2021 ANNUAL GROUNDWATER REPORT

Knight #1
Incident Number: nAUTOfAB000324
Meter Code: 72556
T30N, R13W, Sec5, Unit A

SITE DETAILS

Site Location: Latitude: 36.846870 N, Longitude: -108.222305 W
Land Type: Private/Fee
Former Operator: Fuller Production (Well P&A'd)

SITE BACKGROUND

Environmental Remediation activities at Knight #1 (Site) are managed pursuant to the procedures set forth in the document entitled, "*Remediation Plan for Groundwater Encountered During Pit Closure Activities*" (Remediation Plan, El Paso Natural Gas Company / El Paso Field Services Company, 1995). This Remediation Plan was conditionally approved by the New Mexico Oil Conservation Division (NMOCD) in correspondence dated November 30, 1995; and the NMOCD approval conditions were adopted into El Paso CGP Company, LLC's (EPCGP's) program methods. Formerly, the Site was operated by Fuller Production, Inc. and is no longer active. The wellhead was plugged and abandoned in August 2006.

The Site is located on Private/Fee land, and the current owner is R. McGee Ranches, Ltd. (McGee). An initial site assessment was completed in January 1995, and an excavation of 60 cubic yards (cy), to a depth of approximately 12 feet below ground surface (bgs), was completed in January 1995. An ORC nutrient injection was completed in November 1996. Monitoring wells were installed in 1995 (MW-1 through MW-4), 2000 (MW-5), and 2015 (MW-6 through MW-13). A soil assessment was completed in 2016 (GP-1 through GP-24). Two additional monitoring wells (MW-14 and MW-15), one soil vapor extraction (SVE) test well (SVE-1), and two air sparge (AS) test wells (AS-1 and AS-2) were installed in April 2018. AS and SVE feasibility testing was conducted in May 2018. Fourteen additional AS wells (AS-3 through AS-16) and seven additional SVE wells (SVE-2 through SVE-10) were installed in September 2019. In November 2020, AS and SVE piping and associated infrastructure were installed at the Site.

The location of the Site is depicted on Figure 1. A Site Plan map depicting the locations of monitoring wells, the remediation well and piping layout, and current and historical site features is provided as Figure 2. Light non-aqueous phase liquid (LNAPL) has been periodically observed and recovered at the Site. 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 the NMOCD on May 12, 2021 and November 3, 2021, prior to initiating groundwater sampling activities at the Site. Copies of the 2021 NMOCD notifications are provided in Appendix A. Groundwater monitoring and sampling was completed on May 21 and November 12, 2021. During each sampling event, water levels were gauged from monitoring wells MW-1 through MW-15. Monitoring wells MW-1, MW-2, MW-7, MW-10, MW-11, MW-13, and MW-15 were sampled in May and November 2021. Monitoring wells MW-3, MW-5, MW-6, MW-8, MW-9, and MW-14 were also sampled in November 2021. LNAPL was detected in MW-4 during the November 2021 sampling event and no groundwater sample was collected

Groundwater samples were collected from selected monitoring wells using HydraSleeve™ (HydraSleeve) no-purge groundwater sampling devices. The HydraSleeves were set during the previous sampling event. HydraSleeves were suspended approximately 0.5 foot above the bottom of the well screen using a suspension tether and stainless-steel weights to collect a sample from the screened interval.

2021 ANNUAL GROUNDWATER REPORT

Knight #1
Incident Number: nAUTOfAB000324
Meter Code: 72556
T30N, R13W, Sec5, Unit A

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

The unused sample water was combined in a waste container and taken to Basin Disposal, Inc. in Bloomfield, New Mexico (Basin) for disposal. Wastewater 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 quarterly LNAPL recovery was continued during 2021. Documentation of NMOCD notification of site activities is provided in Appendix A.

The LNAPL recovery data is summarized on Table 1. During the groundwater sampling site visits, the recovered LNAPL was disposed of with wastewater generated during the monitoring well sampling activities. Recovered LNAPL from the March site visit 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 Appendix C.

GROUNDWATER RESULTS

- Groundwater elevations indicate the groundwater flow direction at the Site was generally to the south south-west during 2021 (see Figures 4 and 6).
- LNAPL was observed in MW-4 and MW-12 during the November semi-annual groundwater sampling event; therefore, a groundwater sample was not collected from these locations in November 2021.
- Groundwater samples collected during both events in 2021 from MW-1 and MW-11, and during the November event from MW-2 and MW-3, exceeded the New Mexico Water Quality Control Commission (NMWQCC) standard (10 µg/L) for benzene in groundwater. Benzene concentrations were either below the NMWQCC standard or were not detected in other 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 concentrations were either below the NMQCC standard (620 µg/L) or were not detected in site monitoring wells sampled in 2021.
- A field duplicate was collected from MW-1 for the May and November 2021 semi-annual monitoring event. No significant differences were noted between the primary and the 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

Semi-annual groundwater monitoring is to continue in 2022. 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 to be conducted in the fourth calendar quarter of 2022.

EPCGP continues to coordinate with the property owner to obtain access to have electrical service brought to the Site, and having retrofits completed on a Kinder Morgan-owned remediation system before it is brought to the Site. As requested on January 4, 2022, a work plan detailing the proposed AS/SVE system installation activities will be submitted to the NMOCD under separate cover.

Until the AS/SVE remediation system is operating, manual recovery of LNAPL will continue on a quarterly basis from monitoring wells where measurable LNAPL is present.

The activities completed 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
Knight #1

Well ID - MW-4	Depth to LNAPL (Feet)	Depth to Water (Feet)	Measured Thickness (Feet)	LNAPL Recovered (gal)	Water Recovered (gal)	Recovery Type
Date						
5/27/2015	20.58	20.58	<0.01	<0.01	0.1	manual
11/17/2015	23.07	23.64	0.57	0.5	NR	manual
10/11/2016	21.93	22.55	0.62	0.13	0.03	manual
6/6/2017	23.02	23.74	0.72	0.01	<0.01	manual
7/24/2017	24.30	24.78	0.48	1.8	2036	Mobile DPE*
5/17/2018	23.77	23.79	0.02	<0.01	<0.01	manual
10/29/2018	26.74	27.00	0.26	<0.01	<0.01	manual
5/20/2019	26.25	26.25	<0.01	<0.01	<0.01	manual
11/14/2019	25.76	25.89	0.13	0.13	0.50	manual
8/18/2020	24.98	24.98	<0.01	<0.01	0.26	manual
11/12/2021	27.32	27.35	0.03	0.01	0.09	manual
			Total:	2.6	2037	

Well ID - MW-11						
6/6/2017	23.87	23.99	0.12	0.01	<0.01	manual
7/25/2017	25.45	25.46	0.01	1.2	71	Mobile DPE*
			Total:	1.2	71	

Well ID - MW-12						
6/6/2017	22.21	22.22	0.01	0.01	<0.01	manual
7/24/2017	22.30	22.31	0.01	5	1193	Mobile DPE*
5/20/2019	25.32	25.44	0.12	0.01	0.48	manual
11/14/2019	24.77	24.84	0.07	<0.01	0.13	manual
11/11/2020	24.40	24.42	0.02	<0.01	0.24	manual
3/17/2021	24.54	24.55	0.01	<0.01	0.10	manual
5/21/2021	24.89	24.91	0.02	<0.01	0.05	manual
11/12/2021	26.33	26.34	0.01	<0.01	0.13	manual
			Total:	5.0	1194	

Well ID - MW-13						
6/6/2017	19.99	19.99	<0.01	<0.01	0.1	manual
			Total:	<0.01	0.1	

Notes:
gal = gallons.
NR = Not Recorded.
* = Mobile Duel Phase Extraction (DPE) includes calculated recovered hydrocarbon vapors.
LNAPL = Light non-aqueous phase liquid
LNAPL recovery data for 2014 and previous years documented in previously-submitted reports.

TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

Knight #1					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-1	10/16/95	5080	1180	1050	9970
MW-1	12/12/95	4330	679	1010	8560
MW-1	04/09/96	5490	208	1100	7370
MW-1	07/17/96	6450	279	990	9060
MW-1	10/15/96	9870	840	1120	10900
MW-1	01/13/97	7760	332	914	10900
MW-1	04/22/97	2700	<1	492	6690
MW-1	07/14/97	3900	36.7	530	6700
MW-1	10/22/97	4270	48.7	728	8580
MW-1	01/09/98	4750	24.2	819	9480
MW-1	04/24/98	5610	44.7	898	9530
MW-1	04/16/99	7340	42.8	853	10600
MW-1	04/19/00	9400	510	4300	66000
MW-1	09/05/01	NS	NS	NS	NS
MW-1	09/11/01	NS	NS	NS	NS
MW-1	09/04/02	NS	NS	NS	NS
MW-1	12/10/02	NS	NS	NS	NS
MW-1	03/20/03	NS	NS	NS	NS
MW-1	06/19/03	NS	NS	NS	NS
MW-1	09/17/03	NS	NS	NS	NS
MW-1	12/09/03	NS	NS	NS	NS
MW-1	03/15/04	NS	NS	NS	NS
MW-1	09/15/04	NS	NS	NS	NS
MW-1	03/16/05	NS	NS	NS	NS
MW-1	09/19/05	4430	23.7	487	7370
MW-1	03/27/06	4410	26.6 J	337	7860
MW-1	09/26/06	5880	36.5	633	11000
MW-1	03/28/07	3740	<50	441	9210
MW-1	09/17/07	4640	93.3	444	8180
MW-1	03/04/08	NS	NS	NS	NS
MW-1	09/09/08	3230	<50	324	6780
MW-1	03/02/09	NS	NS	NS	NS
MW-1	08/27/09	2790	8.3 J	1190	12500
MW-1	02/11/10	NS	NS	NS	NS
MW-1	05/21/10	NS	NS	NS	NS
MW-1	09/29/10	2910	<50	1600	15000
MW-1	11/02/10	NS	NS	NS	NS
MW-1	02/02/11	NS	NS	NS	NS
MW-1	05/04/11	NS	NS	NS	NS
MW-1	09/30/11	1590	5 J	1120	10600
MW-1	11/11/11	NS	NS	NS	NS
MW-1	02/16/12	NS	NS	NS	NS

TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

Knight #1					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-1	05/08/12	NS	NS	NS	NS
MW-1	06/07/13	830	<60	1100	14000
MW-1	09/13/13	810	<60	960	3100
MW-1	12/13/13	600	25 J	730	2200
MW-1	04/03/14	330	28	<0.20	1400
MW-1	10/21/14	380	<7.0	<5.0	3000
MW-1	05/27/15	110	<100	1300	11000
MW-1	11/17/15	220	6.9	770	710
MW-1	04/15/16	110	<25	910	1000
MW-1	10/11/16	110	<25	460	100
MW-1	06/06/17	120	<25	350	36
MW-1	11/10/17	89	2.3	74	200
MW-1	05/17/18	<1.0	<1.0	<1.0	<10
DP-01(MW-1)*	05/17/18	<1.0	<1.0	<1.0	<10
MW-1	10/29/18	160	<2.0	250	280
MW-1	05/20/19	170	<1.0	56	94
MW-1	11/14/19	180	<1.0	120	120
MW-1	05/14/20	72	<1.0	<1.0	90
MW-1	11/11/20	170	<1.0	210	67
(DUP-01)MW-1	11/11/20	160	<1.0	220	75
MW-1	05/21/21	100	<1.0	67	13
(DUP-01)MW-1	05/21/21	100	<1.0	71	12
MW-1	11/12/21	100	<1.0	31	11
(DUP-01)MW-1	11/12/21	110	<1.0	39	14
MW-2	12/12/95	175	<12.5	74.3	671
MW-2	04/09/96	39.2	<1	13.4	77.9
MW-2	07/17/96	9.55	<1	2.39	3.65
MW-2	10/15/96	49.7	<1	<1	38.4
MW-2	01/13/97	20.3	<1	<1	37.3
MW-2	04/22/97	19.4	<1	<1	29.8
MW-2	10/22/97	155	<1	12.6	204
MW-2	01/09/98	58	<1	3.85	207
MW-2	04/24/98	19.4	<1	<1	40.7
MW-2	02/09/99	19	<1	<1	48
MW-2	04/16/99	16.7	<1	<1	41
MW-2	04/19/00	23	0.5	<0.5	26
MW-2	09/11/01	110	<0.5	17	200
MW-2	09/04/02	269	7.4	48.9	482.4
MW-2	12/10/02	NS	NS	NS	NS
MW-2	06/19/03	NS	NS	NS	NS
MW-2	09/17/03	177	<1	41	343

TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

Knight #1					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-2	12/09/03	NS	NS	NS	NS
MW-2	03/15/04	NS	NS	NS	NS
MW-2	09/15/04	291	<0.5	48.9	431
MW-2	03/16/05	NS	NS	NS	NS
MW-2	09/19/05	126	<1	9.5	231
MW-2	03/27/06	NS	NS	NS	NS
MW-2	09/26/06	95.8	<1	5.5	189
MW-2	03/28/07	NS	NS	NS	NS
MW-2	09/17/07	317	<1	12.5	354
MW-2	03/04/08	NS	NS	NS	NS
MW-2	09/09/08	34.3	<1	1.1	71.9
MW-2	03/02/09	NS	NS	NS	NS
MW-2	08/27/09	26.6	1.3	1.6	9
MW-2	02/11/10	NS	NS	NS	NS
MW-2	05/21/10	NS	NS	NS	NS
MW-2	09/29/10	100	<2	J1.5	34.8
MW-2	11/02/10	NS	NS	NS	NS
MW-2	02/02/11	NS	NS	NS	NS
MW-2	05/04/11	NS	NS	NS	NS
MW-2	09/30/11	26.6	<1	1	9.5
MW-2	11/11/11	NS	NS	NS	NS
MW-2	02/16/12	NS	NS	NS	NS
MW-2	05/08/12	NS	NS	NS	NS
MW-2	06/07/13	200	<0.30	4.4	21
MW-2	09/13/13	120	<0.30	17	150
MW-2	12/13/13	27	3	5.5	74
MW-2	04/03/14	120	3.2 J	12	190
MW-2	10/21/14	0.64 J	<0.70	<0.50	<1.6
MW-2	05/27/15	190	2.5 J	18	59
MW-2	11/17/15	34	<1.0	<1.0	<3.0
MW-2	04/15/16	7.8	<5.0	<1.0	<5.0
MW-2	10/11/16	2	<5.0	<1.0	<5.0
MW-2	06/06/17	1.0	<5.0	<1.0	<5.0
MW-2	11/10/17	<1.0	<1.0	<1.0	<10
MW-2	05/17/18	<1.0	<1.0	<1.0	<10
MW-2	10/29/18	<1.0	<1.0	<1.0	<10
MW-2	05/20/19	58.0	<1.0	<1.0	<10
MW-2	11/14/19	5.4	<1.0	<1.0	<10
MW-2	05/14/20	<1.0	<1.0	<1.0	<10
MW-2	11/11/20	<1.0	<1.0	<1.0	<10
MW-2	05/21/21	<1.0	<1.0	<1.0	<10
MW-2	11/12/21	28	<1.0	2.4	20

TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

Knight #1					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-3	12/12/95	979	<125	398	2540
MW-3	04/09/96	328	<1	132	369
MW-3	07/17/96	299	<1	76.7	251
MW-3	01/13/97	395	<1	126	955
MW-3	07/14/97	499	<1	104	583
MW-3	10/22/97	817	7.22	141	869
MW-3	01/09/98	702	<1	185	1080
MW-3	04/24/98	377	11.8	126	525
MW-3	04/16/99	191	4.11	18.1	169
MW-3	04/19/00	40	0.6	1.1	28
MW-3	09/05/01	NS	NS	NS	NS
MW-3	09/11/01	NS	NS	NS	NS
MW-3	09/04/02	NS	NS	NS	NS
MW-3	12/10/02	NS	NS	NS	NS
MW-3	06/19/03	NS	NS	NS	NS
MW-3	09/17/03	NS	NS	NS	NS
MW-3	12/09/03	NS	NS	NS	NS
MW-3	03/15/04	NS	NS	NS	NS
MW-3	09/15/04	NS	NS	NS	NS
MW-3	03/16/05	NS	NS	NS	NS
MW-3	09/19/05	73.8	<1	5.2	158
MW-3	03/27/06	NS	NS	NS	NS
MW-3	09/26/06	3370	25	498	3960
MW-3	03/28/07	NS	NS	NS	NS
MW-3	09/17/07	288	<1	65.4	599
MW-3	03/04/08	NS	NS	NS	NS
MW-3	09/09/08	805	3.3	160	1630
MW-3	03/02/09	NS	NS	NS	NS
MW-3	08/27/09	2490	<25	842	6560
MW-3	02/11/10	NS	NS	NS	NS
MW-3	05/21/10	NS	NS	NS	NS
MW-3	09/29/10	2710	<50	1390	10600
MW-3	11/02/10	NS	NS	NS	NS
MW-3	02/02/11	NS	NS	NS	NS
MW-3	05/04/11	NS	NS	NS	NS
MW-3	09/30/11	1410	5.8 J	1280	12600
MW-3	11/11/11	NS	NS	NS	NS
MW-3	02/16/12	NS	NS	NS	NS
MW-3	05/08/12	NS	NS	NS	NS
MW-3	06/07/13	760	<0.30	1700	19000
MW-3	09/13/13	770	<0.30	1400	11000

TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

Knight #1					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-3	12/13/13	610	<38	960	9200
MW-3	04/03/14	670	<19	890	10000
MW-3	10/21/14	250	<35	990	10000
MW-3	05/27/15	52	<100	1400	4700
MW-3	11/17/15	44	5.2	1400	1100
MW-3	04/15/16	NS	NS	NS	NS
MW-3	10/11/16	NS	NS	NS	NS
MW-3	06/06/17	NS	NS	NS	NS
MW-3	11/10/17	NS	NS	NS	NS
MW-3	05/17/18	70	<2.0	64	220
MW-3	10/29/18	NS	NS	NS	NS
MW-3	05/20/19	NS	NS	NS	NS
MW-3	11/14/19	170	<2.0	200	<20
DUP-1(MW-3)*	11/14/19	180	<1.0	230	<10
MW-3	05/14/20	NS	NS	NS	NS
MW-3	11/11/20	220	<1.0	63	<10
MW-3	05/21/21	NS	NS	NS	NS
MW-3	11/12/21	120	<1.0	38	<10
MW-4	12/12/95	90.1	<12.5	16.8	144
MW-4	04/09/96	63.1	<1	<1	42.5
MW-4	07/17/96	35	<1	<1	17.8
MW-4	10/15/96	53.5	<1	<1	28.4
MW-4	01/13/97	56.2	<1	<1	48.4
MW-4	04/22/97	32.8	<1	<1	15.2
MW-4	07/14/97	10.4	<1	<1	5.79
MW-4	10/22/97	215	<1	5.5	184
MW-4	01/09/98	114	<1	2.66	85.7
MW-4	04/24/98	55.4	<1	<1	19.3
MW-4	04/16/99	129	<1	2.03	87.3
MW-4	04/19/00	110	6.5	17	140
MW-4	09/11/01	140	<0.5	9.6	110
MW-4	09/04/02	261	3.1	20.1	246.5
MW-4	12/10/02	NS	NS	NS	NS
MW-4	06/19/03	NS	NS	NS	NS
MW-4	09/17/03	192	<1	26.3	194
MW-4	12/09/03	NS	NS	NS	NS
MW-4	03/15/04	NS	NS	NS	NS
MW-4	09/15/04	182	<0.5	9.8	161
MW-4	03/16/05	NS	NS	NS	NS
MW-4	09/19/05	199	<1	53.8	416
MW-4	03/27/06	NS	NS	NS	NS

TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

Knight #1					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-4	09/26/06	180	12.5	55.9	417
MW-4	03/28/07	NS	NS	NS	NS
MW-4	09/17/07	272	4.7	21.3	236
MW-4	03/04/08	NS	NS	NS	NS
MW-4	09/09/08	265	0.94 J	26.5	274
MW-4	03/02/09	NS	NS	NS	NS
MW-4	08/27/09	NS	NS	NS	NS
MW-4	09/23/09	2110	12.6 J	676	6440
MW-4	10/19/09	NS	NS	NS	NS
MW-4	11/05/09	NS	NS	NS	NS
MW-4	12/21/09	NS	NS	NS	NS
MW-4	02/11/10	NS	NS	NS	NS
MW-4	05/21/10	NS	NS	NS	NS
MW-4	09/29/10	1400	<50	1020	6410
MW-4	11/02/10	NS	NS	NS	NS
MW-4	02/02/11	NS	NS	NS	NS
MW-4	05/04/11	NS	NS	NS	NS
MW-4	09/30/11	534	<10	1800	9510
MW-4	11/11/11	NS	NS	NS	NS
MW-4	02/16/12	NS	NS	NS	NS
MW-4	05/08/12	NS	NS	NS	NS
MW-4	06/07/13	2700	<0.30	900	12000
MW-4	09/13/13	NS	NS	NS	NS
MW-4	12/13/13	NS	NS	NS	NS
MW-4	04/03/14	NS	NS	NS	NS
MW-4	10/21/14	NS	NS	NS	NS
MW-4	05/27/15	NS	NS	NS	NS
MW-4	11/17/15	NS	NS	NS	NS
MW-4	04/15/16	15	<5.0	8.7	510
MW-4	10/11/16	NS	NS	NS	NS
MW-4	06/06/17	NS	NS	NS	NS
MW-4	07/24/17	NS	NS	NS	NS
MW-4	11/10/17	64	<10	130	900
MW-4	05/17/18	NS	NS	NS	NS
MW-4	10/29/18	NS	NS	NS	NS
MW-4	05/20/19	NS	NS	NS	NS
MW-4	11/14/19	NS	NS	NS	NS
MW-4	05/14/20	NS	NS	NS	NS
MW-4	11/11/20	440	<2.0	140	8400
MW-4	03/17/21	NS	NS	NS	NS
MW-4	05/21/21	NS	NS	NS	NS
MW-4	11/12/21	NS	NS	NS	NS

TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

Knight #1					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-5	11/15/00	<0.5	<0.5	<0.5	<0.5
MW-5	09/11/01	<0.5	<0.5	<0.5	0.6
MW-5	09/04/02	<0.5	0.3	0.9	1.4
MW-5	12/10/02	NS	NS	NS	NS
MW-5	06/19/03	NS	NS	NS	NS
MW-5	09/17/03	NS	NS	NS	NS
MW-5	12/09/03	NS	NS	NS	NS
MW-5	03/15/04	NS	NS	NS	NS
MW-5	09/15/04	NS	NS	NS	NS
MW-5	03/16/05	NS	NS	NS	NS
MW-5	09/19/05	NS	NS	NS	NS
MW-5	03/28/07	NS	NS	NS	NS
MW-5	09/17/07	NS	NS	NS	NS
MW-5	03/04/08	NS	NS	NS	NS
MW-5	09/09/08	NS	NS	NS	NS
MW-5	03/02/09	NS	NS	NS	NS
MW-5	08/27/09	NS	NS	NS	NS
MW-5	02/11/10	NS	NS	NS	NS
MW-5	05/21/10	NS	NS	NS	NS
MW-5	09/29/10	34.1	<2	<2	2.7 J
MW-5	11/02/10	NS	NS	NS	NS
MW-5	02/02/11	NS	NS	NS	NS
MW-5	05/04/11	NS	NS	NS	NS
MW-5	09/30/11	<1	<1	<1	1.2 J
MW-5	11/11/11	NS	NS	NS	NS
MW-5	02/16/12	NS	NS	NS	NS
MW-5	05/08/12	NS	NS	NS	NS
MW-5	06/07/13	<0.14	<0.30	<0.20	<0.23
MW-5	09/13/13	<0.14	<0.30	<0.20	<0.23
MW-5	12/13/13	<0.20	<0.38	<0.20	0.68 J
MW-5	04/03/14	<0.20	<0.38	<0.20	<0.65
MW-5	10/21/14	<0.38	<0.70	<0.50	<1.6
MW-5	05/27/15	<1.0	<5.0	<1.0	<5.0
MW-5	11/17/15	<1.0	<1.0	<1.0	<3.0
MW-5	04/15/16	NS	NS	NS	NS
MW-5	10/11/16	NS	NS	NS	NS
MW-5	06/06/17	NS	NS	NS	NS
MW-5	11/10/17	NS	NS	NS	NS
MW-5	05/17/18	<1.0	<1.0	<1.0	<10
MW-5	10/29/18	NS	NS	NS	NS
MW-5	05/20/19	NS	NS	NS	NS

TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

Knight #1					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-5	11/14/19	<1.0	<1.0	<1.0	<10
MW-5	05/14/20	NS	NS	NS	NS
MW-5	11/11/20	<1.0	<1.0	<1.0	<10
MW-5	05/21/21	NS	NS	NS	NS
MW-5	11/12/21	<1.0	<1.0	<1.0	<10
MW-6	11/17/15	<1.0	<1.0	<1.0	<3.0
MW-6	04/15/16	NS	NS	NS	NS
MW-6	10/11/16	NS	NS	NS	NS
MW-6	06/06/17	NS	NS	NS	NS
MW-6	11/10/17	NS	NS	NS	NS
MW-6	05/17/18	<1.0	<1.0	<1.0	<10
MW-6	10/29/18	NS	NS	NS	NS
MW-6	05/20/19	NS	NS	NS	NS
MW-6	11/14/19	<1.0	<1.0	<1.0	<10
MW-6	05/14/20	NS	NS	NS	NS
MW-6	11/11/20	<1.0	<1.0	<1.0	<10
MW-6	05/21/21	NS	NS	NS	NS
MW-6	11/12/21	<1.0	<1.0	<1.0	<10
MW-7	11/17/15	18	<1.0	38	100
MW-7	04/15/16	7.8	<10	4.3	48
MW-7	10/11/16	81	<10	320	1700
MW-7	06/06/17	20	<5.0	33	390
MW-7	11/10/17	8.3	<1.0	2.5	170
MW-7	05/17/18	1.3	<1.0	<1.0	<10
MW-7	10/29/18	<1.0	<1.0	<1.0	<10
MW-7	05/20/19	<1.0	<1.0	<1.0	<10
MW-7	11/14/19	<1.0	<1.0	<1.0	<10
MW-7	05/14/20	1.1	<1.0	<1.0	<10
MW-7	11/11/20	<1.0	<1.0	<1.0	<10
MW-7	05/21/21	<1.0	<1.0	<1.0	<10
MW-7	11/12/21	<1.0	<1.0	<1.0	<10
MW-8	11/17/15	<1.0	<1.0	<1.0	<3.0
MW-8	04/15/16	<1.0	<5.0	<1.0	<5.0
MW-8	10/11/16	<1.0	<5.0	<1.0	<5.0
MW-8	06/06/17	<1.0	<5.0	<1.0	<5.0
MW-8	11/10/17	<1.0	<1.0	<1.0	<10
MW-8	05/17/18	<1.0	<1.0	<1.0	<10
MW-8	10/29/18	<1.0	<1.0	<1.0	<10
MW-8	05/20/19	<1.0	<1.0	<1.0	<10

TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

Knight #1					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-8	11/14/19	<1.0	<1.0	<1.0	<10
MW-8	05/14/20	<1.0	<1.0	<1.0	<10
MW-8	11/11/20	<1.0	<1.0	<1.0	<10
MW-8	05/21/21	NS	NS	NS	NS
MW-8	11/12/21	<1.0	<1.0	<1.0	<10
MW-9	11/17/15	1.1	<1.0	<1.0	<3.0
MW-9	04/15/16	NS	NS	NS	NS
MW-9	10/11/16	NS	NS	NS	NS
MW-9	06/06/17	NS	NS	NS	NS
MW-9	11/10/17	NS	NS	NS	NS
MW-9	05/17/18	<1.0	<1.0	<1.0	<10
MW-9	10/29/18	NS	NS	NS	NS
MW-9	05/20/19	NS	NS	NS	NS
MW-9	11/14/19	<1.0	<1.0	<1.0	<10
MW-9	05/14/20	NS	NS	NS	NS
MW-9	11/11/20	<1.0	<1.0	<1.0	<10
MW-9	05/21/21	NS	NS	NS	NS
MW-9	11/12/21	<1.0	<1.0	<1.0	<10
MW-10	11/17/15	<1.0	<1.0	<1.0	<3.0
MW-10	04/15/16	NS	NS	NS	NS
MW-10	10/11/16	NS	NS	NS	NS
MW-10	06/06/17	NS	NS	NS	NS
MW-10	11/10/17	NS	NS	NS	NS
MW-10	05/17/18	<1.0	<1.0	<1.0	<10
MW-10	10/29/18	NS	NS	NS	NS
MW-10	05/20/19	NS	NS	NS	NS
MW-10	11/14/19	<1.0	<1.0	<1.0	<10
MW-10	05/14/20	<1.0	<1.0	<1.0	<10
MW-10	11/11/20	<1.0	<1.0	<1.0	<10
MW-10	05/21/21	<1.0	<1.0	<1.0	<10
MW-10	11/12/21	<1.0	<1.0	<1.0	<10
MW-11	11/17/15	2000	3.7	800	1600
MW-11	04/15/16	410	<50	32	54
MW-11	10/11/16	1100	<100	280	2000
MW-11	06/06/17	NS	NS	NS	NS
MW-11	11/10/17	3.3	<1.0	2.7	25
MW-11	05/17/18	32	<1.0	16	160
MW-11	10/29/18	110	<2.0	34	270
DUP-01(MW-11)*	10/29/18	93	<1.0	35	270

TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

Knight #1					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-11	05/20/19	28	<1.0	14	60
DUP-1(MW-11)*	05/20/19	24	<1.0	19	88
MW-11	11/14/19	520	<5.0	290	800
MW-11	05/14/20	30	<1.0	46	81
DUP-01(MW-11)*	05/14/20	26	<1.0	45	87
MW-11	11/11/20	200	<1.0	150	300
MW-11	03/17/21	NS	NS	NS	NS
MW-11	05/21/21	15	<1.0	7.2	14
MW-11	11/12/21	18	<1.0	10	22
MW-12	11/17/15	19	<1.0	12	90
MW-12	04/15/16	NS	NS	NS	NS
MW-12	10/11/16	NS	NS	NS	NS
MW-12	06/06/17	NS	NS	NS	NS
MW-12	07/24/17	NS	NS	NS	NS
MW-12	11/10/17	NS	NS	NS	NS
MW-12	05/17/18	130	<5.0	79	680
MW-12	10/29/18	NS	NS	NS	NS
MW-12	05/20/19	NS	NS	NS	NS
MW-12	11/14/19	NS	NS	NS	NS
MW-12	05/14/20	NS	NS	NS	NS
MW-12	11/11/20	NS	NS	NS	NS
MW-12	03/17/21	NS	NS	NS	NS
MW-12	05/21/21	NS	NS	NS	NS
MW-12	11/12/21	NS	NS	NS	NS
MW-13	11/17/15	<1.0	<1.0	<1.0	<3.0
MW-13	04/15/16	NS	NS	NS	NS
MW-13	10/11/16	NS	NS	NS	NS
MW-13	06/06/17	NS	NS	NS	NS
MW-13	11/10/17	NS	NS	NS	NS
MW-13	05/17/18	<1.0	<1.0	<1.0	<10
MW-13	10/29/18	NS	NS	NS	NS
MW-13	05/20/19	NS	NS	NS	NS
MW-13	11/14/19	<1.0	<1.0	<1.0	<10
MW-13	05/14/20	<1.0	<1.0	<1.0	<10
MW-13	11/11/20	<1.0	<1.0	<1.0	<10
MW-13	05/21/21	<1.0	<1.0	<1.0	<10
MW-13	11/12/21	<1.0	<1.0	<1.0	<10
MW-14	05/17/18	<1.0	<1.0	<1.0	<10
MW-14	10/29/18	<1.0	<1.0	<1.0	<10

TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

Knight #1					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-14	05/20/19	<1.0	<1.0	<1.0	<10
MW-14	11/14/19	<1.0	<1.0	<1.0	<10
MW-14	05/14/20	NS	NS	NS	NS
MW-14	11/11/20	<1.0	<1.0	<1.0	<10
MW-14	05/21/21	NS	NS	NS	NS
MW-14	11/12/21	<1.0	<1.0	<1.0	<10
MW-15	05/17/18	<1.0	<1.0	<1.0	<10
MW-15	10/29/18	<1.0	<1.0	<1.0	<10
MW-15	05/20/19	<1.0	<1.0	<1.0	<10
MW-15	11/14/19	<1.0	<1.0	<1.0	<10
MW-15	05/14/20	<1.0	<1.0	<1.0	<10
MW-15	11/11/20	<1.0	<1.0	<1.0	<10
MW-15	05/21/21	<1.0	<1.0	<1.0	<10
MW-15	11/12/21	<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 result

TABLE 3 - GROUNDWATER ELEVATION RESULTS

Knight #1						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-1	10/16/95	5512.35	NR	26.03		5486.32
MW-1	12/12/95	5512.35	NR	25.91		5486.44
MW-1	04/09/96	5512.35	26.34	26.71	0.37	5485.92
MW-1	07/17/96	5512.35	25.35	25.39	0.04	5486.99
MW-1	10/15/96	5512.35	26.60	27.35	0.75	5485.56
MW-1	01/13/97	5512.35	NR	26.53		5485.82
MW-1	04/22/97	5512.35	NR	26.23		5486.12
MW-1	07/14/97	5512.35	NR	25.25		5487.10
MW-1	10/22/97	5512.35	NR	26.22		5486.13
MW-1	01/09/98	5512.35	NR	25.82		5486.53
MW-1	04/24/98	5512.35	25.87	26.01	0.14	5486.44
MW-1	04/16/99	5512.35	26.40	26.52	0.12	5485.92
MW-1	04/19/00	5512.35	27.07	27.14	0.07	5485.26
MW-1	09/05/01	5512.35	27.93	28.32	0.39	5484.32
MW-1	09/11/01	5512.35	28.05	28.10	0.05	5484.29
MW-1	09/04/02	5512.35	28.31	28.39	0.08	5484.02
MW-1	12/10/02	5512.35	28.31	28.47	0.16	5484.00
MW-1	03/20/03	5512.35	28.05	28.14	0.09	5484.28
MW-1	06/19/03	5512.35	28.00	28.02	0.02	5484.34
MW-1	09/17/03	5512.35	28.95	28.97	0.02	5483.39
MW-1	12/09/03	5512.35	28.30	28.32	0.02	5484.04
MW-1	03/15/04	5512.35	27.89	27.99	0.10	5484.43
MW-1	09/15/04	5512.35	28.77	28.78	0.01	5483.58
MW-1	03/16/05	5512.35	ND	28.12		5484.68
MW-1	09/19/05	5512.35	ND	27.47		5484.88
MW-1	03/27/06	5512.35	ND	26.49		5485.86
MW-1	09/26/06	5512.35	ND	25.91		5486.44
MW-1	03/28/07	5512.35	ND	25.87		5486.48
MW-1	09/17/07	5512.35	ND	26.94		5485.41
MW-1	03/04/08	5512.35	ND	25.70		5486.65
MW-1	09/09/08	5512.35	ND	26.68		5485.67
MW-1	03/02/09	5512.35	ND	24.71		5487.64
MW-1	08/27/09	5512.35	ND	24.30		5488.05
MW-1	02/11/10	5512.35	ND	24.83		5487.52
MW-1	05/21/10	5512.35	ND	23.54		5488.81
MW-1	09/29/10	5512.35	ND	24.33		5488.02
MW-1	11/02/10	5512.35	ND	22.31		5490.04
MW-1	02/02/11	5512.35	ND	23.62		5488.73
MW-1	05/04/11	5512.35	ND	22.50		5489.85
MW-1	09/30/11	5512.35	ND	22.26		5490.09
MW-1	11/11/11	5512.35	ND	22.87		5489.48
MW-1	02/16/12	5512.35	ND	24.01		5488.34

TABLE 3 - GROUNDWATER ELEVATION RESULTS

Knight #1						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-1	05/08/12	5512.35	ND	22.01		5490.34
MW-1	06/07/13	5512.35	ND	21.73		5490.62
MW-1	09/13/13	5512.35	ND	26.75		5485.60
MW-1	12/13/13	5512.35	ND	26.45		5485.90
MW-1	04/03/14	5512.35	ND	25.71		5486.64
MW-1	10/21/14	5512.35	ND	25.88		5486.47
MW-1	05/27/15	5512.35	ND	19.29		5493.06
MW-1	11/17/15	5512.35	ND	22.76		5489.59
MW-1	04/15/16	5512.35	ND	23.54		5488.81
MW-1	10/11/16	5512.35	ND	21.69		5490.66
MW-1	06/06/17	5512.35	ND	22.72		5489.63
MW-1	11/10/17	5512.35	ND	23.96		5488.39
MW-1	05/17/18	5512.35	ND	23.30		5489.05
MW-1	10/29/18	5512.35	ND	26.32		5486.03
MW-1	05/20/19	5512.35	ND	25.81		5486.54
MW-1	11/14/19	5512.35	ND	25.35		5487.00
MW-1	05/14/20	5512.35	ND	23.84		5488.51
MW-1	11/11/20	5512.35	ND	24.98		5487.37
MW-1	05/21/21	5512.35	ND	25.44		5486.91
MW-1	11/12/21	5512.35	ND	26.89		5485.46
MW-2	12/12/95	5511.65	NR	25.37		5486.28
MW-2	04/09/96	5511.65	NR	25.58		5486.07
MW-2	07/17/96	5511.65	NR	25.09		5486.56
MW-2	10/15/96	5511.65	NR	26.36		5485.29
MW-2	01/13/97	5511.65	NR	26.05		5485.60
MW-2	04/22/97	5511.65	NR	25.82		5485.83
MW-2	10/22/97	5511.65	NR	25.86		5485.79
MW-2	01/09/98	5511.65	NR	25.50		5486.15
MW-2	04/24/98	5511.65	NR	25.60		5486.05
MW-2	02/09/99	5511.65	NR	26.05		5485.60
MW-2	04/16/99	5511.65	NR	26.16		5485.49
MW-2	04/19/00	5511.65	NR	25.92		5485.73
MW-2	09/11/01	5511.65	NR	27.60		5484.05
MW-2	09/04/02	5511.65	NR	27.88		5483.77
MW-2	12/10/02	5511.65	NR	27.90		5483.75
MW-2	06/19/03	5511.65	ND	27.46		5484.19
MW-2	09/17/03	5511.65	ND	28.42		5483.23
MW-2	12/09/03	5511.65	ND	27.87		5483.78
MW-2	03/15/04	5511.65	ND	27.55		5484.10
MW-2	09/15/04	5511.65	ND	28.25		5483.40
MW-2	03/16/05	5511.65	ND	27.30		5484.35

TABLE 3 - GROUNDWATER ELEVATION RESULTS

Knight #1						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-2	09/19/05	5511.65	ND	26.80		5484.85
MW-2	03/27/06	5511.65	ND	26.18		5485.47
MW-2	09/26/06	5511.65	ND	25.66		5485.99
MW-2	03/28/07	5511.65	ND	25.58		5486.07
MW-2	09/17/07	5511.65	ND	26.63		5485.02
MW-2	03/04/08	5511.65	ND	25.47		5486.18
MW-2	09/09/08	5511.65	ND	26.30		5485.35
MW-2	03/02/09	5511.65	ND	24.46		5487.19
MW-2	08/27/09	5511.65	ND	24.00		5487.65
MW-2	02/11/10	5511.65	ND	24.45		5487.20
MW-2	05/21/10	5511.65	ND	23.21		5488.44
MW-2	09/29/10	5511.65	ND	23.00		5488.65
MW-2	11/02/10	5511.65	ND	22.03		5489.62
MW-2	02/02/11	5511.65	ND	23.41		5488.24
MW-2	05/04/11	5511.65	ND	22.67		5488.98
MW-2	09/30/11	5511.65	ND	21.75		5489.90
MW-2	11/11/11	5511.65	ND	22.59		5489.06
MW-2	02/16/12	5511.65	ND	23.72		5487.93
MW-2	05/08/12	5511.65	ND	21.99		5489.66
MW-2	06/07/13	5511.65	ND	22.88		5488.77
MW-2	09/13/13	5511.65	ND	26.49		5485.16
MW-2	12/13/13	5511.65	ND	26.18		5485.47
MW-2	04/03/14	5511.65	ND	25.43		5486.22
MW-2	10/21/14	5511.65	ND	25.62		5486.03
MW-2	05/27/15	5511.65	ND	20.41		5491.24
MW-2	11/17/15	5511.65	ND	22.57		5489.08
MW-2	04/15/16	5511.65	ND	23.23		5488.42
MW-2	10/11/16	5511.65	ND	21.33		5490.32
MW-2	06/06/17	5511.65	ND	22.39		5489.26
MW-2	11/10/17	5511.65	ND	23.60		5488.05
MW-2	05/17/18	5511.65	ND	22.90		5488.75
MW-2	10/29/18	5511.65	ND	25.95		5485.70
MW-2	05/20/19	5511.65	ND	25.45		5486.20
MW-2	11/14/19	5511.65	ND	24.94		5486.71
MW-2	05/14/20	5511.65	ND	23.43		5488.22
MW-2	11/11/20	5511.65	ND	24.59		5487.06
MW-2	05/21/21	5511.65	ND	25.03		5486.62
MW-2	11/12/21	5511.65	ND	26.49		5485.16
MW-3	12/12/95	5512.19	NR	25.67		5486.52
MW-3	04/09/96	5512.19	NR	25.78		5486.41
MW-3	07/17/96	5512.19	NR	25.15		5487.04

TABLE 3 - GROUNDWATER ELEVATION RESULTS

Knight #1						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-3	01/13/97	5512.19	26.25	26.41	0.16	5485.90
MW-3	07/14/97	5512.19	NR	25.21		5486.98
MW-3	10/22/97	5512.19	NR	26.01		5486.18
MW-3	01/09/98	5512.19	NR	25.69		5486.50
MW-3	04/24/98	5512.19	NR	25.76		5486.43
MW-3	04/16/99	5512.19	NR	26.30		5485.89
MW-3	04/19/00	5512.19	NR	26.75		5485.44
MW-3	09/05/01	5512.19	27.84	27.91	0.07	5484.33
MW-3	09/11/01	5512.19	27.89	27.91	0.02	5484.29
MW-3	09/04/02	5512.19	28.16	28.17	0.01	5484.03
MW-3	12/10/02	5512.19	28.17	28.20	0.03	5484.01
MW-3	06/19/03	5512.19	ND	27.81		5484.38
MW-3	09/17/03	5512.19	28.76	28.79	0.03	5483.42
MW-3	12/09/03	5512.19	ND	28.11		5484.08
MW-3	03/15/04	5512.19	ND	27.78		5484.41
MW-3	09/15/04	5512.19	ND	28.60		5483.59
MW-3	03/16/05	5512.19	ND	27.48		5484.71
MW-3	09/19/05	5512.19	ND	27.16		5485.03
MW-3	03/27/06	5512.19	ND	26.34		5485.85
MW-3	09/26/06	5512.19	ND	25.83		5486.36
MW-3	03/28/07	5512.19	ND	25.71		5486.48
MW-3	09/17/07	5512.19	ND	26.85		5485.34
MW-3	03/04/08	5512.19	ND	25.55		5486.64
MW-3	09/09/08	5512.19	ND	25.62		5486.57
MW-3	03/02/09	5512.19	ND	24.55		5487.64
MW-3	08/27/09	5512.19	ND	24.13		5488.06
MW-3	02/11/10	5512.19	ND	24.67		5487.52
MW-3	05/21/10	5512.19	ND	23.40		5488.79
MW-3	09/29/10	5512.19	ND	23.42		5488.77
MW-3	11/02/10	5512.19	ND	22.20		5489.99
MW-3	02/02/11	5512.19	ND	23.44		5488.75
MW-3	05/04/11	5512.19	ND	22.37		5489.82
MW-3	09/30/11	5512.19	ND	21.94		5490.25
MW-3	11/11/11	5512.19	ND	22.75		5489.44
MW-3	02/16/12	5512.19	ND	23.85		5488.34
MW-3	05/08/12	5512.19	ND	21.90		5490.29
MW-3	06/07/13	5512.19	ND	21.61		5490.58
MW-3	09/13/13	5512.19	ND	26.71		5485.48
MW-3	12/13/13	5512.19	ND	26.31		5485.88
MW-3	04/03/14	5512.19	ND	25.55		5486.64
MW-3	10/21/14	5512.19	ND	25.73		5486.46
MW-3	05/27/15	5512.19	ND	19.02		5493.17

TABLE 3 - GROUNDWATER ELEVATION RESULTS

Knight #1						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-3	11/17/15	5512.19	ND	22.61		5489.58
MW-3	04/15/16	5512.19	ND	23.37		5488.82
MW-3	10/11/16	5512.19	ND	21.54		5490.65
MW-3	06/06/17	5512.19	ND	22.56		5489.63
MW-3	11/10/17	5512.19	ND	23.79		5488.40
MW-3	05/17/18	5512.19	ND	23.14		5489.05
MW-3	10/29/18	5512.19	ND	26.15		5486.04
MW-3	05/20/19	5512.19	ND	25.66		5486.53
MW-3	11/14/19	5512.19	ND	25.20		5486.99
MW-3	05/14/20	5512.19	ND	23.68		5488.51
MW-3	11/11/20	5512.19	ND	24.82		5487.37
MW-3	05/21/21	5512.19	ND	25.28		5486.91
MW-3	11/12/21	5512.19	ND	26.78		5485.41
MW-4	12/12/95	5512.86	NR	26.27		5486.59
MW-4	04/09/96	5512.86	NR	26.40		5486.46
MW-4	07/17/96	5512.86	NR	25.77		5487.09
MW-4	10/15/96	5512.86	NR	27.26		5485.60
MW-4	01/13/97	5512.86	NR	26.96		5485.90
MW-4	04/22/97	5512.86	NR	26.69		5486.17
MW-4	07/14/97	5512.86	NR	25.78		5487.08
MW-4	10/22/97	5512.86	NR	26.72		5486.14
MW-4	01/09/98	5512.86	NR	26.34		5486.52
MW-4	04/24/98	5512.86	NR	26.44		5486.42
MW-4	04/16/99	5512.86	NR	26.97		5485.89
MW-4	04/19/00	5512.86	NR	26.09		5486.77
MW-4	09/11/01	5512.86	NR	28.48		5484.38
MW-4	09/04/02	5512.86	NR	28.76		5484.10
MW-4	12/10/02	5512.86	NR	28.80		5484.06
MW-4	06/19/03	5512.86	ND	28.43		5484.43
MW-4	09/17/03	5512.86	ND	29.36		5483.50
MW-4	12/09/03	5512.86	ND	28.73		5484.13
MW-4	03/15/04	5512.86	ND	28.42		5484.44
MW-4	09/15/04	5512.86	ND	29.20		5483.66
MW-4	03/16/05	5512.86	ND	28.12		5484.74
MW-4	09/19/05	5512.86	ND	27.74		5485.12
MW-4	03/27/06	5512.86	ND	26.87		5485.99
MW-4	09/26/06	5512.86	ND	26.45		5486.41
MW-4	03/28/07	5512.86	ND	26.34		5486.52
MW-4	09/17/07	5512.86	ND	27.44		5485.42
MW-4	03/04/08	5512.86	ND	26.23		5486.63
MW-4	09/09/08	5512.86	ND	26.15		5486.71

TABLE 3 - GROUNDWATER ELEVATION RESULTS

Knight #1						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-4	03/02/09	5512.86	ND	25.19		5487.67
MW-4	08/27/09	5512.86	24.13	27.10	2.97	5487.99
MW-4	09/23/09	5512.86	25.35	26.15	0.80	5487.31
MW-4	10/19/09	5512.86	25.15	25.70	0.55	5487.57
MW-4	11/05/09	5512.86	25.69	25.95	0.26	5487.10
MW-4	12/21/09	5512.86	25.85	26.05	0.20	5486.96
MW-4	02/11/10	5512.86	25.28	25.40	0.12	5487.55
MW-4	05/21/10	5512.86	24.03	24.05	0.02	5488.82
MW-4	09/29/10	5512.86	23.35	25.05	1.70	5489.08
MW-4	11/02/10	5512.86	22.74	23.38	0.64	5489.96
MW-4	02/02/11	5512.86	24.18	24.37	0.19	5488.63
MW-4	05/04/11	5512.86	ND	22.13		5490.73
MW-4	09/30/11	5512.86	21.85	24.52	2.67	5490.34
MW-4	11/11/11	5512.86	23.40	23.74	0.34	5489.37
MW-4	02/16/12	5512.86	ND	24.68		5488.18
MW-4	05/08/12	5512.86	22.44	22.46	0.02	5490.41
MW-4	06/07/13	5512.86	23.75	24.76	1.01	5488.86
MW-4	09/13/13	5512.86	27.07	28.84	1.77	5485.35
MW-4	12/13/13	5512.86	26.78	27.30	0.52	5485.95
MW-4	04/03/14	5512.86	26.07	26.43	0.36	5486.70
MW-4	10/21/14	5512.86	26.14	27.02	0.88	5486.50
MW-4	05/27/15	5512.86	20.58	20.58	<0.01	5492.28
MW-4	11/17/15	5512.86	23.07	23.64	0.57	5489.65
MW-4	04/15/16	5512.86	ND	23.96		5488.90
MW-4	10/11/16	5512.86	21.93	22.55	0.62	5490.77
MW-4	06/06/17	5512.86	23.02	23.74	0.72	5489.66
MW-4	07/24/17	5512.86	24.30	24.78	0.48	5488.44
MW-4	11/10/17	5512.86	ND	24.41		5488.45
MW-4	05/17/18	5512.86	23.77	23.79	0.02	5489.08
MW-4	10/29/18	5512.86	26.74	27.00	0.26	5486.05
MW-4	05/20/19	5512.86	26.25	26.25	<0.01	5486.61
MW-4	11/14/19	5512.86	25.76	25.89	0.13	5487.07
MW-4	05/14/20	5512.86	ND	24.76		5488.10
MW-4	08/18/20	5512.86	24.98	24.98	<0.01	0.00
MW-4	11/11/20	5512.86	ND	25.42		5487.44
MW-4	03/17/21	5512.86	ND	25.56		5487.30
MW-4	05/21/21	5512.86	ND	25.89		5486.97
MW-4	08/23/21	5512.86	ND	27.18		5485.68
MW-4	11/12/21	5512.86	27.32	27.35	0.03	5485.53
MW-5	11/15/00	5510.04	NR	25.62		5484.42
MW-5	09/11/01	5510.04	NR	25.94		5484.10

TABLE 3 - GROUNDWATER ELEVATION RESULTS

Knight #1						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-5	09/04/02	5510.04	NR	26.21		5483.83
MW-5	12/10/02	5510.04	NR	26.11		5483.93
MW-5	06/19/03	5510.04	ND	25.80		5484.24
MW-5	09/17/03	5510.04	ND	26.67		5483.37
MW-5	12/09/03	5510.04	ND	25.88		5484.16
MW-5	03/15/04	5510.04	ND	25.52		5484.52
MW-5	09/15/04	5510.04	ND	26.60		5483.44
MW-5	03/16/05	5510.04	ND	25.21		5484.83
MW-5	09/19/05	5510.04	ND	25.20		5484.84
MW-5	03/28/07	5510.04	ND	23.54		5486.50
MW-5	09/17/07	5510.04	ND	24.87		5485.17
MW-5	03/04/08	5510.04	ND	23.28		5486.76
MW-5	09/09/08	5510.04	ND	23.69		5486.35
MW-5	03/02/09	5510.04	ND	22.52		5487.52
MW-5	08/27/09	5510.04	ND	22.51		5487.53
MW-5	02/11/10	5510.04	ND	22.74		5487.30
MW-5	05/21/10	5510.04	ND	21.43		5488.61
MW-5	09/29/10	5510.04	ND	21.33		5488.71
MW-5	11/02/10	5510.04	ND	20.48		5489.56
MW-5	02/02/11	5510.04	ND	20.52		5489.52
MW-5	05/04/11	5510.04	ND	20.66		5489.38
MW-5	09/30/11	5510.04	ND	20.24		5489.80
MW-5	11/11/11	5510.04	ND	21.89		5488.15
MW-5	02/16/12	5510.04	ND	21.85		5488.19
MW-5	05/08/12	5510.04	ND	19.79		5490.25
MW-5	06/07/13	5510.04	ND	20.70		5489.34
MW-5	09/13/13	5510.04	ND	24.68		5485.36
MW-5	12/13/13	5510.04	ND	24.13		5485.91
MW-5	04/03/14	5510.04	ND	23.42		5486.62
MW-5	10/21/14	5510.04	ND	23.72		5486.32
MW-5	05/27/15	5510.04	ND	17.17		5492.87
MW-5	11/17/15	5510.04	ND	20.74		5489.30
MW-5	04/15/16	5510.04	ND	21.35		5488.69
MW-5	10/11/16	5510.04	ND	19.74		5490.30
MW-5	06/06/17	5510.04	ND	20.63		5489.41
MW-5	11/10/17	5510.04	ND	21.66		5488.38
MW-5	05/17/18	5510.04	ND	21.16		5488.88
MW-5	10/29/18	5510.04	ND	24.13		5485.91
MW-5	05/20/19	5510.04	ND	23.41		5486.63
MW-5	11/14/19	5510.04	ND	23.06		5486.98
MW-5	05/14/20	5510.04	ND	21.68		5488.36
MW-5	11/11/20	5510.04	ND	22.81		5487.23

TABLE 3 - GROUNDWATER ELEVATION RESULTS

Knight #1						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-5	05/21/21	5510.04	ND	23.22		5486.82
MW-5	11/12/21	5510.04	ND	24.56		5485.48
MW-6	11/17/15	5510.36	ND	21.31		5489.05
MW-6	04/15/16	5510.36	ND	21.90		5488.46
MW-6	10/11/16	5510.36	ND	20.22		5490.14
MW-6	06/06/17	5510.36	ND	20.13		5490.23
MW-6	11/10/17	5510.36	ND	22.20		5488.16
MW-6	05/17/18	5510.36	ND	21.63		5488.73
MW-6	10/29/18	5510.36	ND	24.65		5485.71
MW-6	05/20/19	5510.36	ND	23.95		5486.41
MW-6	11/14/19	5510.36	ND	23.57		5486.79
MW-6	05/14/20	5510.36	ND	22.14		5488.22
MW-6	11/11/20	5510.36	ND	23.29		5487.07
MW-6	05/21/21	5510.36	ND	23.70		5486.66
MW-6	11/12/21	5510.36	ND	25.10		5485.26
MW-7	11/17/15	5511.16	ND	21.77		5489.39
MW-7	04/15/16	5511.16	ND	22.43		5488.73
MW-7	10/11/16	5511.16	ND	20.68		5490.48
MW-7	06/06/17	5511.16	ND	21.67		5489.49
MW-7	11/10/17	5511.16	ND	22.77		5488.39
MW-7	05/17/18	5511.16	ND	22.17		5488.99
MW-7	10/29/18	5511.16	ND	25.19		5485.97
MW-7	05/20/19	5511.16	ND	24.58		5486.58
MW-7	11/14/19	5511.16	ND	24.18		5486.98
MW-7	05/14/20	5511.16	ND	22.71		5488.45
MW-7	11/11/20	5511.16	ND	23.85		5487.31
MW-7	05/21/21	5511.16	ND	24.29		5486.87
MW-7	11/12/21	5511.16	ND	25.71		5485.45
MW-8	11/17/15	5511.95	ND	22.21		5489.74
MW-8	11/17/15	5511.95	ND	22.21		5489.74
MW-8	04/15/16	5511.95	ND	22.94		5489.01
MW-8	10/11/16	5511.95	ND	21.25		5490.70
MW-8	06/06/17	5511.95	ND	22.20		5489.75
MW-8	11/10/17	5511.95	ND	23.25		5488.70
MW-8	05/17/18	5511.95	ND	22.74		5489.21
MW-8	10/29/18	5511.95	ND	25.74		5486.21
MW-8	05/20/19	5511.95	ND	25.08		5486.87
MW-8	11/14/19	5511.95	ND	24.70		5487.25
MW-8	05/14/20	5511.95	ND	23.24		5488.71

TABLE 3 - GROUNDWATER ELEVATION RESULTS

Knight #1						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-8	11/11/20	5511.95	ND	24.39		5487.56
MW-8	05/21/21	5511.95	ND	24.85		5487.10
MW-8	11/12/21	5511.95	ND	26.23		5485.72
MW-9	11/17/15	5513.44	ND	23.49		5489.95
MW-9	04/15/16	5513.44	ND	24.29		5489.15
MW-9	10/11/16	5513.44	ND	22.48		5490.96
MW-9	06/06/17	5513.44	ND	23.54		5489.90
MW-9	11/10/17	5513.44	ND	24.68		5488.76
MW-9	05/17/18	5513.44	ND	24.11		5489.33
MW-9	10/29/18	5513.44	ND	27.11		5486.33
MW-9	05/20/19	5513.44	ND	26.53		5486.91
MW-9	11/14/19	5513.44	ND	26.10		5487.34
MW-9	05/14/20	5513.44	ND	24.57		5488.87
MW-9	11/11/20	5513.44	ND	25.72		5487.72
MW-9	05/21/21	5513.44	ND	26.21		5487.23
MW-9	11/12/21	5513.44	ND	27.61		5485.83
MW-10	11/17/15	5513.72	ND	24.06		5489.66
MW-10	04/15/16	5513.72	ND	24.84		5488.88
MW-10	10/11/16	5513.72	ND	22.87		5490.85
MW-10	06/06/17	5513.72	ND	24.05		5489.67
MW-10	11/10/17	5513.72	ND	25.32		5488.40
MW-10	05/17/18	5513.72	ND	24.80		5488.92
MW-10	10/29/18	5513.72	ND	27.70		5486.02
MW-10	05/20/19	5513.72	ND	27.26		5486.46
MW-10	11/14/19	5513.72	ND	26.64		5487.08
MW-10	05/14/20	5513.72	ND	25.10		5488.62
MW-10	11/11/20	5513.72	ND	26.24		5487.48
MW-10	05/21/21	5513.72	ND	26.78		5486.94
MW-10	11/12/21	5513.72	ND	28.22		5485.50
MW-11	11/17/15	5513.41	ND	23.91		5489.50
MW-11	04/15/16	5513.41	ND	24.73		5488.68
MW-11	10/11/16	5513.41	ND	22.66		5490.75
MW-11	06/06/17	5513.41	23.87	23.99	0.12	5489.51
MW-11	07/24/17	5513.41	25.74	25.75	0.01	5487.76
MW-11	11/10/17	5513.41	ND	25.19		5488.22
MW-11	05/17/18	5513.41	ND	24.42		5488.99
MW-11	10/29/18	5513.41	ND	27.54		5485.87
MW-11	05/20/19	5513.41	ND	27.10		5486.31
MW-11	11/14/19	5513.41	ND	26.51		5486.90

TABLE 3 - GROUNDWATER ELEVATION RESULTS

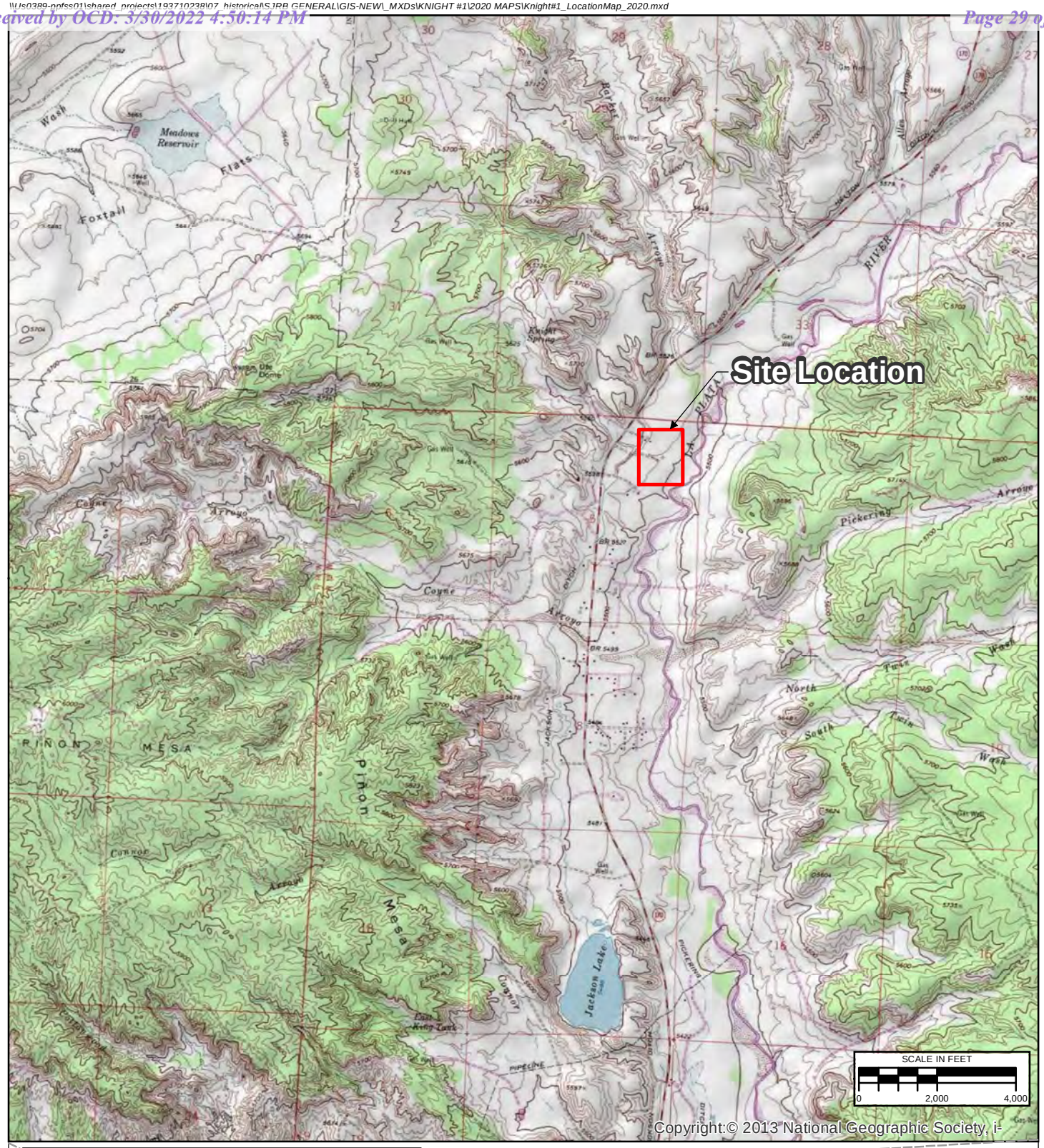
Knight #1						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-11	05/14/20	5513.41	ND	24.95		5488.46
MW-11	08/18/20	5513.41	ND	25.77		5487.64
MW-11	11/11/20	5513.41	ND	26.09		5487.32
MW-11	03/17/21	5513.41	ND	26.30		5487.11
MW-11	05/21/21	5513.41	ND	26.63		5486.78
MW-11	08/23/21	5513.41	ND	27.90		5485.51
MW-11	11/12/21	5513.41	ND	28.09		5485.32
MW-12	11/17/15	5511.47	ND	22.40		5489.07
MW-12	04/15/16	5511.47	ND	23.05		5488.42
MW-12	10/11/16	5511.47	ND	21.13		5490.34
MW-12	06/06/17	5511.47	22.21	22.22	0.01	5489.26
MW-12	07/24/17	5511.47	23.30	23.31	0.01	5488.17
MW-12	11/10/17	5511.47	ND	23.47		5488.00
MW-12	05/17/18	5511.47	ND	22.80		5488.67
MW-12	10/29/18	5511.47	ND	25.84		5485.63
MW-12	05/20/19	5511.47	25.32	25.44	0.12	5486.12
MW-12	11/14/19	5511.47	24.77	24.84	0.07	5486.68
MW-12	05/14/20	5511.47	ND	23.26		5488.21
MW-12	11/11/20	5511.47	24.40	24.42	0.02	5487.07
MW-12	03/17/21	5511.47	24.54	24.55	0.01	5486.93
MW-12	05/21/21	5511.47	24.89	24.91	0.02	5486.58
MW-12	08/23/21	5511.47	ND	26.19		5485.28
MW-12	11/12/21	5511.47	26.33	26.34	0.01	5485.14
MW-13	11/17/15	5509.07	ND	20.26		5488.81
MW-13	04/15/16	5509.07	ND	20.83		5488.24
MW-13	10/11/16	5509.07	ND	19.01		5490.06
MW-13	06/06/17	5509.07	19.99	19.99	<0.01	5489.08
MW-13	11/10/17	5509.07	ND	21.17		5487.90
MW-13	05/17/18	5509.07	ND	20.52		5488.55
MW-13	10/29/18	5509.07	ND	23.53		5485.54
MW-13	05/20/19	5509.07	ND	22.98		5486.09
MW-13	11/14/19	5509.07	ND	22.44		5486.63
MW-13	05/14/20	5509.07	ND	20.97		5488.10
MW-13	11/11/20	5509.07	ND	22.10		5486.97
MW-13	05/21/21	5509.07	ND	22.55		5486.52
MW-13	11/12/21	5509.07	ND	23.97		5485.10
MW-14	05/17/18	5511.71	ND	22.67		5489.04
MW-14	10/29/18	5511.71	ND	25.80		5485.91
MW-14	05/20/19	5511.71	ND	25.51		5486.20

TABLE 3 - GROUNDWATER ELEVATION RESULTS

Knight #1						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-14	11/14/19	5511.71	ND	24.80		5486.91
MW-14	05/14/20	5511.71	ND	23.17		5488.54
MW-14	11/11/20	5511.71	ND	24.29		5487.42
MW-14	05/21/21	5511.71	ND	24.92		5486.79
MW-14	11/12/21	5511.71	ND	26.40		5485.31
MW-15	05/17/18	5511.05	ND	22.43		5488.62
MW-15	10/29/18	5511.05	ND	25.47		5485.58
MW-15	05/20/19	5511.05	ND	25.17		5485.88
MW-15	11/14/19	5511.05	ND	24.48		5486.57
MW-15	05/14/20	5511.05	ND	22.91		5488.14
MW-15	11/11/20	5511.05	ND	24.00		5487.05
MW-15	05/21/21	5511.05	ND	24.59		5486.46
MW-15	11/12/21	5511.05	ND	26.07		5484.98

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
KNIGHT #1
SAN JUAN RIVER BASIN
SAN JUAN COUNTY, NEW MEXICO

FIGURE
1

\\Us0389-ppfss01\shared_projects\193710238\07_historical\SJRB GENERAL\GIS-NEW_MXDs\KNIGHT #1\2020 MAPS\Remediation System Figures\Knight#1_SVE_2020_Site Layout_WP_V2.mxd

SMA BENCHMARK
ELEV. 5511.39'
NAD 83 NAVD 88
STATE PLANE COORDINATE SYSTEM
NEW MEXICO WEST

FORMER KNIGHT #1 WELLHEAD
MW-9
MW-10
AS-3
AS-4
MW-4
MW-8
SVE-2
FORMER EPC PIT - EXCAVATED APPROXIMATELY 12 FEET DEEP
AS-5
AS-1
MW-1
SVE-3
AS-6
MW-11
MW-14
FORMER DEHYDRATOR
FORMER SEPARATOR
SVE-1
MW-3
MW-7
AS-7
AS-8
AS-9
FORMER METER HOUSE
AS-10
SVE-5
SVE-4
FORMER TANK
AS-11
AS-12
AS-13
AS-14
MW-5
MW-12
SVE-7
MW-6
SVE-6
MW-2
AS-15
AS-16
SVE-8
MW-15
MW-13
AS-2
GRAVEL PAD
(CONSTRUCTED WITH
SOIL 6" HIGHER THAN
CURRENT ELEVATION)
FORMER TANKS
IRRIGATED FIELD
AERIAL IMAGERY FROM GOOGLE EARTH, DATED 4/6/2019

LEGEND

- ACCESS ROAD
- FENCE
- GATE
- GAS LINE
- UNKNOWN LINE
- FORMER WELLHEAD
- MONITORING WELL
- AIR SPARGE WELL
- SOIL VAPOR EXTRACTION WELL
- SMA BENCHMARK
- EARTHEN BERM
- CULVERT
- SWALE
- MULTIPLE BURIED CONDUIT
- SINGLE BURIED CONDUIT

N

SCALE IN FEET
0 30 60

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
B	3/10/2021	SAH	SAH	SRV

TITLE:

SITE PLAN

PROJECT:
KNIGHT #1
SAN JUAN RIVER BASIN
SAN JUAN COUNTY, NEW MEXICO

Stantec

Figure No.:
2

\\Us0389-ppfss01\shared_projects\193710238\07_historical\SJRB GENERAL\GIS-NEW_MXDs\KNIGHT #1\2021 MAPS\Knight#1_GARM_1SA_2021.mxd

SMA BENCHMARK
ELEV. 5511.39'
NAD 83 NAVD 88
STATE PLANE COORDINATE SYSTEM
NEW MEXICO WEST

FORMER KNIGHT #1 WELLHEAD

MW-10
B: <1.0
T: <1.0
E: <1.0
X: <10

MW-9
NS

MW-8
NS

MW-11
B: 15
T: <1.0
E: 7.2
X: 14

MW-4
NS

MW-1
B: 100
T: <1.0
E: 67
X: 13

DUP-01
B: 100
T: <1.0
E: 71
X: 12

FORMER EPC PIT - EXCAVATED APPROXIMATELY 12 FEET DEEP

FORMER DEHYDRATOR

MW-14
NS

FORMER SEPARATOR

MW-3
NS

MW-7
B: <1.0
T: <1.0
E: <1.0
X: <10

5510

FORMER METER HOUSE

FORMER TANK

MW-5
NS

MW-12
NS

MW-6
NS

MW-2
B: <1.0
T: <1.0
E: <1.0
X: <10

MW-15
B: <1.0
T: <1.0
E: <1.0
X: <10

MW-13
B: <1.0
T: <1.0
E: <1.0
X: <10

FORMER TANKS

IRRIGATED FIELD

AERIAL IMAGERY FROM GOOGLE EARTH, DATED 4/6/2019

LEGEND:

- APPROX. GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- FENCE
- GAS LINE
- FORMER WELLHEAD
- MONITORING WELL
- MONITORING WELL WITH MEASURABLE FREE PRODUCT
- AIR SPARGE WELL
- SOIL VAPOR EXTRACTION WELL
- SMA BENCHMARK

NOTES:

DUP = FIELD DUPLICATE SAMPLE
NO SAMPLING WAS COMPLETED FROM THE SVE OR AIR SPARGE WELLS

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
A	7/20/2021	SAH	SAH	SRV

TITLE:

GROUNDWATER ANALYTICAL RESULTS
MAY 21, 2021

PROJECT:

KNIGHT #1
SAN JUAN RIVER BASIN
SAN JUAN COUNTY, NEW MEXICO

Stantec

Figure No.: **3**

\\Us0389-ppfss01\shared_projects\193710238\07_historical\SJRB GENERAL\GIS-NEW_MXDs\KNIGHT #1\2021 MAPS\Knight#1_GECM_1SA_2021.mxd

SMA BENCHMARK
ELEV. 5511.39'
NAD 83 NAVD 88
STATE PLANE COORDINATE SYSTEM
NEW MEXICO WEST

FORMER KNIGHT #1 WELLHEAD

MW-9 5487.23
MW-10 5486.94
MW-4 5486.97
MW-8 5487.10
MW-11 5486.78
MW-14 5486.79
MW-1 5486.91
MW-3 5486.91
MW-7 5486.87
MW-5 5486.82
MW-12 5486.58
MW-2 5486.62
MW-6 5486.66
MW-15 5486.46
MW-13 5486.52

5487.2
5487.0
5486.8
5486.6
5510

AS-1 AS-2 AS-3 AS-4 AS-5 AS-6 AS-7 AS-8 AS-9 AS-10 AS-11 AS-12 AS-13 AS-14 AS-15 AS-16

SVE-1 SVE-2 SVE-3 SVE-4 SVE-5 SVE-6 SVE-7 SVE-8

FORMER DEHYDRATOR
FORMER SEPARATOR
FORMER EPC PIT - EXCAVATED APPROXIMATELY 12 FEET DEEP
FORMER METER HOUSE
FORMER TANK
FORMER TANKS
IRRIGATED FIELD

AERIAL IMAGERY FROM GOOGLE EARTH, DATED 4/6/2019

LEGEND:

- 5509 — APPROX. GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- FENCE
- G A S — GAS LINE
- FORMER WELLHEAD
- MONITORING WELL
- MONITORING WELL WITH MEASURABLE FREE PRODUCT
- A — AIR SPARGE WELL
- SOIL VAPOR EXTRACTION WELL
- SMA BENCHMARK

NOTES:

5486.82 — GROUNDWATER ELEVATION (CORRECTED FOR PRODUCT THICKNESS WHEN PRESENT) FEET ABOVE MEAN SEA LEVEL

5487.2 — CORRECTED WATER ELEVATION CONTOUR DASHED WHERE INFERRED (FEET ABOVE MEAN SEA LEVEL) 0.2 FOOT CONTOUR INTERVAL)

DIRECTION OF APPARENT GROUNDWATER FLOW

N

SCALE IN FEET
0 30 60

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
A	7/20/2021	SAH	SAH	SRV

TITLE:
GROUNDWATER ELEVATION MAP
MAY 21, 2021

PROJECT:
KNIGHT #1
SAN JUAN RIVER BASIN
SAN JUAN COUNTY, NEW MEXICO

Stantec

Figure No.: 4

\\Corp.ads\data\Virtual_Workspace\workgroup\1937\Active\193700102\03_data\gis_cad\gis\GIS-NEW_MXDs\KNIGHT #1\2021 MAPS\Knight#1_GARM_2SA_2021.mxd

SMA BENCHMARK
ELEV. 5511.39'
NAD 83 NAVD 88
STATE PLANE COORDINATE SYSTEM
NEW MEXICO WEST

FORMER KNIGHT #1 WELLHEAD

MW-10
B: <1.0
T: <1.0
E: <1.0
X: <10

MW-9
B: <1.0
T: <1.0
E: <1.0
X: <10

MW-8
B: <1.0
T: <1.0
E: <1.0
X: <10

MW-11
B: 18
T: <1.0
E: 10
X: 22

MW-4
NS

MW-1
B: 100
T: <1.0
E: 31
X: 11

DUP-01
B: 110
T: <1.0
E: 39
X: 14

FORMER EPC PIT - EXCAVATED APPROXIMATELY 12 FEET DEEP

FORMER DEHYDRATOR

MW-14
B: <1.0
T: <1.0
E: <1.0
X: <10

FORMER SEPARATOR

MW-3
B: 120
T: <1.0
E: 38
X: <10

MW-7
B: <1.0
T: <1.0
E: <1.0
X: <10

5510

FORMER METER HOUSE

FORMER TANK

MW-5
B: <1.0
T: <1.0
E: <1.0
X: <10

MW-12
NS

MW-6
B: <1.0
T: <1.0
E: <1.0
X: <10

MW-2
B: 28
T: <1.0
E: 2.4
X: 20

MW-15
B: <1.0
T: <1.0
E: <1.0
X: <10

MW-13
B: <1.0
T: <1.0
E: <1.0
X: <10

FORMER TANKS

IRRIGATED FIELD

AERIAL IMAGERY FROM GOOGLE EARTH, DATED 4/6/2019

LEGEND:

- APPROX. GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- FENCE
- GAS LINE
- FORMER WELLHEAD
- MONITORING WELL
- MONITORING WELL WITH MEASURABLE FREE PRODUCT
- AIR SPARGE WELL
- SOIL VAPOR EXTRACTION WELL
- SMA BENCHMARK

NOTES:

DUP = FIELD DUPLICATE SAMPLE
NO SAMPLING WAS COMPLETED FROM THE SVE OR AIR SPARGE WELLS

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
A	2022-01-27	SAH	SAH	SRV

TITLE:

GROUNDWATER ANALYTICAL RESULTS
NOVEMBER 12, 2021

PROJECT:

KNIGHT #1
SAN JUAN RIVER BASIN
SAN JUAN COUNTY, NEW MEXICO

Stantec

Figure No.: **5**

\\Corp.ads\data\Virtual_Workspace\workgroup\1937\Active\193700102\03_data\gis_cad\gis\GIS-NEW_MXDs\KNIGHT #1\2021 MAPS\Knight#1_GECM_2SA_2021.mxd

SMA BENCHMARK
ELEV. 5511.39'
NAD 83 NAVD 88
STATE PLANE COORDINATE SYSTEM
NEW MEXICO WEST

FORMER KNIGHT #1 WELLHEAD
FORMER DEHYDRATOR
FORMER SEPARATOR
FORMER EPC PIT - EXCAVATED APPROXIMATELY 12 FEET DEEP
FORMER METER HOUSE
FORMER TANK
FORMER TANKS
IRRIGATED FIELD

MW-9 5485.83
MW-10 5485.50
MW-4 5485.53
MW-8 5485.72
MW-11 5485.32
MW-14 5485.31
MW-1 5485.46
MW-3 5485.41
MW-7 5485.45
MW-5 5485.48
MW-12 5485.14
MW-2 5485.16
MW-6 5485.26
MW-15 5484.98
MW-13 5485.10

5485.8
5485.6
5485.4
5485.2
5485.0
5510

AS-1 AS-2 AS-3 AS-4 AS-5 AS-6 AS-7 AS-8 AS-9 AS-10 AS-11 AS-12 AS-13 AS-14 AS-15 AS-16

SVE-1 SVE-2 SVE-3 SVE-4 SVE-5 SVE-6 SVE-7 SVE-8

AERIAL IMAGERY FROM GOOGLE EARTH, DATED 4/6/2019

LEGEND:

- APPROX. GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- FENCE
- GAS LINE
- FORMER WELLHEAD
- MONITORING WELL
- MONITORING WELL WITH MEASURABLE FREE PRODUCT
- AIR SPARGE WELL
- SOIL VAPOR EXTRACTION WELL
- SMA BENCHMARK

NOTES:

5486.82 GROUNDWATER ELEVATION (CORRECTED FOR PRODUCT THICKNESS WHEN PRESENT) FEET ABOVE MEAN SEA LEVEL

5487.2 CORRECTED WATER ELEVATION CONTOUR DASHED WHERE INFERRED (FEET ABOVE MEAN SEA LEVEL) 0.2 FOOT CONTOUR INTERVAL)

DIRECTION OF APPARENT GROUNDWATER FLOW

N

SCALE IN FEET
0 30 60

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
A	2022-01-27	SAH	SAH	SRV

TITLE:
GROUNDWATER ELEVATION MAP
NOVEMBER 12, 2021

PROJECT:
KNIGHT #1
SAN JUAN RIVER BASIN
SAN JUAN COUNTY, NEW MEXICO

Stantec

Figure No.: 6

APPENDICES

APPENDIX A – NMOCD NOTIFICATION OF SITE ACTIVITIES

APPENDIX B – WASTE DISPOSAL DOCUMENTATION

APPENDIX C - GROUNDWATER SAMPLING ANALYTICAL REPORTS

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. 806693
NMOCD PERMIT: NM -001-0005
Oil Field Waste Document, Form C138
INVOICE:

DATE 03-17-21
GENERATOR: Santec
HAULING CO. Energy Minerals and Natural Res
ORDERED BY: Steven Berry

DEL. TKT#.
BILL TO: Santec
DRIVER: Tyrone
(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		Blanco Gas Plant	1	70			70	
2		San Juan River Gas Plant						21 MAR 17 6:20PM
3		7 locations, GCU Mesa						
4		James F. Bell, Knight #1, State Gas Com N#1 Fields A #7A, Ryelan #4-1						
5								

I, [illegible] representative or authorized agent for [illegible] do hereby

DATE 05-21-21 DEL. TKT#.

GENERATOR: EL PASO BILL TO: EL PASO

HAULING CO. Stanlac 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 3:23 PM	
3		Johnston Fed #4 / #6A						
4		Sundoval GC A #1A /						
5		CANADA MESA #2 K-27-20S-32E, Miley Fed #1A						

I, Joe Wiley, 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		K-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. 817538
NMOCD PERMIT: NM -001-0005
Oil Field Waste Document, Form C138
INVOICE:

DATE 11-13-21

GENERATOR: El paso CGP

HAULING CO. ~~Elpaso CGP~~ Slan tech

ORDERED BY: Joe wiley

DEL. TKT#.

BILL TO: Elpaso CGP

DRIVER: Sean C.
(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		Knight	1	70			70	21 NOV 13 5:31PM
2		Gallegos canyon unit 12-1E						
3		GCU com A #1/42 E						
4		Lateral L-40						
5		James F. Bell #1E						

I, [signature], 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 [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: 400-203818-1
Client Project/Site: Knight #1
Revision: 1

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

Attn: Steve Varsa

Authorized for release by:
6/1/2021 2:59:06 PM
Isabel Enfinger, Project Mgmt. Assistant
(850)471-6237
isabel.enfinger@Eurofinset.com

Designee for

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

Client: Stantec Consulting Services Inc
Project/Site: Knight #1

Laboratory Job ID: 400-203818-1

Table of Contents

Definitions/Glossary

Client: Stantec Consulting Services Inc
Project/Site: Knight #1

Job ID: 400-203818-1

Qualifiers

GC/MS VOA

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

Glossary

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

Case Narrative

Client: Stantec Consulting Services Inc
Project/Site: Knight #1

Job ID: 400-203818-1

Job ID: 400-203818-1

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

Job Narrative
400-203818-1

Comments
No additional comments.

Receipt
The samples were received on 5/25/2021 9:35 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 1.3º C.

GC/MS VOA
Method 8260C: The matrix spike (MS) recoveries for analytical batch 400-533260 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.

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: Knight #1

Job ID: 400-203818-1

Client Sample ID: TB-01 Lab Sample ID: 400-203818-1

No Detections.

Client Sample ID: DUP-01 Lab Sample ID: 400-203818-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	100		1.0		ug/L	1		8260C	Total/NA
Ethylbenzene	71		1.0		ug/L	1		8260C	Total/NA
Xylenes, Total	12		10		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1 Lab Sample ID: 400-203818-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	100		1.0		ug/L	1		8260C	Total/NA
Ethylbenzene	67		1.0		ug/L	1		8260C	Total/NA
Xylenes, Total	13		10		ug/L	1		8260C	Total/NA

Client Sample ID: MW-2 Lab Sample ID: 400-203818-4

No Detections.

Client Sample ID: MW-7 Lab Sample ID: 400-203818-5

No Detections.

Client Sample ID: MW-10 Lab Sample ID: 400-203818-6

No Detections.

Client Sample ID: MW-11 Lab Sample ID: 400-203818-7

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	15		1.0		ug/L	1		8260C	Total/NA
Ethylbenzene	7.2		1.0		ug/L	1		8260C	Total/NA
Xylenes, Total	14		10		ug/L	1		8260C	Total/NA

Client Sample ID: MW-13 Lab Sample ID: 400-203818-8

No Detections.

Client Sample ID: MW-15 Lab Sample ID: 400-203818-9

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Pensacola

Sample Summary

Client: Stantec Consulting Services Inc
Project/Site: Knight #1

Job ID: 400-203818-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
400-203818-1	TB-01	Water	05/21/21 07:00	05/25/21 09:35	
400-203818-2	DUP-01	Water	05/21/21 09:42	05/25/21 09:35	
400-203818-3	MW-1	Water	05/21/21 08:42	05/25/21 09:35	
400-203818-4	MW-2	Water	05/21/21 08:52	05/25/21 09:35	
400-203818-5	MW-7	Water	05/21/21 09:00	05/25/21 09:35	
400-203818-6	MW-10	Water	05/21/21 09:10	05/25/21 09:35	
400-203818-7	MW-11	Water	05/21/21 09:18	05/25/21 09:35	
400-203818-8	MW-13	Water	05/21/21 09:26	05/25/21 09:35	
400-203818-9	MW-15	Water	05/21/21 09:34	05/25/21 09:35	

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Knight #1

Job ID: 400-203818-1

Client Sample ID: TB-01

Date Collected: 05/21/21 07:00
Date Received: 05/25/21 09:35

Lab Sample ID: 400-203818-1

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			05/26/21 11:20	1
Toluene	<1.0		1.0		ug/L			05/26/21 11:20	1
Ethylbenzene	<1.0		1.0		ug/L			05/26/21 11:20	1
Xylenes, Total	<10		10		ug/L			05/26/21 11:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*90*		*78 - 118*		*05/26/21 11:20*	*1*
Dibromofluoromethane	*109*		*81 - 121*		*05/26/21 11:20*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*05/26/21 11:20*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Knight #1

Job ID: 400-203818-1

Client Sample ID: DUP-01
Date Collected: 05/21/21 09:42
Date Received: 05/25/21 09:35

Lab Sample ID: 400-203818-2
Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**100**		1.0		ug/L			05/26/21 14:48	1
Toluene	<1.0		1.0		ug/L			05/26/21 14:48	1
Ethylbenzene	**71**		1.0		ug/L			05/26/21 14:48	1
Xylenes, Total	**12**		10		ug/L			05/26/21 14:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*78 - 118*		*05/26/21 14:48*	*1*
Dibromofluoromethane	*102*		*81 - 121*		*05/26/21 14:48*	*1*
Toluene-d8 (Surr)	*120*		*80 - 120*		*05/26/21 14:48*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Knight #1

Job ID: 400-203818-1

Client Sample ID: MW-1

Date Collected: 05/21/21 08:42
Date Received: 05/25/21 09:35

Lab Sample ID: 400-203818-3

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**100**		1.0		ug/L			05/26/21 15:14	1
Toluene	<1.0		1.0		ug/L			05/26/21 15:14	1
Ethylbenzene	**67**		1.0		ug/L			05/26/21 15:14	1
Xylenes, Total	**13**		10		ug/L			05/26/21 15:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*89*		*78 - 118*		*05/26/21 15:14*	*1*
Dibromofluoromethane	*102*		*81 - 121*		*05/26/21 15:14*	*1*
Toluene-d8 (Surr)	*120*		*80 - 120*		*05/26/21 15:14*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Knight #1

Job ID: 400-203818-1

Client Sample ID: MW-2

Date Collected: 05/21/21 08:52
Date Received: 05/25/21 09:35

Lab Sample ID: 400-203818-4

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			05/26/21 11:46	1
Toluene	<1.0		1.0		ug/L			05/26/21 11:46	1
Ethylbenzene	<1.0		1.0		ug/L			05/26/21 11:46	1
Xylenes, Total	<10	F1	10		ug/L			05/26/21 11:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*78 - 118*		*05/26/21 11:46*	*1*
Dibromofluoromethane	*109*		*81 - 121*		*05/26/21 11:46*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*05/26/21 11:46*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Knight #1

Job ID: 400-203818-1

Client Sample ID: MW-7

Date Collected: 05/21/21 09:00
Date Received: 05/25/21 09:35

Lab Sample ID: 400-203818-5

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			05/26/21 12:12	1
Toluene	<1.0		1.0		ug/L			05/26/21 12:12	1
Ethylbenzene	<1.0		1.0		ug/L			05/26/21 12:12	1
Xylenes, Total	<10		10		ug/L			05/26/21 12:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*89*		*78 - 118*		*05/26/21 12:12*	*1*
Dibromofluoromethane	*107*		*81 - 121*		*05/26/21 12:12*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*05/26/21 12:12*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Knight #1

Job ID: 400-203818-1

Client Sample ID: MW-10

Date Collected: 05/21/21 09:10
Date Received: 05/25/21 09:35

Lab Sample ID: 400-203818-6

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			05/26/21 12:38	1
Toluene	<1.0		1.0		ug/L			05/26/21 12:38	1
Ethylbenzene	<1.0		1.0		ug/L			05/26/21 12:38	1
Xylenes, Total	<10		10		ug/L			05/26/21 12:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*90*		*78 - 118*		*05/26/21 12:38*	*1*
Dibromofluoromethane	*109*		*81 - 121*		*05/26/21 12:38*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*05/26/21 12:38*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Knight #1

Job ID: 400-203818-1

Client Sample ID: MW-11
Date Collected: 05/21/21 09:18
Date Received: 05/25/21 09:35

Lab Sample ID: 400-203818-7
Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**15**		1.0		ug/L			05/26/21 13:04	1
Toluene	<1.0		1.0		ug/L			05/26/21 13:04	1
Ethylbenzene	**7.2**		1.0		ug/L			05/26/21 13:04	1
Xylenes, Total	**14**		10		ug/L			05/26/21 13:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*78 - 118*		*05/26/21 13:04*	*1*
Dibromofluoromethane	*106*		*81 - 121*		*05/26/21 13:04*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*05/26/21 13:04*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Knight #1

Job ID: 400-203818-1

Client Sample ID: MW-13

Date Collected: 05/21/21 09:26
Date Received: 05/25/21 09:35

Lab Sample ID: 400-203818-8

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			05/26/21 13:30	1
Toluene	<1.0		1.0		ug/L			05/26/21 13:30	1
Ethylbenzene	<1.0		1.0		ug/L			05/26/21 13:30	1
Xylenes, Total	<10		10		ug/L			05/26/21 13:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*89*		*78 - 118*		*05/26/21 13:30*	*1*
Dibromofluoromethane	*111*		*81 - 121*		*05/26/21 13:30*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*05/26/21 13:30*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Knight #1

Job ID: 400-203818-1

Client Sample ID: MW-15

Date Collected: 05/21/21 09:34
Date Received: 05/25/21 09:35

Lab Sample ID: 400-203818-9

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			05/26/21 13:56	1
Toluene	<1.0		1.0		ug/L			05/26/21 13:56	1
Ethylbenzene	<1.0		1.0		ug/L			05/26/21 13:56	1
Xylenes, Total	<10		10		ug/L			05/26/21 13:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*89*		*78 - 118*		*05/26/21 13:56*	*1*
Dibromofluoromethane	*110*		*81 - 121*		*05/26/21 13:56*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*05/26/21 13:56*	*1*

QC Association Summary

Client: Stantec Consulting Services Inc
Project/Site: Knight #1

Job ID: 400-203818-1

GC/MS VOA

Analysis Batch: 533260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-203818-1	TB-01	Total/NA	Water	8260C	
400-203818-2	DUP-01	Total/NA	Water	8260C	
400-203818-3	MW-1	Total/NA	Water	8260C	
400-203818-4	MW-2	Total/NA	Water	8260C	
400-203818-5	MW-7	Total/NA	Water	8260C	
400-203818-6	MW-10	Total/NA	Water	8260C	
400-203818-7	MW-11	Total/NA	Water	8260C	
400-203818-8	MW-13	Total/NA	Water	8260C	
400-203818-9	MW-15	Total/NA	Water	8260C	
MB 400-533260/4	Method Blank	Total/NA	Water	8260C	
LCS 400-533260/1002	Lab Control Sample	Total/NA	Water	8260C	
400-203818-4 MS	MW-2	Total/NA	Water	8260C	
400-203818-4 MSD	MW-2	Total/NA	Water	8260C	

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Knight #1

Job ID: 400-203818-1

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

Lab Sample ID: MB 400-533260/4
Matrix: Water
Analysis Batch: 533260

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			05/26/21 10:54	1
Toluene	<1.0		1.0		ug/L			05/26/21 10:54	1
Ethylbenzene	<1.0		1.0		ug/L			05/26/21 10:54	1
Xylenes, Total	<10		10		ug/L			05/26/21 10:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*89*		*78 - 118*		*05/26/21 10:54*	*1*
Dibromofluoromethane	*108*		*81 - 121*		*05/26/21 10:54*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*05/26/21 10:54*	*1*

Lab Sample ID: LCS 400-533260/1002
Matrix: Water
Analysis Batch: 533260

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			50.0	47.5		ug/L		95	70 - 130		
Toluene			50.0	46.8		ug/L		94	70 - 130		
Ethylbenzene			50.0	50.9		ug/L		102	70 - 130		
Xylenes, Total			100	100		ug/L		100	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*89*		*78 - 118*
Dibromofluoromethane	*105*		*81 - 121*
Toluene-d8 (Surr)	*99*		*80 - 120*

Lab Sample ID: 400-203818-4 MS
Matrix: Water
Analysis Batch: 533260

Client Sample ID: MW-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<1.0		50.0	41.3		ug/L		83	56 - 142		
Toluene	<1.0		50.0	33.3		ug/L		67	65 - 130		
Ethylbenzene	<1.0		50.0	28.8		ug/L		58	58 - 131		
Xylenes, Total	<10	F1	100	57.4	F1	ug/L		57	59 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*91*		*78 - 118*
Dibromofluoromethane	*107*		*81 - 121*
Toluene-d8 (Surr)	*97*		*80 - 120*

Lab Sample ID: 400-203818-4 MSD
Matrix: Water
Analysis Batch: 533260

Client Sample ID: MW-2
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	42.0		ug/L		84	56 - 142	2	30
Toluene	<1.0		50.0	37.5		ug/L		75	65 - 130	12	30
Ethylbenzene	<1.0		50.0	36.8		ug/L		74	58 - 131	24	30

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Knight #1

Job ID: 400-203818-1

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

Lab Sample ID: 400-203818-4 MSD
Matrix: Water
Analysis Batch: 533260

Client Sample ID: MW-2
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	72.8		ug/L		73	59 - 130	24	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*90*		*78 - 118*
Dibromofluoromethane	*107*		*81 - 121*
Toluene-d8 (Surr)	*96*		*80 - 120*

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Knight #1

Job ID: 400-203818-1

Client Sample ID: TB-01
Date Collected: 05/21/21 07:00
Date Received: 05/25/21 09:35

Lab Sample ID: 400-203818-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	533260	05/26/21 11:20	SAB	TAL PEN
	Instrument ID: CH_TAN									

Client Sample ID: DUP-01
Date Collected: 05/21/21 09:42
Date Received: 05/25/21 09:35

Lab Sample ID: 400-203818-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	533260	05/26/21 14:48	SAB	TAL PEN
	Instrument ID: CH_TAN									

Client Sample ID: MW-1
Date Collected: 05/21/21 08:42
Date Received: 05/25/21 09:35

Lab Sample ID: 400-203818-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	533260	05/26/21 15:14	SAB	TAL PEN
	Instrument ID: CH_TAN									

Client Sample ID: MW-2
Date Collected: 05/21/21 08:52
Date Received: 05/25/21 09:35

Lab Sample ID: 400-203818-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	533260	05/26/21 11:46	SAB	TAL PEN
	Instrument ID: CH_TAN									

Client Sample ID: MW-7
Date Collected: 05/21/21 09:00
Date Received: 05/25/21 09:35

Lab Sample ID: 400-203818-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	533260	05/26/21 12:12	SAB	TAL PEN
	Instrument ID: CH_TAN									

Client Sample ID: MW-10
Date Collected: 05/21/21 09:10
Date Received: 05/25/21 09:35

Lab Sample ID: 400-203818-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	533260	05/26/21 12:38	SAB	TAL PEN
	Instrument ID: CH_TAN									

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Knight #1

Job ID: 400-203818-1

Client Sample ID: MW-11
Date Collected: 05/21/21 09:18
Date Received: 05/25/21 09:35

Lab Sample ID: 400-203818-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	533260	05/26/21 13:04	SAB	TAL PEN
	Instrument ID: CH_TAN									

Client Sample ID: MW-13
Date Collected: 05/21/21 09:26
Date Received: 05/25/21 09:35

Lab Sample ID: 400-203818-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	533260	05/26/21 13:30	SAB	TAL PEN
	Instrument ID: CH_TAN									

Client Sample ID: MW-15
Date Collected: 05/21/21 09:34
Date Received: 05/25/21 09:35

Lab Sample ID: 400-203818-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	533260	05/26/21 13:56	SAB	TAL PEN
	Instrument ID: CH_TAN									

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 Job ID: 400-203818-1
Project/Site: Knight #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: Knight #1

Job ID: 400-203818-1

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: SRC, MW	Lab PM: Edwards, Marty P	Carrier Tracking No(s):	COC No: 400-102790-36527.1
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: Knight #1.00	Project #: 40005479			
Site: Knight	SSOW#:			

Analysis Requested

400-203818 COC

Preservation Codes:

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

Other:

SRC-GRAB-STN-05-06-21
SRC-10

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - (MOD) BTEX 8260	8260C - (MOD) BTEX 8260 (unpreserved)	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
TB-01	5/21/2021	0700	G	Water			2		2	Trip Blank
DUP-01	5/21/2021	0942	G	Water				3	3	Duplicate
MW-1	5/21/2021	0842	G	Water				3	3	
MW-2	5/21/2021	0852	G	Water				3	3	
MW-7	5/21/2021	0900	G	Water				3	3	
MW-10	5/21/2021	0910	G	Water			3		3	
MW-11	5/21/2021	0918	G	Water				3	3	
MW-13	5/21/2021	0926	G	Water			3		3	
MW-15	5/21/2021	0934	G	Water			3		3	

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

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

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

Special Instructions/QC Requirements:

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Sean N Clay	5/24/2021 0800	STN	FedEx	5/24/2021	FedEx
2		Date/Time:	Company	Received by:	Date/Time:	Company
3		Date/Time:	Company	Received by:	Date/Time: 5-25-21 0935	Company ETA

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

Cooler Temperature(s) °C and Other Remarks: 1.3°C IR7

Ver: 11/01/2020

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc Job Number: 400-203818-1

Login Number: 203818 **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	1.3°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	

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 400-211189-1
Client Project/Site: Knight #1

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 8:02:07 PM

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

Client: Stantec Consulting Services Inc
Project/Site: Knight #1

Laboratory Job ID: 400-211189-1

Table of Contents

Definitions/Glossary

Client: Stantec Consulting Services Inc
Project/Site: Knight #1

Job ID: 400-211189-1

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: Knight #1

Job ID: 400-211189-1

Job ID: 400-211189-1

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

Job Narrative
400-211189-1

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 4.1º 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 samples were outside control limits: DUP-01 (400-211189-2) and MW-1 (400-211189-3). 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: Knight #1

Job ID: 400-211189-1

Client Sample ID: TB-01 Lab Sample ID: 400-211189-1

No Detections.

Client Sample ID: DUP-01 Lab Sample ID: 400-211189-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	110		1.0		ug/L	1		8260C	Total/NA
Ethylbenzene	39		1.0		ug/L	1		8260C	Total/NA
Xylenes, Total	14		10		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1 Lab Sample ID: 400-211189-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	100		1.0		ug/L	1		8260C	Total/NA
Ethylbenzene	31		1.0		ug/L	1		8260C	Total/NA
Xylenes, Total	11		10		ug/L	1		8260C	Total/NA

Client Sample ID: MW-2 Lab Sample ID: 400-211189-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	28		1.0		ug/L	1		8260C	Total/NA
Ethylbenzene	2.4		1.0		ug/L	1		8260C	Total/NA
Xylenes, Total	20		10		ug/L	1		8260C	Total/NA

Client Sample ID: MW-3 Lab Sample ID: 400-211189-5

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	120		1.0		ug/L	1		8260C	Total/NA
Ethylbenzene	38		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-5 Lab Sample ID: 400-211189-6

No Detections.

Client Sample ID: MW-6 Lab Sample ID: 400-211189-7

No Detections.

Client Sample ID: MW-7 Lab Sample ID: 400-211189-8

No Detections.

Client Sample ID: MW-8 Lab Sample ID: 400-211189-9

No Detections.

Client Sample ID: MW-9 Lab Sample ID: 400-211189-10

No Detections.

Client Sample ID: MW-10 Lab Sample ID: 400-211189-11

No Detections.

Client Sample ID: MW-11 Lab Sample ID: 400-211189-12

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	18		1.0		ug/L	1		8260C	Total/NA
Ethylbenzene	10		1.0		ug/L	1		8260C	Total/NA
Xylenes, Total	22		10		ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Pensacola

Detection Summary

Client: Stantec Consulting Services Inc
Project/Site: Knight #1

Job ID: 400-211189-1

Client Sample ID: MW-13 Lab Sample ID: 400-211189-13

No Detections.

Client Sample ID: MW-14 Lab Sample ID: 400-211189-14

No Detections.

Client Sample ID: MW-15 Lab Sample ID: 400-211189-15

No Detections.

This Detection Summary does not include radiochemical test results.

Sample Summary

Client: Stantec Consulting Services Inc
Project/Site: Knight #1

Job ID: 400-211189-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-211189-1	TB-01	Water	11/12/21 07:00	11/13/21 09:08
400-211189-2	DUP-01	Water	11/12/21 09:00	11/13/21 09:08
400-211189-3	MW-1	Water	11/12/21 08:00	11/13/21 09:08
400-211189-4	MW-2	Water	11/12/21 08:12	11/13/21 09:08
400-211189-5	MW-3	Water	11/12/21 08:18	11/13/21 09:08
400-211189-6	MW-5	Water	11/12/21 08:23	11/13/21 09:08
400-211189-7	MW-6	Water	11/12/21 08:28	11/13/21 09:08
400-211189-8	MW-7	Water	11/12/21 08:32	11/13/21 09:08
400-211189-9	MW-8	Water	11/12/21 08:36	11/13/21 09:08
400-211189-10	MW-9	Water	11/12/21 08:40	11/13/21 09:08
400-211189-11	MW-10	Water	11/12/21 08:44	11/13/21 09:08
400-211189-12	MW-11	Water	11/12/21 08:48	11/13/21 09:08
400-211189-13	MW-13	Water	11/12/21 08:53	11/13/21 09:08
400-211189-14	MW-14	Water	11/12/21 08:57	11/13/21 09:08
400-211189-15	MW-15	Water	11/12/21 09:05	11/13/21 09:08

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Knight #1

Job ID: 400-211189-1

Client Sample ID: TB-01

Date Collected: 11/12/21 07:00
Date Received: 11/13/21 09:08

Lab Sample ID: 400-211189-1

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			11/22/21 14:27	1
Toluene	<1.0		1.0		ug/L			11/22/21 14:27	1
Ethylbenzene	<1.0		1.0		ug/L			11/22/21 14:27	1
Xylenes, Total	<10		10		ug/L			11/22/21 14:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*72 - 119*		*11/22/21 14:27*	*1*
Dibromofluoromethane	*105*		*75 - 126*		*11/22/21 14:27*	*1*
Toluene-d8 (Surr)	*93*		*64 - 132*		*11/22/21 14:27*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Knight #1

Job ID: 400-211189-1

Client Sample ID: DUP-01

Date Collected: 11/12/21 09:00
Date Received: 11/13/21 09:08

Lab Sample ID: 400-211189-2

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**110**		1.0		ug/L			11/17/21 13:35	1
Toluene	<1.0		1.0		ug/L			11/17/21 13:35	1
Ethylbenzene	**39**		1.0		ug/L			11/17/21 13:35	1
Xylenes, Total	**14**		10		ug/L			11/17/21 13:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*72 - 119*		*11/17/21 13:35*	*1*
Dibromofluoromethane	*99*		*75 - 126*		*11/17/21 13:35*	*1*
Toluene-d8 (Surr)	*139*	*S1+*	*64 - 132*		*11/17/21 13:35*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Knight #1

Job ID: 400-211189-1

Client Sample ID: MW-1
Date Collected: 11/12/21 08:00
Date Received: 11/13/21 09:08

Lab Sample ID: 400-211189-3
Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**100**		1.0		ug/L			11/17/21 14:01	1
Toluene	<1.0		1.0		ug/L			11/17/21 14:01	1
Ethylbenzene	**31**		1.0		ug/L			11/17/21 14:01	1
Xylenes, Total	**11**		10		ug/L			11/17/21 14:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*72 - 119*		*11/17/21 14:01*	*1*
Dibromofluoromethane	*97*		*75 - 126*		*11/17/21 14:01*	*1*
Toluene-d8 (Surr)	*138*	*S1+*	*64 - 132*		*11/17/21 14:01*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Knight #1

Job ID: 400-211189-1

Client Sample ID: MW-2

Date Collected: 11/12/21 08:12
Date Received: 11/13/21 09:08

Lab Sample ID: 400-211189-4

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**28**		1.0		ug/L			11/17/21 14:27	1
Toluene	<1.0		1.0		ug/L			11/17/21 14:27	1
Ethylbenzene	**2.4**		1.0		ug/L			11/17/21 14:27	1
Xylenes, Total	**20**		10		ug/L			11/17/21 14:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*72 - 119*		*11/17/21 14:27*	*1*
Dibromofluoromethane	*99*		*75 - 126*		*11/17/21 14:27*	*1*
Toluene-d8 (Surr)	*106*		*64 - 132*		*11/17/21 14:27*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Knight #1

Job ID: 400-211189-1

Client Sample ID: MW-3

Date Collected: 11/12/21 08:18
Date Received: 11/13/21 09:08

Lab Sample ID: 400-211189-5

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**120**		1.0		ug/L			11/22/21 15:42	1
Toluene	<1.0		1.0		ug/L			11/22/21 15:42	1
Ethylbenzene	**38**		1.0		ug/L			11/22/21 15:42	1
Xylenes, Total	<10		10		ug/L			11/22/21 15:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*89*		*72 - 119*		*11/22/21 15:42*	*1*
Dibromofluoromethane	*103*		*75 - 126*		*11/22/21 15:42*	*1*
Toluene-d8 (Surr)	*112*		*64 - 132*		*11/22/21 15:42*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Knight #1

Job ID: 400-211189-1

Client Sample ID: MW-5

Date Collected: 11/12/21 08:23
Date Received: 11/13/21 09:08

Lab Sample ID: 400-211189-6

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			11/22/21 16:07	1
Toluene	<1.0		1.0		ug/L			11/22/21 16:07	1
Ethylbenzene	<1.0		1.0		ug/L			11/22/21 16:07	1
Xylenes, Total	<10		10		ug/L			11/22/21 16:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*72 - 119*		*11/22/21 16:07*	*1*
Dibromofluoromethane	*104*		*75 - 126*		*11/22/21 16:07*	*1*
Toluene-d8 (Surr)	*94*		*64 - 132*		*11/22/21 16:07*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Knight #1

Job ID: 400-211189-1

Client Sample ID: MW-6
Date Collected: 11/12/21 08:28
Date Received: 11/13/21 09:08

Lab Sample ID: 400-211189-7
Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/22/21 16:33	1
Toluene	<1.0		1.0		ug/L			11/22/21 16:33	1
Ethylbenzene	<1.0		1.0		ug/L			11/22/21 16:33	1
Xylenes, Total	<10		10		ug/L			11/22/21 16:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*106*		*72 - 119*		*11/22/21 16:33*	*1*
Dibromofluoromethane	*104*		*75 - 126*		*11/22/21 16:33*	*1*
Toluene-d8 (Surr)	*94*		*64 - 132*		*11/22/21 16:33*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Knight #1

Job ID: 400-211189-1

Client Sample ID: MW-7

Date Collected: 11/12/21 08:32
Date Received: 11/13/21 09:08

Lab Sample ID: 400-211189-8

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 14:53	1
Toluene	<1.0		1.0		ug/L			11/17/21 14:53	1
Ethylbenzene	<1.0		1.0		ug/L			11/17/21 14:53	1
Xylenes, Total	<10		10		ug/L			11/17/21 14:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*89*		*72 - 119*		*11/17/21 14:53*	*1*
Dibromofluoromethane	*101*		*75 - 126*		*11/17/21 14:53*	*1*
Toluene-d8 (Surr)	*104*		*64 - 132*		*11/17/21 14:53*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Knight #1

Job ID: 400-211189-1

Client Sample ID: MW-8

Date Collected: 11/12/21 08:36
Date Received: 11/13/21 09:08

Lab Sample ID: 400-211189-9

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			11/22/21 16:58	1
Toluene	<1.0		1.0		ug/L			11/22/21 16:58	1
Ethylbenzene	<1.0		1.0		ug/L			11/22/21 16:58	1
Xylenes, Total	<10		10		ug/L			11/22/21 16:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*113*		*72 - 119*		*11/22/21 16:58*	*1*
Dibromofluoromethane	*105*		*75 - 126*		*11/22/21 16:58*	*1*
Toluene-d8 (Surr)	*94*		*64 - 132*		*11/22/21 16:58*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Knight #1

Job ID: 400-211189-1

Client Sample ID: MW-9
Date Collected: 11/12/21 08:40
Date Received: 11/13/21 09:08

Lab Sample ID: 400-211189-10
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			11/22/21 17:23	1
Toluene	<1.0		1.0		ug/L			11/22/21 17:23	1
Ethylbenzene	<1.0		1.0		ug/L			11/22/21 17:23	1
Xylenes, Total	<10		10		ug/L			11/22/21 17:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*103*		*72 - 119*		*11/22/21 17:23*	*1*
Dibromofluoromethane	*108*		*75 - 126*		*11/22/21 17:23*	*1*
Toluene-d8 (Surr)	*92*		*64 - 132*		*11/22/21 17:23*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Knight #1

Job ID: 400-211189-1

Client Sample ID: MW-10

Date Collected: 11/12/21 08:44
Date Received: 11/13/21 09:08

Lab Sample ID: 400-211189-11

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			11/22/21 17:48	1
Toluene	<1.0		1.0		ug/L			11/22/21 17:48	1
Ethylbenzene	<1.0		1.0		ug/L			11/22/21 17:48	1
Xylenes, Total	<10		10		ug/L			11/22/21 17:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*107*		*72 - 119*		*11/22/21 17:48*	*1*
Dibromofluoromethane	*107*		*75 - 126*		*11/22/21 17:48*	*1*
Toluene-d8 (Surr)	*93*		*64 - 132*		*11/22/21 17:48*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Knight #1

Job ID: 400-211189-1

Client Sample ID: MW-11

Date Collected: 11/12/21 08:48
Date Received: 11/13/21 09:08

Lab Sample ID: 400-211189-12

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**18**		1.0		ug/L			11/17/21 15:19	1
Toluene	<1.0		1.0		ug/L			11/17/21 15:19	1
Ethylbenzene	**10**		1.0		ug/L			11/17/21 15:19	1
Xylenes, Total	**22**		10		ug/L			11/17/21 15:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*72 - 119*		*11/17/21 15:19*	*1*
Dibromofluoromethane	*100*		*75 - 126*		*11/17/21 15:19*	*1*
Toluene-d8 (Surr)	*108*		*64 - 132*		*11/17/21 15:19*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Knight #1

Job ID: 400-211189-1

Client Sample ID: MW-13
Date Collected: 11/12/21 08:53
Date Received: 11/13/21 09:08

Lab Sample ID: 400-211189-13
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			11/22/21 18:13	1
Toluene	<1.0		1.0		ug/L			11/22/21 18:13	1
Ethylbenzene	<1.0		1.0		ug/L			11/22/21 18:13	1
Xylenes, Total	<10		10		ug/L			11/22/21 18:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*72 - 119*		*11/22/21 18:13*	*1*
Dibromofluoromethane	*106*		*75 - 126*		*11/22/21 18:13*	*1*
Toluene-d8 (Surr)	*93*		*64 - 132*		*11/22/21 18:13*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Knight #1

Job ID: 400-211189-1

Client Sample ID: MW-14

Date Collected: 11/12/21 08:57
Date Received: 11/13/21 09:08

Lab Sample ID: 400-211189-14

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			11/22/21 18:38	1
Toluene	<1.0		1.0		ug/L			11/22/21 18:38	1
Ethylbenzene	<1.0		1.0		ug/L			11/22/21 18:38	1
Xylenes, Total	<10		10		ug/L			11/22/21 18:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*115*		*72 - 119*		*11/22/21 18:38*	*1*
Dibromofluoromethane	*106*		*75 - 126*		*11/22/21 18:38*	*1*
Toluene-d8 (Surr)	*92*		*64 - 132*		*11/22/21 18:38*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Knight #1

Job ID: 400-211189-1

Client Sample ID: MW-15

Date Collected: 11/12/21 09:05
Date Received: 11/13/21 09:08

Lab Sample ID: 400-211189-15

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			11/22/21 19:03	1
Toluene	<1.0		1.0		ug/L			11/22/21 19:03	1
Ethylbenzene	<1.0		1.0		ug/L			11/22/21 19:03	1
Xylenes, Total	<10		10		ug/L			11/22/21 19:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*106*		*72 - 119*		*11/22/21 19:03*	*1*
Dibromofluoromethane	*105*		*75 - 126*		*11/22/21 19:03*	*1*
Toluene-d8 (Surr)	*94*		*64 - 132*		*11/22/21 19:03*	*1*

QC Association Summary

Client: Stantec Consulting Services Inc
Project/Site: Knight #1

Job ID: 400-211189-1

GC/MS VOA

Analysis Batch: 556189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-211189-2	DUP-01	Total/NA	Water	8260C	
400-211189-3	MW-1	Total/NA	Water	8260C	
400-211189-4	MW-2	Total/NA	Water	8260C	
400-211189-8	MW-7	Total/NA	Water	8260C	
400-211189-12	MW-11	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-A-3 MS	Matrix Spike	Total/NA	Water	8260C	
400-211182-A-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260C	

Analysis Batch: 556859

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-211189-1	TB-01	Total/NA	Water	8260C	
400-211189-5	MW-3	Total/NA	Water	8260C	
400-211189-6	MW-5	Total/NA	Water	8260C	
400-211189-7	MW-6	Total/NA	Water	8260C	
400-211189-9	MW-8	Total/NA	Water	8260C	
400-211189-10	MW-9	Total/NA	Water	8260C	
400-211189-11	MW-10	Total/NA	Water	8260C	
400-211189-13	MW-13	Total/NA	Water	8260C	
400-211189-14	MW-14	Total/NA	Water	8260C	
400-211189-15	MW-15	Total/NA	Water	8260C	
MB 400-556859/5	Method Blank	Total/NA	Water	8260C	
LCS 400-556859/1002	Lab Control Sample	Total/NA	Water	8260C	
400-211168-B-2 MS	Matrix Spike	Total/NA	Water	8260C	
400-211168-B-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260C	

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Knight #1

Job ID: 400-211189-1

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-A-3 MS
Matrix: Water
Analysis Batch: 556189

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<1.0		50.0	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-A-3 MSD
Matrix: Water
Analysis Batch: 556189

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<1.0		50.0	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: Knight #1

Job ID: 400-211189-1

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

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

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Xylenes, Total	<10	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 400-556859/5
Matrix: Water
Analysis Batch: 556859

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			11/22/21 10:35	1
Toluene	<1.0		1.0		ug/L			11/22/21 10:35	1
Ethylbenzene	<1.0		1.0		ug/L			11/22/21 10:35	1
Xylenes, Total	<10		10		ug/L			11/22/21 10:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*104*		*72 - 119*		*11/22/21 10:35*	*1*
Dibromofluoromethane	*106*		*75 - 126*		*11/22/21 10:35*	*1*
Toluene-d8 (Surr)	*94*		*64 - 132*		*11/22/21 10:35*	*1*

Lab Sample ID: LCS 400-556859/1002
Matrix: Water
Analysis Batch: 556859

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	50.2		ug/L		100	70 - 130		
Toluene			50.0	47.1		ug/L		94	70 - 130		
Ethylbenzene			50.0	48.0		ug/L		96	70 - 130		
Xylenes, Total			100	94.7		ug/L		95	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*86*		*72 - 119*
Dibromofluoromethane	*102*		*75 - 126*
Toluene-d8 (Surr)	*93*		*64 - 132*

Lab Sample ID: 400-211168-B-2 MS
Matrix: Water
Analysis Batch: 556859

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	10		50.0	54.9		ug/L		90	56 - 142		
Toluene	<1.0		50.0	38.8		ug/L		78	65 - 130		
Ethylbenzene	<1.0		50.0	36.7		ug/L		73	58 - 131		
Xylenes, Total	<10		100	71.6		ug/L		72	59 - 130		

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Knight #1

Job ID: 400-211189-1

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

Lab Sample ID: 400-211168-B-2 MS
Matrix: Water
Analysis Batch: 556859

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

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene	*83*		*72 - 119*
Dibromofluoromethane	*103*		*75 - 126*
Toluene-d8 (Surr)	*91*		*64 - 132*

Lab Sample ID: 400-211168-B-2 MSD
Matrix: Water
Analysis Batch: 556859

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	10		50.0	50.5		ug/L		81	56 - 142	8	30
Toluene	<1.0		50.0	34.4		ug/L		69	65 - 130	12	30
Ethylbenzene	<1.0		50.0	31.7		ug/L		63	58 - 131	15	30
Xylenes, Total	<10		100	62.8		ug/L		63	59 - 130	13	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene	*83*		*72 - 119*
Dibromofluoromethane	*103*		*75 - 126*
Toluene-d8 (Surr)	*92*		*64 - 132*

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Knight #1

Job ID: 400-211189-1

Client Sample ID: TB-01
Date Collected: 11/12/21 07:00
Date Received: 11/13/21 09:08

Lab Sample ID: 400-211189-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	556859	11/22/21 14:27	HML	TAL PEN
	Instrument ID: CH_LARS									

Client Sample ID: DUP-01
Date Collected: 11/12/21 09:00
Date Received: 11/13/21 09:08

Lab Sample ID: 400-211189-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	556189	11/17/21 13:35	BPO	TAL PEN
	Instrument ID: CH_TAN									

Client Sample ID: MW-1
Date Collected: 11/12/21 08:00
Date Received: 11/13/21 09:08

Lab Sample ID: 400-211189-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	556189	11/17/21 14:01	BPO	TAL PEN
	Instrument ID: CH_TAN									

Client Sample ID: MW-2
Date Collected: 11/12/21 08:12
Date Received: 11/13/21 09:08

Lab Sample ID: 400-211189-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	556189	11/17/21 14:27	BPO	TAL PEN
	Instrument ID: CH_TAN									

Client Sample ID: MW-3
Date Collected: 11/12/21 08:18
Date Received: 11/13/21 09:08

Lab Sample ID: 400-211189-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	556859	11/22/21 15:42	HML	TAL PEN
	Instrument ID: CH_LARS									

Client Sample ID: MW-5
Date Collected: 11/12/21 08:23
Date Received: 11/13/21 09:08

Lab Sample ID: 400-211189-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	556859	11/22/21 16:07	HML	TAL PEN
	Instrument ID: CH_LARS									

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Knight #1

Job ID: 400-211189-1

Client Sample ID: MW-6
Date Collected: 11/12/21 08:28
Date Received: 11/13/21 09:08

Lab Sample ID: 400-211189-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	556859	11/22/21 16:33	HML	TAL PEN
	Instrument ID: CH_LARS									

Client Sample ID: MW-7
Date Collected: 11/12/21 08:32
Date Received: 11/13/21 09:08

Lab Sample ID: 400-211189-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	556189	11/17/21 14:53	BPO	TAL PEN
	Instrument ID: CH_TAN									

Client Sample ID: MW-8
Date Collected: 11/12/21 08:36
Date Received: 11/13/21 09:08

Lab Sample ID: 400-211189-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	556859	11/22/21 16:58	HML	TAL PEN
	Instrument ID: CH_LARS									

Client Sample ID: MW-9
Date Collected: 11/12/21 08:40
Date Received: 11/13/21 09:08

Lab Sample ID: 400-211189-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	556859	11/22/21 17:23	HML	TAL PEN
	Instrument ID: CH_LARS									

Client Sample ID: MW-10
Date Collected: 11/12/21 08:44
Date Received: 11/13/21 09:08

Lab Sample ID: 400-211189-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	556859	11/22/21 17:48	HML	TAL PEN
	Instrument ID: CH_LARS									

Client Sample ID: MW-11
Date Collected: 11/12/21 08:48
Date Received: 11/13/21 09:08

Lab Sample ID: 400-211189-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	556189	11/17/21 15:19	BPO	TAL PEN
	Instrument ID: CH_TAN									

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Knight #1

Job ID: 400-211189-1

Client Sample ID: MW-13
Date Collected: 11/12/21 08:53
Date Received: 11/13/21 09:08

Lab Sample ID: 400-211189-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	556859	11/22/21 18:13	HML	TAL PEN
	Instrument ID: CH_LARS									

Client Sample ID: MW-14
Date Collected: 11/12/21 08:57
Date Received: 11/13/21 09:08

Lab Sample ID: 400-211189-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	556859	11/22/21 18:38	HML	TAL PEN
	Instrument ID: CH_LARS									

Client Sample ID: MW-15
Date Collected: 11/12/21 09:05
Date Received: 11/13/21 09:08

Lab Sample ID: 400-211189-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	556859	11/22/21 19:03	HML	TAL PEN
	Instrument ID: CH_LARS									

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: Knight #1

Job ID: 400-211189-1

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: Knight #1

Job ID: 400-211189-1

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: SRC	Lab PM: Edwards, Marty P	Carrier Tracking No(s):	COC No: 400-105803-37678.2
Client Contact: Steve Varsa	Phone: 913-980-0281	E-Mail: Marty.Edwards@Eurofinset.com	State of Origin:	Page: SRC Page 1 of 2
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 #: WD801936			
Email: steve.varsa@stantec.com	WO #:			
Project Name: Knight #1.00	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:

400-211189 COC

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - (MOD) BTEX 8260	8260C - (MOD) BTEX 8260 (unpreserved)	Total Number of containers	Special Instructions/Note:
SAM-10				Preservation Code:			A	N		
TB-01	11/12/21	0700	G	Water			2		2	Trip Blank
Dup-01	11/12/21	0900	G	Water				3	3	Blind Dup
MW-1	11/12/21	0800	G	Water				3	3	
MW-2	11/12/21	0812	G	Water				3	3	
MW-3	11/12/21	0819	G	Water			3		3	
MW-5	11/12/21	0823	G	Water			3		3	
MW-6	11/12/21	0828	G	Water			3		3	
MW-7	11/12/21	0832	G					3	3	
MW-8	11/12/21	0836	G				3		3	
MW-9	11/12/21	0846	G				3		3	
MW-10	11/12/21	0844	G				3		3	

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

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

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

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by:	Date/Time: 11/12/21 1230	Company STW	Received by:
Relinquished by:	Date/Time:	Company	Received by:
Relinquished by:	Date/Time:	Company	Received by:

Received by:	Date/Time:	Company
Received by:	Date/Time:	Company
Received by:	Date/Time: 11.13.21 09:08	Company

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

Cooler Temperature(s) °C and Other Remarks: 4.1°C IR2

Ver: 06/08/2021

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: 400-105810-37685.5
Client Contact: Steve Varsa	Phone: 913-980-0281	E-Mail: Marty.Edwards@Eurofinset.com	State of Origin:	Page: ~~Page 5 of 5~~ SRL 2 of 2
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:	PO #: WD801911			
Email: steve.varsa@stantec.com	WO #:			
Project Name: ~~CMI Kinder Morgan San Juan~~ Knight #1	Project #: 40012762			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

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

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	MS/SD (Yes or No)	2320B, 2540C, 300_ORGFM_28D, 300_ORGFMS	6010B, 7470A	8260B - BTEX 8260	8260B - VOA
			Preservation Code:				N	D	A	N
SAH-10										
MW-11	11/12/21	0848	G	Water						3
MW-13	11/12/21	0853	G	Water					3	
MW-14	11/12/21	0857	G	Water					3	
MW-15	11/12/21	0905	G	Water					3	
				Water						

Total Number of containers	Special Instructions/Note:
3	
3	
3	
3	
3	

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

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

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

Special Instructions/QC Requirements:

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Relinquished by:	11/12/21 1230	STN	Received by:	11/13/21 09:08	

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

Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08 2021

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc Job Number: 400-211189-1

Login Number: 211189 **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	4.1°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 94565

CONDITIONS

Operator:	OGRID:
El Paso Natural Gas Company, L.L.C 1001 Louisiana Street Houston, TX 77002	7046
	Action Number: 94565
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Review of 2021 Annual Groundwater Report: Content satisfactory Follow Planned Future Activities stated within this Report. 1. Continue at a minimum, semi-annual groundwater monitoring in 2022 2. Continue manual recovery of LNAPL on a quarterly basis from monitor wells where measurable LNAPL is present until the AS/SVE remediation system is operating 3. Submit the 2022 Annual Groundwater Report to the OCD no later than March 31, 2023.	4/27/2022