS	NS	NS	NS
MW-7	11/11/21	<1.0	<1.0	2.4	30
DUP-01(MW-7)*	11/11/21	<1.0	<1.0	3.2	35
MW-7	05/22/22	<1.0	<1.0	<1.0	<10
DUP-01(MW-7)*	05/22/22	<1.0	<1.0	<1.0	<10
MW-7	11/06/22	<1.0	<1.0	<1.0	<10

TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

K-27 Line Drip					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
DUP-01(MW-7)*	11/06/22	<1.0	<1.0	<1.0	<10
MW-7	05/20/23	1.7	<1.0	<1.0	<10
MW-7	11/12/23	6.4	<1.0	<1.0	<10
MW-8	10/15/16	4.8	42	23	230
MW-8	06/07/17	<1.0	<5.0	2	15
MW-8	11/14/17	<1.0	<1.0	<1.0	<10
MW-8	05/15/18	NS	NS	NS	NS
MW-8	10/21/18	NS	NS	NS	NS
MW-8	10/27/18	NS	NS	NS	NS
MW-8	05/21/19	<1.0	<1.0	<1.0	<10
DUP-01(MW-8)*	05/21/19	<1.0	<1.0	<1.0	<10
MW-8	11/10/19	<1.0	<1.0	<1.0	<10
DUP-01(MW-8)*	11/10/19	<1.0	<1.0	<1.0	<10
MW-8	05/12/20	<1.0	3.6	1.8	36
MW-8	11/12/20	NS	NS	NS	NS
MW-8	03/18/21	NS	NS	NS	NS
MW-8	05/19/21	NS	NS	NS	NS
MW-8	08/23/21	NS	NS	NS	NS
MW-8	11/11/21	NS	NS	NS	NS
MW-8	03/21/22	NS	NS	NS	NS
MW-8	05/22/22	1.5	2.6	4.0	49
MW-8	11/06/22	<1.0	<1.0	<1.0	<10
MW-8	05/20/23	3.3	<1.0	7.0	20
MW-8	11/12/23	<1.0	<1.0	<1.0	<10
MW-9	11/14/17	NS	NS	NS	NS
MW-9	05/15/18	NS	NS	NS	NS
MW-9	10/27/18	1.8	<1.0	<1.0	49
MW-9	05/21/19	NS	NS	NS	NS
MW-9	11/10/19	NS	NS	NS	NS
MW-9	05/12/20	NS	NS	NS	NS
MW-9	11/12/20	NS	NS	NS	NS
MW-9	03/18/21	NS	NS	NS	NS
MW-9	05/19/21	NS	NS	NS	NS
MW-9	08/23/21	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

TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

K-27 Line Drip					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-10	11/14/17	<1.0	<1.0	<1.0	<10
MW-10	05/15/18	<1.0	<1.0	<1.0	<10
MW-10	10/27/18	<1.0	<1.0	<1.0	<10
MW-10	05/21/19	<1.0	<1.0	<1.0	<10
MW-10	11/10/19	<1.0	<1.0	<1.0	<10
MW-10	05/12/20	<1.0	<1.0	<1.0	<10
MW-10	11/12/20	<1.0	<1.0	<1.0	<10
MW-10	05/19/21	<1.0	<1.0	<1.0	<10
MW-10	11/11/21	<1.0	<1.0	<1.0	<10
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	<1.0	<1.0	<1.0	<10
MW-10	11/12/23	<1.0	<1.0	<1.0	<10
MW-12	11/06/22	<1.0	<1.0	<1.0	<10
MW-12	05/20/23	<1.0	<1.0	<1.0	<10
MW-12	11/12/23	<1.0	<1.0	<1.0	<10
MW-13	11/06/22	<1.0	<1.0	<1.0	<10
MW-13	05/20/23	NS	NS	NS	NS
MW-13	11/12/23	NS	NS	NS	NS
MW-14	11/06/22	<1.0	<1.0	<1.0	<10
MW-14	05/20/23	<1.0	<1.0	<1.0	<10
MW-14	11/12/23	<1.0	<1.0	<1.0	<10

Notes:
"NS" = Not Sampled
"µg/L" = micrograms per liter
Results highlighted yellow exceed their respective New Mexico Water Quality Control Commission (NMWQCC) standards.
"J" = Result is less than the reporting limit but greater than or equal to the method detection limit and the result in an approximate value.
"<" = analyte was not detected at the indicated reporting limit (some historic data were reported at the detection limit).
*Field Duplicate results presented immediately below primary sample results

TABLE 3 - GROUNDWATER ELEVATION RESULTS

K-27 Line Drip						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-1	11/04/96	6261.93	NR	37.44		6224.49
MW-1	02/05/97	6261.93	NR	36.89		6225.04
MW-1	05/07/97	6261.93	NR	36.73		6225.20
MW-1	08/08/97	6261.93	NR	37.61		6224.32
MW-1	11/07/97	6261.93	37.21	37.33	0.12	6224.69
MW-1	02/26/98	6261.93	36.71	36.89	0.18	6225.18
MW-1	02/24/99	6261.93	36.27	36.39	0.12	6225.63
MW-1	08/19/99	6261.93	NR	36.48		6225.45
MW-1	11/10/99	6261.93	36.1	36.17	0.07	6225.81
MW-1	09/05/00	6261.93	NR	37.22		6224.71
MW-1	10/06/00	6261.93	NR	37.42		6224.51
MW-1	07/03/01	6261.93	36.49	36.64	0.15	6225.40
MW-1	09/04/01	6261.93	37.39	37.43	0.04	6224.53
MW-1	09/24/01	6261.93	37.4	37.45	0.05	6224.52
MW-1	04/01/02	6261.93	NR	37.01		6224.92
MW-1	07/15/02	6261.93	37.85	38.02	0.17	6224.04
MW-1	10/08/02	6261.93	38	38.01	0.01	6223.93
MW-1	01/27/03	6261.93	ND	37.42		6224.51
MW-1	04/26/03	6261.93	ND	37.15		6224.78
MW-1	07/17/03	6261.93	38.18	38.36	0.18	6223.71
MW-1	10/13/03	6261.93	ND	38.29		6223.64
MW-1	01/19/04	6261.93	37.68	37.69	0.01	6224.25
MW-1	04/20/04	6261.93	ND	37.29		6224.64
MW-1	07/27/04	6261.93	38.28	38.45	0.17	6223.61
MW-1	10/20/04	6261.93	38.68	38.71	0.03	6223.24
MW-1	01/25/05	6261.93	38.16	38.18	0.02	6223.77
MW-1	04/14/05	6261.93	37.75	37.84	0.09	6224.16
MW-1	07/19/05	6261.93	ND	38.84		6223.09
MW-1	10/12/05	6261.93	ND	38.46		6223.47
MW-1	10/21/05	6261.93	ND	38.46		6223.47
MW-1	01/23/06	6261.93	ND	37.89		6224.04
MW-1	04/28/06	6261.93	ND	37.57		6224.36
MW-1	07/26/06	6261.93	ND	38.61		6223.32
MW-1	11/07/06	6261.93	36.31	36.37	0.06	6225.61
MW-1	01/17/07	6261.93	ND	35.91		6226.02
MW-1	04/24/07	6261.93	ND	35.53		6226.40
MW-1	07/31/07	6261.93	ND	36.57		6225.36
MW-1	10/25/07	6261.93	ND	36.04		6225.89
MW-1	01/25/08	6261.93	ND	35.90		6226.03
MW-1	04/18/08	6261.93	ND	35.47		6226.46
MW-1	07/23/08	6261.93	ND	36.43		6225.50
MW-1	10/08/08	6261.93	ND	36.95		6224.98

TABLE 3 - GROUNDWATER ELEVATION RESULTS

K-27 Line Drip						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-1	10/13/08	6261.93	ND	36.93		6225.00
MW-1	01/16/09	6261.93	ND	36.77		6225.16
MW-1	04/06/09	6261.93	ND	36.30		6225.63
MW-1	08/25/09	6261.93	ND	37.53		6224.40
MW-1	11/03/09	6261.93	ND	37.58		6224.35
MW-1	02/16/10	6261.93	ND	37.32		6224.61
MW-1	05/24/10	6261.93	ND	36.97		6224.96
MW-1	09/27/10	6261.93	ND	37.98		6223.95
MW-1	11/08/10	6261.93	ND	37.70		6224.23
MW-1	02/01/11	6261.93	ND	37.35		6224.58
MW-1	05/02/11	6261.93	ND	37.26		6224.67
MW-1	09/23/11	6261.93	ND	38.45		6223.48
MW-1	11/10/11	6261.93	ND	38.30		6223.63
MW-1	02/22/12	6261.93	ND	37.82		6224.11
MW-1	05/15/12	6261.93	ND	37.81		6224.12
MW-1	06/05/13	6261.93	ND	38.16		6223.77
MW-1	09/10/13	6261.93	ND	38.85		6223.08
MW-1	12/11/13	6261.93	ND	38.05		6223.88
MW-1	04/04/14	6261.93	ND	37.54		6224.39
MW-1	10/22/14	6261.93	ND	38.36		6223.57
MW-1	05/28/15	6261.93	ND	37.30		6224.63
MW-1	11/21/15	6261.93	ND	37.72		6224.21
MW-1	04/17/16	6261.93	ND	37.29		6224.64
MW-1	10/15/16	6261.93	ND	40.48		6221.45
MW-1	06/07/17	6261.93	ND	37.45		6224.48
MW-1	11/14/17	6261.93	ND	37.96		6223.97
MW-1	05/15/18	6261.93	ND	37.39		6224.54
MW-1	10/21/18	6261.93	ND	38.74		6223.19
MW-1	10/27/18	6261.93	ND	38.71		6223.22
MW-1	05/21/19	6261.93	ND	37.64		6224.29
MW-1	11/10/19	6261.93	ND	38.87		6223.06
MW-1	05/12/20	6261.93	ND	38.31		6223.62
MW-1	11/12/20	6261.93	39.47	39.49	0.02	6222.46
MW-1	03/18/21	6261.93	ND	39.12		6222.81
MW-1	05/19/21	6261.93	ND	38.98		6222.95
MW-1	08/23/21	6261.93	39.89	39.89	<0.01	6222.04
MW-1	11/11/21	6261.93	39.49	39.51	0.02	6222.42
MW-1	03/21/22	6261.93	ND	38.81		6223.12
MW-1	05/22/22	6261.93	ND	39.01		6222.92
MW-1	08/02/22	6261.93	39.15	39.16	0.01	6222.77
MW-1	11/06/22	6261.93	ND	38.38		6222.92
MW-1	03/29/23	6261.93	ND	37.47		6223.92

TABLE 3 - GROUNDWATER ELEVATION RESULTS

K-27 Line Drip						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-1	05/20/23	6261.93	ND	37.58		6223.92
MW-1	08/30/23	6261.93	ND	38.69		6225.92
MW-1	11/12/23	6261.93	ND	38.69		6225.92
MW-2	08/31/00	6261.39	NR	35.81		6225.58
MW-2	09/05/00	6261.39	36.11	37.28	1.17	6224.99
MW-2	10/06/00	6261.39	36.04	37.31	1.27	6225.03
MW-2	07/03/01	6261.39	36.12	37.37	1.25	6224.96
MW-2	09/04/01	6261.39	36.25	36.52	0.27	6225.07
MW-2	09/24/01	6261.39	36.27	36.46	0.19	6225.07
MW-2	01/02/02	6261.39	35.87	36.97	1.1	6225.24
MW-2	04/01/02	6261.39	35.67	36.61	0.94	6225.48
MW-2	07/15/02	6261.39	NR	38.00		6223.39
MW-2	10/08/02	6261.39	36.94	37.01	0.07	6224.43
MW-2	01/27/03	6261.39	36.31	36.47	0.16	6225.04
MW-2	04/26/03	6261.39	35.85	36.88	1.03	6225.28
MW-2	07/17/03	6261.39	36.75	38.20	1.45	6224.28
MW-2	10/13/03	6261.39	37.07	37.64	0.57	6224.18
MW-2	01/19/04	6261.39	36.51	36.72	0.21	6224.83
MW-2	04/20/04	6261.39	35.91	36.93	1.02	6225.22
MW-2	07/27/04	6261.39	36.88	38.30	1.42	6224.15
MW-2	10/20/04	6261.39	37.37	38.23	0.86	6223.80
MW-2	01/25/05	6261.39	36.77	42.87	6.1	6223.09
MW-2	04/14/05	6261.39	36.55	36.55		6224.84
MW-2	07/19/05	6261.39	37.55	38.16	0.61	6223.69
MW-2	10/21/05	6261.39	37.06	38.31	1.25	6224.02
MW-2	01/23/06	6261.39	36.69	37.31	0.62	6224.54
MW-2	04/28/06	6261.39	36.33	37.01	0.68	6224.89
MW-2	07/26/06	6261.39	37.42	38.37	0.95	6223.73
MW-2	11/07/06	6261.39	35.21	35.28	0.07	6226.16
MW-2	01/17/07	6261.39	ND	35.35		6226.04
MW-2	04/24/07	6261.39	ND	35.08		6226.31
MW-2	07/31/07	6261.39	36.01	36.03	0.02	6225.37
MW-2	10/25/07	6261.39	ND	35.53		6225.86
MW-2	01/25/08	6261.39	35.34	35.37	0.03	6226.04
MW-2	04/18/08	6261.39	ND	34.90		6226.49
MW-2	07/23/08	6261.39	ND	35.95		6225.44
MW-2	10/13/08	6261.39	ND	36.39		6225.00
MW-2	01/16/09	6261.39	36.14	36.39	0.25	6225.19
MW-2	04/06/09	6261.39	35.94	35.98	0.04	6225.44
MW-2	08/25/09	6261.39	36.97	37.03	0.06	6224.40
MW-2	11/03/09	6261.39	36.96	37.00	0.04	6224.42
MW-2	02/16/10	6261.39	ND	36.96		6224.43

TABLE 3 - GROUNDWATER ELEVATION RESULTS

K-27 Line Drip						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-2	05/24/10	6261.39	36.48	36.55	0.07	6224.89
MW-2	09/27/10	6261.39	37.57	37.58	0.01	6223.82
MW-2	11/08/10	6261.39	ND	37.72		6223.67
MW-2	02/01/11	6261.39	ND	36.92		6224.47
MW-2	05/02/11	6261.39	ND	36.71		6224.68
MW-2	09/23/11	6261.39	ND	38.01		6223.38
MW-2	11/10/11	6261.39	37.69	37.70	0.01	6223.70
MW-2	02/22/12	6261.39	37.39	37.54	0.15	6223.96
MW-2	05/15/12	6261.39	37.37	37.48	0.11	6223.99
MW-2	06/05/13	6261.39	ND	NA		NA
MW-2	09/10/13	6261.39	ND	NA		NA
MW-2	12/11/13	6261.39	ND	NA		NA
MW-2	04/04/14	6261.39	ND	NA		NA
MW-2 abandoned and replaced with MW-2R on September 26, 2016						
MW-2R	10/15/16	6260.93	37.62	37.97	0.35	6223.22
MW-2R	06/07/17	6260.93	36.53	36.94	0.41	6224.30
MW-2R	07/26/17	6260.93	32.24	32.81	0.57	6228.55
MW-2R	11/14/17	6260.93	36.95	37.76	0.81	6223.78
MW-2R	05/15/18	6260.93	36.48	36.86	0.38	6224.36
MW-2R	10/21/18	6260.93	37.64	38.85	1.21	6222.99
MW-2R	10/27/18	6260.93	ND	37.78		6223.15
MW-2R	05/21/19	6260.93	36.7	37.35	0.65	6224.07
MW-2R	11/10/19	6260.93	37.65	38.82	1.17	6222.99
MW-2R	05/12/20	6260.93	37.26	38.24	0.98	6223.43
MW-2R	08/19/20	6260.93	38.24	39.75	1.51	6222.31
MW-2R	11/12/20	6260.93	38.62	38.69	0.07	6222.29
MW-2R	03/18/21	6260.93	37	38.00	1	6223.68
MW-2R	05/19/21	6260.93	37.92	39.03	1.11	6222.73
MW-2R	08/23/21	6260.93	38.92	39.80	0.88	6221.79
MW-2R	11/11/21	6260.93	38.67	38.78	0.11	6222.23
MW-2R	03/21/22	6260.93	37.81	38.69	0.88	6222.90
MW-2R	05/22/22	6260.93	37.93	38.94	1.01	6222.75
MW-2R	08/02/22	6260.93	38.35	38.70	0.35	6222.49
MW-2R	11/06/22	6260.93	37.54	37.85	0.31	6222.75
MW-2R	03/29/23	6260.93	ND	36.71		6223.75
MW-2R	05/20/23	6260.93	ND	36.74		6223.75
MW-2R	08/30/23	6260.93	37.94	37.95	0.01	6224.75
MW-2R	11/12/23	6260.93	37.75	38.24	0.49	6224.75
MW-3	09/05/00	6261.71	NR	37.40		6224.31
MW-3	07/03/01	6261.71	NR	37.69		6224.02
MW-3	09/04/01	6261.71	NR	37.50		6224.21

TABLE 3 - GROUNDWATER ELEVATION RESULTS

K-27 Line Drip						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-3	09/24/01	6261.71	NR	37.51		6224.20
MW-3	04/01/02	6261.71	NR	37.08		6224.63
MW-3	07/15/02	6261.71	NR	37.13		6224.58
MW-3	10/08/02	6261.71	NR	38.09		6223.63
MW-3	07/17/03	6261.71	ND	38.28		6223.43
MW-3	10/13/03	6261.71	ND	38.34		6223.37
MW-3	01/19/04	6261.71	ND	37.69		6224.02
MW-3	04/20/04	6261.71	ND	37.26		6224.45
MW-3	07/27/04	6261.71	ND	38.36		6223.35
MW-3	10/20/04	6261.71	ND	38.72		6222.99
MW-3	01/25/05	6261.71	ND	38.13		6223.58
MW-3	04/14/05	6261.71	ND	37.74		6223.97
MW-3	07/19/05	6261.71	ND	38.74		6222.97
MW-3	10/21/05	6261.71	ND	38.48		6223.23
MW-3	01/23/06	6261.71	ND	37.89		6223.82
MW-3	04/28/06	6261.71	ND	37.61		6224.10
MW-3	07/26/06	6261.71	ND	38.34		6223.37
MW-3	11/07/06	6261.71	ND	36.50		6225.21
MW-3	01/17/07	6261.71	ND	35.98		6225.73
MW-3	04/24/07	6261.71	ND	35.64		6226.07
MW-3	07/31/07	6261.71	ND	36.59		6225.12
MW-3	10/25/07	6261.71	ND	36.20		6225.51
MW-3	01/25/08	6261.71	ND	36.00		6225.71
MW-3	04/18/08	6261.71	ND	35.56		6226.15
MW-3	07/23/08	6261.71	ND	36.60		6225.11
MW-3	10/08/08	6261.71	ND	37.09		6224.62
MW-3	10/13/08	6261.71	ND	37.09		6224.62
MW-3	01/16/09	6261.71	ND	36.83		6224.88
MW-3	04/06/09	6261.71	ND	36.43		6225.28
MW-3	08/25/09	6261.71	ND	37.62		6224.09
MW-3	11/03/09	6261.71	ND	37.67		6224.04
MW-3	02/16/10	6261.71	ND	37.16		6224.55
MW-3	05/24/10	6261.71	ND	37.02		6224.69
MW-3	09/27/10	6261.71	ND	38.07		6223.64
MW-3	11/08/10	6261.71	ND	37.82		6223.89
MW-3	02/01/11	6261.71	ND	37.39		6224.32
MW-3	05/02/11	6261.71	ND	37.28		6224.43
MW-3	09/23/11	6261.71	ND	38.15		6223.56
MW-3	11/10/11	6261.71	ND	38.13		6223.58
MW-3	02/22/12	6261.71	ND	37.85		6223.86
MW-3	05/15/12	6261.71	ND	37.87		6223.84
MW-3	06/05/13	6261.71	ND	38.26		6223.45

TABLE 3 - GROUNDWATER ELEVATION RESULTS

K-27 Line Drip						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-3	09/10/13	6261.71	ND	38.95		6222.76
MW-3	12/11/13	6261.71	ND	DRY		NA
MW-3	04/04/14	6261.71	ND	DRY		NA
MW-3	10/22/14	6261.71	ND	DRY		NA
MW-3	05/28/15	6261.71	ND	DRY		NA
MW-3	11/21/15	6261.71	ND	DRY		NA
MW-3	04/17/16	6261.71	ND	DRY		NA
MW-3 abandoned and replaced with MW-3R on September 26, 2016						
MW-3R	10/15/16	6261.09	ND	37.92		6223.17
MW-3R	06/07/17	6261.09	ND	36.83		6224.26
MW-3R	11/14/17	6261.09	ND	37.37		6223.72
MW-3R	05/15/18	6261.09	ND	36.77		6224.32
MW-3R	10/21/18	6261.09	ND	38.12		6222.97
MW-3R	10/27/18	6261.09	ND	38.05		6223.04
MW-3R	05/21/19	6261.09	ND	37.00		6224.09
MW-3R	11/10/19	6261.09	ND	38.15		6222.94
MW-3R	05/12/20	6261.09	ND	37.66		6223.43
MW-3R	11/12/20	6261.09	ND	38.85		6222.24
MW-3R	05/19/21	6261.09	ND	38.40		6222.69
MW-3R	11/11/21	6261.09	ND	38.86		6222.23
MW-3R	05/22/22	6261.09	ND	38.42		6222.67
MW-3R	11/06/22	6261.09	ND	37.78		6223.31
MW-3R	05/20/23	6261.09	ND	36.95		6224.14
MW-3R	11/12/23	6261.09	ND	38.05		6223.04
MW-4	11/08/06	6258.51	ND	32.95		6225.56
MW-4	01/17/07	6258.51	ND	32.63		6225.88
MW-4	04/24/07	6258.51	ND	32.30		6226.21
MW-4	07/31/07	6258.51	ND	33.33		6225.18
MW-4	10/25/07	6258.51	ND	32.90		6225.61
MW-4	01/25/08	6258.51	ND	32.64		6225.87
MW-4	04/18/08	6258.51	ND	32.20		6226.31
MW-4	07/23/08	6258.51	ND	33.30		6225.21
MW-4	10/08/08	6258.51	ND	33.79		6224.72
MW-4	10/13/08	6258.51	ND	33.80		6224.71
MW-4	01/16/09	6258.51	ND	33.53		6224.98
MW-4	04/06/09	6258.51	ND	33.18		6225.33
MW-4	08/25/09	6258.51	ND	34.35		6224.16
MW-4	11/03/09	6258.51	ND	34.35		6224.16
MW-4	02/16/10	6258.51	ND	34.05		6224.46
MW-4	05/24/10	6258.51	ND	33.65		6224.86
MW-4	09/27/10	6258.51	ND	34.81		6223.70

TABLE 3 - GROUNDWATER ELEVATION RESULTS

K-27 Line Drip						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-4	11/08/10	6258.51	ND	34.55		6223.96
MW-4	02/01/11	6258.51	ND	34.12		6224.39
MW-4	05/02/11	6258.51	ND	33.93		6224.58
MW-4	09/23/11	6258.51	ND	35.22		6223.29
MW-4	11/10/11	6258.51	ND	35.02		6223.49
MW-4	02/22/12	6258.51	ND	34.66		6223.85
MW-4	05/15/12	6258.51	ND	34.61		6223.90
MW-4	06/05/13	6258.51	ND	34.96		6223.55
MW-4	09/10/13	6258.51	ND	35.61		6222.90
MW-4	12/11/13	6258.51	ND	34.73		6223.78
MW-4	04/14/14	6258.51	ND	34.21		6224.30
MW-4	10/22/14	6258.51	ND	35.10		6223.41
MW-4	05/28/15	6258.51	ND	34.08		6224.43
MW-4	11/21/15	6258.51	ND	34.33		6224.18
MW-4	04/17/16	6258.51	ND	33.92		6224.59
MW-4	10/15/16	6258.51	ND	35.27		6223.24
MW-4	06/07/17	6258.51	ND	34.23		6224.28
MW-4	11/14/17	6258.51	ND	34.73		6223.78
MW-4	05/15/18	6258.51	ND	34.16		6224.35
MW-4	10/21/18	6258.51	ND	35.49		6223.02
MW-4	10/27/18	6258.51	ND	35.42		6223.09
MW-4	05/21/19	6258.51	ND	34.41		6224.10
MW-4	11/10/19	6258.51	ND	35.39		6223.12
MW-4	05/12/20	6258.51	ND	35.07		6223.44
MW-4	11/12/20	6258.51	ND	36.23		6222.28
MW-4	05/19/21	6258.51	ND	35.82		6222.69
MW-4	11/11/21	6258.51	ND	36.24		6222.27
MW-4	05/22/22	6258.51	ND	35.78		6222.73
MW-4	11/06/22	6258.51	ND	35.15		6223.36
MW-4	05/20/23	6258.51	ND	34.33		6224.18
MW-4	11/12/23	6258.51	ND	35.45		6223.06
MW-5	10/15/16	6264.51	ND	41.24		6223.27
MW-5	06/07/17	6264.51	ND	40.14		6224.37
MW-5	11/14/17	6264.51	ND	40.70		6223.81
MW-5	05/15/18	6264.51	ND	40.09		6224.42
MW-5	10/21/18	6264.51	ND	41.46		6223.05
MW-5	10/27/18	6264.51	ND	41.40		6223.11
MW-5	05/21/19	6264.51	ND	40.34		6224.17
MW-5	11/10/19	6264.51	ND	41.53		6222.98
MW-5	05/12/20	6264.51	ND	41.00		6223.51
MW-5	11/12/20	6264.51	ND	42.13		6222.38
MW-5	05/19/21	6264.51	ND	41.74		6222.77

TABLE 3 - GROUNDWATER ELEVATION RESULTS

K-27 Line Drip						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-5	11/11/21	6264.51	ND	42.21		6222.30
MW-5	05/22/22	6264.51	ND	41.74		6222.77
MW-5	11/06/22	6264.51	ND	41.12		6223.39
MW-5	05/20/23	6264.51	ND	40.31		6224.20
MW-5	11/12/23	6264.51	ND	41.41		6223.10
MW-6	10/15/16	6263.51	ND	40.14		6223.37
MW-6	06/07/17	6263.51	ND	39.07		6224.44
MW-6	11/14/17	6263.51	ND	39.69		6223.82
MW-6	05/15/18	6263.51	ND	39.01		6224.50
MW-6	10/21/18	6263.51	40.4	40.49	0.09	6223.08
MW-6	10/27/18	6263.51	ND	40.34		6223.17
MW-6	05/21/19	6263.51	ND	39.30		6224.21
MW-6	11/10/19	6263.51	ND	40.46		6223.05
MW-6	05/12/20	6263.51	ND	39.91		6223.60
MW-6	11/12/20	6263.51	41.04	41.09	0.05	6222.45
MW-6	03/18/21	6263.51	ND	40.77		6222.74
MW-6	05/19/21	6263.51	ND	40.60		6222.91
MW-6	08/23/21	6263.51	41.29	41.93	0.64	6222.06
MW-6	11/11/21	6263.51	41.02	41.39	0.37	6222.39
MW-6	03/21/22	6263.51	40.43	40.58	1.37	6223.04
MW-6	05/22/22	6263.51	40.54	40.80	2.37	6222.90
MW-6	08/02/22	6263.51	40.98	41.12	3.37	6222.49
MW-6	11/06/22	6263.51	ND	40.14		6223.37
MW-6	03/29/23	6263.51	ND	39.24		6224.27
MW-6	05/20/23	6263.51	ND	39.25		6224.26
MW-6	08/30/23	6263.51	ND	40.28		6223.23
MW-6	11/12/23	6263.51	ND	40.35		6223.16
MW-7	10/15/16	6262.84	ND	39.32		6223.52
MW-7	06/07/17	6262.84	ND	37.34		6225.50
MW-7	11/14/17	6262.84	ND	37.88		6224.96
MW-7	05/15/18	6262.84	ND	37.27		6225.57
MW-7	10/21/18	6262.84	ND	38.62		6224.22
MW-7	10/27/18	6262.84	ND	38.56		6224.28
MW-7	05/21/19	6262.84	ND	37.54		6225.30
MW-7	11/10/19	6262.84	ND	38.64		6224.20
MW-7	05/12/20	6262.84	ND	38.18		6224.66
MW-7	11/12/20	6262.84	ND	39.37		6223.47
MW-7	05/19/21	6262.84	38.83	39.05	0.22	6223.96
MW-7	08/23/21	6262.84	39.66	40.10	0.44	6223.07
MW-7	11/11/21	6262.84	ND	39.39		6223.45
MW-7	03/21/22	6262.84	ND	38.74		6224.10

TABLE 3 - GROUNDWATER ELEVATION RESULTS

K-27 Line Drip						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-7	05/22/22	6262.84	ND	38.90		6223.94
MW-7	08/02/22	6262.84	ND	39.10		6223.74
MW-7	11/06/22	6262.84	ND	38.28		6224.56
MW-7	03/29/23	6262.84	ND	37.39		6225.45
MW-7	05/20/23	6262.84	ND	37.45		6225.39
MW-7	08/30/23	6262.84	ND	38.61		6224.23
MW-7	11/12/23	6262.84	ND	38.55		6224.29
MW-8	10/15/16	6260.37	ND	37.10		6223.27
MW-8	06/07/17	6260.37	ND	36.08		6224.29
MW-8	11/14/17	6260.37	ND	36.56		6223.81
MW-8	05/15/18	6260.37	ND	35.97		6224.40
MW-8	10/21/18	6260.37	ND	37.40		6222.97
MW-8	10/27/18	6260.37	37.15	37.57	0.42	6223.11
MW-8	05/21/19	6260.37	ND	36.26		6224.11
MW-8	11/10/19	6260.37	ND	37.39		6222.98
MW-8	05/12/20	6260.37	ND	36.88		6223.49
MW-8	11/12/20	6260.37	37.84	38.04	0.2	6222.48
MW-8	03/18/21	6260.37	37.58	37.60	0.02	6222.78
MW-8	05/19/21	6260.37	37.64	37.72	0.08	6222.71
MW-8	08/23/21	6260.37	38.27	39.30	1.03	6221.84
MW-8	11/11/21	6260.37	37.95	38.54	0.59	6222.27
MW-8	03/21/22	6260.37	37.47	37.48	0.01	6222.89
MW-8	05/22/22	6260.37	ND	37.60		6222.77
MW-8	08/02/22	6260.37	ND	37.70		6222.67
MW-8	11/06/22	6260.37	ND	37.01		6223.36
MW-8	03/29/23	6260.37	ND	36.17		6224.20
MW-8	05/20/23	6260.37	ND	36.15		6224.22
MW-8	08/30/23	6260.37	ND	37.44		6222.93
MW-8	11/12/23	6260.37	ND	37.28		6223.09
MW-9	11/14/17	6261.66	37.75	38.14	0.39	6223.81
MW-9	05/15/18	6261.66	37.16	37.65	0.49	6224.38
MW-9	10/21/18	6261.66	38.34	39.35	1.01	6223.07
MW-9	10/27/18	6261.66	ND	38.55		6223.11
MW-9	05/21/19	6261.66	37.44	37.99	0.55	6224.08
MW-9	11/10/19	6261.66	38.39	39.70	1.31	6222.94
MW-9	05/12/20	6261.66	37.46	38.85	1.39	6223.85
MW-9	08/19/20	6261.66	38.5	40.59	2.09	6222.64
MW-9	11/12/20	6261.66	39.02	40.36	1.34	6222.31
MW-9	03/18/21	6261.66	37.75	38.75	1	6223.66
MW-9	05/19/21	6261.66	38.67	39.58	0.91	6222.76
MW-9	08/23/21	6261.66	39.35	41.04	1.69	6221.89

TABLE 3 - GROUNDWATER ELEVATION RESULTS

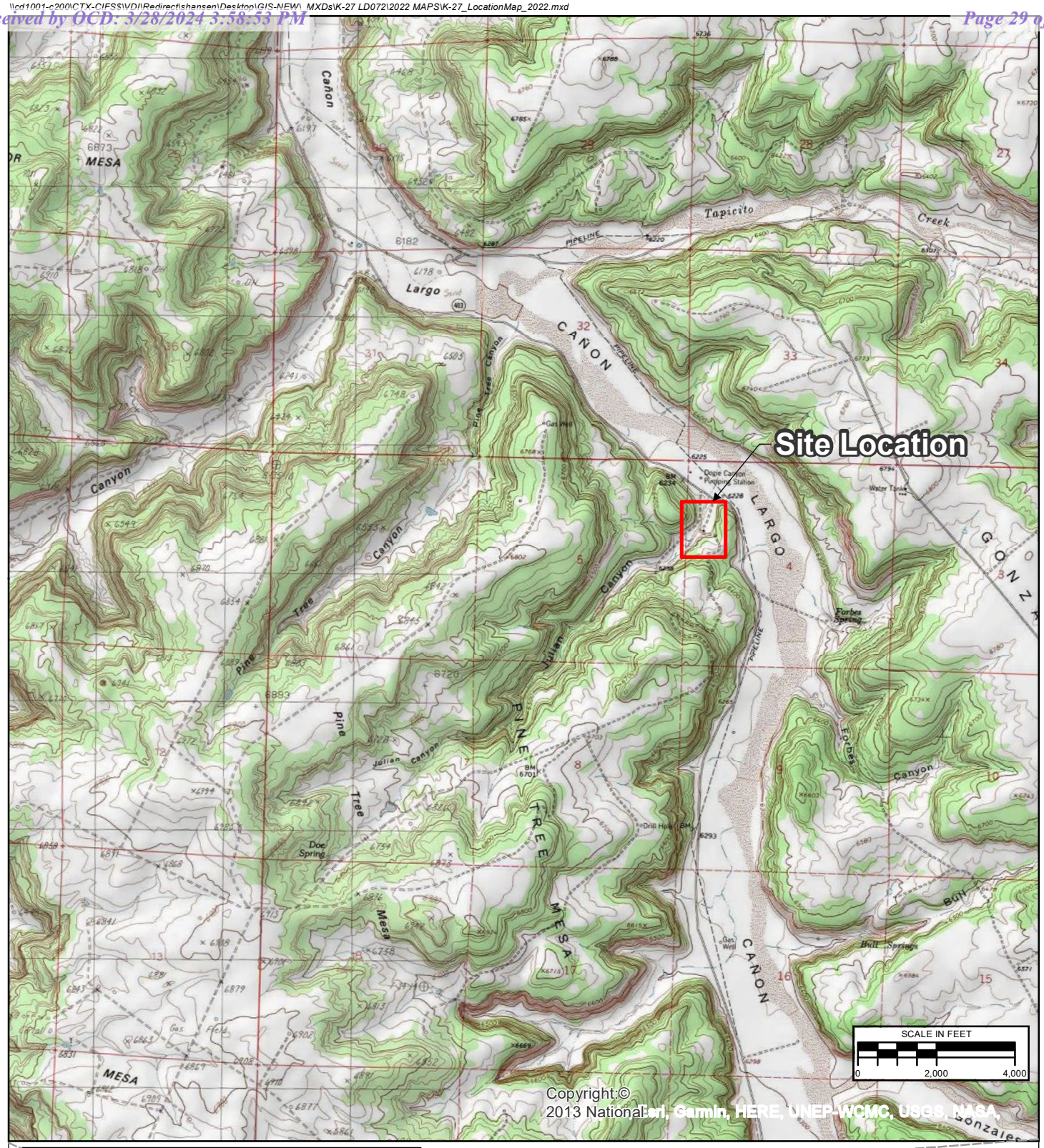
K-27 Line Drip						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-9	11/11/21	6261.66	39.15	40.10	0.95	6222.27
MW-9	03/21/22	6261.66	38.65	38.95	0.3	6222.94
MW-9	05/22/22	6261.66	38.76	39.30	0.54	6222.77
MW-9	08/02/22	6261.66	38.95	39.51	0.56	6222.57
MW-9	11/06/22	6261.66	38.28	38.29	0.01	6223.38
MW-9	03/29/23	6261.66	ND	37.38		6224.28
MW-9	05/20/23	6261.66	37.45	37.54	0.09	6224.19
MW-9	08/30/23	6261.66	38.64	38.70	0.06	6223.01
MW-9	11/12/23	6261.66	ND	39.58		6222.08
MW-10	11/14/17	6257.55	ND	33.78		6223.77
MW-10	05/15/18	6257.55	ND	33.13		6224.42
MW-10	10/21/18	6257.55	ND	34.53		6223.02
MW-10	10/27/18	6257.55	ND	34.45		6223.10
MW-10	05/21/19	6257.55	ND	33.44		6224.11
MW-10	11/10/19	6257.55	ND	34.61		6222.94
MW-10	05/12/20	6257.55	ND	34.10		6223.45
MW-10	11/12/20	6257.55	ND	35.25		6222.30
MW-10	05/19/21	6257.55	ND	34.83		6222.72
MW-10	11/11/21	6257.55	ND	35.28		6222.27
MW-10	05/22/22	6257.55	ND	34.80		6222.75
MW-10	11/06/22	6257.55	ND	34.19		6223.36
MW-10	05/20/23	6257.55	ND	33.35		6224.20
MW-10	11/12/23	6257.55	ND	34.47		6223.08
MW-12	11/06/22	6264.03	ND	39.54		6224.49
MW-12	03/29/23	6264.03	ND	38.63		6225.40
MW-12	05/20/23	6264.03	ND	38.68		6225.35
MW-12	11/12/23	6264.03	ND	39.78		6224.25
MW-13	11/06/22	6263.58	ND	39.13		6224.45
MW-13	03/29/23	6263.58	ND	38.29		6225.29
MW-13	05/20/23	6263.58	ND	38.27		6225.31
MW-13	11/12/23	6263.58	ND	39.37		6224.21
MW-14	11/06/22	6260.77	ND	35.76		6225.01
MW-14	03/29/23	6260.77	ND	34.92		6225.85
MW-14	05/20/23	6260.77	ND	34.94		6225.83
MW-14	11/12/23	6260.77	ND	36.05		6224.72
TW-1	10/21/18	6261.86	ND	38.82		6223.04
TW-1	10/27/18	6261.86	ND	38.76		6223.10
TW-1	05/21/19	6261.86	ND	37.72		6224.14
TW-1	11/10/19	6261.86	ND	38.84		6223.02

TABLE 3 - GROUNDWATER ELEVATION RESULTS

K-27 Line Drip						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
TW-1	05/12/20	6261.86	ND	38.33		6223.53
TW-1	11/12/20	6261.86	ND	39.52		6222.34
TW-1	05/19/21	6261.86	ND	39.09		6222.77
TW-1	11/11/21	6261.86	ND	39.57		6222.29
TW-1	05/22/22	6261.86	ND	39.10		6222.76
TW-1	11/06/22	6261.86	ND	38.50		6223.36
TW-1	05/20/23	6261.86	ND	37.65		6224.21
TW-1	11/12/23	6261.86	ND	38.77		6223.09

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

FIGURES



N

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	2023-02-14	SAH	SAH	SRV

TITLE
SITE LOCATION

Stantec

PROJECT
K-27 LD072
SAN JUAN RIVER BASIN
RIO ARRIBA COUNTY, NEW MEXICO

FIGURE
1

\\cd1001-c200\CTX-CIFSS\VDI\Redirect\shansen\Desktop\GIS-NEW_MXDs\K-27 LD072\2022 MAPS\K-27_SITEMAP_2022.mxd

LEGEND:

- 6257 — APPROXIMATE GROUND SURFACE CONTOUR AND ELEVATION, FEET
- FENCE
- GAS — NATURAL GAS LINE
- ABANDONED MONITORING WELL
- MONITORING WELL
- TEST WELL
- SOIL BORING
- SMA BENCHMARK
- RIGHT OF WAY BOUNDARY

N

SCALE IN FEET

0 30 60

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	2022-12-23	SLG	SLG	SRV

TITLE:

SITE PLAN

PROJECT:

K27 LD072
SAN JUAN RIVER BASIN
RIO ARRIBA COUNTY, NEW MEXICO

Stantec

Figure No.: **2**

\\cd1001-c200\CTX-CIFSS\VDI\Redirect\shansen\Desktop\GIS-NEW_MXDs\K-27 LD072\2023 MAPS\K-27_GARM_1SA_2023.mxd

LEGEND:

- 6257 — APPROXIMATE GROUND SURFACE CONTOUR AND ELEVATION, FEET
- FENCE
- GAS — NATURAL GAS LINE
- ABANDONED MONITORING WELL
- MONITORING WELL
- MONITORING WELL WITH MEASURABLE LNAPL
- TEST WELL
- SMA BENCHMARK

NOTES:

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

EXPLANATION OF ANALYTES AND APPLICABLE STANDARDS:

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

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

N

SCALE IN FEET
0 30 60

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	2024-02-05	SAH	SAH	SRV

TITLE:

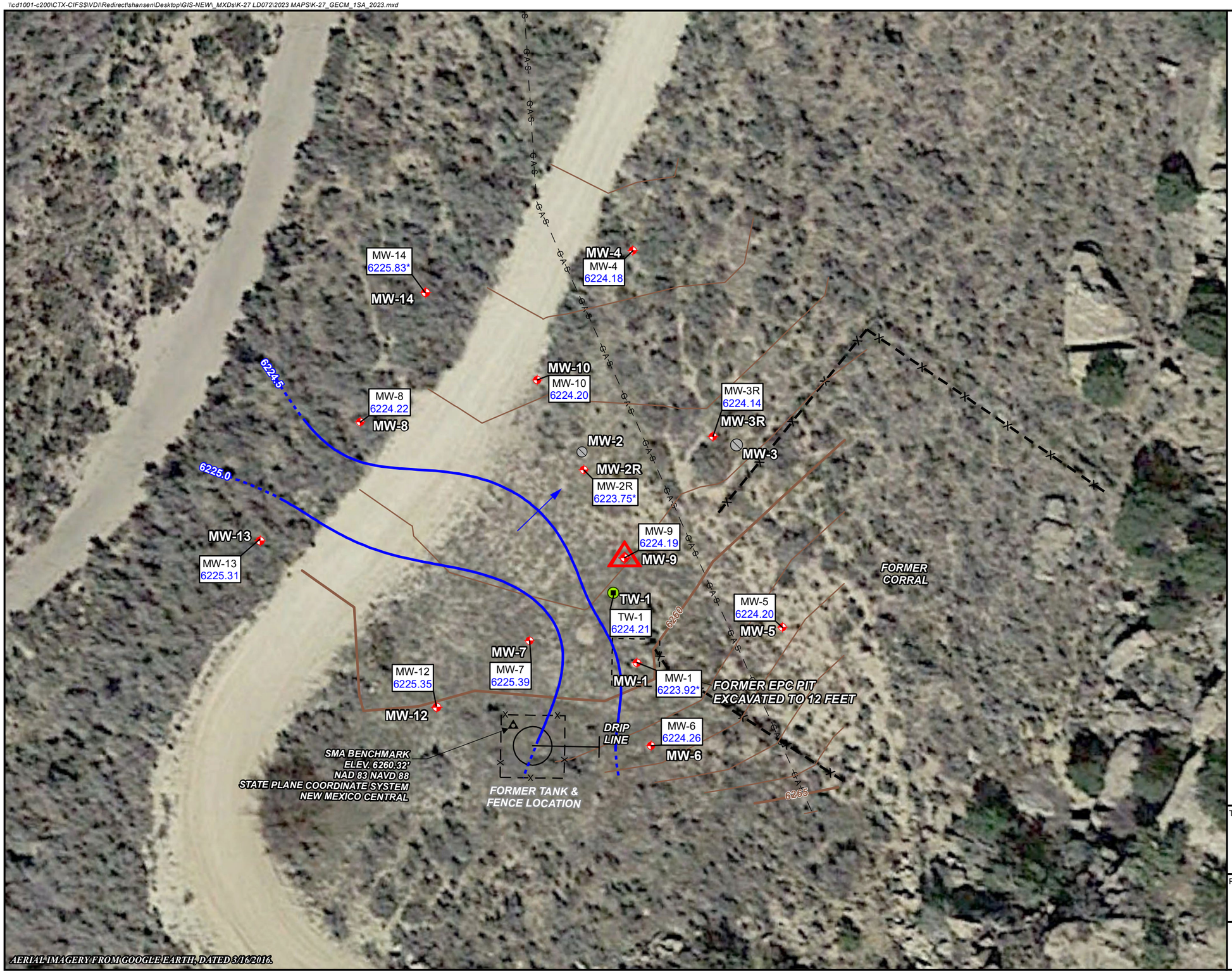
GROUNDWATER ANALYTICAL RESULTS
MAY 20, 2023

PROJECT:
K27 LD072
SAN JUAN RIVER BASIN
RIO ARRIBA COUNTY, NEW MEXICO

Stantec

Figure No.: 3

\\cd1001-c200\CTX-CIFSS\VDI\Redirect\shansen\Desktop\GIS-NEW_MXDs\K-27 LD072\2023 MAPS\K-27_GECM_1SA_2023.mxd



LEGEND:

- 6257 — APPROXIMATE GROUND SURFACE CONTOUR AND ELEVATION, FEET
- FENCE
- G A S — NATURAL GAS LINE
- ABANDONED MONITORING WELL
- MONITORING WELL
- MONITORING WELL WITH MEASURABLE LNAPL
- TEST WELL
- SMA BENCHMARK

NOTES:

- 6225.35 — GROUNDWATER ELEVATION (CORRECTED FOR LNAPL THICKNESS WHEN PRESENT) FEET ABOVE MEAN SEA LEVEL
- 6225.5 — CORRECTED WATER LEVEL ELEVATION CONTOUR DASHED WHERE INFERRED (FEET ABOVE MEAN SEA LEVEL)
- DIRECTION OF APPARENT GROUNDWATER FLOW
- * GROUNDWATER ELEVATION APPEARS ANOMALOUS AND WAS NOT USED TO PREPARE CONTOURING GROUNDWATER ELEVATION.

LNAPL = LIGHT NON-AQUEOUS PHASE LIQUID

N

SCALE IN FEET

0 30 60

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
A	2024-02-05	SAH	SAH	SRV

TITLE:

GROUNDWATER ELEVATION MAP
MAY 20, 2023

PROJECT:

K27 LD072
SAN JUAN RIVER BASIN
RIO ARRIBA COUNTY, NEW MEXICO

Stantec

Figure No.: 4

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LEGEND:

- 6257 — APPROXIMATE GROUND SURFACE CONTOUR AND ELEVATION, FEET
- FENCE
- GAS — NATURAL GAS LINE
- ABANDONED MONITORING WELL
- MONITORING WELL
- MONITORING WELL WITH MEASURABLE LNAPL
- TEST WELL
- SMA BENCHMARK

NOTES:

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

EXPLANATION OF ANALYTES AND APPLICABLE STANDARDS:

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

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

N

SCALE IN FEET
0 30 60

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	2024-02-05	SAH	SAH	SRV

TITLE:

GROUNDWATER ANALYTICAL RESULTS
NOVEMBER 12, 2023

PROJECT:
K27 LD072
SAN JUAN RIVER BASIN
RIO ARRIBA COUNTY, NEW MEXICO

Stantec

Figure No.: 5

\\cd1001-c200\CTX-CIFSS\VDI\Redirect\shansen\Desktop\GIS-NEW_MXDs\K-27 LD072\2023 MAPS\K-27_GECM_2SA_2023.mxd

MW-14
6224.72*
MW-14

MW-4
MW-4
6223.06

MW-10
MW-10
6223.08

MW-8
6223.09
MW-8

6223.5

MW-3R
6223.04
MW-3R

MW-2
MW-2R
MW-2R
6224.75*

MW-3

6224.0

MW-13
MW-13
6224.21

MW-9
6222.08*
MW-9

FORMER
CORRAL

TW-1
TW-1
6223.09

6240

MW-5
6223.10
MW-5

MW-7
MW-7
6224.29

MW-12
6224.25
MW-12

MW-1
MW-1
6225.92*

FORMER EPC PIT
EXCAVATED TO 12 FEET

DRIP
LINE

MW-6
6223.16
MW-6

6265

SMA BENCHMARK
ELEV. 6260.32'
NAD 83 NAVD 88
STATE PLANE COORDINATE SYSTEM
NEW MEXICO CENTRAL

FORMER TANK &
FENCE LOCATION

AERIAL IMAGERY FROM GOOGLE EARTH, DATED 3/16/2016.

LEGEND:

- 6257 — APPROXIMATE GROUND SURFACE CONTOUR AND ELEVATION, FEET
- FENCE
- G A S — NATURAL GAS LINE
- ABANDONED MONITORING WELL
- MONITORING WELL
- MONITORING WELL WITH MEASURABLE LNAPL
- TEST WELL
- SMA BENCHMARK

NOTES:

- 6222.29 — GROUNDWATER ELEVATION (CORRECTED FOR LNAPL THICKNESS WHEN PRESENT) FEET ABOVE MEAN SEA LEVEL
- 6223.5 — CORRECTED WATER LEVEL ELEVATION CONTOUR DASHED WHERE INFERRED (FEET ABOVE MEAN SEA LEVEL)
- DIRECTION OF APPARENT GROUNDWATER FLOW
- * GROUNDWATER ELEVATION APPEARS ANOMALOUS AND WAS NOT USED TO PREPARE CONTOURING GROUNDWATER ELEVATION.

LNAPL = LIGHT NON-AQUEOUS PHASE LIQUID

N

SCALE IN FEET
0 30 60

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
A	2024-02-05	SAH	SAH	SRV

TITLE:

GROUNDWATER ELEVATION MAP
NOVEMBER 12, 2023

PROJECT:

K27 LD072
SAN JUAN RIVER BASIN
RIO ARRIBA COUNTY, NEW MEXICO

Stantec

Figure No.: 6

APPENDICES

APPENDIX A

Site History

K-27
Site History
San Juan River Basin, New Mexico

Date	*Source (Regulatory File #)*	*Event/Action*	*Description/Comments*
9/16/1995	Unknown	EPFS Remediation Plan for Groundwater Encountered During Pit Closure Activities to NMOCD	Outlines approach to investigating and remediating soil and groundwater at closed pit sites.
11/29/1995	Unknown	EPFS Addendum to the Remediation Plan for Groundwater Encountered During Pit Closure Activities to NMOCD	Amends work plan for include installation of additional wells for delienation, define groundwater sampling parameters, and release closure following four consecutive quarters of results below NMWQCC standards.
11/30/1995	Unknown	NMOCD approval of the Remediation Plan with conditions	Approval of Remediation Plan and Addendum.
6/2/1997	nAUTOfAB000316 (Case # 3RP-204)	EPFS letter to NMOCD	Groundwater had been encountered at various sites while investigating and or remediating exempt hydrocarbon unlined pits. Depth to water was stated as being 40' at the K27 Line Drip site. EPFS requested that future reports for this project be submitted on a yearly basis.
8/6/1997	nAUTOfAB000316 (Case # 3RP-204)	NMOCD approval letter for the 6/2/1997 Semiannual Groundwater Report (EPFS)	Includes EPFS's listing of San Juan Basin pit closure sites at which EPFS has encountered ground water and a proposal to modify the reporting schedule to annual.
2/27/1998	nAUTOfAB000316 (Case # 3RP-204)	Phillip Services' 1997 Annual Report (for EPFS)	Quarterly groundwater monitoring was initiated on 11/4/96 and continued into 1997. Report recommended obtaining permission to conduct an off-site investigation. Historical (1995-1996) well and soil boring logs and sample results also provided.
7/8/1998	nAUTOfAB000316 (Case # 3RP-204)	NMOCD 1997 Annual Report review letter	Requires EPFS install additional groundwater monitoring wells at the site to monitor and determine the extent of groundwater contamination pursuant to their previously approved groundwater investigation plan.
3/31/1999	nAUTOfAB000316 (Case # 3RP-204)	Phillip Services' 1998 Annual Report (for EPFS)	LNAPL monitoring and recovery from MW-1. Quarterly sampling was discontinued due to the presence of LNAPL.

K-27
Site History
San Juan River Basin, New Mexico

7/28/1999	nAUTOfAB000316 (Case # 3RP-204)	NMOCD 1998 Annual Report review letter	Requires that EPFS install additional groundwater monitoring wells at the site by December 31, 1999.
3/24/2000	nAUTOfAB000316 (Case # 3RP-204)	Phillip Services' 1999 Annual Report (for EPFS)	LNAPL monitoring results and attempted installation of MW-2.
3/31/2001	nAUTOfAB000316 (Case # 3RP-204)	Phillip Services' 2000 Annual Report (for EPFS)	Monitoring wells MW-2 and MW-3 installed and quarterly LNAPL monitoring and groundwater sampling conducted.
7/18/2001	nAUTOfAB000316 (Case # 3RP-204)	NMOCD 2000 Annual Report review letter	Requires install of additional groundwater monitoring wells.
2/28/2002	nAUTOfAB000316 (Case # 3RP-204)	MWH 2001 Annual Report (for EPFS)	Quarterly LNAPL recovery and groundwater sampling results
2/28/2003	nAUTOfAB000316 (Case # 3RP-204)	MWH 2002 Annual Report (for EPFS)	Quarterly LNAPL recovery activities. LNAPL present in MW-3 in July 2002. `
4/3/2003	nAUTOfAB000316 (Case # 3RP-204)	NMOCD 2002 Annual Report review letter	Requires installation of additional ground water monitoring wells to delineate the extent of ground water.
2/26/2004	nAUTOfAB000316 (Case # 3RP-204)	MWH 2003 Annual Report (for EPFS)	Quarterly LNAPL monitoring and recovery activities.
2/21/2005	nAUTOfAB000316 (Case # 3RP-204)	MWH 2004 Annual Report (for EPFS)	Quarterly LNAPL recovery and monitoring activities.
2006	nAUTOfAB000316 (Case # 3RP-204)	MWH 2005 Annual Report (for EPFS)	Quarterly LNAPL recovery (using oil absorbant socks) and monitoring. Access grants and permits being obtained for Geoprobe investigation in 2006.
3/2007	nAUTOfAB000316 (Case # 3RP-204)	MWH 2006 Annual Report (for EPTPC)	Quarterly LNAPL recovery activities and annual groundwater sampling results, and results of Geoprobe soil and groundwater sampling. Temporary well TMW-5 installed.
4/2/2008	nAUTOfAB000316 (Case # 3RP-204)	MWH 2007 Annual Report (for EPTPC)	Quarterly LNAPL recovery and annual groundwater sampling activities.
2/28/2009	nAUTOfAB000316 (Case # 3RP-204)	MWH 2008 Annual Report (for EPTPC)	Quarterly LNAPL recovery and annual groundwater sampling activities.
4/16/2010	nAUTOfAB000316 (Case # 3RP-204)	MWH 2009 Annual Report (for EPTPC)	Quarterly LNAPL recovery and annual groundwater sampling activities.
3/2/2011	nAUTOfAB000316 (Case # 3RP-204)	MWH 2010 Annual Report (for EPTPC)	Quarterly LNAPL recovery and annual groundwater sampling activities.

K-27
Site History
San Juan River Basin, New Mexico

8/16/2012	nAUTOfAB000316 (Case # 3RP-204)	MWH 2011 Annual Report (for EPCGPC)	Quarterly LNAPL recovery and annual groundwater sampling activities. The potential for passive bioventing or ORC/electron acceptor remediation technology to be evaluated.
3/4/2014	nAUTOfAB000316 (Case # 3RP-204)	MWH 2013 Annual Report (for EPCGPC)	Annual groundwater sampling conducted. Access agreements for additonal monitoring well installation activities being pursued.
2/2/2015	nAUTOfAB000316 (Case # 3RP-204)	MWH 2014 Annual Report (for EPCGP)	Annual groundwater sampling conducted, and status update of BLM right-of-way agreements provided.
2/16/2016	nAUTOfAB000316 (Case # 3RP-204)	MWH 2015 Annual Report (for EPCGP)	Annual groundwater sampling conducted.
9/7/2016	Missing from NMOCD files	MWH 2016 Monitoring Well Installation Work Plan	Work Plan for replacing 2 monitoring wells, installing 4 additional monitoring wells, and advancing 1 soil boring.
3/20/2017	nAUTOfAB000316 (Case # 3RP-204)	MWH 2016 Annual Report (for EPCGP)	Six monitoring wells (MW-2R, MW-3R, MW-5, MW-6, MW-7, and MW-8) were completed and one soil boring (SB-1) advanced. MW-2 and MW-3 plugged and abandoned. Semi-annual groundwater sampling conducted. LNAPL encountered in MW-2R.
6/2/2017	nAUTOfAB000316 (Case # 3RP-204)	Letter from NMOCD to El Paso	Submit remediation plans by 7/31/2017 to a) fully delineate both the NAPL and benzene plumes and b) to recover NAPL effectively by use of more active remediation techniques.
6/29/2017	nAUTOfAB000316 (Case # 3RP-204)	Work Plan for LNAPL Recovery Activities (for EPCGPC)	MDPE activities proposed.
7/5/2017	nAUTOfAB000316 (Case # 3RP-204)	NMOCD letter to El Paso Re: June 2017 Work Plan	NMOCD approved 1 day of MDPE at MW-2R.
7/19/2017	nAUTOfAB000316 (Case # 3RP-204)	Response letter from EPCGPC to NMOCD	Letter stated EPCGP is awaiting the results of the 2017 groundwater monitoring activities and effectiveness of the planned MDPE activities prior to submitting a scope of work of additional delineation activities. Delineation north of MW-2R is planned for 2018.
10/5/2017	nAUTOfAB000316 (Case # 3RP-204)	Monitoring Well Installation Work Plan (for EPCGPC)	Work Plan to install two additional monitoring wells (MW-9 and MW-10).

K-27
Site History
San Juan River Basin, New Mexico

11/15/2017	nAUTOfAB000316 (Case # 3RP-204)	NMOCD Approval of Monitoring Well Installation Work Plan	MW-9 and MW-10
3/28/2018	nAUTOfAB000316 (Case # 3RP-204)	MWH 2017 Annual Report (for EPCGP)	Summary 1 day MDPE event, installation of MW-9 and MW-10, semi-annual groundwater sampling.
3/29/2019	Missing from NMOCD files	Stantec 2018 Annual Report (for EPCGP)	Installation and testing of well TW-1, semi-annual groundwater sampling, and LNAPL recovery.
3/16/2020	Missing from NMOCD Files	Stantec 2019 Annual Groundwater Report (for EPCGP)	Semi-annual sampling and LNAPL recovery.
4/8/2021	nAUTOfAB000316 (Case # 3RP-204)	Stantec 2020 Annual Groundwater Report (for EPCGP)	Semi-annual groundwater sampling and quarterly LNAPL recovery. Approved 1/4/2022.
3/30/2022	nAUTOfAB000316 (Case # 3RP-204)	Stantec 2021 Annual Groundwater Report (for EPCGP)	Semi-annual groundwater sampling and quarterly LNAPL recovery. Approved 5/22/2023.
9/28/2022	nAUTOfAB000316 (Case # 3RP-204)	Stantec Monitoring Well Installation Activities Work Plan (for EPCGP)	The Work Plan proposed the installation of four monitoring wells (MW-11 through MW-14) at the site. Accepted 5/22/2023.
3/29/2023	nAUTOfAB000316 (Case # 3RP-204)	Stantec 2022 Annual Groundwater Report (for EPCGP)	MW-11 through MW-14 installation, semi-annual groundwater sampling and quarterly LNAPL recovery

APPENDIX B

NMOCD Notification of Site Activities

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

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

Hi Nelson -

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

Site Name	Incident Number	Sample Date
Canada Mesa #2	nAUTOfAB000065	3/28/2023
Fields A#7A	nAUTOfAB000176	3/29/2023
Fogelson 4-1	nAUTOfAB000192	3/29/2023
Gallegos Canyon Unit #124E	nAUTOfAB000205	3/28/2023
James F. Bell #1E	nAUTOfAB000291	3/29/2023
Johnston Fed #4	nAUTOfAB000305	3/30/2023
K27 LDO72	nAUTOfAB000316	3/28/2023
Lateral L-40	nAUTOfAB000335	3/29/2023
State Gas Com N #1	nAUTOfAB000668	3/29/2023

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

Thank you,
Steve

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

From: Varsa, Steve
To: nelson.valez@state.nm.us
Cc: Bratcher, Mike, EMNRD; Wiley, Joe
Subject: El Paso CGP Company - Notice of upcoming groundwater sampling activities
Date: Friday, May 12, 2023 9:54:16 PM

Hi Nelson -

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

Site Name	Incident Number	Sample Date
Canada Mesa #2	nAUTOfAB000065	5/20/2023
Fields A#7A	nAUTOfAB000176	5/21/2023
Fogelson 4-1	nAUTOfAB000192	5/18/2023
Gallegos Canyon Unit #124E	nAUTOfAB000205	5/17/2023
GCU Com A #142E	nAUTOfAB000219	5/21/2023
James F. Bell #1E	nAUTOfAB000291	5/18/2023
Johnston Fed #4	nAUTOfAB000305	5/19/2023
Johnston Fed #6A	nAUTOfAB000309	5/19/2023
K27 LDO72	nAUTOfAB000316	5/20/2023
Knight #1	nAUTOfAB000324	5/17/2023
Lateral L 40 Line Drip	nAUTOfAB000335	5/21/2023
Sandoval GC A #1A	nAUTOfAB000635	5/19/2023
Standard Oil Com #1	nAUTOfAB000666	5/20/2023
State Gas Com N #1	nAUTOfAB000668	5/22/2023

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

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

Thank you,
Steve

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

From: Varsa, Steve
To: nelson.valez@state.nm.us
Cc: Bratcher, Mike, EMNRD; Wiley, Joe
Bcc: Varsa, Steve
Subject: El Paso CGP Company - Notice of upcoming product recovery activities
Date: Wednesday, August 16, 2023 1:56:00 PM

Hi Nelson -

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

Site Name	Incident Number	Sample Date
Canada Mesa #2	nAUTOfAB000065	8/27/2023
Fields A#7A	nAUTOfAB000176	8/30/2023
Fogelson 4-1	nAUTOfAB000192	8/31/2023
Gallegos Canyon Unit #124E	nAUTOfAB000205	8/31/2023
James F. Bell #1E	nAUTOfAB000291	8/25/2023
Johnston Fed #4	nAUTOfAB000305	8/30/2023
K27 LDO72	nAUTOfAB000316	8/31/2023
State Gas Com N #1	nAUTOfAB000668	8/29/2023

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

Thank you,
Steve

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

From: Varsa, Steve
To: nelson.valez@state.nm.us
Cc: Bratcher, Mike, EMNRD; Wiley, Joe
Subject: El Paso CGP Company - Notice of upcoming groundwater sampling activities
Date: Thursday, November 2, 2023 6:17:33 AM

Hi Nelson -

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

Site Name	Incident Number	Sample Date
Canada Mesa #2	nAUTOfAB000065	11/12/2023
Fields A#7A	nAUTOfAB000176	11/15/2023
Fogelson 4-1	nAUTOfAB000192	11/8/2023
Gallegos Canyon Unit #124E	nAUTOfAB000205	11/9/2023
GCU Com A #142E	nAUTOfAB000219	11/9/2023
James F. Bell #1E	nAUTOfAB000291	11/15/2023
Johnston Fed #4	nAUTOfAB000305	11/11/2023
Johnston Fed #6A	nAUTOfAB000309	11/11/2023
K27 LDO72	nAUTOfAB000316	11/12/2023
Knight #1	nAUTOfAB000324	11/7/2023
Lateral L 40 Line Drip	nAUTOfAB000335	11/16/2023
Sandoval GC A #1A	nAUTOfAB000635	11/11/2023
Standard Oil Com #1	nAUTOfAB000666	11/12/2023
State Gas Com N #1	nAUTOfAB000668	11/10/2023

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

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

Thank you,
Steve

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

APPENDIX C

Waste Disposal Documentation

envirotech

Bill of Lading

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

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

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	DESTINATION	MATERIAL	GRID	YDS	BBLS	DRUMS	TKT#	TRK#	TIME	DRIVER SIGNATURE
1	BF	Contaminated Water				1		992/705	1550	Austin Faint
						1				
									SCANNED	

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

LANDFARM EMPLOYEE

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

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

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

Generator Onsite Contact Sean Cleary Phone (515) 557-0109

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

SAN JUAN PRINTING 2021 407-3

envirotech

BOL# 79427

CHLORIDE TESTING / PAINT FILTER TESTING

DATE 5/22/2023 TIME 1550

Attach test strip here

CUSTOMER Kinder Morgan

SITE Rio Vista Comp Station SJ River Plant Blanco N Flare Aluminosis Pits sites

DRIVER [redacted]

SAMPLE Soil Straight _____ With Dirt ✓

CHLORIDE TEST -281 mg/Kg

ACCEPTED YES ✓ NO _____

PAINT FILTER TEST Time started 1550 Time completed 1600

PASS YES ✓ NO _____

SAMPLER/ANALYST [redacted]

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 # 81123 8 pit sites
GENERATOR Kinder Morgan
POINT OF ORIGIN Rio Vista Comp
TRANSPORTER Envirotech
DATE 09/01/23 JOB # 14073-0073

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

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	DESTINATION	MATERIAL	GRID	YDS	BBLS	DRUMS	TKT#	TRK#	TIME	DRIVER SIGNATURE
1	BF	Tank Bottoms Cont Liquid			1		—	958	1025	
					1					

RESULTS		
-272	CHLORIDE TEST	1
	CHLORIDE TEST	
	CHLORIDE TEST	
Pass	PAINT FILTER TEST	1

LANDFARM EMPLOYEE Cory Robinson

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

NOTES

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

Generator Onsite Contact _____ Phone _____

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

SAN JUAN PRINTING 2021 407-3

0073

envirotech

BOL# 31123

CHLORIDE TESTING / PAINT FILTER TESTING

DATE 09/01/23 TIME 1025

Attach test strip here

CUSTOMER ~~Rio Vista Co~~ Kindermorgan

SITE Rio Vista comp

DRIVER [signature]

SAMPLE Soil Straight ______ With Dirt X

CHLORIDE TEST 272 mg/Kg

ACCEPTED YES X NO ______

PAINT FILTER TEST Time started 1025 Time completed 1035

PASS YES X NO ______

SAMPLER/ANALYST Gary Robinson

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

envirotech

Bill of Lading

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

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

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	DESTINATION	MATERIAL	GRID	YDS	BBLS	DRUMS	TKT#	TRK#	TIME	DRIVER SIGNATURE
1	B:F	Tank bottoms			1	—	—	725	1430	
					1					

RESULTS			LANDFARM EMPLOYEE	NOTES
-272	CHLORIDE TEST	1		
	CHLORIDE TEST		☐ Soil w/ Debris ☐ After Hours/Weekend Receival ☐ Scrape Out ☐ Wash Out	
	CHLORIDE TEST		**By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load. Landfarm employee signature is certification of the above material being received and placed accordingly.**	
Pass	PAINT FILTER TEST	1		

Generator Onsite Contact _____ Phone _____

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

SAN JUAN PRINTING 2021 407-3

envirotech

BOL# 82577

CHLORIDE TESTING / PAINT FILTER TESTING

DATE 11/16/23 TIME 1430

CUSTOMER ELPaso

SITE See Bol 82577

DRIVER Stoven by Gomez

SAMPLE Soil Straight _____ With Dirt X

CHLORIDE TEST 272 mg/Kg

ACCEPTED YES X NO _____

PAINT FILTER TEST Time started 1430 Time completed 1441

PASS YES X NO _____

SAMPLER/ANALYST _____

Attach test strip here

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

APPENDIX D

Groundwater Analytical Lab Reports

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 6/13/2023 5:57:33 PM

JOB DESCRIPTION

K27 LD072.00
SDG NUMBER K-27

JOB NUMBER

400-238139-1

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
6/13/2023 5:57:33 PM

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

Table of Contents

Case Narrative

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072.00

Job ID: 400-238139-1
SDG: K-27

Job ID: 400-238139-1

Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-238139-1

Comments
No additional comments.

Receipt
The samples were received on 5/23/2023 9:10 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.1º C.

Receipt Exceptions
COC indicates preserved sample, sample unpreserved.
MW-6 (400-238139-5)

(2 samples labeled with ID MW-7) Sample ID on the COC MW-8, Sample ID on label is MW-7 matched by sample time and process of elimination.
MW-8 (400-238139-7)

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

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

Detection Summary

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072.00

Job ID: 400-238139-1
SDG: K-27

Client Sample ID: TRIP BLANK — Lab Sample ID: 400-238139-1

No Detections.

Client Sample ID: DUP-01 — Lab Sample ID: 400-238139-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	7.8		1.0		ug/L	1		8260D	Total/NA
Toluene	2.9		1.0		ug/L	1		8260D	Total/NA

Client Sample ID: MW-1 — Lab Sample ID: 400-238139-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	9.3		1.0		ug/L	1		8260D	Total/NA
Toluene	3.5		1.0		ug/L	1		8260D	Total/NA

Client Sample ID: MW-3R — Lab Sample ID: 400-238139-4

No Detections.

Client Sample ID: MW-6 — Lab Sample ID: 400-238139-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	3.7		1.0		ug/L	1		8260D	Total/NA
Xylenes, Total	34		10		ug/L	1		8260D	Total/NA

Client Sample ID: MW-7 — Lab Sample ID: 400-238139-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.7		1.0		ug/L	1		8260D	Total/NA

Client Sample ID: MW-8 — Lab Sample ID: 400-238139-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	3.3		1.0		ug/L	1		8260D	Total/NA
Ethylbenzene	7.0		1.0		ug/L	1		8260D	Total/NA
Xylenes, Total	20		10		ug/L	1		8260D	Total/NA

Client Sample ID: MW-10 — Lab Sample ID: 400-238139-8

No Detections.

Client Sample ID: MW-12 — Lab Sample ID: 400-238139-9

No Detections.

Client Sample ID: MW-14 — Lab Sample ID: 400-238139-10

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Pensacola

Method Summary

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072.00

Job ID: 400-238139-1
SDG: K-27

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

Protocol References:

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

Laboratory References:

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

Sample Summary

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072.00

Job ID: 400-238139-1
SDG: K-27

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-238139-1	TRIP BLANK	Water	05/20/23 10:30	05/23/23 09:10
400-238139-2	DUP-01	Water	05/20/23 10:35	05/23/23 09:10
400-238139-3	MW-1	Water	05/20/23 11:35	05/23/23 09:10
400-238139-4	MW-3R	Water	05/20/23 11:45	05/23/23 09:10
400-238139-5	MW-6	Water	05/20/23 11:40	05/23/23 09:10
400-238139-6	MW-7	Water	05/20/23 11:50	05/23/23 09:10
400-238139-7	MW-8	Water	05/20/23 12:00	05/23/23 09:10
400-238139-8	MW-10	Water	05/20/23 11:30	05/23/23 09:10
400-238139-9	MW-12	Water	05/20/23 11:20	05/23/23 09:10
400-238139-10	MW-14	Water	05/20/23 11:15	05/23/23 09:10

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072.00

Job ID: 400-238139-1
SDG: K-27

Client Sample ID: TRIP BLANK

Date Collected: 05/20/23 10:30
Date Received: 05/23/23 09:10

Lab Sample ID: 400-238139-1

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			06/02/23 19:11	1
Toluene	<1.0		1.0		ug/L			06/02/23 19:11	1
Ethylbenzene	<1.0		1.0		ug/L			06/02/23 19:11	1
Xylenes, Total	<10		10		ug/L			06/02/23 19:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*64 - 132*		*06/02/23 19:11*	*1*
Dibromofluoromethane	*113*		*75 - 126*		*06/02/23 19:11*	*1*
4-Bromofluorobenzene	*92*		*72 - 130*		*06/02/23 19:11*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072.00

Job ID: 400-238139-1
SDG: K-27

Client Sample ID: DUP-01

Date Collected: 05/20/23 10:35
Date Received: 05/23/23 09:10

Lab Sample ID: 400-238139-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**7.8**		1.0		ug/L			06/02/23 19:34	1
Toluene	**2.9**		1.0		ug/L			06/02/23 19:34	1
Ethylbenzene	<1.0		1.0		ug/L			06/02/23 19:34	1
Xylenes, Total	<10		10		ug/L			06/02/23 19:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*64 - 132*		*06/02/23 19:34*	*1*
Dibromofluoromethane	*110*		*75 - 126*		*06/02/23 19:34*	*1*
4-Bromofluorobenzene	*95*		*72 - 130*		*06/02/23 19:34*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072.00

Job ID: 400-238139-1
SDG: K-27

Client Sample ID: MW-1

Date Collected: 05/20/23 11:35
Date Received: 05/23/23 09:10

Lab Sample ID: 400-238139-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**9.3**		1.0		ug/L			06/02/23 19:57	1
Toluene	**3.5**		1.0		ug/L			06/02/23 19:57	1
Ethylbenzene	<1.0		1.0		ug/L			06/02/23 19:57	1
Xylenes, Total	<10		10		ug/L			06/02/23 19:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*92*		*64 - 132*		*06/02/23 19:57*	*1*
Dibromofluoromethane	*110*		*75 - 126*		*06/02/23 19:57*	*1*
4-Bromofluorobenzene	*94*		*72 - 130*		*06/02/23 19:57*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072.00

Job ID: 400-238139-1
SDG: K-27

Client Sample ID: MW-3R
Date Collected: 05/20/23 11:45
Date Received: 05/23/23 09:10

Lab Sample ID: 400-238139-4
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			05/26/23 15:36	1
Toluene	<1.0		1.0		ug/L			05/26/23 15:36	1
Ethylbenzene	<1.0		1.0		ug/L			05/26/23 15:36	1
Xylenes, Total	<10		10		ug/L			05/26/23 15:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*64 - 132*		*05/26/23 15:36*	*1*
Dibromofluoromethane	*114*		*75 - 126*		*05/26/23 15:36*	*1*
4-Bromofluorobenzene	*96*		*72 - 130*		*05/26/23 15:36*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072.00

Job ID: 400-238139-1
SDG: K-27

Client Sample ID: MW-6

Date Collected: 05/20/23 11:40
Date Received: 05/23/23 09:10

Lab Sample ID: 400-238139-5

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			05/26/23 16:03	1
Toluene	<1.0		1.0		ug/L			05/26/23 16:03	1
Ethylbenzene	**3.7**		1.0		ug/L			05/26/23 16:03	1
Xylenes, Total	**34**		10		ug/L			05/26/23 16:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*111*		*64 - 132*		*05/26/23 16:03*	*1*
Dibromofluoromethane	*103*		*75 - 126*		*05/26/23 16:03*	*1*
4-Bromofluorobenzene	*84*		*72 - 130*		*05/26/23 16:03*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072.00

Job ID: 400-238139-1
SDG: K-27

Client Sample ID: MW-7

Date Collected: 05/20/23 11:50
Date Received: 05/23/23 09:10

Lab Sample ID: 400-238139-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.7**		1.0		ug/L			05/26/23 16:29	1
Toluene	<1.0		1.0		ug/L			05/26/23 16:29	1
Ethylbenzene	<1.0		1.0		ug/L			05/26/23 16:29	1
Xylenes, Total	<10		10		ug/L			05/26/23 16:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*64 - 132*		*05/26/23 16:29*	*1*
Dibromofluoromethane	*106*		*75 - 126*		*05/26/23 16:29*	*1*
4-Bromofluorobenzene	*96*		*72 - 130*		*05/26/23 16:29*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072.00

Job ID: 400-238139-1
SDG: K-27

Client Sample ID: MW-8
Date Collected: 05/20/23 12:00
Date Received: 05/23/23 09:10

Lab Sample ID: 400-238139-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**3.3**		1.0		ug/L			06/02/23 20:20	1
Toluene	<1.0		1.0		ug/L			06/02/23 20:20	1
Ethylbenzene	**7.0**		1.0		ug/L			06/02/23 20:20	1
Xylenes, Total	**20**		10		ug/L			06/02/23 20:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*64 - 132*		*06/02/23 20:20*	*1*
Dibromofluoromethane	*110*		*75 - 126*		*06/02/23 20:20*	*1*
4-Bromofluorobenzene	*96*		*72 - 130*		*06/02/23 20:20*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072.00

Job ID: 400-238139-1
SDG: K-27

Client Sample ID: MW-10

Date Collected: 05/20/23 11:30
Date Received: 05/23/23 09:10

Lab Sample ID: 400-238139-8

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			06/02/23 20:42	1
Toluene	<1.0		1.0		ug/L			06/02/23 20:42	1
Ethylbenzene	<1.0		1.0		ug/L			06/02/23 20:42	1
Xylenes, Total	<10		10		ug/L			06/02/23 20:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*92*		*64 - 132*		*06/02/23 20:42*	*1*
Dibromofluoromethane	*112*		*75 - 126*		*06/02/23 20:42*	*1*
4-Bromofluorobenzene	*94*		*72 - 130*		*06/02/23 20:42*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072.00

Job ID: 400-238139-1
SDG: K-27

Client Sample ID: MW-12

Date Collected: 05/20/23 11:20
Date Received: 05/23/23 09:10

Lab Sample ID: 400-238139-9

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			06/02/23 21:05	1
Toluene	<1.0		1.0		ug/L			06/02/23 21:05	1
Ethylbenzene	<1.0		1.0		ug/L			06/02/23 21:05	1
Xylenes, Total	<10		10		ug/L			06/02/23 21:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*92*		*64 - 132*		*06/02/23 21:05*	*1*
Dibromofluoromethane	*113*		*75 - 126*		*06/02/23 21:05*	*1*
4-Bromofluorobenzene	*92*		*72 - 130*		*06/02/23 21:05*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072.00

Job ID: 400-238139-1
SDG: K-27

Client Sample ID: MW-14

Date Collected: 05/20/23 11:15
Date Received: 05/23/23 09:10

Lab Sample ID: 400-238139-10

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			06/02/23 21:28	1
Toluene	<1.0		1.0		ug/L			06/02/23 21:28	1
Ethylbenzene	<1.0		1.0		ug/L			06/02/23 21:28	1
Xylenes, Total	<10		10		ug/L			06/02/23 21:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*64 - 132*		*06/02/23 21:28*	*1*
Dibromofluoromethane	*113*		*75 - 126*		*06/02/23 21:28*	*1*
4-Bromofluorobenzene	*92*		*72 - 130*		*06/02/23 21:28*	*1*

Definitions/Glossary

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072.00

Job ID: 400-238139-1
SDG: K-27

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: K27 LD072.00

Job ID: 400-238139-1
SDG: K-27

Client Sample ID: TRIP BLANK
Date Collected: 05/20/23 10:30
Date Received: 05/23/23 09:10

Lab Sample ID: 400-238139-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	627521	06/02/23 19:11	WPD	EET PEN

Client Sample ID: DUP-01
Date Collected: 05/20/23 10:35
Date Received: 05/23/23 09:10

Lab Sample ID: 400-238139-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	627521	06/02/23 19:34	WPD	EET PEN

Client Sample ID: MW-1
Date Collected: 05/20/23 11:35
Date Received: 05/23/23 09:10

Lab Sample ID: 400-238139-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	627521	06/02/23 19:57	WPD	EET PEN

Client Sample ID: MW-3R
Date Collected: 05/20/23 11:45
Date Received: 05/23/23 09:10

Lab Sample ID: 400-238139-4
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	626672	05/26/23 15:36	CAR	EET PEN

Client Sample ID: MW-6
Date Collected: 05/20/23 11:40
Date Received: 05/23/23 09:10

Lab Sample ID: 400-238139-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	626672	05/26/23 16:03	CAR	EET PEN

Client Sample ID: MW-7
Date Collected: 05/20/23 11:50
Date Received: 05/23/23 09:10

Lab Sample ID: 400-238139-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	626672	05/26/23 16:29	CAR	EET PEN

Client Sample ID: MW-8
Date Collected: 05/20/23 12:00
Date Received: 05/23/23 09:10

Lab Sample ID: 400-238139-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	627521	06/02/23 20:20	WPD	EET PEN

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072.00

Job ID: 400-238139-1
SDG: K-27

Client Sample ID: MW-10
Date Collected: 05/20/23 11:30
Date Received: 05/23/23 09:10

Lab Sample ID: 400-238139-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	627521	06/02/23 20:42	WPD	EET PEN

Client Sample ID: MW-12
Date Collected: 05/20/23 11:20
Date Received: 05/23/23 09:10

Lab Sample ID: 400-238139-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	627521	06/02/23 21:05	WPD	EET PEN

Client Sample ID: MW-14
Date Collected: 05/20/23 11:15
Date Received: 05/23/23 09:10

Lab Sample ID: 400-238139-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	627521	06/02/23 21:28	WPD	EET PEN

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

Lab Sample ID: MB 400-626672/4
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	626672	05/26/23 12:50	CAR	EET PEN

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

Lab Sample ID: MB 400-627521/4
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	627521	06/02/23 15:01	WPD	EET PEN

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

Lab Sample ID: LCS 400-626672/1002
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	626672	05/26/23 10:44	CAR	EET PEN

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

Lab Sample ID: LCS 400-627521/1002
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	627521	06/02/23 13:57	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: K27 LD072.00

Job ID: 400-238139-1
SDG: K-27

GC/MS VOA

Analysis Batch: 626672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-238139-4	MW-3R	Total/NA	Water	8260D	
400-238139-5	MW-6	Total/NA	Water	8260D	
400-238139-6	MW-7	Total/NA	Water	8260D	
MB 400-626672/4	Method Blank	Total/NA	Water	8260D	
LCS 400-626672/1002	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 627521

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-238139-1	TRIP BLANK	Total/NA	Water	8260D	
400-238139-2	DUP-01	Total/NA	Water	8260D	
400-238139-3	MW-1	Total/NA	Water	8260D	
400-238139-7	MW-8	Total/NA	Water	8260D	
400-238139-8	MW-10	Total/NA	Water	8260D	
400-238139-9	MW-12	Total/NA	Water	8260D	
400-238139-10	MW-14	Total/NA	Water	8260D	
MB 400-627521/4	Method Blank	Total/NA	Water	8260D	
LCS 400-627521/1002	Lab Control Sample	Total/NA	Water	8260D	

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072.00

Job ID: 400-238139-1
SDG: K-27

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

Lab Sample ID: MB 400-626672/4
Matrix: Water
Analysis Batch: 626672

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			05/26/23 12:50	1
Toluene	<1.0		1.0		ug/L			05/26/23 12:50	1
Ethylbenzene	<1.0		1.0		ug/L			05/26/23 12:50	1
Xylenes, Total	<10		10		ug/L			05/26/23 12:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*64 - 132*		*05/26/23 12:50*	*1*
Dibromofluoromethane	*112*		*75 - 126*		*05/26/23 12:50*	*1*
4-Bromofluorobenzene	*94*		*72 - 130*		*05/26/23 12:50*	*1*

Lab Sample ID: LCS 400-626672/1002
Matrix: Water
Analysis Batch: 626672

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	50.0	42.2		ug/L		84	70 - 130
Toluene	50.0	42.3		ug/L		85	70 - 130
Ethylbenzene	50.0	46.2		ug/L		92	70 - 130
Xylenes, Total	100	95.0		ug/L		95	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*96*		*64 - 132*
Dibromofluoromethane	*104*		*75 - 126*
4-Bromofluorobenzene	*92*		*72 - 130*

Lab Sample ID: MB 400-627521/4
Matrix: Water
Analysis Batch: 627521

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			06/02/23 15:01	1
Toluene	<1.0		1.0		ug/L			06/02/23 15:01	1
Ethylbenzene	<1.0		1.0		ug/L			06/02/23 15:01	1
Xylenes, Total	<10		10		ug/L			06/02/23 15:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*64 - 132*		*06/02/23 15:01*	*1*
Dibromofluoromethane	*111*		*75 - 126*		*06/02/23 15:01*	*1*
4-Bromofluorobenzene	*91*		*72 - 130*		*06/02/23 15:01*	*1*

Lab Sample ID: LCS 400-627521/1002
Matrix: Water
Analysis Batch: 627521

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	50.0	51.2		ug/L		102	70 - 130
Toluene	50.0	49.1		ug/L		98	70 - 130
Ethylbenzene	50.0	51.7		ug/L		103	70 - 130

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072.00

Job ID: 400-238139-1
SDG: K-27

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

Lab Sample ID: LCS 400-627521/1002
Matrix: Water
Analysis Batch: 627521

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Xylenes, Total			100	103		ug/L		103	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*94*		*64 - 132*
Dibromofluoromethane	*106*		*75 - 126*
4-Bromofluorobenzene	*95*		*72 - 130*

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

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Sarah Gardner/Sean Clary	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-120303-41364.1
Client Contact: Joe Wiley	Phone: 303-291-2239	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: El Paso Energy Corporation	PWSID:			Job #:
Address: 1001 Louisiana Street Room S1905B	Due Date Requested: Standard			
City: Houston	TAT Requested (days): Standard			
State, Zip: TX, 77002	Compliance Project: Δ Yes Δ No			
Phone:	PO #: WD1040029			
Email: joe.wiley@kindermorgan.com	WO #: K27_ERG_ARF_04-26-2023			
Project Name: K27 LD072.00	Project #: 40015823			
Site: K-27	SSOW#:			

Analysis Requested

400-238139 COC

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

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	8260D - BTEX - 8260	8260D - BTEX - 8260	Total Number of containers	Special Instructions/Note:
			Preservation Code:			A	N		
Trip Blank	5/20/23	1080	—	Water	—	2		2	Trip Blank
DUP-01	5/20/23	1035	G	Water	—	2		2	
MW-1	5/20/23	1135	G	Water	—	2		2	
MW-3R	5/20/23	1145	G	Water	—	—	2	2	Unpreserved
MW-6	5/20/23	1140	G	Water	—	2		2	
MW-7	5/20/23	1150	G	Water	—	—	2	2	Unpreserved
MW-8	5/20/23	1200	G	Water	—	2		2	
MW-10	5/20/23	1130	G	Water	—	2		2	
MW-12	5/20/23	1120	G	Water	—	2		2	
MW-14	5/20/23	1115	G	Water	—	2		2	
				Water					

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

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

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

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	5/22/23 1200	Stantec		5/23/23 910	EE15
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 1.1 °C IR8

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc

Job Number: 400-238139-1
SDG Number: K-27

Login Number: 238139
List Number: 1
Creator: Perez, Trina M

List Source: Eurofins Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.1°C IR-8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072.00

Job ID: 400-238139-1
SDG: K-27

Laboratory: Eurofins Pensacola

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

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-23
ANAB	ISO/IEC 17025	L2471	02-22-26
Arkansas DEQ	State	88-0689	09-01-23
California	State	2510	06-30-23
Florida	NELAP	E81010	06-30-23
Georgia	State	E81010(FL)	06-30-23
Illinois	NELAP	200041	10-09-23
Kansas	NELAP	E-10253	10-31-23
Kentucky (UST)	State	53	06-30-23
Louisiana (All)	NELAP	30976	06-30-23
Louisiana (DW)	State	LA017	12-31-23
Maryland	State	233	09-30-23
Michigan	State	9912	06-30-23
North Carolina (WW/SW)	State	314	12-31-23
Oklahoma	NELAP	9810	08-31-23
Pennsylvania	NELAP	68-00467	01-31-24
South Carolina	State	96026	06-30-23
Tennessee	State	TN02907	06-30-23
Texas	NELAP	T104704286	09-30-23
US Fish & Wildlife	US Federal Programs	A22340	06-30-23
USDA	US Federal Programs	P330-21-00056	05-17-24
USDA	US Federal Programs	FLGNV23001	01-08-26
Virginia	NELAP	460166	06-14-23
West Virginia DEP	State	136	03-31-24

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 11/30/2023 2:42:43 PM

JOB DESCRIPTION

K27 LD072.00

JOB NUMBER

400-246741-1

Eurofins Pensacola
3355 McLemore Drive
Pensacola FL 32514

See page two for job notes and contact information.

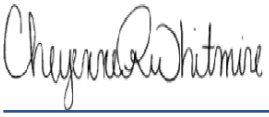
Eurofins Pensacola

Job Notes

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

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

Authorization



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Authorized for release by
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(850)471-6222

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072.00

Laboratory Job ID: 400-246741-1

Table of Contents

Case Narrative

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072.00

Job ID: 400-246741-1

Job ID: 400-246741-1

Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-246741-1

Receipt
The samples were received on 11/14/2023 8:56 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.0º C.

GC/MS VOA
Method 8260D: The matrix spike (MS) recovery for analytical batch 400-651222 was outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8260D: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-1 (400-246741-1) and DUP-01 (400-246741-9). Elevated reporting limits (RLs) are provided.

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

Detection Summary

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072.00

Job ID: 400-246741-1

Client Sample ID: MW-1 — Lab Sample ID: 400-246741-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	230		2.0		ug/L	2		8260D	Total/NA
Ethylbenzene	4.8		2.0		ug/L	2		8260D	Total/NA
Toluene	120		2.0		ug/L	2		8260D	Total/NA
Xylenes, Total	58		20		ug/L	2		8260D	Total/NA

Client Sample ID: MW-3R — Lab Sample ID: 400-246741-2

No Detections.

Client Sample ID: MW-6 — Lab Sample ID: 400-246741-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.9		1.0		ug/L	1		8260D	Total/NA
Ethylbenzene	12		1.0		ug/L	1		8260D	Total/NA
Xylenes, Total	170		10		ug/L	1		8260D	Total/NA

Client Sample ID: MW-7 — Lab Sample ID: 400-246741-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	6.4		1.0		ug/L	1		8260D	Total/NA

Client Sample ID: MW-8 — Lab Sample ID: 400-246741-5

No Detections.

Client Sample ID: MW-10 — Lab Sample ID: 400-246741-6

No Detections.

Client Sample ID: MW-12 — Lab Sample ID: 400-246741-7

No Detections.

Client Sample ID: MW-14 — Lab Sample ID: 400-246741-8

No Detections.

Client Sample ID: DUP-01 — Lab Sample ID: 400-246741-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	200		2.0		ug/L	2		8260D	Total/NA
Ethylbenzene	3.7		2.0		ug/L	2		8260D	Total/NA
Toluene	99		2.0		ug/L	2		8260D	Total/NA
Xylenes, Total	44		20		ug/L	2		8260D	Total/NA

Client Sample ID: TB-01 — Lab Sample ID: 400-246741-10

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Pensacola

Method Summary

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072.00

Job ID: 400-246741-1

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

Protocol References:

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

Laboratory References:

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

Sample Summary

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072.00

Job ID: 400-246741-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-246741-1	MW-1	Water	11/12/23 11:45	11/14/23 08:56
400-246741-2	MW-3R	Water	11/12/23 12:02	11/14/23 08:56
400-246741-3	MW-6	Water	11/12/23 12:10	11/14/23 08:56
400-246741-4	MW-7	Water	11/12/23 12:18	11/14/23 08:56
400-246741-5	MW-8	Water	11/12/23 12:25	11/14/23 08:56
400-246741-6	MW-10	Water	11/12/23 12:30	11/14/23 08:56
400-246741-7	MW-12	Water	11/12/23 12:35	11/14/23 08:56
400-246741-8	MW-14	Water	11/12/23 12:40	11/14/23 08:56
400-246741-9	DUP-01	Water	11/12/23 12:00	11/14/23 08:56
400-246741-10	TB-01	Water	11/12/23 11:30	11/14/23 08:56

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072.00

Job ID: 400-246741-1

Client Sample ID: MW-1

Date Collected: 11/12/23 11:45
Date Received: 11/14/23 08:56

Lab Sample ID: 400-246741-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**230**		2.0		ug/L			11/21/23 17:25	2
Ethylbenzene	**4.8**		2.0		ug/L			11/21/23 17:25	2
Toluene	**120**		2.0		ug/L			11/21/23 17:25	2
Xylenes, Total	**58**		20		ug/L			11/21/23 17:25	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*72 - 130*		*11/21/23 17:25*	*2*
Dibromofluoromethane	*89*		*75 - 126*		*11/21/23 17:25*	*2*
Toluene-d8 (Surr)	*108*		*64 - 132*		*11/21/23 17:25*	*2*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072.00

Job ID: 400-246741-1

Client Sample ID: MW-3R

Date Collected: 11/12/23 12:02
Date Received: 11/14/23 08:56

Lab Sample ID: 400-246741-2

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			11/17/23 16:56	1
Ethylbenzene	<1.0		1.0		ug/L			11/17/23 16:56	1
Toluene	<1.0		1.0		ug/L			11/17/23 16:56	1
Xylenes, Total	<10		10		ug/L			11/17/23 16:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*105*		*72 - 130*		*11/17/23 16:56*	*1*
Dibromofluoromethane	*113*		*75 - 126*		*11/17/23 16:56*	*1*
Toluene-d8 (Surr)	*102*		*64 - 132*		*11/17/23 16:56*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072.00

Job ID: 400-246741-1

Client Sample ID: MW-6

Date Collected: 11/12/23 12:10
Date Received: 11/14/23 08:56

Lab Sample ID: 400-246741-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.9**		1.0		ug/L			11/17/23 17:23	1
Ethylbenzene	**12**		1.0		ug/L			11/17/23 17:23	1
Toluene	<1.0		1.0		ug/L			11/17/23 17:23	1
Xylenes, Total	**170**		10		ug/L			11/17/23 17:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*104*		*72 - 130*		*11/17/23 17:23*	*1*
Dibromofluoromethane	*103*		*75 - 126*		*11/17/23 17:23*	*1*
Toluene-d8 (Surr)	*115*		*64 - 132*		*11/17/23 17:23*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072.00

Job ID: 400-246741-1

Client Sample ID: MW-7
Date Collected: 11/12/23 12:18
Date Received: 11/14/23 08:56

Lab Sample ID: 400-246741-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**6.4**		1.0		ug/L			11/21/23 14:38	1
Ethylbenzene	<1.0		1.0		ug/L			11/21/23 14:38	1
Toluene	<1.0		1.0		ug/L			11/21/23 14:38	1
Xylenes, Total	<10		10		ug/L			11/21/23 14:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*88*		*72 - 130*		*11/21/23 14:38*	*1*
Dibromofluoromethane	*101*		*75 - 126*		*11/21/23 14:38*	*1*
Toluene-d8 (Surr)	*97*		*64 - 132*		*11/21/23 14:38*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072.00

Job ID: 400-246741-1

Client Sample ID: MW-8

Date Collected: 11/12/23 12:25
Date Received: 11/14/23 08:56

Lab Sample ID: 400-246741-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/21/23 14:56	1
Ethylbenzene	<1.0		1.0		ug/L			11/21/23 14:56	1
Toluene	<1.0		1.0		ug/L			11/21/23 14:56	1
Xylenes, Total	<10		10		ug/L			11/21/23 14:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*72 - 130*		*11/21/23 14:56*	*1*
Dibromofluoromethane	*106*		*75 - 126*		*11/21/23 14:56*	*1*
Toluene-d8 (Surr)	*97*		*64 - 132*		*11/21/23 14:56*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072.00

Job ID: 400-246741-1

Client Sample ID: MW-10

Date Collected: 11/12/23 12:30
Date Received: 11/14/23 08:56

Lab Sample ID: 400-246741-6

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			11/21/23 15:15	1
Ethylbenzene	<1.0		1.0		ug/L			11/21/23 15:15	1
Toluene	<1.0		1.0		ug/L			11/21/23 15:15	1
Xylenes, Total	<10		10		ug/L			11/21/23 15:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*72 - 130*		*11/21/23 15:15*	*1*
Dibromofluoromethane	*99*		*75 - 126*		*11/21/23 15:15*	*1*
Toluene-d8 (Surr)	*100*		*64 - 132*		*11/21/23 15:15*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072.00

Job ID: 400-246741-1

Client Sample ID: MW-12

Date Collected: 11/12/23 12:35
Date Received: 11/14/23 08:56

Lab Sample ID: 400-246741-7

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			11/21/23 15:33	1
Ethylbenzene	<1.0		1.0		ug/L			11/21/23 15:33	1
Toluene	<1.0		1.0		ug/L			11/21/23 15:33	1
Xylenes, Total	<10		10		ug/L			11/21/23 15:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*89*		*72 - 130*		*11/21/23 15:33*	*1*
Dibromofluoromethane	*106*		*75 - 126*		*11/21/23 15:33*	*1*
Toluene-d8 (Surr)	*97*		*64 - 132*		*11/21/23 15:33*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072.00

Job ID: 400-246741-1

Client Sample ID: MW-14

Date Collected: 11/12/23 12:40
Date Received: 11/14/23 08:56

Lab Sample ID: 400-246741-8

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/21/23 15:52	1
Ethylbenzene	<1.0		1.0		ug/L			11/21/23 15:52	1
Toluene	<1.0		1.0		ug/L			11/21/23 15:52	1
Xylenes, Total	<10		10		ug/L			11/21/23 15:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*89*		*72 - 130*		*11/21/23 15:52*	*1*
Dibromofluoromethane	*107*		*75 - 126*		*11/21/23 15:52*	*1*
Toluene-d8 (Surr)	*98*		*64 - 132*		*11/21/23 15:52*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072.00

Job ID: 400-246741-1

Client Sample ID: DUP-01

Date Collected: 11/12/23 12:00
Date Received: 11/14/23 08:56

Lab Sample ID: 400-246741-9

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**200**		2.0		ug/L			11/21/23 17:44	2
Ethylbenzene	**3.7**		2.0		ug/L			11/21/23 17:44	2
Toluene	**99**		2.0		ug/L			11/21/23 17:44	2
Xylenes, Total	**44**		20		ug/L			11/21/23 17:44	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*72 - 130*		*11/21/23 17:44*	*2*
Dibromofluoromethane	*88*		*75 - 126*		*11/21/23 17:44*	*2*
Toluene-d8 (Surr)	*110*		*64 - 132*		*11/21/23 17:44*	*2*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072.00

Job ID: 400-246741-1

Client Sample ID: TB-01
Date Collected: 11/12/23 11:30
Date Received: 11/14/23 08:56

Lab Sample ID: 400-246741-10
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			11/21/23 14:19	1
Ethylbenzene	<1.0		1.0		ug/L			11/21/23 14:19	1
Toluene	<1.0		1.0		ug/L			11/21/23 14:19	1
Xylenes, Total	<10		10		ug/L			11/21/23 14:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*89*		*72 - 130*		*11/21/23 14:19*	*1*
Dibromofluoromethane	*102*		*75 - 126*		*11/21/23 14:19*	*1*
Toluene-d8 (Surr)	*97*		*64 - 132*		*11/21/23 14:19*	*1*

Definitions/Glossary

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072.00

Job ID: 400-246741-1

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: K27 LD072.00

Job ID: 400-246741-1

Client Sample ID: MW-1
Date Collected: 11/12/23 11:45
Date Received: 11/14/23 08:56

Lab Sample ID: 400-246741-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		2	5 mL	5 mL	651222	11/21/23 17:25	CAR	EET PEN

Client Sample ID: MW-3R
Date Collected: 11/12/23 12:02
Date Received: 11/14/23 08:56

Lab Sample ID: 400-246741-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	650761	11/17/23 16:56	WPD	EET PEN

Client Sample ID: MW-6
Date Collected: 11/12/23 12:10
Date Received: 11/14/23 08:56

Lab Sample ID: 400-246741-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	650761	11/17/23 17:23	WPD	EET PEN

Client Sample ID: MW-7
Date Collected: 11/12/23 12:18
Date Received: 11/14/23 08:56

Lab Sample ID: 400-246741-4
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	651222	11/21/23 14:38	CAR	EET PEN

Client Sample ID: MW-8
Date Collected: 11/12/23 12:25
Date Received: 11/14/23 08:56

Lab Sample ID: 400-246741-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	651222	11/21/23 14:56	CAR	EET PEN

Client Sample ID: MW-10
Date Collected: 11/12/23 12:30
Date Received: 11/14/23 08:56

Lab Sample ID: 400-246741-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	651222	11/21/23 15:15	CAR	EET PEN

Client Sample ID: MW-12
Date Collected: 11/12/23 12:35
Date Received: 11/14/23 08:56

Lab Sample ID: 400-246741-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	651222	11/21/23 15:33	CAR	EET PEN

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072.00

Job ID: 400-246741-1

Client Sample ID: MW-14
Date Collected: 11/12/23 12:40
Date Received: 11/14/23 08:56

Lab Sample ID: 400-246741-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	651222	11/21/23 15:52	CAR	EET PEN

Client Sample ID: DUP-01
Date Collected: 11/12/23 12:00
Date Received: 11/14/23 08:56

Lab Sample ID: 400-246741-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		2	5 mL	5 mL	651222	11/21/23 17:44	CAR	EET PEN

Client Sample ID: TB-01
Date Collected: 11/12/23 11:30
Date Received: 11/14/23 08:56

Lab Sample ID: 400-246741-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	651222	11/21/23 14:19	CAR	EET PEN

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

Lab Sample ID: MB 400-650761/3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	650761	11/17/23 12:53	WPD	EET PEN

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

Lab Sample ID: MB 400-651222/5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	651222	11/21/23 11:50	CAR	EET PEN

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

Lab Sample ID: LCS 400-650761/1001
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	650761	11/17/23 11:23	WPD	EET PEN

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

Lab Sample ID: LCS 400-651222/1001
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	651222	11/21/23 10:07	CAR	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: K27 LD072.00

Job ID: 400-246741-1

GC/MS VOA

Analysis Batch: 650761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-246741-2	MW-3R	Total/NA	Water	8260D	
400-246741-3	MW-6	Total/NA	Water	8260D	
MB 400-650761/3	Method Blank	Total/NA	Water	8260D	
LCS 400-650761/1001	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 651222

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-246741-1	MW-1	Total/NA	Water	8260D	
400-246741-4	MW-7	Total/NA	Water	8260D	
400-246741-5	MW-8	Total/NA	Water	8260D	
400-246741-6	MW-10	Total/NA	Water	8260D	
400-246741-7	MW-12	Total/NA	Water	8260D	
400-246741-8	MW-14	Total/NA	Water	8260D	
400-246741-9	DUP-01	Total/NA	Water	8260D	
400-246741-10	TB-01	Total/NA	Water	8260D	
MB 400-651222/5	Method Blank	Total/NA	Water	8260D	
LCS 400-651222/1001	Lab Control Sample	Total/NA	Water	8260D	

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072.00

Job ID: 400-246741-1

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

Lab Sample ID: MB 400-650761/3
Matrix: Water
Analysis Batch: 650761

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			11/17/23 12:53	1
Ethylbenzene	<1.0		1.0		ug/L			11/17/23 12:53	1
Toluene	<1.0		1.0		ug/L			11/17/23 12:53	1
Xylenes, Total	<10		10		ug/L			11/17/23 12:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*107*		*72 - 130*		*11/17/23 12:53*	*1*
Dibromofluoromethane	*110*		*75 - 126*		*11/17/23 12:53*	*1*
Toluene-d8 (Surr)	*103*		*64 - 132*		*11/17/23 12:53*	*1*

Lab Sample ID: LCS 400-650761/1001
Matrix: Water
Analysis Batch: 650761

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	53.7		ug/L		107	70 - 130
m-Xylene & p-Xylene	50.0	52.6		ug/L		105	70 - 130
o-Xylene	50.0	51.8		ug/L		104	70 - 130
Ethylbenzene	50.0	53.9		ug/L		108	70 - 130
Toluene	50.0	55.5		ug/L		111	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*105*		*72 - 130*
Dibromofluoromethane	*106*		*75 - 126*
Toluene-d8 (Surr)	*103*		*64 - 132*
1,2-Dichloroethane-d4 (Surr)	*111*		*67 - 134*

Lab Sample ID: MB 400-651222/5
Matrix: Water
Analysis Batch: 651222

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			11/21/23 11:50	1
Ethylbenzene	<1.0		1.0		ug/L			11/21/23 11:50	1
Toluene	<1.0		1.0		ug/L			11/21/23 11:50	1
Xylenes, Total	<10		10		ug/L			11/21/23 11:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*88*		*72 - 130*		*11/21/23 11:50*	*1*
Dibromofluoromethane	*100*		*75 - 126*		*11/21/23 11:50*	*1*
Toluene-d8 (Surr)	*100*		*64 - 132*		*11/21/23 11:50*	*1*

Lab Sample ID: LCS 400-651222/1001
Matrix: Water
Analysis Batch: 651222

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	25.0	24.5		ug/L		98	70 - 130

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072.00

Job ID: 400-246741-1

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

Lab Sample ID: LCS 400-651222/1001
Matrix: Water
Analysis Batch: 651222

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
m-Xylene & p-Xylene			25.0	22.6		ug/L		90	70 - 130		
o-Xylene			25.0	21.2		ug/L		85	70 - 130		
Ethylbenzene			25.0	23.9		ug/L		96	70 - 130		
Toluene			25.0	23.6		ug/L		94	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*97*		*72 - 130*
Dibromofluoromethane	*89*		*75 - 126*
Toluene-d8 (Surr)	*103*		*64 - 132*
1,2-Dichloroethane-d4 (Surr)	*95*		*67 - 134*

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

Chain of Custody Record

eurofins | Environment Testing

400-246741 COC

Client Information	Sampler: SRC/ERB	Lab PM: Whitmire, Cheyenne R	Carrie	COC No: 400-124038-41364.2
Client Contact: Joe Wiley	Phone: 575-253-0830	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State	Page: Page 2 of 2 ERB
Company: El Paso Energy Corporation	PWSID			Job #:
Address: 1001 Louisiana Street Room S1905B	Due Date Requested: STD			
City: Houston	TAT Requested (days):			
State, Zip: TX, 77002	Compliance Project: Δ Yes Δ No			
Phone	PO #: WD1040029			
Email: joe.wiley@kindermorgan.com	WO #: K27_ERG_ARF_10_24_2023			
Project Name: K27 LD072.00	Project #: 40015823			
Site	SSOW#:			

Analysis Requested

Preservation Codes:

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

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	8260D - BTEX - 8260	8260D - BTEX - 8260	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	A	N	X	
MW-1	11/12/2023	1145	G	Water	N	X			
MW-3R	11/12/2023	1202	G	Water	N	–	X		
MW-6	11/12/2023	1210	G	Water	N	–	X		
MW-7	11/12/2023	1218	G	water	N	X			
MW-8	11/12/2023	1225	G	water	N	X			
MW-10	11/12/2023	1230	G	water	N	X			
MW-12	11/12/2023	1235	G	water	N	X			
MW-14	11/12/2023	1240	G	water	N	X			
DUP-01	11/12/2023	—	G	water	N	X			
TB-01	11/12/2023	1130	G	water	N	X			
ERB									ERB

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

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

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

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Eric Early	11/13/2023 1250	STV	BR	11/14/23 856	
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.0°C IR8

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc Job Number: 400-246741-1

Login Number: 246741 **List Source: Eurofins Pensacola**
List Number: 1
Creator: Roberts, Alexis J

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.0°C IR8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: Stantec Consulting Services Inc
Job ID: 400-246741-1
Project/Site: K27 LD072.00

Laboratory: Eurofins Pensacola

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

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-24
ANAB	ISO/IEC 17025	L2471	02-22-26
Arkansas DEQ	State	88-00689	08-01-24
California	State	2510	06-30-24
Florida	NELAP	E81010	06-30-24
Georgia	State	E81010(FL)	06-30-24
Illinois	NELAP	200041	10-09-24
Kansas	NELAP	E-10253	10-31-24
Kentucky (UST)	State	53	06-30-24
Louisiana (All)	NELAP	30976	06-30-24
Louisiana (DW)	State	LA017	12-31-23
North Carolina (WW/SW)	State	314	12-31-23
Oklahoma	NELAP	9810	08-31-24
Pennsylvania	NELAP	68-00467	01-31-24
South Carolina	State	96026	06-30-24
Tennessee	State	TN02907	06-30-24
Texas	NELAP	T104704286	09-30-24
US Fish & Wildlife	US Federal Programs	A22340	06-30-24
USDA	US Federal Programs	P330-21-00056	05-17-24
USDA	US Federal Programs	FLGNV23001	01-08-26
Virginia	NELAP	460166	06-14-24
West Virginia DEP	State	136	03-31-24
West Virginia DEP	State	136	03-31-24

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

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

CONDITIONS

Action 327888

CONDITIONS

Operator: El Paso Natural Gas Company, L.L.C 1001 Louisiana Street Houston, TX 77002	OGRID: 7046
	Action Number: 327888
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Review of the 2023 Annual Groundwater Report for K-27 Line Drip: content satisfactory 1. Remove measurable LNAPL on a quarterly basis. 2. Continue to conduct groundwater monitoring on a semi-annual basis, and biennially from monitoring wells not containing LNAPL. 3. Transition to a quarterly sampling schedule when all COCs are beginning to demonstrate at or below the WQCC human health standards until eight (8) monitoring events are all below the standards in TItle 20 of the NMAC. 4. Analyze for BTEX by EPA Method 8260. 5. Submit the next annual report to OCD by April 1, 2025.	7/15/2024