2021 ANNUAL GROUNDWATER REPORT

NV

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

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. The location of the Site is depicted on Figure 1. A Site Plan map depicting the locations of monitoring wells and current and historical site features is provided as Figure 2. Historically, light non-aqueous phase liquid (LNAPL) has 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 2021. 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, 2021, and November 3, 2021, prior to initiating groundwater sampling activities at the Site. Copies of the 2020 NMOCD notifications are provided in Appendix A. On May 19 and November 11, 2021, water levels were gauged at MW-1, MW-2R, MW-3R, MW-4, MW-5, MW-6, MW-7, MW-8, MW-9, MW-10, and TW-1.

Groundwater samples were collected from MW-1, MW-3R, MW-6, and MW-10 in May 2021. Groundwater samples were collected from MW-3R, MW-7, and MW-10 in November 2021. LNAPL was detected at MW-2R, MW-7, MW-8, and MW-9 in May 2021; therefore, groundwater samples were not collected at these locations during the May 2021 event. In November 2021, LNAPL was detected at MW-1, MW-2R, MW-6, MW-8, and MW-9; therefore, groundwater samples were not collected at these locations during the November 2021 event. 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.

2021 ANNUAL GROUNDWATER REPORT

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

Groundwater samples were placed into laboratory-supplied sample containers, packed on ice, and shipped under standard chain-of-custody protocols to Eurofins-TestAmerica Laboratories, Inc. (Eurofins) in Pensacola, Florida where they were analyzed for BTEX. One laboratory-supplied trip blank and one blind field duplicate was also collected during each groundwater sampling event. The groundwater samples, field duplicates, and trip blanks were analyzed using United States Environmental Protection Agency (EPA) Method 8260.

Excess sample water was placed in a waste container and transported to Basin Disposal, Inc. in Bloomfield, New Mexico (Basin) for disposal. Waste disposal documentation is included as Appendix B.

LNAPL RECOVERY

As documented in EPCGP's letter dated January 5, 2021, EPCGP initiated quarterly LNAPL recovery activities in the second calendar quarter of 2020 and continued with quarterly LNAPL recovery events in March, May, August, and November 2021. Documentation of NMOCD notification of site activities is provided in Appendix A. LNAPL was observed in monitoring wells MW-2R, MW-8, and MW-9 during the four quarterly events in March, May, August, and November 2021. LNAPL was also observed in MW-1 and MW-6 in August and November 2021 and in MW-7 in May and August 2021.

The LNAPL recovery data is summarized on Table 1. LNAPL was recovered by hand-bailing. During the groundwater sampling events in May and November 2021, recovered LNAPL was disposed along with wastewater generated during the monitoring well sampling activities. Recovered LNAPL from the March and August site visits was also transported for disposal at Basin (Appendix B).

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 maps (Figures 3 and 5) and groundwater elevation contour maps (Figures 4 and 6) summarize results of the 2021 groundwater sampling and gauging events.

ANALYTICAL LAB REPORTS

The groundwater analytical lab reports are included as Appendices C.

GROUNDWATER RESULTS

- Groundwater elevations indicate the groundwater flow direction at the Site was generally to the northeast during 2021 (see Figures 4 and 6).

2021 ANNUAL GROUNDWATER REPORT

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

- The groundwater sample collected from MW-1 in May 2021 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 2021.

- Concentrations of toluene were either below the NMWQCC standard (750 µg/L) or were not detected in the site monitoring wells sampled in 2021.

- Concentrations of ethylbenzene were either below the NMWQCC standard (750 µg/L) or were not detected in the site monitoring wells sampled in 2021.

- Concentrations of total xylenes were either below the NMWQCC standard (620 µg/L) or were not detected in the site monitoring wells sampled in 2021.

- A field duplicate was collected from monitoring well MW-1 in May 2021 and from MW-7 in November 2021. 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 2021 groundwater monitoring events.

PLANNED FUTURE ACTIVITIES

Groundwater monitoring events will 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 analyzed for BTEX constituents using EPA Method 8260. A field duplicate and trip blank will also be collected during each groundwater sampling event. Sampling of all site monitoring wells is conducted on a biennial basis, with the next site-wide sampling event to be conducted in the second calendar quarter of 2022.

Pursuant to EPCGP's January 5, 2021, letter, manual recovery of LNAPL will continue on a quarterly basis from monitoring wells where measurable LNAPL is encountered.

The activities conducted in 2022 and their results will be summarized in the 2022 Annual Report, to be submitted by April 1, 2023.

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
			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
			Total:	7.2	352	
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
			Total:	0.27	0.66	
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	

TABLE 1
LIGHT NON-AQUEOUS PHASE LIQUID RECOVERY SUMMARY

K-27 Line Drip						
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
			Total:	0.81	1.47	

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
			Total:	19.3	304	

Notes:
gal = gallons.
* = Mobile Duel 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
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

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	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
DP-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-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

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-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
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

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-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-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
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

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	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
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-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

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	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
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-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

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	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
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-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-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-1(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-1(MW-8)*	11/10/19	<1.0	<1.0	<1.0	<10
MW-8	05/12/20	<1.0	3.6	1.8	36

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-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-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-10	11/14/17	<1.0	<1.0	<1.0	<10
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

Notes:
The groundwater monitoring dates for each monitoring well where no groundwater samples were collected and analyzed have been omitted.
"µg/L" = micrograms per liter
Results highlighted yellow exceed their respective New Mexico Water Quality Control Commission (NMWQCC) standards.
"J" = Result is less than the reporting limit but greater than or equal to the method detection limit and the result in an approximate value.
"<" = analyte was not detected at the indicated reporting limit (some historic data were reported at the detection limit).
*Field Duplicate results presented immediately below primary sample 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	36.10	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	37.40	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	38.00	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	37.7		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
DUP-01(M	10/27/18	NA	NA	NA		NA
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-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

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	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	1.10	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	6.10	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	34.9		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	0.04	6224.42
MW-2	02/16/10	6261.39	ND	36.96		6224.43
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

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	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	36.70	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	37.00	38.00	1.00	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-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
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	38.085		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

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	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
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

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-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-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
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

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	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-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
MW-5	11/11/21	6264.51	ND	42.21		6222.30
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-7	10/15/16	6262.84	ND	39.32		6223.52
MW-7	06/07/17	6262.84	ND	37.34		6225.50

TABLE 3 - GROUNDWATER ELEVATION RESULTS

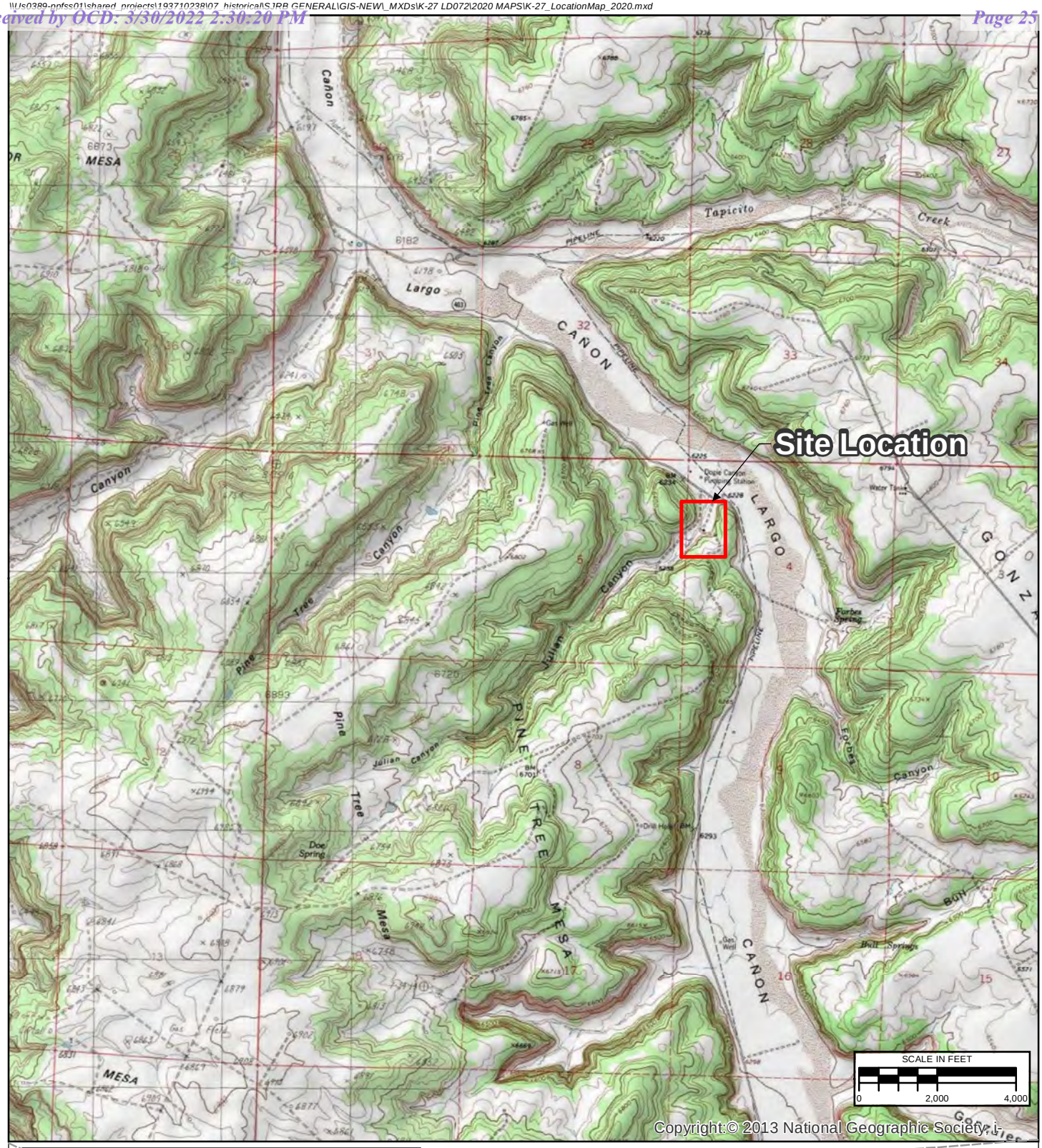
K-27 Line Drip						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-7	11/14/17	6262.84	ND	37.88		6224.96
MW-7	05/15/18	6262.84	ND	37.27		6225.57
MW-7	10/21/18	6262.84	ND	38.62		6224.22
MW-7	10/27/18	6262.84	ND	38.56		6224.28
MW-7	05/21/19	6262.84	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
(DUP-01)M	05/12/20	0.00	NA	NA		NA
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-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	0.20	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-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	38.50	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	1.00	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
MW-9	11/11/21	6261.66	39.15	40.10	0.95	6222.27

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-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
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
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

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
	2/17/2021	SAH	SAH	SRV

TITLE
SITE LOCATION

Stantec

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

FIGURE
1

\\Us0389-ppfss01\shared_projects\193710238\07_historical\SJRB GENERAL\GIS-NEW_MXDs\K-27 LD072\2019 MAPS\K-27_SITEMAP_1SA_2019.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
	2/11/2021	SLG	SLG	SRV

TITLE:

SITE PLAN

PROJECT:

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

Stantec

Figure No.:

2

\\Us0389-ppfss01\shared_projects\193710238\07_historical\SJRB GENERAL\GIS-NEW_MXDs\K-27 LD072\2021 MAPS\K-27_GARM_1SA_2021.mxd

LEGEND:

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

NOTES:

DUP = FIELD DUPLICATE SAMPLE

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
	7/19/2021	SAH	SAH	SRV

TITLE:

GROUNDWATER ANALYTICAL RESULTS
MAY 19, 2021

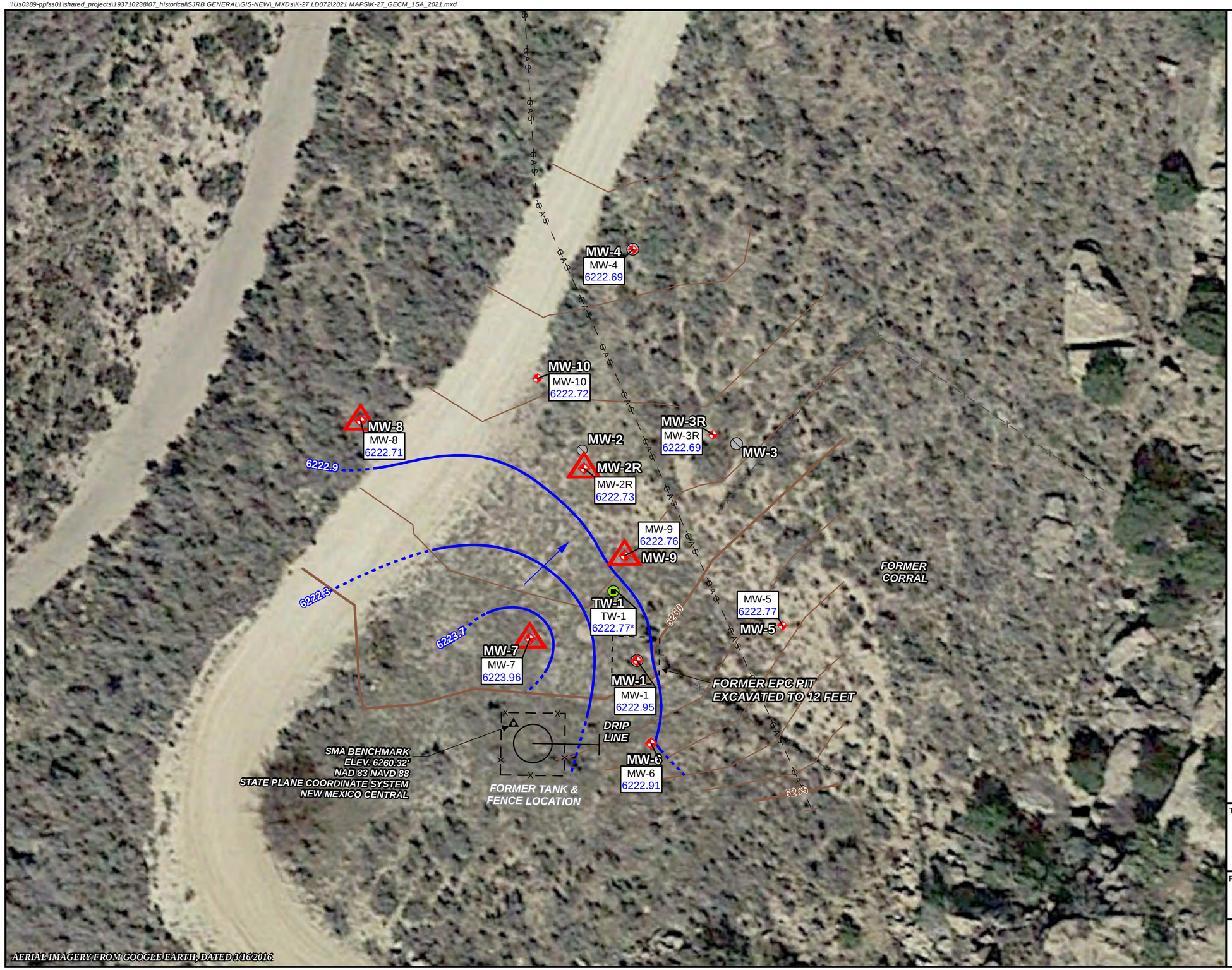
PROJECT:

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

Stantec

Figure No.: 3

\\Us0389-ppfss01\shared_projects\193710238\07_historical\SJRB GENERAL\GIS-NEW_MXDs\K-27 LD072\2021 MAPS\K-27_GECM_1SA_2021.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 FREE PRODUCT
- TEST WELL
- SMA BENCHMARK

NOTES:

6222.95 — GROUNDWATER ELEVATION (CORRECTED FOR PRODUCT THICKNESS WHEN PRESENT) FEET ABOVE MEAN SEA LEVEL

6226.3 — 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.

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
A	7/19/2021	SAH	SAH	SRV

TITLE:

GROUNDWATER ELEVATION MAP
MAY 19, 2021

PROJECT:

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

Stantec

Figure No.: 4

\\Corp.ads\data\Virtual_Workspace\workgroup\1937\Active\193700102\03_data\gis_cad\gis\GIS-NEW_MXDs\K-27 LD072\2021 MAPS\K-27_GARM_2SA_2021.mxd

LEGEND:

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

NOTES:

DUP = FIELD DUPLICATE SAMPLE

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
	2022-01-27	SAH	SAH	SRV

TITLE:

GROUNDWATER ANALYTICAL RESULTS
NOVEMBER 11, 2021

PROJECT:

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

Stantec

Figure No.: 5

\\Corp.ads\data\Virtual_Workspace\workgroup\1937\Active\193700102\03_data\gis_cad\gis\GIS-NEW_MXDs\K-27 LD072\2021 MAPS\K-27_GECM_2SA_2021.mxd

MW-4
MW-4
6222.27

MW-10
MW-10
6222.27

MW-8
6222.27
MW-8

6222.4

MW-3R
MW-3R
6222.23

MW-2
MW-2R
MW-2R
6222.23

MW-3

MW-9
6222.27
MW-9

6222.8

6223.2

TW-1
TW-1
6222.29*

MW-7
MW-7
6223.45

MW-5
6222.30
MW-5

6230

MW-1
MW-1
6222.42

FORMER EPC PIT
EXCAVATED TO 12 FEET

DRIP
LINE

MW-6
6222.39
MW-6

FORMER
CORRAL

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

FORMER TANK &
FENCE LOCATION

6255

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

LEGEND:

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

NOTES:

- 6222.95 — GROUNDWATER ELEVATION (CORRECTED FOR PRODUCT THICKNESS WHEN PRESENT) FEET ABOVE MEAN SEA LEVEL
- 6223.3 — 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.

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
A	2022-01-25	SAH	SAH	SRV

TITLE:
GROUNDWATER ELEVATION MAP
NOVEMBER 11, 2021

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

Stantec

Figure No.:
6

APPENDICES

APPENDIX A

From: Varsa, Steve
To: Smith, Cory, EMNRD
Cc: Griswold, Jim, EMNRD; Wiley, Joe
Subject: El Paso CGP Company - Notice of upcoming product recovery activities
Date: Thursday, March 11, 2021 10:49:41 AM

Hi Cory -

This correspondence is to provide notice to the NMOCD of upcoming product recovery activities at the following El Paso CGP Company (EPCGP) project sites:

Site Name	Incident Number	Case Number	Date
Canada Mesa #2	Unknown	3RP-155-0	03/18/2021
Fields A#7A	Unknown	3RP-170-0	03/17/2021
Fogelson 4-1	Unknown	3RP-068-0	03/17/2021
Gallegos Canyon Unit #124E	NAUTOFAB000205	3RP-407-0	03/17/2021
James F. Bell #1E	Unknown	3RP-196-0	03/17/2021
Johnston Fed #4	Unknown	3RP-201-0	03/18/2021
Johnston Fed #6A	Unknown	3RP-202-0	03/18/2021
K27 LDO72	Unknown	3RP-204-0	03/18/2021
Knight #1	Unknown	3RP-207-0	03/17/2021
Lateral L 40 Line Drip	Unknown	3RP-212-0	03/18/2021
State Gas Com N #1	Unknown	3RP-239-0	03/17/2021

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

Thank you,
Steve

Stephen Varsa, P.G.
Senior Hydrogeologist
Stantec Environmental Services
11153 Aurora Avenue
Des Moines, Iowa 50322
Direct: (515) 251-1020
Cell: (515) 710-7523
Office: (515) 253-0830
steve.varsa@stantec.com

From: Varsa, Steve
To: Smith, Cory, EMNRD
Cc: Griswold, Jim, EMNRD; Wiley, Joe
Subject: El Paso CGP Company - Notice of upcoming groundwater sampling activities
Date: Wednesday, May 12, 2021 2:45:52 PM

Hi Cory -

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	05/19/2021
Fields A#7A	nAUTOfAB000176	05/22/2021
Fogelson 4-1	nAUTOfAB000192	05/22/2021
Gallegos Canyon Unit #124E	nAUTOfAB000205	05/21/2021
GCU Com A #142E	nAUTOfAB000219	05/21/2021
James F. Bell #1E	nAUTOfAB000291	05/23/2021
Johnston Fed #4	nAUTOfAB000305	05/18/2021
Johnston Fed #6A	nAUTOfAB000309	05/18/2021
K27 LDO72	nAUTOfAB000316	05/19/2021
Knight #1	nAUTOfAB000324	05/21/2021
Lateral L 40 Line Drip	nAUTOfAB000335	05/23/2021
Miles Fed #1A	nAUTOfAB000391	05/19/2021
Sandoval GC A #1A	nAUTOfAB000635	05/18/2021
Standard Oil Com #1	nAUTOfAB000666	05/19/2021
State Gas Com N #1	nAUTOfAB000668	05/22/2021

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

Thank you,
Steve

Stephen Varsa, P.G.
Senior Hydrogeologist
Stantec Environmental Services
11153 Aurora Avenue
Des Moines, Iowa 50322
Direct: (515) 251-1020
Cell: (515) 710-7523
Office: (515) 253-0830
steve.varsa@stantec.com

From: Varsa, Steve
To: Smith, Cory, EMNRD
Cc: Griswold, Jim, EMNRD; Wiley, Joe
Bcc: Varsa, Steve
Subject: El Paso CGP Company - Notice of upcoming free product recovery activities
Date: Thursday, August 19, 2021 8:01:00 AM

Hi Cory -

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

Site Name	Incident Number	Sample Date
Fields A#7A	nAUTOfAB000176	08/22/2021
Gallegos Canyon Unit #124E	nAUTOfAB000205	08/23/2021
Johnston Fed #4	nAUTOfAB000305	08/22/2021
K27 LDO72	nAUTOfAB000316	08/23/2021
Knight #1	nAUTOfAB000324	08/23/2021
Lateral L 40 Line Drip	nAUTOfAB000335	08/22/2021

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

Thank you,
Steve

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

From: Varsa, Steve
To: Smith, Cory, EMNRD
Cc: Griswold, Jim, EMNRD; Wiley, Joe
Subject: El Paso CGP Company - Notice of upcoming groundwater sampling activities
Date: Wednesday, November 03, 2021 10:14:55 AM

Hi Cory -

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	11/11/2021
Fields A#7A	nAUTOfAB000176	11/14/2021
Fogelson 4-1	nAUTOfAB000192	11/14/2021
Gallegos Canyon Unit #124E	nAUTOfAB000205	11/12/2021
GCU Com A #142E	nAUTOfAB000219	11/12/2021
James F. Bell #1E	nAUTOfAB000291	11/13/2021
Johnston Fed #4	nAUTOfAB000305	11/15/2021
Johnston Fed #6A	nAUTOfAB000309	11/15/2021
K27 LDO72	nAUTOfAB000316	11/11/2021
Knight #1	nAUTOfAB000324	11/12/2021
Lateral L 40 Line Drip	nAUTOfAB000335	11/13/2021
Miles Fed #1A	nAUTOfAB000391	11/11/2021
Sandoval GC A #1A	nAUTOfAB000635	11/15/2021
Standard Oil Com #1	nAUTOfAB000666	11/11/2021
State Gas Com N #1	nAUTOfAB000668	11/14/2021

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

Thank you,
Steve

Stephen Varsa, P.G.
Senior Hydrogeologist
Stantec Environmental Services
11153 Aurora Avenue
Des Moines, Iowa 50322
Direct: (515) 251-1020
Cell: (515) 710-7523
Office: (515) 253-0830
steve.varsa@stantec.com

APPENDIX B

BASIN DISPOSAL

30 Years of Environmental Health and Safety Excellence

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

NO. 806752
NMOCD PERMIT: NM -001-0005
Oil Field Waste Document, Form C138
INVOICE:

DATE 03-18-21
DEL. TKT#.
GENERATOR: Santec
BILL TO: ~~Steve~~ Santec
HAULING CO. Energy Minerals & Natural Res
DRIVER: Tyrone
(Print Full Name)
ORDERED BY: Steve Versa
CODES:

WASTE DESCRIPTION: ☒ **Exempt Oilfield Waste** ☒ Produced Water ☐ Drilling/Completion Fluids

STATE: ☒ NM ☐ CO ☐ AZ ☐ UT

TREATMENT/DISPOSAL METHODS: ☒ EVAPORATION ☒ INJECTION ☒ TREATING PLANT

NO.	TRUCK	LOCATION(S)	VOLUME	COST	H2S	COST	TOTAL	TIME
1		Canada Mesa #2	3	70			$210	
2		K-27 LD072					'21 MAR 18	6:22PM
3		Johnston Fed #4						
4		Johnston Fed #6A						
5		Cat LY0						

representative or authorized agent for do hereby

DATE 05-21-21 DEL. TKT#.

GENERATOR: El Paso BILL TO: El Paso

HAULING CO. Stantec DRIVER: Sean Clary (Print Full Name)

ORDERED BY: Joe Wiley CODES:

WASTE DESCRIPTION: ☒ **Exempt Oilfield Waste** ☐ Produced Water ☐ Drilling/Completion Fluids

STATE: ☐ NM ☐ CO ☐ AZ ☐ UT TREATMENT/DISPOSAL METHODS: ☒ EVAPORATION ☒ INJECTION ☒ TREATING PLANT

NO.	TRUCK	LOCATION(S)	VOLUME	COST	H2S	COST	TOTAL	TIME
1		Standard Oil Com #1 Knight #1 / GCU #124E	/	120				
2		GCU Com A #142E	/				'21 MAY 21 3:21 PM	
3		Johnston Fed #4 / #6A	/					
4		Sandoval GC A #1A /	/					
5		CANADA MESA #2 K-27 K0572, Miles fed #1A	/					

I, Sean Clary, representative or authorized agent for ______ do hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non -exempt waste.

☐ Approved ☐ Denied ATTENDANT SIGNATURE ______

SAN JUAN PRINTING 2020 1973-1

BASIN DISPOSAL

30 Years of Environmental Health and Safety Excellence

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

NO. 813738
NMOCD PERMIT: NM -001-0005
Oil Field Waste Document, Form C138
INVOICE:

DATE 8-23-21
GENERATOR: El Paso CGP Company
HAULING CO. Stanley
ORDERED BY: Joe W.

DEL. TKT#.
BILL TO: El Paso CGP Company
DRIVER: Sarah G
(Print Full Name)
CODES:

WASTE DESCRIPTION: ☒ Exempt Oilfield Waste ☐ Produced Water ☐ Drilling/Completion Fluids

STATE: ☐ NM ☐ CO ☐ AZ ☐ UT

TREATMENT/DISPOSAL METHODS: ☒ EVAPORATION ☒ INJECTION ☒ TREATING PLANT

NO.	TRUCK	LOCATION(S)	VOLUME	COST	H2S	COST	TOTAL	TIME
1		IC-27 LD077	1	.70				
2		Knight #1	1					
3		GCU 124E	1				2.10	
4								
5								

Sarah Gardner representative or authorized agent for El Paso CGP

BASIN DISPOSAL

30 Years of Environmental Health and Safety Excellence

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

NO. 817438
NMOCD PERMIT: NM -001-0005
Oil Field Waste Document, Form C138
INVOICE:

DATE 11-11-21
GENERATOR: El Paso CGP
HAULING CO. Stanlee
ORDERED BY: Jeff W.

DEL. TKT#.
BILL TO: El Paso CGP
DRIVER: Sean
(Print Full Name)
CODES:

WASTE DESCRIPTION: ☒ Exempt Oilfield Waste ☒ Produced Water ☐ Drilling/Completion Fluids

STATE: ☒ NM ☐ CO ☐ AZ ☐ UT

TREATMENT/DISPOSAL METHODS: ☒ EVAPORATION ☒ INJECTION ☒ TREATING PLANT

NO.	TRUCK	LOCATION(S)	VOLUME	COST	H2S	COST	TOTAL	TIME
1		Comada Mesa #2	1	120			Tot	
2		K-27 LM072					'21 NOV 11 4:23PM	
3		Miles Federal #1A						
4		Standard Oil Com #1						
5								

I, _____, representative or authorized agent for _____ do hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non -exempt waste.

☒ Approved ☐ Denied ATTENDANT SIGNATURE _____

SAN JUAN PRINTING 2020 1973-1

APPENDIX C

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 400-203723-1
Client Project/Site: K27 LD072

For:
Stantec Consulting Services Inc
11153 Aurora Avenue
Des Moines, Iowa 50322-7904

Attn: Steve Varsa

Marty Edwards

Authorized for release by:
5/26/2021 5:51:47 PM

Marty Edwards, Client Service Manager
(850)471-6227
Marty.Edwards@Eurofinset.com

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

Laboratory Job ID: 400-203723-1

Table of Contents

Definitions/Glossary

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

Job ID: 400-203723-1

Qualifiers

GC/MS VOA

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

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

Job ID: 400-203723-1

Job ID: 400-203723-1

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

Job Narrative
400-203723-1

Comments
No additional comments.

Receipt
The samples were received on 5/21/2021 9:07 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.5º C.

GC/MS VOA
Method 8260C: Surrogate recovery for the following samples were outside control limits: DUP-01 (400-203723-2) and MW-1 (400-203723-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

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

Job ID: 400-203723-1

Client Sample ID: TB-01 — Lab Sample ID: 400-203723-1

No Detections.

Client Sample ID: DUP-01 — Lab Sample ID: 400-203723-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	250		1.0		ug/L	1		8260C	Total/NA
Toluene	50		1.0		ug/L	1		8260C	Total/NA
Ethylbenzene	4.1		1.0		ug/L	1		8260C	Total/NA
Xylenes, Total	72		10		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1 — Lab Sample ID: 400-203723-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	260		1.0		ug/L	1		8260C	Total/NA
Toluene	52		1.0		ug/L	1		8260C	Total/NA
Ethylbenzene	4.1		1.0		ug/L	1		8260C	Total/NA
Xylenes, Total	72		10		ug/L	1		8260C	Total/NA

Client Sample ID: MW-3R — Lab Sample ID: 400-203723-4

No Detections.

Client Sample ID: MW-6 — Lab Sample ID: 400-203723-5

No Detections.

Client Sample ID: MW-10 — Lab Sample ID: 400-203723-6

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Pensacola

Sample Summary

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

Job ID: 400-203723-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
400-203723-1	TB-01	Water	05/19/21 14:00	05/21/21 09:07	
400-203723-2	DUP-01	Water	05/19/21 15:33	05/21/21 09:07	
400-203723-3	MW-1	Water	05/19/21 14:33	05/21/21 09:07	
400-203723-4	MW-3R	Water	05/19/21 14:43	05/21/21 09:07	
400-203723-5	MW-6	Water	05/19/21 14:53	05/21/21 09:07	
400-203723-6	MW-10	Water	05/19/21 15:01	05/21/21 09:07	

Client Sample Results

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

Job ID: 400-203723-1

Client Sample ID: TB-01

Date Collected: 05/19/21 14:00
Date Received: 05/21/21 09:07

Lab Sample ID: 400-203723-1

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			05/24/21 18:02	1
Toluene	<1.0		1.0		ug/L			05/24/21 18:02	1
Ethylbenzene	<1.0		1.0		ug/L			05/24/21 18:02	1
Xylenes, Total	<10		10		ug/L			05/24/21 18:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*78 - 118*		*05/24/21 18:02*	*1*
Dibromofluoromethane	*92*		*81 - 121*		*05/24/21 18:02*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*05/24/21 18:02*	*1*

Client Sample Results

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

Job ID: 400-203723-1

Client Sample ID: DUP-01

Date Collected: 05/19/21 15:33
Date Received: 05/21/21 09:07

Lab Sample ID: 400-203723-2

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**250**		1.0		ug/L			05/24/21 18:26	1
Toluene	**50**		1.0		ug/L			05/24/21 18:26	1
Ethylbenzene	**4.1**		1.0		ug/L			05/24/21 18:26	1
Xylenes, Total	**72**		10		ug/L			05/24/21 18:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*78 - 118*		*05/24/21 18:26*	*1*
Dibromofluoromethane	*123*	*S1+*	*81 - 121*		*05/24/21 18:26*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*05/24/21 18:26*	*1*

Client Sample Results

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

Job ID: 400-203723-1

Client Sample ID: MW-1

Date Collected: 05/19/21 14:33
Date Received: 05/21/21 09:07

Lab Sample ID: 400-203723-3

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**260**		1.0		ug/L			05/24/21 18:50	1
Toluene	**52**		1.0		ug/L			05/24/21 18:50	1
Ethylbenzene	**4.1**		1.0		ug/L			05/24/21 18:50	1
Xylenes, Total	**72**		10		ug/L			05/24/21 18:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*78 - 118*		*05/24/21 18:50*	*1*
Dibromofluoromethane	*123*	*S1+*	*81 - 121*		*05/24/21 18:50*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*05/24/21 18:50*	*1*

Client Sample Results

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

Job ID: 400-203723-1

Client Sample ID: MW-3R
Date Collected: 05/19/21 14:43
Date Received: 05/21/21 09:07

Lab Sample ID: 400-203723-4
Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			05/24/21 19:14	1
Toluene	<1.0		1.0		ug/L			05/24/21 19:14	1
Ethylbenzene	<1.0		1.0		ug/L			05/24/21 19:14	1
Xylenes, Total	<10		10		ug/L			05/24/21 19:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*90*		*78 - 118*		*05/24/21 19:14*	*1*
Dibromofluoromethane	*98*		*81 - 121*		*05/24/21 19:14*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*05/24/21 19:14*	*1*

Client Sample Results

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

Job ID: 400-203723-1

Client Sample ID: MW-6

Date Collected: 05/19/21 14:53
Date Received: 05/21/21 09:07

Lab Sample ID: 400-203723-5

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			05/24/21 19:39	1
Toluene	<1.0		1.0		ug/L			05/24/21 19:39	1
Ethylbenzene	<1.0		1.0		ug/L			05/24/21 19:39	1
Xylenes, Total	<10		10		ug/L			05/24/21 19:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*78 - 118*		*05/24/21 19:39*	*1*
Dibromofluoromethane	*99*		*81 - 121*		*05/24/21 19:39*	*1*
Toluene-d8 (Surr)	*111*		*80 - 120*		*05/24/21 19:39*	*1*

Client Sample Results

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

Job ID: 400-203723-1

Client Sample ID: MW-10

Date Collected: 05/19/21 15:01
Date Received: 05/21/21 09:07

Lab Sample ID: 400-203723-6

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			05/24/21 20:03	1
Toluene	<1.0		1.0		ug/L			05/24/21 20:03	1
Ethylbenzene	<1.0		1.0		ug/L			05/24/21 20:03	1
Xylenes, Total	<10		10		ug/L			05/24/21 20:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*78 - 118*		*05/24/21 20:03*	*1*
Dibromofluoromethane	*96*		*81 - 121*		*05/24/21 20:03*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*05/24/21 20:03*	*1*

QC Association Summary

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

Job ID: 400-203723-1

GC/MS VOA

Analysis Batch: 532949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-203723-1	TB-01	Total/NA	Water	8260C	
400-203723-2	DUP-01	Total/NA	Water	8260C	
400-203723-3	MW-1	Total/NA	Water	8260C	
400-203723-4	MW-3R	Total/NA	Water	8260C	
400-203723-5	MW-6	Total/NA	Water	8260C	
400-203723-6	MW-10	Total/NA	Water	8260C	
MB 400-532949/4	Method Blank	Total/NA	Water	8260C	
LCS 400-532949/1002	Lab Control Sample	Total/NA	Water	8260C	
400-203718-A-3 MS	Matrix Spike	Total/NA	Water	8260C	
400-203718-A-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260C	

QC Sample Results

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

Job ID: 400-203723-1

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

Lab Sample ID: MB 400-532949/4
Matrix: Water
Analysis Batch: 532949

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			05/24/21 10:45	1
Toluene	<1.0		1.0		ug/L			05/24/21 10:45	1
Ethylbenzene	<1.0		1.0		ug/L			05/24/21 10:45	1
Xylenes, Total	<10		10		ug/L			05/24/21 10:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*78 - 118*		*05/24/21 10:45*	*1*
Dibromofluoromethane	*93*		*81 - 121*		*05/24/21 10:45*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*		*05/24/21 10:45*	*1*

Lab Sample ID: LCS 400-532949/1002
Matrix: Water
Analysis Batch: 532949

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	55.3		ug/L		111	70 - 130		
Toluene			50.0	51.5		ug/L		103	70 - 130		
Ethylbenzene			50.0	54.0		ug/L		108	70 - 130		
Xylenes, Total			100	108		ug/L		108	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*106*		*78 - 118*
Dibromofluoromethane	*98*		*81 - 121*
Toluene-d8 (Surr)	*100*		*80 - 120*

Lab Sample ID: 400-203718-A-3 MS
Matrix: Water
Analysis Batch: 532949

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	8.1		50.0	57.6		ug/L		99	56 - 142		
Toluene	2.3		50.0	50.4		ug/L		96	65 - 130		
Ethylbenzene	22		50.0	65.3		ug/L		86	58 - 131		
Xylenes, Total	88		100	163		ug/L		76	59 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*109*		*78 - 118*
Dibromofluoromethane	*102*		*81 - 121*
Toluene-d8 (Surr)	*112*		*80 - 120*

Lab Sample ID: 400-203718-A-3 MSD
Matrix: Water
Analysis Batch: 532949

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	8.1		50.0	55.7		ug/L		95	56 - 142	3	30
Toluene	2.3		50.0	43.7		ug/L		83	65 - 130	14	30
Ethylbenzene	22		50.0	61.8		ug/L		79	58 - 131	5	30

QC Sample Results

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

Job ID: 400-203723-1

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

Lab Sample ID: 400-203718-A-3 MSD
Matrix: Water
Analysis Batch: 532949

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Xylenes, Total	88		100	160		ug/L		72	59 - 130	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*103*		*78 - 118*
Dibromofluoromethane	*104*		*81 - 121*
Toluene-d8 (Surr)	*104*		*80 - 120*

Lab Chronicle

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

Job ID: 400-203723-1

Client Sample ID: TB-01
Lab Sample ID: 400-203723-1
Date Collected: 05/19/21 14:00
Matrix: Water
Date Received: 05/21/21 09:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	532949	05/24/21 18:02	CAR	TAL PEN
	Instrument ID: Argo									

Client Sample ID: DUP-01
Lab Sample ID: 400-203723-2
Date Collected: 05/19/21 15:33
Matrix: Water
Date Received: 05/21/21 09:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	532949	05/24/21 18:26	CAR	TAL PEN
	Instrument ID: Argo									

Client Sample ID: MW-1
Lab Sample ID: 400-203723-3
Date Collected: 05/19/21 14:33
Matrix: Water
Date Received: 05/21/21 09:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	532949	05/24/21 18:50	CAR	TAL PEN
	Instrument ID: Argo									

Client Sample ID: MW-3R
Lab Sample ID: 400-203723-4
Date Collected: 05/19/21 14:43
Matrix: Water
Date Received: 05/21/21 09:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	532949	05/24/21 19:14	CAR	TAL PEN
	Instrument ID: Argo									

Client Sample ID: MW-6
Lab Sample ID: 400-203723-5
Date Collected: 05/19/21 14:53
Matrix: Water
Date Received: 05/21/21 09:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	532949	05/24/21 19:39	CAR	TAL PEN
	Instrument ID: Argo									

Client Sample ID: MW-10
Lab Sample ID: 400-203723-6
Date Collected: 05/19/21 15:01
Matrix: Water
Date Received: 05/21/21 09:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	532949	05/24/21 20:03	CAR	TAL PEN
	Instrument ID: Argo									

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 400-203723-1

Laboratory: Eurofins TestAmerica, 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	06-30-21
ANAB	ISO/IEC 17025	L2471	02-23-23
Arizona	State	AZ0710	01-12-22
Arkansas DEQ	State	88-0689	09-02-21
California	State	2510	06-30-21
Florida	NELAP	E81010	06-30-21
Georgia	State	E81010(FL)	06-30-21
Illinois	NELAP	200041	10-09-21
Iowa	State	367	08-01-22
Kansas	NELAP	E-10253	10-31-21
Kentucky (UST)	State	53	06-30-21
Kentucky (WW)	State	KY98030	12-31-21
Louisiana	NELAP	30976	06-30-21
Louisiana (DW)	State	LA017	12-31-21
Maryland	State	233	09-30-21
Massachusetts	State	M-FL094	06-30-21
Michigan	State	9912	06-30-21
New Jersey	NELAP	FL006	06-30-21
North Carolina (WW/SW)	State	314	12-31-21
Oklahoma	State	9810	08-31-21
Pennsylvania	NELAP	68-00467	01-31-22
Rhode Island	State	LAO00307	12-30-21
South Carolina	State	96026	06-30-21
Tennessee	State	TN02907	06-30-21
Texas	NELAP	T104704286	09-30-21
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-21
Washington	State	C915	05-15-22
West Virginia DEP	State	136	06-30-21

Method Summary

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

Job ID: 400-203723-1

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

Protocol References:

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

Laboratory References:

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

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

Chain of Custody Record

400-203723 COC

eurofins | Environment Testing America

Client Information	Sampler: SRC MW	Lab PM: Edwards, Marty P	Carrier Tracking No(s):	COC No: 400-102805-36540.1
Client Contact: Steve Varsa	Phone: 913 980 0281	E-Mail: Marty.Edwards@Eurofinset.com	State of Origin:	Page: Page 1 of 1
Company: Stantec Consulting Services Inc	PWSID:			Job #:
Address: 11153 Aurora Avenue	Due Date Requested:			
City: Des Moines	TAT Requested (days): STD			
State, Zip: IA, 50322-7904	Compliance Project: Δ Yes Δ No			
Phone: 303-291-2239(Tel)	PO #: See Project Notes			
Email: steve.varsa@stantec.com	WO #:			
Project Name: K27 LD072.00	Project #: 40005479			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

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

Other:

W-ERH-STN-05-06-21
SRC-09

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Y)	8260C - (MOD) BTEX 8260	8260C - (MOD) BTEX 8260 (unpreserved)	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
TB-01	5/19/2021	1400	G	Water			2		2	Trip Blank
DUP-01	5/19/2021	1533	G	Water			3		3	Duplicate
MW-1	5/19/2021	1433	G	Water			3		3	
MW-3R	5/19/2021	1443	G	Water			3		3	
MW-6	5/19/2021	1453	G	Water			3		3	
MW-10	5/19/2021	1501	G	Water			3		3	
				Water						
				Water						

SRC

SRC

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

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

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

Special Instructions/QC Requirements:

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	5/20/2021 0800	STN	Fedex	5/20/2021 0800	Fedex
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 5/21/21 0907	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

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

Cooler Temperature(s) °C and Other Remarks: 3.5°C IR8

Ver: 11/01/2020

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc Job Number: 400-203723-1

Login Number: 203723 **List Source: Eurofins TestAmerica, Pensacola**
List Number: 1
Creator: Perez, Trina M

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.5°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	

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 400-211182-1
Client Project/Site: K27 LD072

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

Attn: Steve Varsa

Cheyenne Whitmire

Authorized for release by:
11/29/2021 9:14:19 PM

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

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

Laboratory Job ID: 400-211182-1

Table of Contents

Definitions/Glossary

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

Job ID: 400-211182-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

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

Job ID: 400-211182-1

Job ID: 400-211182-1

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

Job Narrative
400-211182-1

Comments
No additional comments.

Receipt
The samples were received on 11/13/2021 9:08 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 1.4º C.

GC/MS VOA
Method 8260C: The matrix spike (MS) recoveries for analytical batch 400-556189 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8260C: Surrogate recovery for the following sample was outside control limits: MW-7 (400-211182-4). Evidence of matrix interference due to non-target analytes is present; therefore, re-extraction and/or re-analysis was not performed.

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

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

Job ID: 400-211182-1

Client Sample ID: TB-01 — Lab Sample ID: 400-211182-1

No Detections.

Client Sample ID: DUP-01 — Lab Sample ID: 400-211182-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	3.2		1.0		ug/L	1		8260C	Total/NA
Xylenes, Total	35		10		ug/L	1		8260C	Total/NA

Client Sample ID: MW-3R — Lab Sample ID: 400-211182-3

No Detections.

Client Sample ID: MW-7 — Lab Sample ID: 400-211182-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	2.4		1.0		ug/L	1		8260C	Total/NA
Xylenes, Total	30		10		ug/L	1		8260C	Total/NA

Client Sample ID: MW-10 — Lab Sample ID: 400-211182-5

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Pensacola

Sample Summary

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

Job ID: 400-211182-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-211182-1	TB-01	Water	11/11/21 10:00	11/13/21 09:08
400-211182-2	DUP-01	Water	11/11/21 11:58	11/13/21 09:08
400-211182-3	MW-3R	Water	11/11/21 11:10	11/13/21 09:08
400-211182-4	MW-7	Water	11/11/21 10:58	11/13/21 09:08
400-211182-5	MW-10	Water	11/11/21 11:21	11/13/21 09:08

Client Sample Results

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

Job ID: 400-211182-1

Client Sample ID: TB-01

Date Collected: 11/11/21 10:00
Date Received: 11/13/21 09:08

Lab Sample ID: 400-211182-1

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/21/21 16:23	1
Toluene	<1.0		1.0		ug/L			11/21/21 16:23	1
Ethylbenzene	<1.0		1.0		ug/L			11/21/21 16:23	1
Xylenes, Total	<10		10		ug/L			11/21/21 16:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*72 - 119*		*11/21/21 16:23*	*1*
Dibromofluoromethane	*109*		*75 - 126*		*11/21/21 16:23*	*1*
Toluene-d8 (Surr)	*93*		*64 - 132*		*11/21/21 16:23*	*1*

Client Sample Results

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

Job ID: 400-211182-1

Client Sample ID: DUP-01

Date Collected: 11/11/21 11:58
Date Received: 11/13/21 09:08

Lab Sample ID: 400-211182-2

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/17/21 11:24	1
Toluene	<1.0		1.0		ug/L			11/17/21 11:24	1
Ethylbenzene	**3.2**		1.0		ug/L			11/17/21 11:24	1
Xylenes, Total	**35**		10		ug/L			11/17/21 11:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*109*		*72 - 119*		*11/17/21 11:24*	*1*
Dibromofluoromethane	*101*		*75 - 126*		*11/17/21 11:24*	*1*
Toluene-d8 (Surr)	*123*		*64 - 132*		*11/17/21 11:24*	*1*

Client Sample Results

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

Job ID: 400-211182-1

Client Sample ID: MW-3R

Date Collected: 11/11/21 11:10
Date Received: 11/13/21 09:08

Lab Sample ID: 400-211182-3

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/17/21 10:57	1
Toluene	<1.0		1.0		ug/L			11/17/21 10:57	1
Ethylbenzene	<1.0	F1	1.0		ug/L			11/17/21 10:57	1
Xylenes, Total	<10	F1	10		ug/L			11/17/21 10:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*90*		*72 - 119*		*11/17/21 10:57*	*1*
Dibromofluoromethane	*109*		*75 - 126*		*11/17/21 10:57*	*1*
Toluene-d8 (Surr)	*104*		*64 - 132*		*11/17/21 10:57*	*1*

Client Sample Results

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

Job ID: 400-211182-1

Client Sample ID: MW-7

Date Collected: 11/11/21 10:58
Date Received: 11/13/21 09:08

Lab Sample ID: 400-211182-4

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/17/21 11:50	1
Toluene	<1.0		1.0		ug/L			11/17/21 11:50	1
Ethylbenzene	**2.4**		1.0		ug/L			11/17/21 11:50	1
Xylenes, Total	**30**		10		ug/L			11/17/21 11:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*125*	*S1+*	*72 - 119*		*11/17/21 11:50*	*1*
Dibromofluoromethane	*101*		*75 - 126*		*11/17/21 11:50*	*1*
Toluene-d8 (Surr)	*128*		*64 - 132*		*11/17/21 11:50*	*1*

Client Sample Results

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

Job ID: 400-211182-1

Client Sample ID: MW-10

Date Collected: 11/11/21 11:21
Date Received: 11/13/21 09:08

Lab Sample ID: 400-211182-5

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/21/21 13:03	1
Toluene	<1.0		1.0		ug/L			11/21/21 13:03	1
Ethylbenzene	<1.0		1.0		ug/L			11/21/21 13:03	1
Xylenes, Total	<10		10		ug/L			11/21/21 13:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*72 - 119*		*11/21/21 13:03*	*1*
Dibromofluoromethane	*101*		*75 - 126*		*11/21/21 13:03*	*1*
Toluene-d8 (Surr)	*96*		*64 - 132*		*11/21/21 13:03*	*1*

QC Association Summary

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

Job ID: 400-211182-1

GC/MS VOA

Analysis Batch: 556189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-211182-2	DUP-01	Total/NA	Water	8260C	
400-211182-3	MW-3R	Total/NA	Water	8260C	
400-211182-4	MW-7	Total/NA	Water	8260C	
MB 400-556189/4	Method Blank	Total/NA	Water	8260C	
LCS 400-556189/1002	Lab Control Sample	Total/NA	Water	8260C	
400-211182-3 MS	MW-3R	Total/NA	Water	8260C	
400-211182-3 MSD	MW-3R	Total/NA	Water	8260C	

Analysis Batch: 556824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-211182-1	TB-01	Total/NA	Water	8260C	
400-211182-5	MW-10	Total/NA	Water	8260C	
MB 400-556824/4	Method Blank	Total/NA	Water	8260C	
LCS 400-556824/1002	Lab Control Sample	Total/NA	Water	8260C	
400-211182-5 MS	MW-10	Total/NA	Water	8260C	
400-211182-5 MSD	MW-10	Total/NA	Water	8260C	

QC Sample Results

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

Job ID: 400-211182-1

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

Lab Sample ID: MB 400-556189/4
Matrix: Water
Analysis Batch: 556189

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/17/21 10:32	1
Toluene	<1.0		1.0		ug/L			11/17/21 10:32	1
Ethylbenzene	<1.0		1.0		ug/L			11/17/21 10:32	1
Xylenes, Total	<10		10		ug/L			11/17/21 10:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*88*		*72 - 119*		*11/17/21 10:32*	*1*
Dibromofluoromethane	*108*		*75 - 126*		*11/17/21 10:32*	*1*
Toluene-d8 (Surr)	*101*		*64 - 132*		*11/17/21 10:32*	*1*

Lab Sample ID: LCS 400-556189/1002
Matrix: Water
Analysis Batch: 556189

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	51.1		ug/L		102	70 - 130		
Toluene			50.0	56.9		ug/L		114	70 - 130		
Ethylbenzene			50.0	58.2		ug/L		116	70 - 130		
Xylenes, Total			100	116		ug/L		116	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*85*		*72 - 119*
Dibromofluoromethane	*100*		*75 - 126*
Toluene-d8 (Surr)	*103*		*64 - 132*

Lab Sample ID: 400-211182-3 MS
Matrix: Water
Analysis Batch: 556189

Client Sample ID: MW-3R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<1.0		50.0	58.7		ug/L		117	56 - 142		
Toluene	<1.0		50.0	64.8		ug/L		130	65 - 130		
Ethylbenzene	<1.0	F1	50.0	65.8	F1	ug/L		132	58 - 131		
Xylenes, Total	<10	F1	100	131	F1	ug/L		131	59 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*89*		*72 - 119*
Dibromofluoromethane	*101*		*75 - 126*
Toluene-d8 (Surr)	*104*		*64 - 132*

Lab Sample ID: 400-211182-3 MSD
Matrix: Water
Analysis Batch: 556189

Client Sample ID: MW-3R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<1.0		50.0	57.2		ug/L		114	56 - 142	3	30
Toluene	<1.0		50.0	63.5		ug/L		127	65 - 130	2	30
Ethylbenzene	<1.0	F1	50.0	63.4		ug/L		127	58 - 131	4	30

QC Sample Results

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

Job ID: 400-211182-1

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

Lab Sample ID: 400-211182-3 MSD
Matrix: Water
Analysis Batch: 556189

Client Sample ID: MW-3R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Xylenes, Total	<10	F1	100	128		ug/L		128	59 - 130	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*91*		*72 - 119*
Dibromofluoromethane	*100*		*75 - 126*
Toluene-d8 (Surr)	*105*		*64 - 132*

Lab Sample ID: MB 400-556824/4
Matrix: Water
Analysis Batch: 556824

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/21/21 12:34	1
Toluene	<1.0		1.0		ug/L			11/21/21 12:34	1
Ethylbenzene	<1.0		1.0		ug/L			11/21/21 12:34	1
Xylenes, Total	<10		10		ug/L			11/21/21 12:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*72 - 119*		*11/21/21 12:34*	*1*
Dibromofluoromethane	*106*		*75 - 126*		*11/21/21 12:34*	*1*
Toluene-d8 (Surr)	*94*		*64 - 132*		*11/21/21 12:34*	*1*

Lab Sample ID: LCS 400-556824/1002
Matrix: Water
Analysis Batch: 556824

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			50.0	45.3		ug/L		91	70 - 130		
Toluene			50.0	48.5		ug/L		97	70 - 130		
Ethylbenzene			50.0	44.3		ug/L		89	70 - 130		
Xylenes, Total			100	90.8		ug/L		91	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*72 - 119*
Dibromofluoromethane	*103*		*75 - 126*
Toluene-d8 (Surr)	*103*		*64 - 132*

Lab Sample ID: 400-211182-5 MS
Matrix: Water
Analysis Batch: 556824

Client Sample ID: MW-10
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<1.0		50.0	44.3		ug/L		89	56 - 142		
Toluene	<1.0		50.0	44.8		ug/L		90	65 - 130		
Ethylbenzene	<1.0		50.0	39.0		ug/L		78	58 - 131		
Xylenes, Total	<10		100	81.1		ug/L		81	59 - 130		

QC Sample Results

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

Job ID: 400-211182-1

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

Lab Sample ID: 400-211182-5 MS
Matrix: Water
Analysis Batch: 556824

Client Sample ID: MW-10
Prep Type: Total/NA

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

Lab Sample ID: 400-211182-5 MSD
Matrix: Water
Analysis Batch: 556824

Client Sample ID: MW-10
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<1.0		50.0	47.0		ug/L		94	56 - 142	6	30
Toluene	<1.0		50.0	50.1		ug/L		100	65 - 130	11	30
Ethylbenzene	<1.0		50.0	45.6		ug/L		91	58 - 131	16	30
Xylenes, Total	<10		100	94.2		ug/L		94	59 - 130	15	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene	*101*		*72 - 119*
Dibromofluoromethane	*107*		*75 - 126*
Toluene-d8 (Surr)	*105*		*64 - 132*

Lab Chronicle

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

Job ID: 400-211182-1

Client Sample ID: TB-01 — Lab Sample ID: 400-211182-1

Date Collected: 11/11/21 10:00 — **Matrix: Water**
Date Received: 11/13/21 09:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	556824	11/21/21 16:23	BPO	TAL PEN
	Instrument ID: Einstein									

Client Sample ID: DUP-01 — Lab Sample ID: 400-211182-2

Date Collected: 11/11/21 11:58 — **Matrix: Water**
Date Received: 11/13/21 09:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	556189	11/17/21 11:24	BPO	TAL PEN
	Instrument ID: CH_TAN									

Client Sample ID: MW-3R — Lab Sample ID: 400-211182-3

Date Collected: 11/11/21 11:10 — **Matrix: Water**
Date Received: 11/13/21 09:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	556189	11/17/21 10:57	BPO	TAL PEN
	Instrument ID: CH_TAN									

Client Sample ID: MW-7 — Lab Sample ID: 400-211182-4

Date Collected: 11/11/21 10:58 — **Matrix: Water**
Date Received: 11/13/21 09:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	556189	11/17/21 11:50	BPO	TAL PEN
	Instrument ID: CH_TAN									

Client Sample ID: MW-10 — Lab Sample ID: 400-211182-5

Date Collected: 11/11/21 11:21 — **Matrix: Water**
Date Received: 11/13/21 09:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	556824	11/21/21 13:03	BPO	TAL PEN
	Instrument ID: Einstein									

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 400-211182-1

Laboratory: Eurofins TestAmerica, Pensacola

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

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-22
ANAB	ISO/IEC 17025	L2471	02-23-23
Arizona	State	AZ0710	01-12-22
Arkansas DEQ	State	88-0689	09-01-22
California	State	2510	06-30-22
Florida	NELAP	E81010	06-30-22
Georgia	State	E81010(FL)	06-30-22
Illinois	NELAP	200041	10-09-22
Iowa	State	367	08-01-22
Kansas	NELAP	E-10253	11-30-21
Kentucky (UST)	State	53	06-30-22
Kentucky (WW)	State	KY98030	12-31-21
Louisiana	NELAP	30976	06-30-22
Louisiana (DW)	State	LA017	12-31-21
Maryland	State	233	09-30-22
Massachusetts	State	M-FL094	06-30-22
Michigan	State	9912	06-30-22
New Jersey	NELAP	FL006	06-30-22
North Carolina (WW/SW)	State	314	12-31-21
Oklahoma	State	9810	08-31-22
Pennsylvania	NELAP	68-00467	01-31-22
Rhode Island	State	LAO00307	12-30-21
South Carolina	State	96026	06-30-22
Tennessee	State	TN02907	06-30-22
Texas	NELAP	T104704286	09-30-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-22
Washington	State	C915	05-15-22
West Virginia DEP	State	136	12-31-21

Method Summary

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

Job ID: 400-211182-1

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

Protocol References:

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

Laboratory References:

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

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: SRL	Lab PM: Edwards, Marty P	Carrier Tracking No(s):	COC No: 400-105802-37677.1
Client Contact: Steve Varsa	Phone: 913-980-0281	E-Mail: Marty.Edwards@Eurofinset.com	State of Origin:	Page: Page 1 of 1
Company: Stantec Consulting Services Inc	PWSID:			Job #:
Address: 11311 Aurora Avenue	Due Date Requested:			
City: Des Moines	TAT Requested (days):			
State, Zip: IA, 50322-7904	Compliance Project: Δ Yes Δ No			
Phone: 303-291-2239(Tel)	PO #: WD801937			
Email: steve.varsa@stantec.com	WO #:			
Project Name: K27 LD072.00	Project #: 40005479			
Site:	SSOW#:			

W-SRL-STW-10-21-21
SAH-09

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Preservation Code	Field Filtered Sample (Yes or No)	Perform MS/MS	8260C - (MOD) BTEX 8260	8260C - (MOD) BTEX 8260 (unpreserved)	Total Number of containers	Special Instructions/Note:
TB-01	11/11/21	1000	G	Water		N		2		2	Trip Blank
DUP-01	11/11/21	1158	G	Water		N		3		3	Blind Dup
MW-3R	11/11/21	1110	G	Water		N		3		3	
MW-7	11/11/21	1058	G	Water		N		3		3	
MW-10	11/11/21	1121	G	Water		N		3		3	
				Water							
				Water							
				Water							

400-211182 COC

Analysis Requested

Preservation Codes:

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

Other:

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 ...
☐ 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
	Sam N Clay	11/12/21 1230	STW			
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 11.13.21 0908	Company

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

Cooler Temperature(s) °C and Other Remarks: 01.4 oz IR7

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc Job Number: 400-211182-1

Login Number: 211182 **List Source: Eurofins TestAmerica, Pensacola**
List Number: 1
Creator: Whitley, Adrian

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.4°C IR7
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	

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 94475

CONDITIONS

Operator:	OGRID:
El Paso Natural Gas Company, L.L.C 1001 Louisiana Street Houston, TX 77002	7046
	Action Number: 94475
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Accepted for the record. Please see App ID 201738 for most updated status.	5/22/2023