# 2022 ANNUAL GROUNDWATER REPORT

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

REVIEWED
By Nelson Velez at 12:05 pm, May 22, 2023

Review of 2022 Annual Groundwater Report: **Content satisfactory**

1. Proceed with Planned Future Activities as stated in this report.
2. Submit next annual groundwater monitoring report no later than April 1, 2024.

## 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 Formerly, the Site was operated by Fuller Production, Inc. and is no longer active.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 Ranch, LLC (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. In October 2022, an AS/SVE trailer-mounted system was installed at the Site and began operation.

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 manually recovered at the Site. Currently, groundwater sampling is conducted on a semi-annual basis.

## AS/SVE INSTALLATION AND START-UP

Beginning October 10 through 20, 2022, Stantec oversaw the installation of a trailer-mounted Air Sparge (AS) and Soil Vapor Extraction (SVE) system at the site. Sierra Oilfield Services, Inc. (Sierra) was contracted to transport and place the system, perform earthwork, make AS and SVE connections, assist with startup, and perform ongoing Operation and Maintenance (O&M) activities. Taft Electric, Inc. was contracted to make electrical connections between the AS/SVE remediation equipment and the Farmington Electric Utility System (FEUS) service panel. The work proceeded in accordance with the work plan submitted to NMOCD on April 12, 2022, without significant deviation. The NMOCD was notified of the start of the installation activities October 6, 2022 (Appendix A).

Daily Report Forms summarizing the work performed each day are included as Appendix B. A photolog showing construction details and the final site condition is provided in Appendix C. The final configuration of the remediation infrastructure and other improvements is depicted on Figure 2.

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An EPCGP-owned, trailer-mounted AS/SVE remediation system, consisting of a 25 horsepower (hp) Sutorbilt positive displacement SVE blower, a 25 hp Rietshle DLR AS compressor, and an 80-gallon air/water separator tank with a Myers transfer pump, was installed. The system components are controlled and monitored by Dwyer vacuum gauges, Dwyer pressure gauges, Dwyer pitot tubes and magnehelic gauges, Erdco flowmeters, Kunkle pressure relief valves, a 3-float level switch, and a programmable logic controller (PLC). Separately, an EPCGP owned FALCO 300 catalytic oxidizer (catox) was installed with associated vapor control valving to treat recovered vapor phase hydrocarbons. When operating, the catox pre-heats the catalyst with SVE effluent vapors and achieves destruction efficiencies greater than 99%. An exterior double-walled storage tank was placed outside the system to temporarily store any recovered liquids to be removed for off-site disposal.

Stantec was on-site May 24 and 25, 2022, to oversee the installation of a a buried electrical conduit and disconnect. The AS/SVE system trailer and catox were delivered and installed on October 10, 2022. Following installation of ancillary equipment and service lines, connection of the system to the AS/SVE conveyance piping, and power connections, the SVE portion of the system started on October 19, 2022, with vapor extraction being conducted from SVE wells SVE-1, SVE-2, and SVE-3. The system will operate exclusively with SVE until all eight SVE laterals are open and concentrations at the oxidizer are stable. At that time, air sparging will be introduced. The system was shut down on December 7, 2022, due to a failure of the SVE blower. A Roots RUAI 56 SVE blower was located and installed as a replacement, and the system restarted on January 31, 2023.

Pursuant to the work plan, site-wide data was collected prior to system start-up, and during quarterly operation and maintenance (O&M) visits from on-site monitoring and SVE wells, to monitor system performance. SVE well data, vapor treatment data, baseline system influence parameters collected in the fourth quarter of 2022 and SVE performance is summarized in Appendix D. No wastewater requiring disposal was generated by the SVE system in 2022.

To evaluate hydrocarbon recovery rates from the SVE system, a vapor sample was collected at the SVE header via Summa canister. To evaluate the catox efficiency, an additional Summa sample was collected from the stack (post-catox) to compare against wellhead Summa sample results collected from the SVE header. The Summa canisters were submitted to Eurofins Environment Testing Southeast, LLC (Eurofins) in Pensacola, Florida for analysis of benzene, toluene, ethylbenzene, and xylenes (BTEX) using Method TO-15, and Total Petroleum Hydrocarbons (TPH) using Method TO-3. The laboratory results are included as Appendix E. Based on these results and SVE system flow rates, approximately 215 pounds of hydrocarbons were recovered by the SVE system in 2022.

## PRIVATE WELL SAMPLING

Prior to start-up of the AS/SVE system, and pursuant to the Work Plan, Stantec inspected the three water wells (McGee#1 through McGee#3), located on the McGee property. McGee#1 (Farm well) was inspected and sampled on October 14, 2022, and McGee#2 (Garden well) was inspected and sampled on October 13, 2022. McGee#3 (Water well) was found to be full of sediment and could not be sampled.

The collected water well samples were placed into laboratory supplied sample containers, packed on ice, and shipped under standard chain-of-custody protocols to Eurofins. One field duplicate was collected from well McGee#2 and submitted with the primary water well sample. One laboratory supplied trip blank was also collected and submitted with the water well samples. The water well samples and trip blank were analyzed for BTEX constituents using United States EPA Method 8260.

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A summary of the private water well sampling activities and results provided to the property owner is presented in Appendix F. Detectable concentrations of BTEX constituents were not reported in either water well sample or the trip blank.

## GROUNDWATER SAMPLING ACTIVITIES

Pursuant to the Remediation Plan, Stantec provided field work notifications via email to the NMOCD on May 12, 2022, and October 26, 2022, prior to initiating groundwater sampling activities at the Site. Copies of the 2022 NMOCD notifications are provided in Appendix A. Groundwater monitoring and sampling was completed on May 19 and November 4, 2022. 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 2022. Monitoring wells MW-3, MW-4, MW-5, MW-6, MW-8, MW-9, MW-12, and MW-14 were also sampled in November 2022.

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

Groundwater samples were placed into laboratory supplied sample containers, packed on ice, and shipped under standard chain-of-custody protocols to Eurofins. 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 Envirotech, Inc. (Envirotech) located south of Bloomfield, New Mexico for disposal. Wastewater disposal documentation is included as Appendix G.

## 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 2022. Documentation of NMOCD notification of site LNAPL recovery activities in 2022 is provided in Appendix A.

The LNAPL recovery data is summarized on Table 1. The only LNAPL observed in 2022 was during the March event, and only in monitoring well MW-12. The observed LNAPL was recovered by hand-bailing. The recovered LNAPL was transported for disposal at Basin Disposal, Inc. in Bloomfield, New Mexico (Appendix G). No LNAPL was detected during the May, August, and November 2022 events.

## 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.

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## SITE MAPS

Groundwater analytical maps (Figures 3 and 5) and groundwater elevation contour maps (Figures 4 and 6) summarize results of the 2022 groundwater sampling and gauging events.

## ANALYTICAL LAB REPORTS

The groundwater analytical lab reports are included as Appendix H.

## GROUNDWATER RESULTS

- Groundwater elevations indicate the groundwater flow direction at the Site was generally to the south south-west during the May event, and west south-west during the November event in 2022 (see Figures 4 and 6).
- Groundwater samples collected in 2022 from MW-1 and MW-11; and during the May 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 2022.
- Concentrations of toluene were either below the NMWQCC standard (750 µg/L) or were not detected in the site monitoring wells sampled in 2022.
- Concentrations of ethylbenzene were either below the NMWQCC standard (750 µg/L) or were not detected in the site monitoring wells sampled in 2022.
- Concentrations of total xylenes concentrations were either below the NMQCC standard (620 µg/L) or were not detected in site monitoring wells sampled in 2022.
- A field duplicate was collected from MW-1 for the May and November 2022 semi-annual monitoring events. No significant differences were noted between the primary and the duplicate samples for the May event. Significant difference was noted for benzene concentrations between the primary sample (84 µg/L) and duplicate sample (15 µg/L) for the November event. Review of the laboratory analytical report for the November event did not indicate any laboratory related quality assurance issues.
- Detectable concentrations of BTEX constituents were not reported in the trip blanks collected and analyzed as part of the 2022 groundwater monitoring events.

## PLANNED FUTURE ACTIVITIES

Operation of the remediation system installed in October 2022 will continue in 2023. The SVE system will continue to operate with the catox providing treatment of recovered hydrocarbons. Additional SVE wells will be gradually opened, so to not overheat the catox, as influent hydrocarbon concentrations are reduced. Operation of the AS portion of the system will be initiated once SVE hydrocarbon concentrations across the site have been reduced to levels below what the catox can effectively treat. Operation, maintenance, and monitoring of the remediation system will continue pursuant to the Work Plan.

Semi-annual groundwater monitoring is to continue in 2023. In accordance with the Work Plan,

groundwater samples will be collected from key monitoring wells not containing LNAPL during the second calendar quarter sampling event, and from all Site monitoring wells during the fourth calendar quarter sampling event. Sampling of the private wells will also be conducted during the fourth calendar quarter sampling event.

The activities completed in 2023 and their results will be summarized in the 2023 Annual Report, to be submitted by April 1, 2024.

# 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 |
| 3/22/2022 | 25.92 | 25.93 | 0.01 | <0.01 | 0.05 | 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 |

# 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 | 02/16/12 | NS | NS | NS | NS |
| 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-1 | 05/19/22 | 110 | <1.0 | 26 | <10 |
| (DUP-01)MW-1 | 05/19/22 | 150 | <1.0 | 42 | <10 |
| MW-1 | 11/04/22 | 84 | <1.0 | <1.0 | <10 |
| (DUP-01)MW-1 | 11/04/22 | 15 | <1.0 | <1.0 | <10 |
| | | | | | |
| 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 |

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| 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 | 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 |
| 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 |

# 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 | 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 |
| MW-2 | 05/19/22 | 45 | <1.0 | 2.2 | 26 |
| MW-2 | 11/04/22 | <1.0 | <1.0 | <1.0 | <10 |
| | | | | | |
| 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 |

# 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 | 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 |
| 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-3 | 05/19/22 | NS | NS | NS | NS |
| MW-3 | 11/04/22 | 51 | <1.0 | 1.5 | <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 |

# 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 | 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 |
| 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 |

# 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 | 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 |
| MW-4 | 03/22/22 | NS | NS | NS | NS |
| MW-4 | 05/19/22 | NS | NS | NS | NS |
| MW-4 | 11/04/22 | 10 | <1.0 | 6.3 | 89 |
| | | | | | |
| 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 |

# 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 | 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 |
| 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-5 | 05/19/22 | NS | NS | NS | NS |
| MW-5 | 11/04/22 | <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 |

# 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-6 | 05/19/22 | NS | NS | NS | NS |
| MW-6 | 11/04/22 | <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-7 | 05/19/22 | <1.0 | <1.0 | <1.0 | <10 |
| MW-7 | 11/04/22 | <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 |
| 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-8 | 05/19/22 | NS | NS | NS | NS |
| MW-8 | 11/04/22 | <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 |

# 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-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-9 | 05/19/22 | NS | NS | NS | NS |
| MW-9 | 11/04/22 | <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-10 | 05/19/22 | <1.0 | <1.0 | <1.0 | <10 |
| MW-10 | 11/04/22 | <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 |
| 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 |

# 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 | 05/14/20 | 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-11 | 05/19/22 | 19 | <1.0 | 13 | <10 |
| MW-11 | 11/04/22 | <1.0 | <1.0 | <1.0 | <10 |
| | | | | | |
| 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-12 | 05/19/22 | NS | NS | NS | NS |
| MW-12 | 11/04/22 | 2.2 | <1.0 | <1.0 | <10 |
| | | | | | |
| 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 |

# 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-13 | 11/12/21 | <1.0 | <1.0 | <1.0 | <10 |
| MW-13 | 05/19/22 | <1.0 | <1.0 | <1.0 | <10 |
| MW-13 | 11/04/22 | <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 |
| 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-14 | 05/19/22 | NS | NS | NS | NS |
| MW-14 | 11/04/22 | <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 |
| MW-15 | 05/19/22 | <1.0 | <1.0 | <1.0 | <10 |
| MW-15 | 11/04/22 | <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 |

# 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 | 11/11/11 | 5512.35 | ND | 22.87 | | 5489.48 |
| MW-1 | 02/16/12 | 5512.35 | ND | 24.01 | | 5488.34 |
| 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-1 | 05/19/22 | 5512.35 | ND | 26.14 | | 5486.21 |
| MW-1 | 11/04/22 | 5512.35 | ND | 24.90 | | 5487.45 |
| | | | | | | |
| 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 |

# 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 | 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 |
| 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 |

# 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 | 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-2 | 05/19/22 | 5511.65 | ND | 25.75 | | 5485.90 |
| MW-2 | 11/04/22 | 5511.65 | ND | 24.39 | | 5487.26 |
| | | | | | | |
| 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 |
| 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 |

# 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 | 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 |
| 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-3 | 05/19/22 | 5512.19 | ND | 25.58 | | 5486.61 |
| MW-3 | 11/04/22 | 5512.19 | ND | 25.72 | | 5486.47 |
| | | | | | | |
| 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 |

# 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 | 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 |
| 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 |

# 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 | 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-4 | 03/22/22 | 5512.86 | ND | 26.88 | | 5485.98 |
| MW-4 | 05/19/22 | 5512.86 | ND | 26.59 | | 5486.27 |
| MW-4 | 11/04/22 | 5512.86 | ND | 25.48 | | 5487.38 |
| | | | | | | |
| MW-5 | 11/15/00 | 5510.04 | NR | 25.62 | | 5484.42 |
| MW-5 | 09/11/01 | 5510.04 | NR | 25.94 | | 5484.10 |
| 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 |

# 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 | 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 |
| 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-5 | 05/19/22 | 5510.04 | ND | 23.85 | | 5486.19 |
| MW-5 | 11/04/22 | 5510.04 | ND | 22.58 | | 5487.46 |
| | | | | | | |
| 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 |

# 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-6 | 11/12/21 | 5510.36 | ND | 25.10 | | 5485.26 |
| MW-6 | 05/19/22 | 5510.36 | ND | 24.36 | | 5486.00 |
| MW-6 | 11/04/22 | 5510.36 | ND | 23.04 | | 5487.32 |
| | | | | | | |
| 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-7 | 05/19/22 | 5511.16 | ND | 25.00 | | 5486.16 |
| MW-7 | 11/04/22 | 5511.16 | ND | 23.68 | | 5487.48 |
| | | | | | | |
| 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 |
| 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-8 | 05/19/22 | 5511.95 | ND | 25.48 | | 5486.47 |
| MW-8 | 11/04/22 | 5511.95 | ND | 24.22 | | 5487.73 |
| | | | | | | |
| 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 |

# 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-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-9 | 05/19/22 | 5513.44 | ND | 26.87 | | 5486.57 |
| MW-9 | 11/04/22 | 5513.44 | ND | 25.62 | | 5487.82 |
| | | | | | | |
| 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-10 | 05/19/22 | 5513.72 | ND | 27.52 | | 5486.20 |
| MW-10 | 11/04/22 | 5513.72 | ND | 26.18 | | 5487.54 |
| | | | | | | |
| 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 |
| MW-11 | 05/14/20 | 5513.41 | ND | 24.95 | | 5488.46 |

# 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 | 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-11 | 03/22/22 | 5513.41 | ND | 27.72 | | 5485.69 |
| MW-11 | 05/19/22 | 5513.41 | ND | 27.40 | | 5486.01 |
| MW-11 | 11/04/22 | 5513.41 | ND | 26.04 | | 5487.37 |
| | | | | | | |
| 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-12 | 03/22/22 | 5511.47 | 25.92 | 25.93 | 0.01 | 5485.55 |
| MW-12 | 05/19/22 | 5511.47 | ND | 25.64 | | 5485.83 |
| MW-12 | 11/04/22 | 5511.47 | ND | 24.25 | | 5487.22 |
| | | | | | | |
| 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 |

# TABLE 3 - GROUNDWATER ELEVATION RESULTS

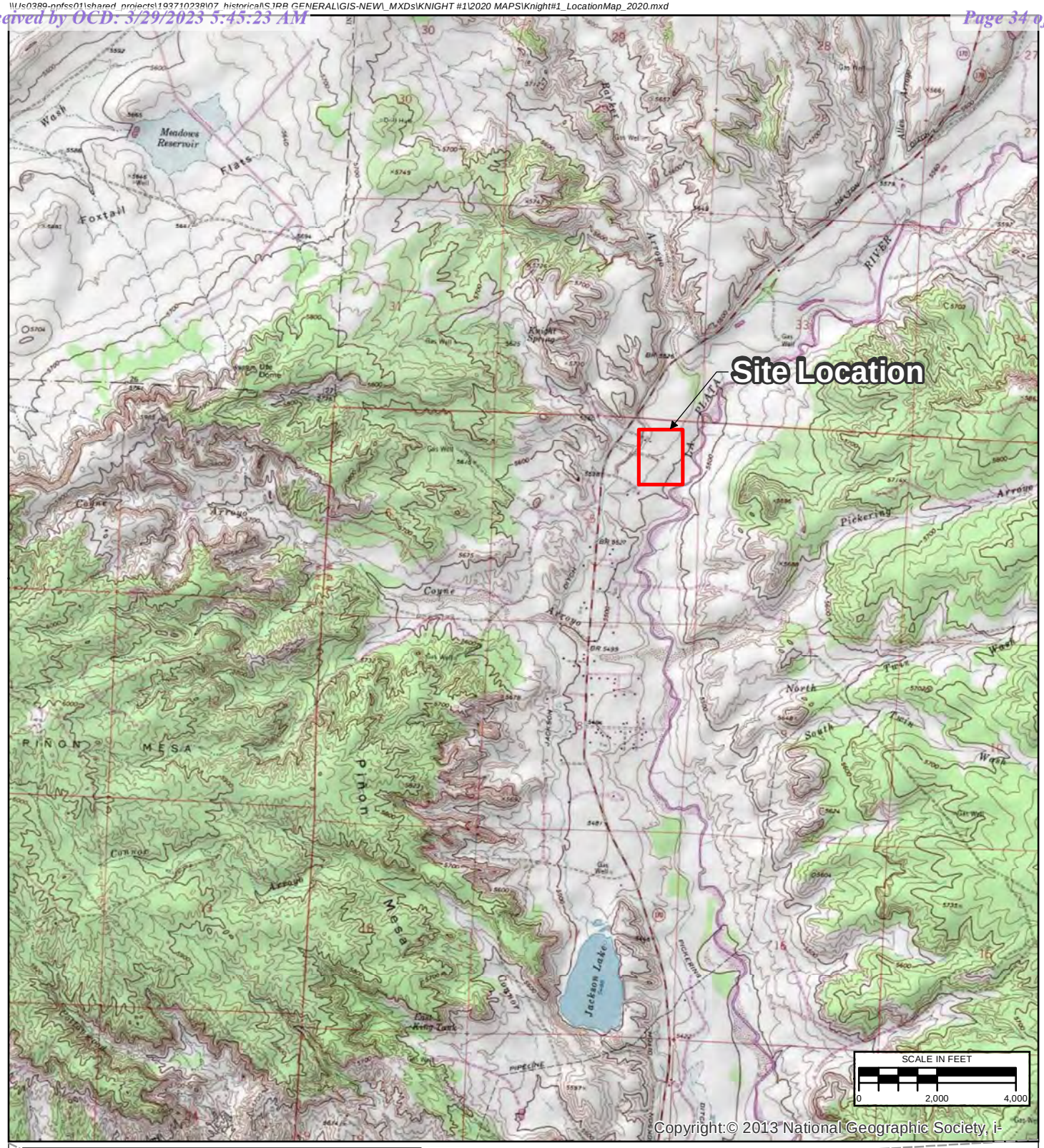
| Knight #1 | | | | | | |
|---|---|---|---|---|---|---|
| Location | Date | TOC | Depth to LNAPL (ft.) | Depth to Water (ft.) | LNAPL Thickness (ft.) | GW Elevation (ft.) |
| MW-13 | 11/11/20 | 5509.07 | ND | 22.10 | | 5486.97 |
| MW-13 | 05/21/21 | 5509.07 | ND | 22.55 | | 5486.52 |
| MW-13 | 11/12/21 | 5509.07 | ND | 23.97 | | 5485.10 |
| MW-13 | 05/19/22 | 5509.07 | ND | 23.28 | | 5485.79 |
| MW-13 | 11/04/22 | 5509.07 | ND | 21.90 | | 5487.17 |
| | | | | | | |
| 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 |
| 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-14 | 05/19/22 | 5511.71 | ND | 25.75 | | 5485.96 |
| MW-14 | 11/04/22 | 5511.71 | ND | 24.28 | | 5485.96 |
| | | | | | | |
| 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 |
| MW-15 | 05/19/22 | 5511.05 | ND | 25.43 | | 5485.62 |
| MW-15 | 11/04/22 | 5511.05 | ND | 23.90 | | 5487.15 |
| | | | | | | |
| AS-1 | 05/17/18 | 5513.06 | ND | 23.94 | | 5489.12 |
| AS-1 | 10/29/18 | 5513.06 | ND | 27.01 | | 5486.05 |
| AS-1 | 05/20/19 | 5513.06 | ND | 26.48 | | 5486.58 |
| AS-1 | 11/14/19 | 5513.06 | ND | 26.00 | | 5487.06 |
| AS-1 | 05/14/20 | 5513.06 | ND | 24.53 | | 5488.53 |
| | | | | | | |
| AS-2 | 05/17/18 | 5509.58 | ND | 20.86 | | 5488.72 |
| AS-2 | 10/29/18 | 5509.58 | ND | 23.87 | | 5485.71 |
| AS-2 | 05/20/19 | 5509.58 | ND | 23.37 | | 5486.21 |

# TABLE 3 - GROUNDWATER ELEVATION RESULTS

| Knight #1 | | | | | | |
|---|---|---|---|---|---|---|
| **Location** | **Date** | **TOC** | **Depth to LNAPL (ft.)** | **Depth to Water (ft.)** | **LNAPL Thickness (ft.)** | **GW Elevation (ft.)** |
| AS-2 | 11/14/19 | 5509.58 | ND | 22.78 | | 5486.80 |
| AS-2 | 05/14/20 | 5509.58 | ND | 21.32 | | 5488.26 |
| | | | | | | |
| SVE-1 | 05/17/18 | 5512.72 | ND | 22.58 | | 5490.14 |
| SVE-1 | 10/29/18 | 5512.72 | ND | 22.60 | | 5490.12 |
| SVE-1 | 05/20/19 | 5512.72 | ND | 22.59 | | 5490.13 |
| SVE-1 | 11/14/19 | 5512.72 | ND | 22.58 | | 5490.14 |
| SVE-1 | 05/14/20 | 5512.72 | ND | 22.57 | | 5490.15 |

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**

\\cd1001-c200\CTX-CIFSS\VDI\Redirect\shansen\Desktop\GIS-NEW_MXDs\KNIGHT #1\2022 MAPS\Knight#1_SPM_2022_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
MW-4
AS-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)
DOOR
HEAT EXCHANGER
MUFFLER
REMEDIATION BUILDING
CATOX
AS STUB UPS
FIRE EXTINGUISHER
DOOR
TREE REMOVAL
JOB BOX
TANK
FORMER TANKS
IRRIGATED FIELD
AERIAL IMAGERY FROM GOOGLE EARTH, DATED 4/6/2019

# LEGEND

- ACCESS ROAD
- FENCE
- GATE
- GAS LINE
- UNDERGROUND ELECTRIC
- 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 | 2023-03-25 | SAH | SAH | SRV |

TITLE:
*SITE PLAN*

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

Stantec

Figure No.:
**2**

\\cd1001-c200\CTX-CIFS$\VDI\Redirect\shansen\Desktop\GIS-NEW_MXDs\KNIGHT #1\2022 MAPS\Knight#1_GARM_1SA_2022.mxd


# LEGEND:

- APPROX. GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- FENCE
- GAS LINE
- FORMER WELLHEAD
- MONITORING WELL
- 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
LNAPL = LIGHT NON-AQUEOUS PHASE LIQUID

**EXPLANATION OF ANALYTES AND APPLICABLE STANDARDS:**

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

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

N

SCALE IN FEET
0 30 60

| REVISION | DATE | DESIGN BY | DRAWN BY | REVIEWED BY |
|---|---|---|---|---|
| A | 2023-03-26 | SAH | SAH | SRV |

TITLE:

GROUNDWATER ANALYTICAL RESULTS
MAY 19, 2022

PROJECT:

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

Stantec

Figure No.: 3

\\cd1001-c200\CTX-CIFSS\VDI\Redirect\shansen\Desktop\GIS-NEW_MXDs\KNIGHT #1\2022 MAPS\Knight#1_GECM_1SA_2022.mxd

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

FORMER KNIGHT #1 WELLHEAD

FORMER EPC PIT - EXCAVATED APPROXIMATELY 12 FEET DEEP

FORMER DEHYDRATOR

FORMER SEPARATOR

FORMER METER HOUSE

FORMER TANK

FORMER TANKS

IRRIGATED FIELD

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

MW-9 5486.57
MW-10 5486.20
MW-4 5486.27
MW-8 5486.47
MW-11 5486.01
MW-3 5486.61
MW-1 5486.21
MW-7 5486.16
MW-14 5485.96
MW-12 5485.83
MW-2 5485.90
MW-5 5486.19
MW-6 5486.00
MW-15 5485.62
MW-13 5485.79

5486.2
5486.4
5486.0
5485.8
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

## LEGEND:

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

**NOTES:**

5486.21 — GROUNDWATER ELEVATION (CORRECTED FOR LNAPL THICKNESS WHEN PRESENT) FEET ABOVE MEAN SEA LEVEL

5486.0 — CORRECTED WATER ELEVATION CONTOUR DASHED WHERE INFERRED (FEET ABOVE MEAN SEA LEVEL) 0.2 FOOT CONTOUR INTERVAL)

DIRECTION OF APPARENT GROUNDWATER FLOW

LNAPL = LIGHT NON-AQUEOUS PHASE LIQUID

N

SCALE IN FEET
0 30 60

| REVISION | DATE | DESIGN BY | DRAWN BY | REVIEWED BY |
|---|---|---|---|---|
| A | 2023-03-25 | SAH | SAH | SRV |

TITLE:

**GROUNDWATER ELEVATION MAP**
**MAY 19, 2022**

PROJECT:

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

Stantec

Figure No.: **4**

\\cd1001-c200\CTX-CIFSS\VDI\Redirect\shansen\Desktop\GIS-NEW_MXDs\KNIGHT #1\2022 MAPS\Knight#1_GARM_2SA_2022.mxd

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

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

FORMER KNIGHT #1 WELLHEAD

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

**MW-4**
B: 10
T: <1.0
E: 6.3
X: 89

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

**MW-11**
B: <1.0
T: <1.0
E: <1.0
X: <10

**MW-1**
B: 84
T: <1.0
E: <1.0
X: <10

**DUP-01**
B: 15
T: <1.0
E: <1.0
X: <10

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: 51
T: <1.0
E: 1.5
X: <10

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

FORMER METER HOUSE

FORMER TANK

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

**MW-12**
B: 2.2
T: <1.0
E: <1.0
X: <10

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

**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:

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

**NOTES:**

DUP = FIELD DUPLICATE SAMPLE
NO SAMPLING WAS COMPLETED FROM THE SVE OR AIR SPARGE WELLS
LNAPL = LIGHT NON-AQUEOUS PHASE LIQUID

**EXPLANATION OF ANALYTES AND APPLICABLE STANDARDS:**

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

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

N

SCALE IN FEET
0 30 60

| REVISION | DATE | DESIGN BY | DRAWN BY | REVIEWED BY |
|---|---|---|---|---|
| A | 2023-03-26 | SAH | SAH | SRV |

TITLE:

**GROUNDWATER ANALYTICAL RESULTS**
**NOVEMBER 4, 2022**

PROJECT:

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

Stantec

Figure No.: **5**

\\cd1001-c200\CTX-CIFS$\VDI\Redirect\shansen\Desktop\GIS-NEW_MXDs\KNIGHT #1\2022 MAPS\Knight#1_GECM_2SA_2022.mxd

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

FORMER KNIGHT #1 WELLHEAD

FORMER EPC PIT - EXCAVATED APPROXIMATELY 12 FEET DEEP

FORMER DEHYDRATOR

FORMER SEPARATOR

FORMER METER HOUSE

FORMER TANK

FORMER TANKS

IRRIGATED FIELD

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

MW-10 5487.54
MW-9 5487.82
MW-8 5487.73
MW-4 5487.38
MW-11 5487.37
MW-1 5487.45
MW-3 5486.47*
MW-7 5487.48
MW-14 5485.96
MW-12 5487.22
MW-2 5487.26
MW-5 5487.46
MW-6 5487.32
MW-15 5487.15
MW-13 5487.17

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

5487.5 5487.0 5486.5 5486.0 5510

# LEGEND:

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

**NOTES:**

- 5487.48 — GROUNDWATER ELEVATION (CORRECTED FOR LNAPL THICKNESS WHEN PRESENT) FEET ABOVE MEAN SEA LEVEL
- 5486.0 — CORRECTED WATER ELEVATION CONTOUR DASHED WHERE INFERRED (FEET ABOVE MEAN SEA LEVEL) 0.2 FOOT CONTOUR INTERVAL)
- DIRECTION OF APPARENT GROUNDWATER FLOW
- * GROUNDWATER ELEVATION APPEARS ANOMALOUS AND WAS NOT USED TO PREPARE CONTOURING GROUNDWATER ELEVATION.

LNAPL = LIGHT NON-AQUEOUS PHASE LIQUID

N

SCALE IN FEET
0 30 60

| REVISION | DATE | DESIGN BY | DRAWN BY | REVIEWED BY |
|---|---|---|---|---|
| A | 2023-03-25 | SAH | SAH | SRV |

TITLE:

**GROUNDWATER ELEVATION MAP**
**NOVEMBER 4, 2022**

PROJECT:

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

Stantec

Figure No.: **6**

**APPENDICES**

# APPENDIX A

**From:** Varsa, Steve
**To:** Smith, Cory, EMNRD
**Cc:** Griswold, Jim, EMNRD; Wiley, Joe
**Subject:** El Paso CGP Company - Notice of upcoming product recovery activities
**Date:** Tuesday, March 15, 2022 5:10:25 PM

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 |
|---|---|---|
| Canada Mesa #2 | nAUTOfAB000065 | 3/21/2022 |
| Fields A#7A | nAUTOfAB000176 | 3/22/2022 |
| Fogelson 4-1 | nAUTOfAB000192 | 3/22/2022 |
| Gallegos Canyon Unit #124E | nAUTOfAB000205 | 3/21/2022 |
| James F. Bell #1E | nAUTOfAB000291 | 3/22/2022 |
| Johnston Fed #4 | nAUTOfAB000305 | 3/23/2022 |
| Johnston Fed #6A | nAUTOfAB000309 | 3/23/2022 |
| K27 LDO72 | nAUTOfAB000316 | 3/21/2022 |
| Knight #1 | nAUTOfAB000324 | 3/22/2022 |
| Lateral L 40 Line Drip | nAUTOfAB000335 | 3/23/2022 |
| State Gas Com N #1 | nAUTOfAB000668 | 3/22/2022 |

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
11313 Aurora Avenue
Des Moines, Iowa 50322
Direct: (515) 251-1020
Cell: (515) 710-7523
Office: (515) 253-0830
steve.varsa@stantec.com

**From:** Varsa, Steve
**To:** Nelson.Velez@state.nm.us
**Cc:** Bratcher, Mike, EMNRD; Wiley, Joe
**Subject:** FW: El Paso CGP Company - Notice of upcoming groundwater sampling activities
**Date:** Thursday, May 12, 2022 8:33:41 AM

---

Hi Nelson -

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

| Site Name | Incident Number | Sample Date |
|---|---|---|
| Canada Mesa #2 | nAUTOfAB000065 | 5/21/2022 |
| Fields A#7A | nAUTOfAB000176 | 5/22/2022 |
| Fogelson 4-1 | nAUTOfAB000192 | 5/22/2022 |
| Gallegos Canyon Unit #124E | nAUTOfAB000205 | 5/19/2022 |
| GCU Com A #142E | nAUTOfAB000219 | 5/19/2022 |
| James F. Bell #1E | nAUTOfAB000291 | 5/18/2022 |
| Johnston Fed #4 | nAUTOfAB000305 | 5/20/2022 |
| Johnston Fed #6A | nAUTOfAB000309 | 5/20/2022 |
| K27 LDO72 | nAUTOfAB000316 | 5/21/2022 |
| Knight #1 | nAUTOfAB000324 | 5/19/2022 |
| Lateral L 40 Line Drip | nAUTOfAB000335 | 5/18/2022 |
| Miles Fed #1A | nAUTOfAB000391 | 5/21/2022 |
| Sandoval GC A #1A | nAUTOfAB000635 | 5/20/2022 |
| Standard Oil Com #1 | nAUTOfAB000666 | 5/21/2022 |
| State Gas Com N #1 | nAUTOfAB000668 | 5/22/2022 |

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:** Nelson.Velez@state.nm.us
**Cc:** Bratcher, Mike, EMNRD; Wiley, Joe
**Subject:** El Paso CGP Company - Notice of upcoming product recovery activities
**Date:** Monday, July 18, 2022 3:30:01 PM

---

Hi Nelson -

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

| Site Name | Incident Number | Sample Date |
|---|---|---|
| Canada Mesa #2 | nAUTOfAB000065 | 7/30/2022 |
| Fields A#7A | nAUTOfAB000176 | 8/01/2022 |
| Fogelson 4-1 | nAUTOfAB000192 | 8/01/2022 |
| Gallegos Canyon Unit #124E | nAUTOfAB000205 | 7/30/2022 |
| Johnston Fed #4 | nAUTOfAB000305 | 7/29/2022 |
| Johnston Fed #6A | nAUTOfAB000309 | 7/29/2022 |
| K27 LDO72 | nAUTOfAB000316 | 7/30/2022 |
| Knight #1 | nAUTOfAB000324 | 8/01/2022 |
| State Gas Com N #1 | nAUTOfAB000668 | 8/01/2022 |

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
11313 Aurora Avenue
Des Moines, Iowa 50322
Direct: (515) 251-1020
Cell: (515) 710-7523
Office: (515) 253-0830
steve.varsa@stantec.com

**From:** Velez, Nelson, EMNRD
**To:** Varsa, Steve
**Cc:** Bratcher, Michael, EMNRD; Wiley, Joe
**Subject:** RE: [EXTERNAL] Knight #1 (NMOCD Incident #nAUTOfAB000324) - notice of upcoming activities
**Date:** Thursday, October 06, 2022 10:28:01 AM

Good morning Steve,

Thank you for the update. Good luck on the progress.

Regards,

**Nelson Velez** ● Environmental Specialist - Adv
Environmental Bureau | EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87410
(505) 469-6146 | nelson.velez@emnrd.nm.gov *NOTE NEW EMAIL ADDRESS*
http://www.emnrd.state.nm.us/OCD/

**From:** Varsa, Steve <steve.varsa@stantec.com>
**Sent:** Thursday, October 6, 2022 9:19 AM
**To:** Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
**Cc:** Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Wiley, Joe <joe_wiley@kindermorgan.com>
**Subject:** [EXTERNAL] Knight #1 (NMOCD Incident #nAUTOfAB000324) - notice of upcoming activities



Hi Nelson – the remediation equipment is to be delivered to the subject site either late on October 10 or on October 11, 2022. We will work on making connections and other set-up activities for the remainder of the week, and expect to begin startup by October 17, 2022. I'll follow-up if system start-up is delayed.

Please feel free to contact Joe Wiley, with El Paso, at 713-420-3475, or me, if you need further information.

Thank you,
Steve

**Stephen Varsa, P.G., R.G.**
Principal Hydrogeologist
Stantec Environmental Services
11311 Aurora Avenue
Des Moines, Iowa 50322
Direct: (515) 251-1020
Cell: (515) 710-7523

Office: (515) 253-0830
steve.varsa@stantec.com

**From:** Varsa, Steve
**To:** Nelson.Velez@state.nm.us
**Cc:** Bratcher, Mike, EMNRD; Wiley, Joe
**Subject:** El Paso CGP Company - Notice of upcoming groundwater sampling activities
**Date:** Wednesday, October 26, 2022 3:13:50 PM

Hi Nelson -

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

| Site Name | Incident Number | Sample Date |
|---|---|---|
| Canada Mesa #2 | nAUTOfAB000065 | 11/6/2022 |
| Fields A#7A | nAUTOfAB000176 | 10/31/2022 |
| Fogelson 4-1 | nAUTOfAB000192 | 10/30/2022 |
| Gallegos Canyon Unit #124E | nAUTOfAB000205 | 11/3/2022 |
| GCU Com A #142E | nAUTOfAB000219 | 11/2/2022 |
| James F. Bell #1E | nAUTOfAB000291 | 11/4/2022 |
| Johnston Fed #4 | nAUTOfAB000305 | 11/5/2022 |
| Johnston Fed #6A | nAUTOfAB000309 | 11/5/2022 |
| K27 LDO72 | nAUTOfAB000316 | 11/6/2022 |
| Knight #1 | nAUTOfAB000324 | 11/4/2022 |
| Lateral L 40 Line Drip | nAUTOfAB000335 | 10/30/2022 |
| Sandoval GC A #1A | nAUTOfAB000635 | 11/5/2022 |
| Standard Oil Com #1 | nAUTOfAB000666 | 11/6/2022 |
| State Gas Com N #1 | nAUTOfAB000668 | 11/1/2022 |

We also plan to conduct quarterly operation and maintenance activities on the Knight #1 air sparge/soil vapor extraction system (Incident number nAUTOAB000324) on Saturday, October 29, 2022.

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

Thank you,
Steve

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

# APPENDIX B

Stantec

# DAILY FIELD REPORT
## Observation of Electrical Service Install and Backfill

El Paso CGP
1001 Louisiana
Houston, Texas 77002

Knight #1
Groundwater Pit Site

DATE: 5/24/22 Tuesday
WEATHER: sunny, 50's to 70's F, windy ~20MPH S/SSE
PROJECT No.: 193708991
Everyone Safely Off Site: Yes

**ON-SITE PERSONNEL (name, company, project role)**

Sean Clary, Stantec, project oversight
Robert Drake, Riley Industrial Services, Inc., Hydrovac crew
Damien Bounds, Riley Industrial Services, Inc., Hydrovac crew
Lorenzo Reed, Taft Electric, Inc., Electric utility installation
Randy Reed, Taft Electric, Inc., Electric utility installation
Tyler Root, Taft Electric, Inc., Electric utility installation

**VISITORS (name, company)**

Scott Taft, Taft Electric, Inc.

**CONSTRUCTION EQUIPMENT (type, model)**

Combination vacuum truck
Support Truck (Ford work truck)

**TASKS PERFORMED**

Conduct daily Health and Safety Meetings
Trench 30" deep trench from equipment pad location to electric utility pole location
Pothole 5' hole and 4' hole for rinal utility pole and support pole for panel, respectively
Finish constructing and install and level two poles, install panel, install coated galvanized conduit for future underground wire housing
Install temporary T posts and fencing to secure open trench overnight

**Lengths of Trenching/Piping (linear feet)**

| TYPE | BID AMOUNT | DAILY NUMBER | UNIT / OTHER | CUMULATIVE TOTALS | Percent of Project Scope of Work/Bid |
|---|---|---|---|---|---|
| Trenching | 25 | 25 | foot | 25 | 100% |
| Coated Galvanized Steel | 25 | 25 | foot | 25 | 100% |

**LOADS of MATERIAL TRANSPORTED**

| TYPE | BID AMOUNT | DAILY NUMBER | UNIT / OTHER | CUMULATIVE TOTALS | DESTINATION/SOURCE |
|---|---|---|---|---|---|
| Hydrovac Spoils | lump | 1 | Excavation volume + water utilized | 1 | Envirotech Landfarm/Site |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

**PROJECT COMMENTS/NOTES (health and safety, operational issues/concerns, corrective actions, etc.)**

Scott Taft delivers fencing materials to site when it is determined backfilling will occur 5/25/2022.
No cows or calves noted in pasture or work area.

**NEXT DAY'S PLANNED ACTIVITIES**

Install tracer wire/caution tape above conduit
Backfill with compaction
Make connections in panel

**PREPARED BY:** Sean Clary

**REVIEWED BY:** Steve Varsa

# DAILY FIELD REPORT
## Observation of Electrical Service Install and Backfill

El Paso CGP
1001 Louisiana
Houston, Texas 77002

Knight #1
Groundwater Pit Site

DATE: 5/25/22 Wednesday
WEATHER: sunny, 50's to 70's F, windy ~20MPH S/SSE
PROJECT No.: 193708991
Everyone Safely Off Site: Yes

**ON-SITE PERSONNEL (name, company, project role)**

Sean Clary, Stantec, project oversight
Lorenzo Reed, Taft Electric, Inc., Electric utility installation
Randy Reed, Taft Electric, Inc., Electric utility installation
Tyler Root, Taft Electric, Inc., Electric utility installation

**VISITORS (name, company)**

None

**CONSTRUCTION EQUIPMENT (type, model)**

Honda GX160 Compactor (Jumping Jack)
Support Truck (Ford work truck)

**TASKS PERFORMED**

Backfill conduit trench with tracer caution tape (aluminum) and compaction.
Make hookups to electric panel and ground panels.
Secure site fencing.

**Lengths of Trenching/Piping (linear feet)**

| TYPE | BID AMOUNT | DAILY NUMBER | UNIT / OTHER | CUMULATIVE TOTALS | Percent of Project Scope of Work/Bid |
|---|---|---|---|---|---|
| Trenching | 25 | 0 | foot | 25 | 100% |
| Coated Galvanized Steel | 25 | 0 | foot | 25 | 100% |

**LOADS of MATERIAL TRANSPORTED**

| TYPE | BID AMOUNT | DAILY NUMBER | UNIT / OTHER | CUMULATIVE TOTALS | DESTINATION/SOURCE |
|---|---|---|---|---|---|
| Hydrovac Spoils | lump | 0 | Excavation + Water used | 1 | Envirotech Landfarm/Site |
| Fill Dirt | lump | 3.5 | CY | 3.5 | Site/Four Corners Materials |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

**PROJECT COMMENTS/NOTES (health and safety, operational issues/concerns, corrective actions, etc.)**

No cows or calves noted in pasture or work area.

**NEXT DAY'S PLANNED ACTIVITIES**

N/A

**PREPARED BY:** Sean Clary

**REVIEWED BY:** Steve Varsa

Stantec

# DAILY FIELD REPORT
## Remediation Equipment Installation and Start-up

El Paso CGP
1001 Louisiana
Houston, Texas 77002

Knight #1
Groundwater Pit Site

DATE: 10/10/22 Monday
WEATHER: clear, 50's to 70's F, thunderstorm in PM
PROJECT No.: 193709249
Everyone Safely Off Site: Yes

**ON-SITE PERSONNEL (name, company, project role)**

Steve Varsa, Stantec, Project Manager
Tim Dickey, AECOM, Field Technician
Carl Lehman, Stantec, Project Oversight
Sean Clary, Stantec, Project Oversight
Nathanial Begay, Sierra Oilfield Services, Laborer
TJ Dodson, Sierra Oilfield Services, Laborer
Jeremy Valdez, Sierra Oilfield Services, Crane Operator
Steve Vicker, Sierra Oilfield Services
Lambert N. Norburt, Sierra Oilfield Services, Laborer
Ferln Hunt, Sierra Oilfield Services, Laborer

**VISITORS (name, company)**

None.

**CONSTRUCTION EQUIPMENT (type, model)**

Manlift, JLG, T350
Backhoe, Deere, 310SG
Forklift, Rough Terrain Telehandler Reach
10-yd dump truck (gravel)
Support Trucks (work trucks)
National Crane - NBT45

**TASKS PERFORMED**

Conduct daily Health and Safety Meetings
Equipment delivery from Sierra yard, and crane remediation trailer onto blocks and level
Unload, install and level FALCO 300 oxidizer and influent piping
Install SVE stack
Gravel delivery (40 yardsand add to to pad area) and place gravel for poly storage tank
Stage poly condensate tank

**LOADS of MATERIAL TRANSPORTED**

| TYPE | BID AMOUNT | DAILY NUMBER | UNIT / OTHER | CUMULATIVE TOTALS | DESTINATION/SOURCE |
|---|---|---|---|---|---|
| 3/4 Gravel | - | 3 | dump truck (10 yards) | 3 | to site for general use around equipment pad |
| Road Base | - | 1 | dump truck (10 yards) | 1 | to site for general use around equipment pad |
| | | | | | |
| | | | | | |
| | | | | | |

**PROJECT COMMENTS/NOTES (health and safety, operational issues/concerns, corrective actions, etc.)**

Trailer placed
No cows or calves noted in pasture or work area.

**NEXT DAY'S PLANNED ACTIVITIES**

Install FALCO Vapor Control Valve (VCV)
Meet with Taft regarding hookup requirements
Source and install support for 4" conduit

**PREPARED BY:** Sean Clary

**REVIEWED BY:** Steve Varsa

# DAILY FIELD REPORT
## Remediation Equipment Installation and Start-up

El Paso CGP
1001 Louisiana
Houston, Texas 77002

Knight #1
Groundwater Pit Site

DATE: 10/11/22 Tuesday
WEATHER: sunny, 50's to 70's F,
PROJECT No.: 193709249

Everyone Safely Off Site: Yes

**ON-SITE PERSONNEL (name, company, project role)**

Joe Wiley, El Paso CGP Company, Remediation Manager
Steve Varsa, Stantec, Project Manager
Tim Dickey, AECOM, Field Technician
Carl Lehman, Stantec, Project Oversight
Sean Clary, Stantec, Project Oversight
Ferlin Hunt, Sierra Oilfield Services, Laborer
Nathanial Begay, Sierra Oilfield Services, Laborer

**VISITORS (name, company)**

Scott Taft, Taft Electric, Inc.
Dwight McGee, Property Owner

**CONSTRUCTION EQUIPMENT (type, model)**

Manlift, JLG, T350
Backhoe, Deere, 310SG
Forklift, Telehandler Reach (Rough Terrain)
Ladders, generator, hammer drill, and miscellaneous tools
Support Trucks (Work Trucks)

**TASKS PERFORMED**

Conduct daily Health and Safety Meetings
Pull fencing back from south side of trailer
Daylight Taft stub-up and trench shallow trench to NW corner of trailer for conduit
Install FALCO 300 VCV
Install shoring post to support 4" conduit to FALCO 300
Level area for auxiliarry tote and place tote
Removed trailer tires for storage

**LOADS of MATERIAL TRANSPORTED**

| TYPE | BID AMOUNT | DAILY NUMBER | UNIT / OTHER | CUMULATIVE TOTALS | DESTINATION/SOURCE |
|---|---|---|---|---|---|
| Suction Tubing (SVE Tubing) | - | 150 | feet | 150 | to site for hookups |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

**PROJECT COMMENTS/NOTES (health and safety, operational issues/concerns, corrective actions, etc.)**

Scott Taft onsite to determine materials necessary for electrician's present 11/12/2022
Install cones and fencing to block off electical stub-up excavation
Manlift and forklift removed from site, backhoe was not used today - but remains onsite
Obtain property owner approval to modify fence alightment and install fence, add gravel, trim trees near power lines

**NEXT DAY'S PLANNED ACTIVITIES**

Install condensate discharge piping to auxilliary tote
Begin completing SVE hookups
Taft to begin extending conduit from utility drop to system panel for hookup
Electrical panel inspection by San Juan County

**PREPARED BY:** Sean Clary

**REVIEWED BY:** Steve Varsa

Stantec

# DAILY FIELD REPORT
## Remediation Equipment Installation and Start-up

El Paso CGP Company
1001 Louisiana Street
Houston, Texas 77002

Knight #1
Groundwater Pit Site

DATE: 10/12/22 Wednesday
WEATHER: sunny, 50's to 70's F,
PROJECT No.: 193709249

Everyone Safely Off Site: Yes

**ON-SITE PERSONNEL (name, company, project role)**

Joe Wiley, El Paso CGP Company, Remediation Manager
Steve Varsa, Stantec, Project Manager
Tim Dickey, AECOM, Field Technician
Carl Lehman, Stantec, Project Oversight
Sean Clary, Stantec, Project Oversight
Ferlin Hunt, Sierra Oilfield Services, Laborer
Nathanial Begay, Sierra Oilfield Services, Laborer
JC McBride, Taft Electric, Electrician
Ernest King, Taft Electric, Electrician

**VISITORS (name, company)**

Scott Taft, Taft Electric, Inc.
Jose Pulido, San Juan County Utility Inspector

**CONSTRUCTION EQUIPMENT (type, model)**

Backhoe, Deere, 310SG
Ladders, generator, hammer drill, and miscellaneous tools
Support Trucks (Work Trucks)

**TASKS PERFORMED**

Conduct daily Health and Safety Meetings
City of Farmington "non-permit inspection" completed and passed
Install PVC condensate line and unistrut support
Install 8 SVE lines and associated fittings
Taft lay out and begin assembling conduit runs and FALCO 300 hookup
Remove nuisance bushes
Gauge AS/SVE/Monitoring wells
Inspect McGee water wells

**LOADS of MATERIAL TRANSPORTED**

| TYPE | BID AMOUNT | DAILY NUMBER | UNIT / OTHER | CUMULATIVE TOTALS | DESTINATION/SOURCE |
|---|---|---|---|---|---|
| Suction Tubing (SVE Tubing) | - | 0 | feet | 150 | to site for hookups |
| Schedule 80 PVC | lump | 1 | lump | 1 | used for condensate line |
| Unistrut and Unistrut foot | - | 1 | each | 1 | used to support horizontal pipes |
| | | | | | |
| | | | | | |

**PROJECT COMMENTS/NOTES (health and safety, operational issues/concerns, corrective actions, etc.)**

Taft has ordered additional materials, plans ot have onsite hookups completed EOD Thursday
Strong H2S odor detected from AS-3 during gauging

**NEXT DAY'S PLANNED ACTIVITIES**

Install AS hookups
Taft to make conduit connections, run wiring, and continue system hookup
Determine when the electric utility connection will occur

**PREPARED BY:** Sean Clary

**REVIEWED BY:** Steve Varsa

Stantec

# DAILY FIELD REPORT
## Remediation Equipment Installation and Start-up

El Paso CGP Company
1001 Louisiana Street
Houston, Texas 77002

Knight #1
Groundwater Pit Site

DATE: 10/13/22 Thursday
WEATHER: sunny, 50's to 70's F,
PROJECT No.: 193709249

Everyone Safely Off Site: Yes

**ON-SITE PERSONNEL (name, company, project role)**

Joe Wiley, El Paso CGP Company, Remediation Manager
Steve Varsa, Stantec, Project Manager
Tim Dickey, AECOM, Field Technician
Carl Lehman, Stantec, Project Oversight
Sean Clary, Stantec, Project Oversight
Ferlin Hunt, Sierra Oilfield Services, Laborer
Nathanial Begay, Sierra Oilfield Services, Laborer
JC McBride, Taft Electric, Electrician
Ernest King, Taft Electric, Electrician

**VISITORS (name, company)**

Jose Pulido, San Juan County Utility Inspector

**CONSTRUCTION EQUIPMENT (type, model)**

Backhoe, Deere, 310SG
Ladders, generator, hammer drill, heat gun, and miscellaneous tools
Support Trucks (Work Trucks)

**TASKS PERFORMED**

Conduct daily Health and Safety Meetings
Taft continues to install conduit for electric hookup
Anchor two support posts
Install 15 of 16 AS well connections (16th will be completed Friday)
Collect DO readings from all monitoring wells
Sample McGee well #2
Install and cap T posts by every AS/SVE well
Remove bushes to facilitate underground conduit

**LOADS of MATERIAL TRANSPORTED**

| TYPE | BID AMOUNT | DAILY NUMBER | UNIT / OTHER | CUMULATIVE TOTALS | DESTINATION/SOURCE |
|---|---|---|---|---|---|
| Suction Tubing (SVE Tubing) | - | 0 | feet | 150 | to site for hookups |
| 1" hose | - | 200 | feet | 200 | to site for AS hookups |
| unistrut footing | - | 0 | unit | 1 | footing for under FALCO VCV |
| T Posts | - | 30 | ea | 30 | posts for AS/SVE wells |
| Sch 80 PVC and fittings | - | lump | 1 | 1 | conduit for trailer wiring |
| Unistrut and Unistrut foot | - | 0 | each | 1 | used to support horizontal pipes |
| Support Strut | - | 1 | unit | 1 | support strut for underneath 4" air conduit |

**PROJECT COMMENTS/NOTES (health and safety, operational issues/concerns, corrective actions, etc.)**

City of Farmington/FEUS won't supply 300A service overhead - need to trench from original service drop to FEUS's last overhead pole and secure a riser to that
DO readings ~0.00 mg/L, sitewide

**NEXT DAY'S PLANNED ACTIVITIES**

Install final AS hookup
Install fence and gate
Riley industrial to hydrovac trench for replacement conduit
Taft to assemble new buried conduit run and riser
Anchor trailer and condensate tank
Place gravel around trailer and tank pads
Paint and label T posts
Place riprap material

**PREPARED BY:** Sean Clary

**REVIEWED BY:** Steve Varsa

Stantec

# DAILY FIELD REPORT
## Remediation Equipment Installation and Start-up

El Paso CGP Company
1001 Louisiana Street
Houston, Texas 77002

Knight #1
Groundwater Pit Site

DATE: 10/14/22 Friday
WEATHER: clear, 50's to 70's F,
PROJECT No.: 193709249

Everyone Safely Off Site: Yes

**ON-SITE PERSONNEL (name, company, project role)**

Joe Wiley, El Paso CGP Company, Remediation Manager
Steve Varsa, Stantec, Project Manager
Tim Dickey, AECOM, Field Technician
Carl Lehman, Stantec, Project Oversight
Sean Clary, Stantec, Project Oversight
Ferlin Hunt, Sierra Oilfield Services, Laborer
Nathanial Begay, Sierra Oilfield Services, Laborer
Delvon Pinto, Sierra Oilfield Services, Laborer
Leeriah Augustine, Sierra Oilfield Services, Laborer
JC McBride, Taft Electric, Electrician
Ernest King, Taft Electric, Electrician
Barnabie Begay, Riley Industrial Services, hydrovac crew
Theodore Johnson, Riley Industrial Services, hydrovac crew

**VISITORS (name, company)**

None.

**CONSTRUCTION EQUIPMENT (type, model)**

Backhoe, Deere, 310SG
Genie manlift
Ladders, generator, hammer drill, heat gun, and miscellaneous tools
Support Trucks (Work Trucks)
Vacuum Excavation Truck (GapVax HC56 Vacuum Tanker)

**TASKS PERFORMED**

Conduct daily Health and Safety Meetings
Riley hydrovacs trench for underground conduit to riser on FEUS utility pole
Taft continues to install conduit for electric hookup
Taft installs conduit for revised wire run to FEUS utility pole
Sierra installs H posts for fence/gate
Sierra buries condensate support beam footing
Sierra begins laying gravel/riprap

**LOADS of MATERIAL TRANSPORTED**

| TYPE | BID AMOUNT | DAILY NUMBER | UNIT / OTHER | CUMULATIVE TOTALS | DESTINATION/SOURCE |
|---|---|---|---|---|---|
| Suction Tubing (SVE Tubing) | - | 0 | feet | 150 | to site for hookups |
| 1" hose | - | 0 | feet | 200 | to site for AS hookups |
| unistrut footing | - | 1 | unit | 1 | footing for under FALCO VCV |
| T Posts | - | 0 | ea | 30 | posts for AS/SVE wells |
| H Posts | - | 3 | ea | 3 | H posts for fencing/gate |
| 10' gate | - | 1 | ea | 1 | gate |
| riprap material | - | 1 | truck | 1 | riprap for pad stability |

**PROJECT COMMENTS/NOTES (health and safety, operational issues/concerns, corrective actions, etc.)**

Taft electric and Stantec to work Saturday to get wire pulled for new utility hookup

**NEXT DAY'S PLANNED ACTIVITIES**

Pull 3-phase wire through conduit to breaker box and make connections

**PREPARED BY:** Sean Clary

**REVIEWED BY:** Steve Varsa

Stantec

# DAILY FIELD REPORT
## Remediation Equipment Installation and Start-up

El Paso CGP Company
1001 Louisiana Street
Houston, Texas 77002

Knight #1
Groundwater Pit Site

DATE: 10/15/22 Saturday
WEATHER: sunny, 50's to 70's F,
PROJECT No.: 193709249

Everyone Safely Off Site: Yes

**ON-SITE PERSONNEL (name, company, project role)**

Carl Lehman, Stantec, Project Oversight
Sean Clary, Stantec, Project Oversight
JC McBride, Taft Electric, Electrician
Ernest King, Taft Electric, Electrician

**VISITORS (name, company)**

Steve Varsa, Stantec
Joe Wiley, El Paso CGP Company

**CONSTRUCTION EQUIPMENT (type, model)**

Genie Manlift
Various hand tools

**TASKS PERFORMED**

Conduct daily Health and Safety Meetings
Cut and pull 3-phase wire through conduit between weatherhead and breaker box
Tape phases on wires
Make connections in breaker box

**LOADS of MATERIAL TRANSPORTED**

| TYPE | BID AMOUNT | DAILY NUMBER | UNIT / OTHER | CUMULATIVE TOTALS | DESTINATION/SOURCE |
|---|---|---|---|---|---|
| Suction Tubing (SVE Tubing) | - | 0 | feet | 150 | to site for hookups |
| 1" hose | - | 0 | feet | 200 | to site for AS hookups |
| unistrut footing | - | 0 | unit | 1 | footing for under FALCO VCV |
| T Posts | - | 0 | ea | 30 | posts for AS/SVE wells |
| H Posts | - | 0 | ea | 3 | H posts for fencing/gate |
| 10' gate | - | 0 | ea | 1 | gate |
| riprap material | - | 0 | truck | 1 | riprap for pad stability |
| Wire for underground 3-ph | 0 | 1 | lump | 1 | wire for underground 3-ph |
| | | | | | |

**PROJECT COMMENTS/NOTES (health and safety, operational issues/concerns, corrective actions, etc.)**

Wire originally for AS/SVE trailer used for reconfigured utility drop. Replacement wire to be sourced

**NEXT DAY'S PLANNED ACTIVITIES**

Remove tree near/below FEUS line
Anchor Trailer
FEUS inspection and trench backfilling
Taft to continue hookups to trailer/oxidizer,etc.
Finish laying gravel and riprap material
Backfill conduit run with tracer tape
Begin fence reinstallation

**PREPARED BY:** Sean Clary

**REVIEWED BY:** Steve Varsa

Stantec

# DAILY FIELD REPORT
## Remediation Equipment Installation and Start-up

El Paso CGP Company
1001 Louisiana Street
Houston, Texas 77002

Knight #1
Groundwater Pit Site

DATE: 10/17/22 Monday
WEATHER: sunny, 50's to 70's F,
PROJECT No.: 193709249

Everyone Safely Off Site: Yes

**ON-SITE PERSONNEL (name, company, project role)**

Tim Dickey, AECOM, Field Technician
Carl Lehman, Stantec, Project Oversight
Sean Clary, Stantec, Project Oversight
Ferlin Hunt, Sierra Oilfield Services, Laborer
Nathanial Begay, Sierra Oilfield Services, Laborer
JC McBride, Taft Electric, Electrician
Ernest King, Taft Electric, Electrician

**VISITORS (name, company)**

Jose Pulido, San Juan County Utility Inspector

**CONSTRUCTION EQUIPMENT (type, model)**

Backhoe, Deere, 310SG
Genie Manlift

**TASKS PERFORMED**

Conduct daily Health and Safety Meetings
Taft continues to install conduit for electric hookup
Remove tree near/below FEUS line
Anchor Trailer and condensate tank
FEUS inspection and trench backfilling
Taft to continue hookups to trailer/oxidizer,etc.
Finish laying gravel and riprap material
Backfill conduit run with tracer tape
Begin fence reinstallation

**LOADS of MATERIAL TRANSPORTED**

| TYPE | BID AMOUNT | DAILY NUMBER | UNIT / OTHER | CUMULATIVE TOTALS | DESTINATION/SOURCE |
|---|---|---|---|---|---|
| Suction Tubing (SVE Tubing) | - | 0 | feet | 150 | to site for hookups |
| 1" hose | - | 0 | feet | 200 | to site for AS hookups |
| unistrut footing | - | 0 | unit | 1 | footing for under FALCO VCV |
| T Posts | - | 0 | ea | 30 | posts for AS/SVE wells |
| H Posts | - | 0 | ea | 3 | H posts for fencing/gate |
| 10' gate | - | 0 | ea | 1 | gate |
| riprap material | - | 0 | truck | 1 | riprap for pad stability |
| Wire for underground 3-ph | 0 | 0 | lump | 1 | wire for underground 3-ph |
| Anchors | - | 4 | ea | 4 | anchors for trailer and condensate tank |

**PROJECT COMMENTS/NOTES (health and safety, operational issues/concerns, corrective actions, etc.)**

FEUS inspection passed, grounded new riser
FEUS to install hookup Tuesday 9/18

**NEXT DAY'S PLANNED ACTIVITIES**

Finish hookups to trailer
FEUS to hookup electric service
Finish fencing
Remove any trash/stray materials from site
Remove backhoe from site
Collect pre/post oxidizer samples

**PREPARED BY:** Sean Clary

**REVIEWED BY:** Steve Varsa

Stantec

# DAILY FIELD REPORT
## Remediation Equipment Installation and Start-up

El Paso CGP Company
1001 Louisiana Street
Houston, Texas 77002

Knight #1
Groundwater Pit Site

DATE: 10/18/22 Tuesday
WEATHER: sunny, 50's to 70's F,
PROJECT No.: 193709249

Everyone Safely Off Site: Yes

**ON-SITE PERSONNEL (name, company, project role)**

Tim Dickey, AECOM, Field Technician
Carl Lehman, Stantec, Project Oversight
Sean Clary, Stantec, Project Oversight
Ferlin Hunt, Sierra Oilfield Services, Laborer
Nathanial Begay, Sierra Oilfield Services, Laborer
JC McBride, Taft Electric, Electrician
Ernest King, Taft Electric, Electrician

**VISITORS (name, company)**

Zach Ahlgrim, FEUS service truck
Aaron, FEUS service truck

**CONSTRUCTION EQUIPMENT (type, model)**

**TASKS PERFORMED**

Conduct daily Health and Safety Meetings
Taft continues to install conduit for electric hookup
FEUS hooks up service drop and meter
Sierra completes fencing and repairs owner's gate
Sierra places gravel over Taft conduit

**LOADS of MATERIAL TRANSPORTED**

| TYPE | BID AMOUNT | DAILY NUMBER | UNIT / OTHER | CUMULATIVE TOTALS | DESTINATION/SOURCE |
|---|---|---|---|---|---|
| Suction Tubing (SVE Tubing) | - | 0 | feet | 150 | to site for hookups |
| 1" hose | - | 0 | feet | 200 | to site for AS hookups |
| unistrut footing | - | 0 | unit | 1 | footing for under FALCO VCV |
| T Posts | - | 0 | ea | 30 | posts for AS/SVE wells |
| H Posts | - | 0 | ea | 3 | H posts for fencing/gate |
| 10' gate | - | 0 | ea | 1 | gate |
| riprap material | - | 0 | truck | 1 | riprap for pad stability |
| Wire for underground 3-ph | 0 | 0 | lump | 1 | wire for underground 3-ph |
| Anchors | - | 0 | ea | 4 | anchors for trailer and condensate tank |

**PROJECT COMMENTS/NOTES (health and safety, operational issues/concerns, corrective actions, etc.)**

Wiring issue between FALCO and PLC. Plan to contact enviroequipment, Aecom, etc. and fix issue on Wednesday. O and M training to occur Thursday ~8AM to ~12PM

**NEXT DAY'S PLANNED ACTIVITIES**

Troubleshoot aand address wiring issue
Remove all excess materials from site

**PREPARED BY:** Sean Clary

**REVIEWED BY:** Steve Varsa

Stantec

# DAILY FIELD REPORT
## Remediation Equipment Installation and Start-up

El Paso CGP Company
1001 Louisiana Street
Houston, Texas 77002

Knight #1
Groundwater Pit Site

DATE: 10/19/22 Wednesday
WEATHER: sunny, 50's to 70's F,
PROJECT No.: 193709249

Everyone Safely Off Site: Yes

**ON-SITE PERSONNEL (name, company, project role)**

Tim Dickey, AECOM, Field Technician
Carl Lehman, Stantec, Project Oversight
Sean Clary, Stantec, Project Oversight
JC McBride, Taft Electric, Electrician
Ernest King, Taft Electric, Electrician

**VISITORS (name, company)**

None.

**CONSTRUCTION EQUIPMENT (type, model)**

None.

**TASKS PERFORMED**

Conduct daily Health and Safety Meetings
Taft, Stantec, and other determine how to arrange "catox ready" signal to run system with SVE interlock on
Hookup signal to dry contacts on Normally Open (NO) relay and test SVE interlock
Start system and monitor startup

**LOADS of MATERIAL TRANSPORTED**

| TYPE | BID AMOUNT | DAILY NUMBER | UNIT / OTHER | CUMULATIVE TOTALS | DESTINATION/SOURCE |
|---|---|---|---|---|---|
| Suction Tubing (SVE Tubing) | - | 0 | feet | 150 | to site for hookups |
| 1" hose | - | 0 | feet | 200 | to site for AS hookups |
| unistrut footing | - | 0 | unit | 1 | footing for under FALCO VCV |
| T Posts | - | 0 | ea | 30 | posts for AS/SVE wells |
| H Posts | - | 0 | ea | 3 | H posts for fencing/gate |
| 10' gate | - | 0 | ea | 1 | gate |
| riprap material | - | 0 | truck | 1 | riprap for pad stability |
| Wire for underground 3-ph | 0 | 0 | lump | 1 | wire for underground 3-ph |
| Anchors | - | 0 | ea | 4 | anchors for trailer and condensate tank |

**PROJECT COMMENTS/NOTES (health and safety, operational issues/concerns, corrective actions, etc.)**

SVE Interlock appears to be functioning with signal coming from dry contacts on NO relay. System running to be started 10/20 with vapors from SVE-1, 2, and 3.

**NEXT DAY'S PLANNED ACTIVITIES**

Conduct O&M training activities

**PREPARED BY:** Sean Clary

**REVIEWED BY:** Steve Varsa

Stantec

# DAILY FIELD REPORT
## Remediation Equipment Installation and Start-up

El Paso CGP Company
1001 Louisiana Street
Houston, Texas 77002

Knight #1
Groundwater Pit Site

DATE: 10/20/22 Thursday
WEATHER: sunny, 50's to 70's F,
PROJECT No.: 193709249

Everyone Safely Off Site: Yes

**ON-SITE PERSONNEL (name, company, project role)**

Tim Dickey, AECOM, Field Technician
Carl Lehman, Stantec, Project Oversight
Sean Clary, Stantec, Project Oversight
Ferlin Hunt, Sierra Oilfield Services, Laborer
JC McBride, Taft Electric, Electrician
Ernest King, Taft Electric, Electrician

**VISITORS (name, company)**

None.

**CONSTRUCTION EQUIPMENT (type, model)**

None.

**TASKS PERFORMED**

Conduct daily Health and Safety Meetings
Conduct O&M training for continuous AS/SVE monitoring and operation
Start AS/SVE system (SVE only currently, SVE-1, 2, and SVE-3 flow)

**LOADS of MATERIAL TRANSPORTED**

| TYPE | BID AMOUNT | DAILY NUMBER | UNIT / OTHER | CUMULATIVE TOTALS | DESTINATION/SOURCE |
|---|---|---|---|---|---|
| Suction Tubing (SVE Tubing) | - | 0 | feet | 150 | to site for hookups |
| 1" hose | - | 0 | feet | 200 | to site for AS hookups |
| unistrut footing | - | 0 | unit | 1 | footing for under FALCO VCV |
| T Posts | - | 0 | ea | 30 | posts for AS/SVE wells |
| H Posts | - | 0 | ea | 3 | H posts for fencing/gate |
| 10' gate | - | 0 | ea | 1 | gate |
| riprap material | - | 0 | truck | 1 | riprap for pad stability |
| Wire for underground 3-ph | 0 | 0 | lump | 1 | wire for underground 3-ph |
| Anchors | - | 0 | ea | 4 | anchors for trailer and condensate tank |

**PROJECT COMMENTS/NOTES (health and safety, operational issues/concerns, corrective actions, etc.)**

Flow from SVE-1, 2, and 3 opened with dilution air. High vapor concentrations preheating catalyst in oxidizer.

**NEXT DAY'S PLANNED ACTIVITIES**

None

**PREPARED BY:** Sean Clary

**REVIEWED BY:** Steve Varsa

# APPENDIX C

Stantec

# Photographic Log

| | | | |
|---|---|---|---|
| **Client:** | **El Paso CGP Company** | **Project:** | **Knight #1 Air Sparge/Soil Vapor Extraction Installation** |
| **Site Name:** | **Knight #1** | **Site Location:** | **T30N, R13W, Sec 5, Unit A** |

**Photograph ID:** 1

**Photo Location:**

**Direction:**
West

**Survey Date:**
5/25/2022

**Comments:**
Taft installs tracer tape above 4" underground conduit between main shutoff and proposed equipment location prior to backfilling.

**Photograph ID:** 2

**Photo Location:**

**Direction:**
Southwest

**Survey Date:**
5/25/2022

**Comments:**
View of utility meter and main shutoff installed by Taft in May 2022. Backfilling over 4" buried conduit visible (lighter colored fill material).

Stantec

## Photographic Log

| | | | |
|---|---|---|---|
| **Client:** | **El Paso CGP Company** | **Project:** | **Knight #1 Air Sparge/Soil Vapor Extraction Installation** |
| **Site Name:** | **Knight #1** | **Site Location:** | **T30N, R13W, Sec 5, Unit A** |

| | |
|---|---|
| **Photograph ID:** 3<br>**Photo Location:**<br>**Direction:** South/Southwest<br>**Survey Date:** 10/10/2022<br>**Comments:** Remediation trailer is craned into position after completing lift paperwork. |  |
| **Photograph ID:** 4<br>**Photo Location:**<br>**Direction:** Northwest<br>**Survey Date:** 10/11/2022<br>**Comments:** View shows remediation trailer, FALCO 300 catalytic oxidizer, and associated 4" galvanized steel SVE conveyance piping. |  |

Stantec

## Photographic Log

| | | | |
|---|---|---|---|
| **Client:** | **El Paso CGP Company** | **Project:** | **Knight #1 Air Sparge/Soil Vapor Extraction Installation** |
| **Site Name:** | **Knight #1** | **Site Location:** | **T30N, R13W, Sec 5, Unit A** |

**Photograph ID:** 5

**Photo Location:**

**Direction:**
South

**Survey Date:**
10/17/2022

**Comments:**
Sierra places riprap material around the gravel equipment pad to further stabilize the area.

**Photograph ID:** 6

**Photo Location:**

**Direction:**
Southeast

**Survey Date:**
10/14/2022

**Comments:**
1" air sparge connections between laterals and equipment trailer completed by Sierra.

Stantec

## Photographic Log

| | | | |
|---|---|---|---|
| **Client:** | **El Paso CGP Company** | **Project:** | **Knight #1 Air Sparge/Soil Vapor Extraction Installation** |
| **Site Name:** | **Knight #1** | **Site Location:** | **T30N, R13W, Sec 5, Unit A** |

**Photograph ID:** 7

**Photo Location:**

**Direction:**
Northeast

**Survey Date:**
11/4/2022

**Comments:**
2" soil vapor extraction connections made between laterals and equipment trailer completed by Sierra.

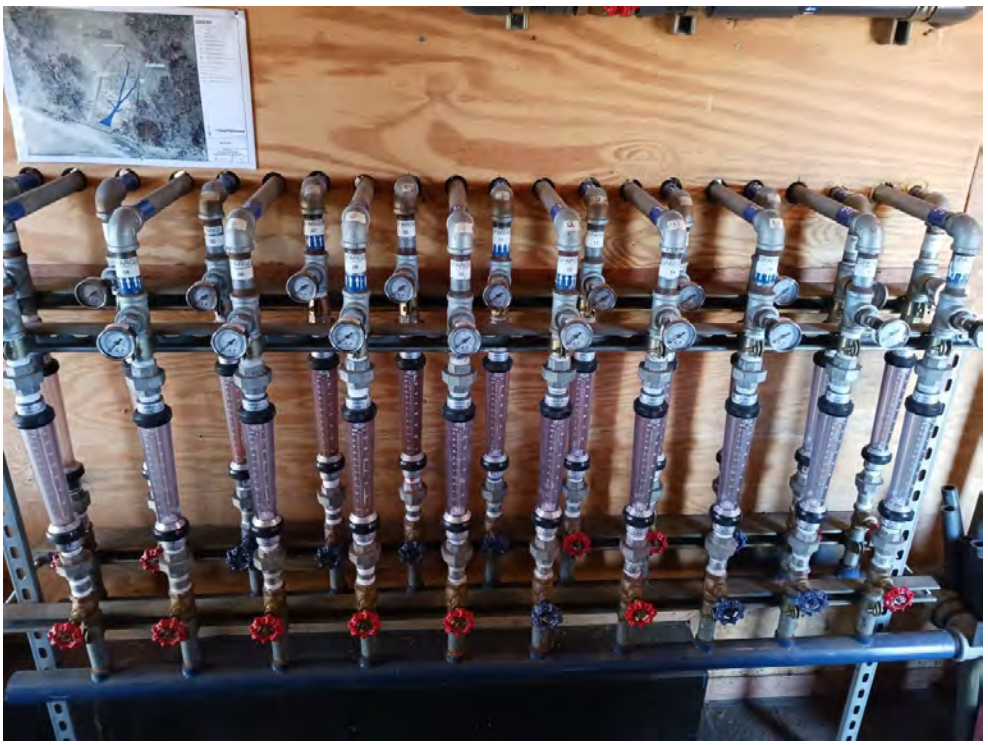
**Photograph ID:** 8

**Photo Location:**

**Direction:**
North

**Survey Date:**
11/4/2022

**Comments:**
View of air sparge manifold inside equipment trailer.



Stantec

## Photographic Log

| | | | |
|---|---|---|---|
| **Client:** | **El Paso CGP Company** | **Project:** | **Knight #1 Air Sparge/Soil Vapor Extraction Installation** |
| **Site Name:** | **Knight #1** | **Site Location:** | **T30N, R13W, Sec 5, Unit A** |

| | |
|---|---|
| **Photograph ID:** 9<br>**Photo Location:**<br>**Direction:** Southwest<br>**Survey Date:** 11/4/2022<br>**Comments:** View of soil vapor extraction manifold inside equipment trailer. |  |
| **Photograph ID:** 10<br>**Photo Location:**<br>**Direction:** Northeast<br>**Survey Date:** 11/7/2022<br>**Comments:** View of FALCO 300 oxidizer, equipment trailer, and support post for galvanized pipe. |  |

Stantec

## Photographic Log

| | | | |
|---|---|---|---|
| **Client:** | **El Paso CGP Company** | **Project:** | **Knight #1 Air Sparge/Soil Vapor Extraction Installation** |
| **Site Name:** | **Knight #1** | **Site Location:** | **T30N, R13W, Sec 5, Unit A** |

| | |
|---|---|
| **Photograph ID:** 11<br>**Photo Location:**<br>**Direction:** East<br>**Survey Date:** 10/20/2022<br>**Comments:** View of double walled condensate tank and associated schedule 80 PVC piping. |  |
| **Photograph ID:** 12<br>**Photo Location:**<br>**Direction:** Northeast<br>**Survey Date:** 10/20/2022<br>**Comments:** View (left to right) soil vapor extraction connections, FALCO Vapor Control Valve (VCV) and associated piping, and double wall condensate tank. |  |

Stantec

## Photographic Log

| | | | |
|---|---|---|---|
| **Client:** | **El Paso CGP Company** | **Project:** | **Knight #1 Air Sparge/Soil Vapor Extraction Installation** |
| **Site Name:** | **Knight #1** | **Site Location:** | **T30N, R13W, Sec 5, Unit A** |

**Photograph ID:** 13

**Photo Location:**

**Direction:**
North

**Survey Date:**
10/11/2022

**Comments:**
View of remediation well array.

**Photograph ID:** 14

**Photo Location:**

**Direction:**
Northeast

**Survey Date:**
11/7/2022

**Comments:**
View of assembled system from west side.

# APPENDIX D

## Soil Vapor Extraction Well Data
## Knight #1

| WELL ID | Date | Differential Pressure | Vacuum | PID |
|---|---|---|---|---|
| SVE-1 | 10/20/2022 | -- | -- | 1164 |
| | 10/29/2022 | 0.2 | 25.1 | 954 |
| SVE-2 | 10/20/2022 | -- | -- | 450 |
| | 10/29/2022 | 1.0 | 17.5 | 554 |
| SVE-3 | 10/20/2022 | -- | -- | 1655 |
| | 10/29/2022 | 1.3 | 18.1 | 1452 |
| SVE-4 | 10/20/2022 | W.C. | W.C. | W.C. |
| | 10/29/2022 | W.C. | W.C. | W.C. |
| SVE-5 | 10/20/2022 | W.C. | W.C. | W.C. |
| | 10/29/2022 | W.C. | W.C. | W.C. |
| SVE-6 | 10/20/2022 | W.C. | W.C. | W.C. |
| | 10/29/2022 | W.C. | W.C. | W.C. |
| SVE-7 | 10/20/2022 | W.C. | W.C. | W.C. |
| | 10/29/2022 | W.C. | W.C. | W.C. |
| SVE-8 | 10/20/2022 | W.C. | W.C. | W.C. |
| | 10/29/2022 | W.C. | W.C. | W.C. |

**Notes:**

-- = Not measured (broken meter/fluctuating readings/unable to measure)

W.C. = Well Closed

Flow recorded in standard cubic feet per minute (scfm)
Vacuum recorded in inches of water (in. $H_2O$)

Photoionizaton Detector (PID) readings are in parts per million (ppm)

bgs = below ground surface

## Vapor Treatment System Analytical Summary
## Knight #1

| Sample | | PID | Benzene | Toluene | Ethyl Benzene | Total Xylenes | Total BTEX | TPH |
|---|---|---|---|---|---|---|---|---|
| Location | Date | (ppm) | (mg/m3) | (mg/m3) | (mg/m3) | (mg/m3) | (mg/m3) | (mg/m3) |
| SVE Effluent | 10/18/2022 | 1,000 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. |
| | 10/20/2022 | 753 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. |
| | 10/29/2022 | 660 | 2.2 | 0.2 | 17.0 | 150 | 169 | 2,700 |

| Sample | | PID | Benzene | Toluene | Ethyl Benzene | Total Xylenes | Total BTEX | TPH |
|---|---|---|---|---|---|---|---|---|
| Location | Date | (ppm) | (mg/m3) | (mg/m3) | (mg/m3) | (mg/m3) | (mg/m3) | (mg/m3) |
| Catox Effluent | 10/18/2022 | 1.1 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. |
| | 10/20/2022 | 1.4 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. |
| | 10/29/2022 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 1.1 |

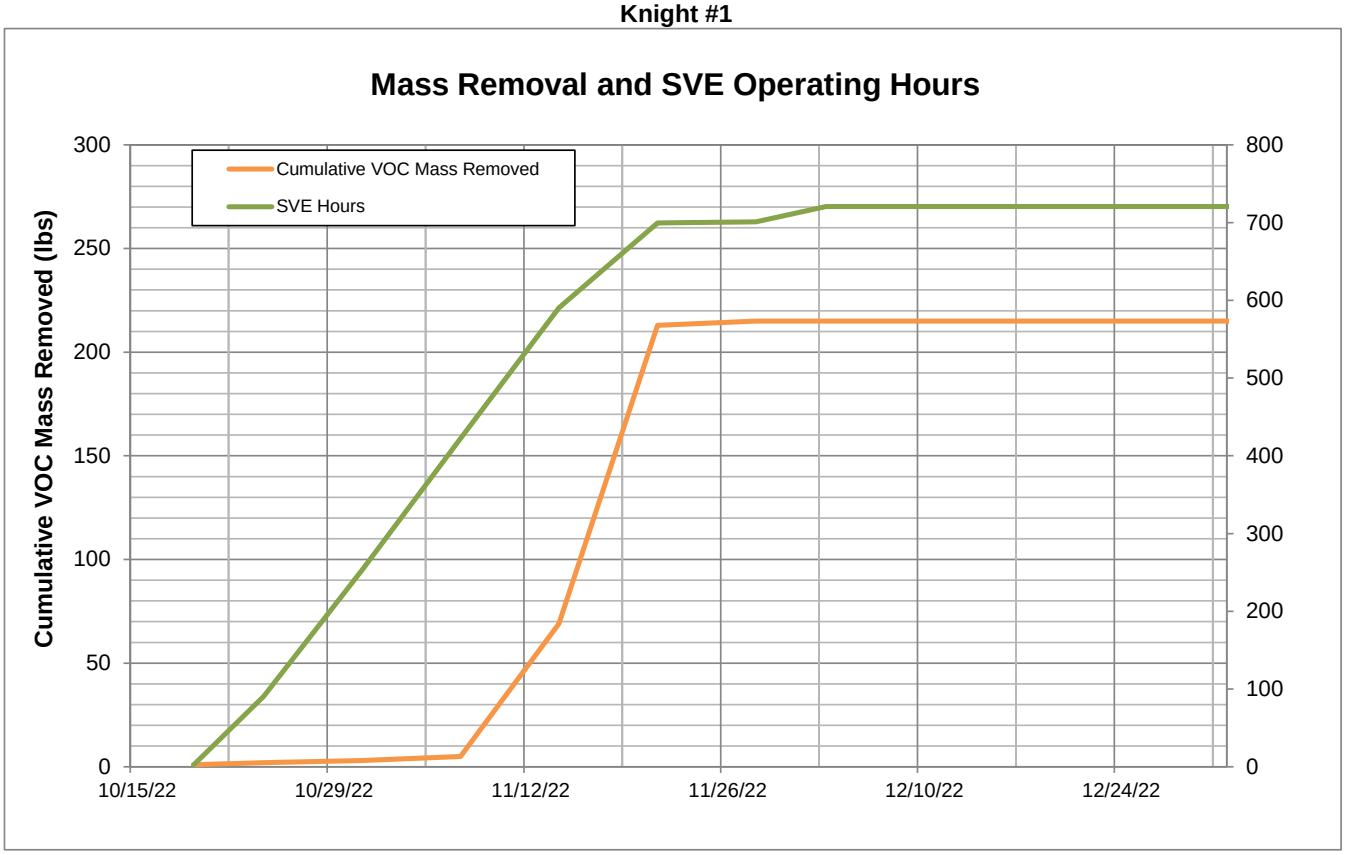
ppm = Parts per million
TPH = Total petroleum hydrocarbons
$mg/m^3$ = Milligrams per cubic meter
PID = Photoionization Detector
N.M. = Not Measured
N.S. = Not Sampled
BTEX analysis by EPA TO-15
TPH analysis by EPA TO-3

## System Influence Monitoring
## Parameters Knight #1

| WELL ID | Date | Depth to Product | Depth to Water | Temperature | Dissolved Oxygen | Pressure | CO | LEL | H2S | O2 | PID |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-1 | 10/13/2022 | N.D. | 25.15 | 15.0 | 0.00 | N.P. | N.P. | N.P. | N.P. | N.P. | N.P. |
| | 10/29/2022 | N.D. | 24.94 | N.P. | 0.00 | N.P. | 4.0 | 0.0 | 0.0 | 20.0 | N.P. |
| MW-2 | 10/13/2022 | N.D. | 24.68 | 15.0 | 0.00 | N.P. | N.P. | N.P. | N.P. | N.P. | N.P. |
| | 10/29/2022 | N.D. | 24.45 | N.P. | 0.00 | N.P. | 0.0 | 0.0 | 0.0 | 19.9 | N.P. |
| MW-3 | 10/13/2022 | N.D. | 24.92 | 14.8 | 0.00 | N.P. | N.P. | N.P. | N.P. | N.P. | N.P. |
| | 10/29/2022 | N.D. | 24.77 | N.P. | 0.00 | N.P. | 0.0 | 0.0 | 0.0 | 20.0 | N.P. |
| MW-4 | 10/13/2022 | N.D. | 25.61 | 14.8 | 0.00 | N.P. | N.P. | N.P. | N.P. | N.P. | N.P. |
| | 10/29/2022 | N.D. | 25.38 | N.P. | 0.00 | N.P. | 0.0 | 0.0 | 0.0 | 20.4 | N.P. |
| MW-5 | 10/13/2022 | N.D. | 22.83 | 12.7 | 0.00 | N.P. | N.P. | N.P. | N.P. | N.P. | N.P. |
| | 10/29/2022 | N.D. | 22.65 | N.P. | 0.00 | N.P. | 0.0 | 0.0 | 0.0 | 17.4 | N.P. |
| MW-6 | 10/13/2022 | N.D. | 23.31 | 13.9 | 0.00 | N.P. | N.P. | N.P. | N.P. | N.P. | N.P. |
| | 10/29/2022 | N.D. | 23.10 | N.P. | 0.04 | N.P. | 0.0 | 0.0 | 0.0 | 14.7 | N.P. |
| MW-7 | 10/13/2022 | N.D. | 23.93 | 13.8 | 0.00 | N.P. | N.P. | N.P. | N.P. | N.P. | N.P. |
| | 10/29/2022 | N.D. | 23.74 | N.P. | 0.00 | N.P. | 0.0 | 0.0 | 0.0 | 19.2 | N.P. |
| MW-8 | 10/13/2022 | N.D. | 24.50 | 13.7 | 0.00 | N.P. | N.P. | N.P. | N.P. | N.P. | N.P. |
| | 10/29/2022 | N.D. | 24.27 | N.P. | 0.00 | N.P. | 0.0 | 0.0 | 0.0 | 16.8 | N.P. |
| MW-9 | 10/13/2022 | N.D. | 25.93 | 14.2 | 0.00 | N.P. | N.P. | N.P. | N.P. | N.P. | N.P. |
| | 10/29/2022 | N.D. | 25.69 | N.P. | 0.01 | N.P. | 0.0 | 0.0 | 0.0 | 18.1 | N.P. |
| MW-10 | 10/13/2022 | N.D. | 26.47 | 14.6 | 0.00 | N.P. | N.P. | N.P. | N.P. | N.P. | N.P. |
| | 10/29/2022 | N.D. | 26.24 | N.P. | 0.00 | N.P. | 0.0 | 0.0 | 0.0 | 17.1 | N.P. |
| MW-11 | 10/13/2022 | N.D. | 26.35 | 15.4 | 0.00 | N.P. | N.P. | N.P. | N.P. | N.P. | N.P. |
| | 10/29/2022 | N.D. | 26.09 | N.P. | 0.00 | N.P. | 0.0 | 0.0 | 0.0 | 17.1 | N.P. |
| MW-12 | 10/13/2022 | N.D. | 24.54 | 15.0 | 0.00 | N.P. | N.P. | N.P. | N.P. | N.P. | N.P. |
| | 10/29/2022 | N.D. | 24.32 | N.P. | 0.00 | N.P. | 12.0 | 70.0 | 0.0 | 9.3 | N.P. |
| MW-13 | 10/13/2022 | N.D. | 22.17 | 14.7 | 0.00 | N.P. | N.P. | N.P. | N.P. | N.P. | N.P. |
| | 10/29/2022 | N.D. | 21.96 | N.P. | 0.00 | N.P. | 0.0 | 0.0 | 0.0 | 10.4 | N.P. |
| MW-14 | 10/13/2022 | N.D. | 24.63 | 15.6 | 0.23 | N.P. | N.P. | N.P. | N.P. | N.P. | N.P. |
| | 10/29/2022 | N.D. | 24.38 | N.P. | 0.20 | N.P. | 0.0 | 0.0 | 0.0 | 15.2 | N.P. |
| MW-15 | 10/13/2022 | N.D. | 24.20 | 15.2 | 0.00 | N.P. | N.P. | N.P. | N.P. | N.P. | N.P. |
| | 10/29/2022 | N.D. | 24.08 | N.P. | 0.00 | N.P. | 0.0 | 0.0 | 0.0 | 15.9 | N.P. |

**Notes:**
N.P. = Not Performed
N.D. = Not Detected
Temperature readings are in degrees Celsius.
Dissolved Oxygen (DO) concentrations are in milligrams per liter (mg/L).
Pressure recorded in inches of water (in. H2O). A negative value indicates vacuum
Carbon Monoxide (CO) readings are in parts per million (ppm)
Lower Explosive Limit (LEL) readings are in percent by volume (%v/v)
Hydrogen Sulfide (H2S) readings are in parts per million (ppm)
Oxygen (O2) readings are in percent by volume (%v/v)
PhotoIonization Detector (PID) readings are in parts per million (ppm)

**SVE Performance in 2022**
**Knight #1**



# APPENDIX E

eurofins | Environment Testing

# ANALYTICAL REPORT

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

Laboratory Job ID: 400-228259-1
Client Project/Site: Knight #1.00

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

Attn: Steve Varsa

*Authorized for release by:*
*11/11/2022 5:49:11 PM*
Isabel Enfinger, Project Manager I
(850)471-6237
isabel.enfinger@et.eurofinsus.com

Designee for

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



The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the {0} Project Manager.

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Laboratory Job ID: 400-228259-1

# Table of Contents

# Case Narrative

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job ID: 400-228259-1

## Job ID: 400-228259-1

### Laboratory: Eurofins Pensacola

**Narrative**

**Job Narrative**
**400-228259-1**

**Receipt**
The samples were received on 11/1/2022 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice.

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

# Detection Summary

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job ID: 400-228259-1

## Client Sample ID: COMP PRE — Lab Sample ID: 400-228259-1

| Analyte | Result | Qualifier | RL | | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 2.2 | | 0.13 | | mg/m3 | 210 | | TO-15 | Total/NA |
| Ethylbenzene | 17 | | 0.18 | | mg/m3 | 210 | | TO-15 | Total/NA |
| m,p-Xylene | 150 | E | 0.46 | | mg/m3 | 210 | | TO-15 | Total/NA |
| Xylene (total) | 150 | E | 0.64 | | mg/m3 | 210 | | TO-15 | Total/NA |
| Benzene - DL | 2.2 | | 0.38 | | mg/m3 | 600 | | TO-15 | Total/NA |
| Ethylbenzene - DL | 16 | | 0.52 | | mg/m3 | 600 | | TO-15 | Total/NA |
| m,p-Xylene - DL | 140 | | 1.3 | | mg/m3 | 600 | | TO-15 | Total/NA |
| Xylene (total) - DL | 140 | | 1.8 | | mg/m3 | 600 | | TO-15 | Total/NA |
| TPH GRO as Octane (C5-C10) | 2700 | | 34 | | mg/m3 | 600 | | TO3 | Total/NA |

## Client Sample ID: COMP POST — Lab Sample ID: 400-228259-2

| Analyte | Result | Qualifier | RL | | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.0065 | | 0.00064 | | mg/m3 | 1 | | TO-15 | Total/NA |
| Toluene | 0.0025 | | 0.00075 | | mg/m3 | 1 | | TO-15 | Total/NA |
| m,p-Xylene | 0.0067 | | 0.0022 | | mg/m3 | 1 | | TO-15 | Total/NA |
| Xylene (total) | 0.0067 | | 0.0030 | | mg/m3 | 1 | | TO-15 | Total/NA |
| TPH GRO as Octane (C5-C10) | 1.1 | | 0.057 | | mg/m3 | 1 | | TO3 | Total/NA |

This Detection Summary does not include radiochemical test results.

# Method Summary

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job ID: 400-228259-1

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| TO-15 | Volatile Organic Compounds in Ambient Air | EPA | EET BUR |
| TO3 | Volatile Organic Compounds in Ambient Air, Cryogenic Pre-Conc Techniques (GC) | EPA | EET BUR |

**Protocol References:**

EPA = US Environmental Protection Agency

**Laboratory References:**

EET BUR = Eurofins Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

# Sample Summary

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job ID: 400-228259-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Asset ID |
|---|---|---|---|---|---|
| 400-228259-1 | COMP PRE | Air | 10/29/22 08:25 | 11/01/22 10:30 | Air Canister (6-Liter) #5109 |
| 400-228259-2 | COMP POST | Air | 10/29/22 08:29 | 11/01/22 10:30 | Air Canister (6-Liter) #3550 |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job ID: 400-228259-1

## Client Sample ID: COMP PRE

**Lab Sample ID: 400-228259-1**

**Date Collected: 10/29/22 08:25**
**Matrix: Air**
**Date Received: 11/01/22 10:30**
**Sample Container: Summa Canister 6L**

### Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Benzene** | **2.2** | | 0.13 | | mg/m3 | | | 11/04/22 16:13 | 210 |
| Toluene | <0.16 | | 0.16 | | mg/m3 | | | 11/04/22 16:13 | 210 |
| **Ethylbenzene** | **17** | | 0.18 | | mg/m3 | | | 11/04/22 16:13 | 210 |
| **m,p-Xylene** | **150** | **E** | 0.46 | | mg/m3 | | | 11/04/22 16:13 | 210 |
| Xylene, o- | <0.18 | | 0.18 | | mg/m3 | | | 11/04/22 16:13 | 210 |
| **Xylene (total)** | **150** | **E** | 0.64 | | mg/m3 | | | 11/04/22 16:13 | 210 |

### Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Benzene** | **2.2** | | 0.38 | | mg/m3 | | | 11/07/22 12:34 | 600 |
| Toluene | <0.45 | | 0.45 | | mg/m3 | | | 11/07/22 12:34 | 600 |
| **Ethylbenzene** | **16** | | 0.52 | | mg/m3 | | | 11/07/22 12:34 | 600 |
| **m,p-Xylene** | **140** | | 1.3 | | mg/m3 | | | 11/07/22 12:34 | 600 |
| Xylene, o- | <0.52 | | 0.52 | | mg/m3 | | | 11/07/22 12:34 | 600 |
| **Xylene (total)** | **140** | | 1.8 | | mg/m3 | | | 11/07/22 12:34 | 600 |

### Method: EPA TO3 - Volatile Organic Compounds in Ambient Air, Cryogenic Pre-Conc Techniques (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **TPH GRO as Octane (C5-C10)** | **2700** | | 34 | | mg/m3 | | | 11/07/22 12:34 | 600 |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job ID: 400-228259-1

## Client Sample ID: COMP POST

**Lab Sample ID: 400-228259-2**

**Date Collected: 10/29/22 08:29**
**Matrix: Air**
**Date Received: 11/01/22 10:30**
**Sample Container: Summa Canister 6L**

### Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Benzene** | **0.0065** | | 0.00064 | | mg/m3 | | | 11/04/22 17:05 | 1 |
| **Toluene** | **0.0025** | | 0.00075 | | mg/m3 | | | 11/04/22 17:05 | 1 |
| Ethylbenzene | <0.00087 | | 0.00087 | | mg/m3 | | | 11/04/22 17:05 | 1 |
| **m,p-Xylene** | **0.0067** | | 0.0022 | | mg/m3 | | | 11/04/22 17:05 | 1 |
| Xylene, o- | <0.00087 | | 0.00087 | | mg/m3 | | | 11/04/22 17:05 | 1 |
| **Xylene (total)** | **0.0067** | | 0.0030 | | mg/m3 | | | 11/04/22 17:05 | 1 |

### Method: EPA TO3 - Volatile Organic Compounds in Ambient Air, Cryogenic Pre-Conc Techniques (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **TPH GRO as Octane (C5-C10)** | **1.1** | | 0.057 | | mg/m3 | | | 11/04/22 17:05 | 1 |

# Definitions/Glossary

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job ID: 400-228259-1

## Qualifiers

### Air - GC/MS VOA

| Qualifier | Qualifier Description |
|---|---|
| E | Result exceeded calibration range. |

## Glossary

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

# Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job ID: 400-228259-1

## Client Sample ID: COMP PRE

**Lab Sample ID: 400-228259-1**
**Matrix: Air**
**Date Collected: 10/29/22 08:25**
**Date Received: 11/01/22 10:30**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | TO-15 | | 210 | 76 mL | 200 mL | 185431 | 11/04/22 16:13 | K1P | EET BUR |
| | Instrument ID: CHW.i | | | | | | | | | |
| Total/NA | Analysis | TO-15 | DL | 600 | 26 mL | 200 mL | 185490 | 11/07/22 12:34 | A1B | EET BUR |
| | Instrument ID: CHX.i | | | | | | | | | |
| Total/NA | Analysis | TO3 | | 600 | 26 mL | 200 mL | 185491 | 11/07/22 12:34 | VTP | EET BUR |
| | Instrument ID: CHX.i | | | | | | | | | |

## Client Sample ID: COMP POST

**Lab Sample ID: 400-228259-2**
**Matrix: Air**
**Date Collected: 10/29/22 08:29**
**Date Received: 11/01/22 10:30**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | TO-15 | | 1 | 200 mL | 200 mL | 185431 | 11/04/22 17:05 | K1P | EET BUR |
| | Instrument ID: CHW.i | | | | | | | | | |
| Total/NA | Analysis | TO3 | | 1 | 200 mL | 200 mL | 185633 | 11/04/22 17:05 | VTP | EET BUR |
| | Instrument ID: CHW.i | | | | | | | | | |

**Laboratory References:**

EET BUR = Eurofins Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

# QC Association Summary

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job ID: 400-228259-1

## Air - GC/MS VOA

### Analysis Batch: 185431

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-228259-1 | COMP PRE | Total/NA | Air | TO-15 | |
| 400-228259-2 | COMP POST | Total/NA | Air | TO-15 | |
| MB 200-185431/4 | Method Blank | Total/NA | Air | TO-15 | |
| LCS 200-185431/3 | Lab Control Sample | Total/NA | Air | TO-15 | |

### Analysis Batch: 185490

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-228259-1 - DL | COMP PRE | Total/NA | Air | TO-15 | |
| MB 200-185490/5 | Method Blank | Total/NA | Air | TO-15 | |
| LCS 200-185490/3 | Lab Control Sample | Total/NA | Air | TO-15 | |

### Analysis Batch: 185491

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-228259-1 | COMP PRE | Total/NA | Air | TO3 | |
| MB 200-185491/5 | Method Blank | Total/NA | Air | TO3 | |
| LCS 200-185491/3 | Lab Control Sample | Total/NA | Air | TO3 | |

### Analysis Batch: 185633

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-228259-2 | COMP POST | Total/NA | Air | TO3 | |
| MB 200-185633/4 | Method Blank | Total/NA | Air | TO3 | |
| LCS 200-185633/3 | Lab Control Sample | Total/NA | Air | TO3 | |

# QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job ID: 400-228259-1

## Method: TO-15 - Volatile Organic Compounds in Ambient Air

**Lab Sample ID: MB 200-185431/4**
**Matrix: Air**
**Analysis Batch: 185431**

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

| Analyte | MB Result | MB Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00064 | | 0.00064 | | mg/m3 | | | 11/04/22 09:54 | 1 |
| Toluene | <0.00075 | | 0.00075 | | mg/m3 | | | 11/04/22 09:54 | 1 |
| Ethylbenzene | <0.00087 | | 0.00087 | | mg/m3 | | | 11/04/22 09:54 | 1 |
| m,p-Xylene | <0.0022 | | 0.0022 | | mg/m3 | | | 11/04/22 09:54 | 1 |
| Xylene, o- | <0.00087 | | 0.00087 | | mg/m3 | | | 11/04/22 09:54 | 1 |
| Xylene (total) | <0.0030 | | 0.0030 | | mg/m3 | | | 11/04/22 09:54 | 1 |

**Lab Sample ID: LCS 200-185431/3**
**Matrix: Air**
**Analysis Batch: 185431**

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

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 0.0319 | 0.0303 | | mg/m3 | | 95 | 73 - 119 | | |
| Toluene | | | 0.0377 | 0.0375 | | mg/m3 | | 99 | 75 - 122 | | |
| Ethylbenzene | | | 0.0434 | 0.0440 | | mg/m3 | | 101 | 74 - 122 | | |
| m,p-Xylene | | | 0.0868 | 0.0909 | | mg/m3 | | 105 | 76 - 121 | | |
| Xylene, o- | | | 0.0434 | 0.0440 | | mg/m3 | | 101 | 73 - 123 | | |

**Lab Sample ID: MB 200-185490/5**
**Matrix: Air**
**Analysis Batch: 185490**

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

| Analyte | MB Result | MB Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00064 | | 0.00064 | | mg/m3 | | | 11/07/22 09:57 | 1 |
| Toluene | <0.00075 | | 0.00075 | | mg/m3 | | | 11/07/22 09:57 | 1 |
| Ethylbenzene | <0.00087 | | 0.00087 | | mg/m3 | | | 11/07/22 09:57 | 1 |
| m,p-Xylene | <0.0022 | | 0.0022 | | mg/m3 | | | 11/07/22 09:57 | 1 |
| Xylene, o- | <0.00087 | | 0.00087 | | mg/m3 | | | 11/07/22 09:57 | 1 |
| Xylene (total) | <0.0030 | | 0.0030 | | mg/m3 | | | 11/07/22 09:57 | 1 |

**Lab Sample ID: LCS 200-185490/3**
**Matrix: Air**
**Analysis Batch: 185490**

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

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 0.0319 | 0.0289 | | mg/m3 | | 90 | 73 - 119 | | |
| Toluene | | | 0.0377 | 0.0353 | | mg/m3 | | 94 | 75 - 122 | | |
| Ethylbenzene | | | 0.0434 | 0.0423 | | mg/m3 | | 98 | 74 - 122 | | |
| m,p-Xylene | | | 0.0868 | 0.0848 | | mg/m3 | | 98 | 76 - 121 | | |
| Xylene, o- | | | 0.0434 | 0.0422 | | mg/m3 | | 97 | 73 - 123 | | |

## Method: TO3 - Volatile Organic Compounds in Ambient Air, Cryogenic Pre-Conc Techniques (GC)

**Lab Sample ID: MB 200-185491/5**
**Matrix: Air**
**Analysis Batch: 185491**

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

| Analyte | MB Result | MB Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| TPH GRO as Octane (C5-C10) | <0.057 | | 0.057 | | mg/m3 | | | 11/07/22 09:57 | 1 |

# QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job ID: 400-228259-1

## Method: TO3 - Volatile Organic Compounds in Ambient Air, Cryogenic Pre-Conc Techniques (GC) (Continued)

**Lab Sample ID: LCS 200-185491/3**
**Matrix: Air**
**Analysis Batch: 185491**

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| n-Octane | 0.0467 | 0.0422 | | mg/m3 | | 90 | 70 - 130 |

**Lab Sample ID: MB 200-185633/4**
**Matrix: Air**
**Analysis Batch: 185633**

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

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|
| TPH GRO as Octane (C5-C10) | <0.057 | | 0.057 | mg/m3 | | | 11/04/22 09:54 | 1 |

**Lab Sample ID: LCS 200-185633/3**
**Matrix: Air**
**Analysis Batch: 185633**

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| n-Octane | 0.0467 | 0.0451 | | mg/m3 | | 97 | 70 - 130 |

**Eurofins TestAmerica, Burlington**
530 Community Drive
Suite 11
South Burlington, VT 05403-6809
phone 802 660.1990 fax 802 660 1919

# Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples

eurofins | Environment Testing America

**TestAmerica Laboratories, Inc. d/b/a Eurofins TestAmerica**

| | | |
|---|---|---|
| **Client Contact Information** | **Client Project Manager:** STEVE VARSA | **Samples Collected By:** SRC |
| Company Name ITA WEST | **Phone:** — | |
| Address 11311 Aurora Ave | **Email:** steve.varsa@stantec.com | |
| City/State/Zip Urbandale, IA 50211 | | |
| Phone | **Site Contact:** | |
| FAX | **Tel/Fax** | |
| Project Name Knight #1 | **Analysis Turnaround Time** | |
| Site/Location SJRB NM | Standard (Specific) | |
| P O # | Rush (Specifiy) | |

COC No _____ of _____ COCs

TALS Project #

**For Lab Use Only:**
Walk-in Client:
Lab Sampling

Job / SDG No

(See below for Add'l Items)

| Sample Identification | Sample Start Date | Time Start | Sample End Date | Time Stop | Canister Vacuum in Field, "Hg (Start) | Canister Vacuum in Field, "Hg (Stop) | Flow Controller ID | Canister ID | TO-14/15 (Standard / Low Level) | TO-15 SIM | EPA 3C | EPA 25C | ASTM D-1946 | EPA 15/16 | Other (Please specify in notes section) | Sample Type | Indoor Air/Ambient Air | Sub-Slab | Soil Gas | Soil Vapor Extraction (SVE) | Landfill Gas | Other (Please specify in notes section) | Sample Specific Notes: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Comp Pre | 10/29/22 | 0825 | GRAB | | 26 | 5 | X | 5109 | | | | | | | X | | | | | X | | | TO15 BTEX, TO3 GRO |
| COMP POST | 10/29/22 | 0829 | GRAB | | 26 | 3 | X | 3550 | | | | | | | X | | | | | X | | | TO15 BTEX, TO3 GRO |

400-228259 COC

| Temperature (Fahrenheit) | | | |
|---|---|---|---|
| | Start | Interior | Ambient |
| | Stop | | |

| Pressure (inches of Hg) | | | |
|---|---|---|---|
| | Start | Interior | Ambient |
| | Stop | | |

**Special Instructions/QC Requirements & Comments:** Do not Analyse 4810, 5615

| | | |
|---|---|---|
| **Samples Shipped by:** | **Date / Time:** 10/31/22 1700 | **Samples Received by:** ETA Burl 11/1/2022 1030 |
| **Samples Relinquished by:** | **Date / Time:** | **Received by:** |
| **Relinquished by:** | **Date / Time:** | **Received by:** |
| **Lab Use Only:** **Shipper Name:** | **Opened by:** | **Condition:** |

Form No. CA-C-WI-003, Rev. 2.28, dated 1/8/2021

ORIGIN ID:FMNA (515) 707-3276
STANTEC CONSULTING SVCS INC.
11311 AURORA AVE
URBANDALE, IA 50322
UNITED STATES US

SHIP DATE: 31OCT22
ACTWGT: 25.40 LB
CAD: 6994093/SSFE2341
DIMS: 20x20x16 IN
BILL THIRD PARTY

TO
TEST AMERICA
30 COMMUNITY DR
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 660-1990
INV:
PO:
REF:
DEPT:

FedEx Express

TRK# 0201 3900 5802 8050

TUE - 01 NOV 4:30P
STANDARD OVERNIGHT

XE BTVA

0540
VT-US BT

# Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc Job Number: 400-228259-1

**Login Number: 228259** **List Source: Eurofins Pensacola**
**List Number: 1**
**Creator: Cunningham, Caroline R**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | N/A | Lab does not accept radioactive samples. |
| The cooler's custody seal, if present, is intact. | True | 1951652 |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | N/A | Thermal preservation not required. |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | N/A | Thermal preservation not required. |
| 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. | N/A | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

# Accreditation/Certification Summary

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job ID: 400-228259-1

## Laboratory: Eurofins Burlington

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

| Authority | Program | Identification Number | Expiration Date |
|---|---|---|---|
| ANAB | Dept. of Defense ELAP | L2336 | 02-25-23 |
| Connecticut | State | PH-0751 | 09-30-23 |
| DE Haz. Subst. Cleanup Act (HSCA) | State | N/A | 05-17-23 |
| Florida | NELAP | E87467 | 06-30-23 |
| Minnesota | NELAP | 050-999-436 | 12-31-22 |
| New Hampshire | NELAP | 2006 | 12-18-22 |
| New Jersey | NELAP | VT972 | 06-30-23 |
| New York | NELAP | 10391 | 04-01-23 |
| Pennsylvania | NELAP | 68-00489 | 04-30-23 |
| Rhode Island | State | LAO00298 | 12-30-22 |
| US Fish & Wildlife | US Federal Programs | 058448 | 07-31-23 |
| USDA | US Federal Programs | P330-17-00272 | 10-30-23 |
| Vermont | State | VT4000 | 02-10-23 |
| Virginia | NELAP | 460209 | 12-14-22 |
| Wisconsin | State | 399133350 | 08-31-23 |

# Summa Canister Dilution Worksheet

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job No.: 400-228259-1

| Lab Sample ID | Canister Volume (L) | Preadjusted Pressure ("Hg) | Preadjusted Pressure (atm) | Preadjusted Volume (L) | Adjusted Pressure (psig) | Adjusted Pressure (atm) | Adjusted Volume (L) | Initial Volume (mL) | Dilution Factor | Final Dilution Factor | Pressure Gauge ID | Date | Analyst Initals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 400-228259-1 | 6 | -8.7 | 0.71 | 4.26 | 41.5 | 3.82 | 22.94 | | 5.39 | 5.39 | G31 | 11/04/22 10:38 | TPB |
| 400-228259-1 | 6 | 0 | 1.00 | 6.00 | 39.4 | 3.68 | 22.08 | | 3.68 | 19.84 | G31 | 11/04/22 10:38 | TPB |
| 400-228259-1 | 6 | 0 | 1.00 | 6.00 | 44.4 | 4.02 | 24.12 | | 4.02 | 79.76 | G31 | 11/04/22 10:38 | TPB |

**Formulae:**

Preadjusted Volume (L) = ((Preadjusted Pressure ("Hg) + 29.92 "Hg) * Vol L ) / 29.92 "Hg
Adjusted Volume (L) = (( Adjusted Pressure (psig) + 14.7 psig )* Vol L ) / 14.7 psig
Dilution Factor = Adjusted Volume (L) / Preadjusted Volume (L)

**Where:**

29.92 "Hg = Standard atmospheric pressure in inches of Mercury (“Hg)
14.7 psig = Standard atmospheric pressure in pounds per square inch gauge (psig)

# APPENDIX F

Stantec Consulting Services Inc.
11311 Aurora Avenue
Des Moines, Iowa 50322
Phone: (515) 253-0830
Fax: (515) 253-9592

**Via Electronic Mail**

January 18, 2023

Mr. Dwight McGee
798 NM-170
Farmington, NM 87401

RE: McGee Ranch - October 2022 Water Well Sample Results
Knight #1 Groundwater Pit Site (NMOCD Case 3RP-207)

Dear Mr. McGee:

Please find enclosed a copy of the laboratory sample results of water samples collected from two water supply wells on the McGee Ranch property located at 798 NM-170 north of Farmington, New Mexico. The samples were collected by Stantec, a contractor for El Paso CGP Company LLC (EPCGP), on October 13 and 14, 2022. A third water well (McGee 3- Water Well) was not sampled due to mud inside the well casing and pitcher pump. The locations of the two water wells sampled and third water well not sampled is depicted on Figure 1 (attached). The condition of the three water wells is presented on a photolog (attached).

Each collected sample, in addition to one field duplicate (DP-01) and one trip blank (TB-01) were analyzed for benzene, toluene, ethylbenzene, and xylenes (collectively identified as BTEX), as are groundwater samples from EPCGP's Knight #1 site. The results of each sample, summarized below, are compared to the New Mexico Water Quality Control Commission (NMWQCC) standards, as presented in Chapter 20.6.2.3103 of the New Mexico Administrative Code. As documented in the attached report and summarized in the Table below, detectable concentrations of BTEX constituents were not detected in the subject samples.

| Sample ID | Date Sampled | Benzene (ug/L) | Toluene (ug/L) | Ethylbenzene (ug/L) | Total Xylenes (ug/L) |
|---|---|---|---|---|---|
| McGee 1 – Farm Well | 10/14/2022 | <1 | <1 | <1 | <10 |
| McGee 2 – Garden Well | 10/13/2022 | <1 | <1 | <1 | <10 |
| *Dup-01 | 10/13/2022 | <1 | <1 | <1 | <10 |
| TB-01 | 10/13/2022 | <1 | <1 | <1 | <10 |
| NMWQCC Standard | | 10 | 750 | 750 | 620 |

* Duplicate collected from McGee 2 – Garden Well Location.

**Reference: McGee Ranch – October 2022 Water Well Sample Results**

Notes:

ug/L – micrograms per liter
Dup-01 – field duplicate sample of primary sample McGee-3 Water Well
TB-01 – Laboratory-supplied trip blank

Please contact Mr. Joseph Wiley, Project Manager for EPCGP, at (713) 420-3475, or me, if you have any questions or require additional information.

Sincerely,

**Stantec Consulting Services Inc.**

Stephen Varsa
Project Manager
Phone: (515) 251-1020
steve.varsa@stantec.com

Enclosure

cc: Nelson Valez, NMOCD (Via e-permitting portal)
Joseph Wiley, Kinder Morgan, Inc.

L:\San Juan River Basin\SJRB GENERAL\GIS-NEW_MXDs\KNIGHT #1\2018 MAPS\Knight#1_SITEH&S.mxd


## LEGEND:

- WATER WELL
  McGee #1, #2, #3

N

SCALE IN FEET

0 30 60

| REVISION | DATE | DESIGN BY | DRAWN BY | REVIEWED BY |
|---|---|---|---|---|
| A | 10/1/2018 | SLG | SLG | SRV |

TITLE:

*SITE MAP*

PROJECT:

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

Stantec

Figure No.:

**1**

Stantec

# Photographic Log

| | | | |
|---|---|---|---|
| **Client:** | **El Paso CGP Company, LLC** | **Project:** | **193708949** |
| **Site Name:** | **Knight #1** | **Site Location:** | **La Plata, NM** |

**Photograph ID:** 1

**Photo Location:**
KNIGHT #1 - McGee #1

**Direction:**
East

**Survey Date:**
10/14/2022

**Comments:**
View of McGee #1 Farm Well. Well is being purged prior to sample.

**Photograph ID:** 2

**Photo Location:**
KNIGHT #2 - McGee #2

**Direction:**
East

**Survey Date:**
10/14/2022

**Comments:**
View of McGee #2 (Garden Well) being purged.

Stantec

# Photographic Log

| | | | |
|---|---|---|---|
| **Client:** | **El Paso CGP Company, LLC** | **Project:** | **193708949** |
| **Site Name:** | **Knight #1** | **Site Location:** | **La Plata, NM** |

**Photograph ID:** 3

**Photo Location:**
KNIGHT #2 - McGee #2

**Direction:**
Northeast

**Survey Date:**
10/14/2022

**Comments:**
View of McGee #2 Garden Well.

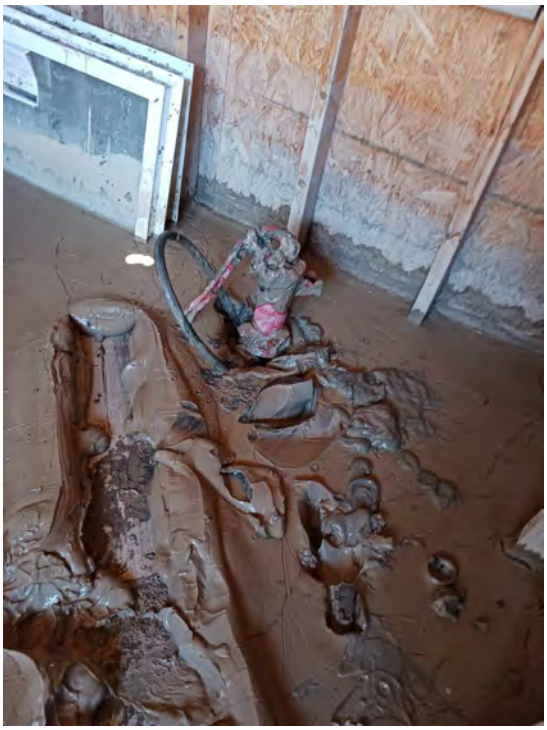
**Photograph ID:** 4

**Photo Location:**
KNIGHT #3 - McGee #3

**Direction:**
North

**Survey Date:**
10/13/2022

**Comments:**
View of McGee #3 (Water Well). The well casing and pitcher pump were filled with mud.



Stantec

# GROUNDWATER SAMPLE COLLECTION RECORD

**Well No.** McGee # 1

**Job No.:** 193708951 **Client:** EPCGP

**Location:** Knight #1 **Date:** 10/14/2022

**Weather Conditions:**

**1. WATER LEVEL DATA (from TOC):**

a. Total Well Length

b. Depth to LNAPL — No Info — Well Diameter NA

c. Depth to Water — Well Condition/Secured

d. Length of Water Column — Depth top of screen

**2. WELL PURGING DATA – Not Applicable with HydraSleeve:**

a. Purge Method GW Pump for 15 min

b. Required Purge Volume (@ ____ Well Volumes)

c. Field Testing Equipment Used pH/cond/temp meter

| Time | Volume Removed | Temp. (°C) | pH | Spec.Cond. (mS/cm) | Odor? | Sheen? |
|---|---|---|---|---|---|---|
| | 600 mL | | | | | |

| Sample Turbidity at collection: | Sample color at collection: |
|---|---|
| ☐ Clear | |
| ☐ Transparent | |
| ☐ Translucent | |
| ☐ Opaque | |

**3. SAMPLE COLLECTION:** Method **HydraSleeve**

Container Type: 3, 40mL VOA vials Preservation: None Analysis Req.: BTEX by 8260B

Sample ID #: McGee #1 Time Sampled (match COC): 1105

**4. COMMENTS:**

Sampler (Signature)

Steve Varsa

(Print Name)

Stantec

# GROUNDWATER SAMPLE COLLECTION RECORD

**Well No.** McGee # 2

**Job No.:** 193708951 **Client:** EPCGP

**Location:** Knight #1 **Date:** 10/13/2022

**Weather Conditions:**

**1. WATER LEVEL DATA (from TOC):**

a. Total Well Length _____ No Info

b. Depth to LNAPL _____ Well Diameter _____

c. Depth to Water _____ Well Condition/Secured _____

d. Length of Water Column _____ Depth top of screen _____

**2. WELL PURGING DATA – Not Applicable with HydraSleeve:**

a. Purge Method GW Pump for 15 min

b. Required Purge Volume (@ _____ Well Volumes) _____

c. Field Testing Equipment Used pH/cond/temp meter

| Time | Volume Removed | Temp. (°C) | pH | Spec.Cond. (mS/cm) | Odor? | Sheen? |
|---|---|---|---|---|---|---|
| | 600 mL | | | | | |

| Sample Turbidity at collection: | Sample color at collection: |
|---|---|
| ☐ Clear | |
| ☐ Transparent | |
| ☐ Translucent | |
| ☐ Opaque | |

**3. SAMPLE COLLECTION:** Method **HydraSleeve**

Container Type: 3, 40mL VOA vials Preservation: HCL Analysis Req.: BTEX by 8260B

Sample ID #: McGee #2 Time Sampled (match COC): 1622

**4. COMMENTS:**

Duplicate Collected

Sean R Clary

Sampler (Signature)

Steve Varsa/Sean Clary

(Print Name)

eurofins | Environment Testing

# ANALYTICAL REPORT

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

Laboratory Job ID: 400-227361-1
Client Project/Site: Knight #1.00

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

Attn: Steve Varsa

*Authorized for release by:*
*10/28/2022 2:44:39 PM*
Isabel Enfinger, Project Manager I
(850)471-6237
isabel.enfinger@et.eurofinsus.com

Designee for

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

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Laboratory Job ID: 400-227361-1

# Table of Contents

# Case Narrative

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job ID: 400-227361-1

## Job ID: 400-227361-1

### Laboratory: Eurofins Pensacola

**Narrative**

**Job Narrative**
**400-227361-1**

**Receipt**
The samples were received on 10/15/2022 8:30 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 time was 0.0°C

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

# Detection Summary

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job ID: 400-227361-1

## Client Sample ID: MCGEE #1 — Lab Sample ID: 400-227361-1

No Detections.

## Client Sample ID: MCGEE #2 — Lab Sample ID: 400-227361-2

No Detections.

## Client Sample ID: DUP-1 — Lab Sample ID: 400-227361-3

No Detections.

## Client Sample ID: TRIP BLANK — Lab Sample ID: 400-227361-4

No Detections.

This Detection Summary does not include radiochemical test results.

# Method Summary

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job ID: 400-227361-1

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

**Protocol References:**

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

**Laboratory References:**

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

# Sample Summary

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job ID: 400-227361-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 400-227361-1 | MCGEE #1 | Water | 10/14/22 11:05 | 10/15/22 08:30 |
| 400-227361-2 | MCGEE #2 | Water | 10/13/22 16:22 | 10/15/22 08:30 |
| 400-227361-3 | DUP-1 | Water | 10/13/22 02:00 | 10/15/22 08:30 |
| 400-227361-4 | TRIP BLANK | Water | 10/13/22 01:00 | 10/15/22 08:30 |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job ID: 400-227361-1

## Client Sample ID: MCGEE #1
**Date Collected: 10/14/22 11:05**
**Date Received: 10/15/22 08:30**

## Lab Sample ID: 400-227361-1
**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <1.0 | | 1.0 | | ug/L | | | 10/20/22 18:41 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 10/20/22 18:41 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 10/20/22 18:41 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 10/20/22 18:41 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *93* | | *72 - 119* | | *10/20/22 18:41* | *1* |
| *Dibromofluoromethane* | *89* | | *75 - 126* | | *10/20/22 18:41* | *1* |
| *Toluene-d8 (Surr)* | *103* | | *64 - 132* | | *10/20/22 18:41* | *1* |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job ID: 400-227361-1

## Client Sample ID: MCGEE #2

**Date Collected: 10/13/22 16:22**
**Date Received: 10/15/22 08:30**

## Lab Sample ID: 400-227361-2

**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <1.0 | | 1.0 | | ug/L | | | 10/20/22 19:06 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 10/20/22 19:06 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 10/20/22 19:06 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 10/20/22 19:06 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *90* | | *72 - 119* | | *10/20/22 19:06* | *1* |
| *Dibromofluoromethane* | *92* | | *75 - 126* | | *10/20/22 19:06* | *1* |
| *Toluene-d8 (Surr)* | *106* | | *64 - 132* | | *10/20/22 19:06* | *1* |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job ID: 400-227361-1

## Client Sample ID: DUP-1
**Date Collected: 10/13/22 02:00**
**Date Received: 10/15/22 08:30**

## Lab Sample ID: 400-227361-3
**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <1.0 | | 1.0 | | ug/L | | | 10/20/22 19:31 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 10/20/22 19:31 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 10/20/22 19:31 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 10/20/22 19:31 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *92* | | *72 - 119* | | *10/20/22 19:31* | *1* |
| *Dibromofluoromethane* | *90* | | *75 - 126* | | *10/20/22 19:31* | *1* |
| *Toluene-d8 (Surr)* | *106* | | *64 - 132* | | *10/20/22 19:31* | *1* |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job ID: 400-227361-1

## Client Sample ID: TRIP BLANK

**Date Collected: 10/13/22 01:00**
**Date Received: 10/15/22 08:30**

## Lab Sample ID: 400-227361-4

**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <1.0 | | 1.0 | | ug/L | | | 10/20/22 17:00 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 10/20/22 17:00 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 10/20/22 17:00 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 10/20/22 17:00 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *93* | | *72 - 119* | | *10/20/22 17:00* | *1* |
| *Dibromofluoromethane* | *90* | | *75 - 126* | | *10/20/22 17:00* | *1* |
| *Toluene-d8 (Surr)* | *103* | | *64 - 132* | | *10/20/22 17:00* | *1* |

# Definitions/Glossary

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job ID: 400-227361-1

## Glossary

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

# Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job ID: 400-227361-1

## Client Sample ID: MCGEE #1
**Date Collected: 10/14/22 11:05**
**Date Received: 10/15/22 08:30**

**Lab Sample ID: 400-227361-1**
**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 | 597058 | 10/20/22 18:41 | JE | EET PEN |
| | Instrument ID: Argo | | | | | | | | | |

## Client Sample ID: MCGEE #2
**Date Collected: 10/13/22 16:22**
**Date Received: 10/15/22 08:30**

**Lab Sample ID: 400-227361-2**
**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 | 597058 | 10/20/22 19:06 | JE | EET PEN |
| | Instrument ID: Argo | | | | | | | | | |

## Client Sample ID: DUP-1
**Date Collected: 10/13/22 02:00**
**Date Received: 10/15/22 08:30**

**Lab Sample ID: 400-227361-3**
**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 | 597058 | 10/20/22 19:31 | JE | EET PEN |
| | Instrument ID: Argo | | | | | | | | | |

## Client Sample ID: TRIP BLANK
**Date Collected: 10/13/22 01:00**
**Date Received: 10/15/22 08:30**

**Lab Sample ID: 400-227361-4**
**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 | 597058 | 10/20/22 17:00 | JE | EET PEN |
| | Instrument ID: Argo | | | | | | | | | |

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

# QC Association Summary

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job ID: 400-227361-1

## GC/MS VOA

### Analysis Batch: 597058

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-227361-1 | MCGEE #1 | Total/NA | Water | 8260C | |
| 400-227361-2 | MCGEE #2 | Total/NA | Water | 8260C | |
| 400-227361-3 | DUP-1 | Total/NA | Water | 8260C | |
| 400-227361-4 | TRIP BLANK | Total/NA | Water | 8260C | |
| MB 400-597058/4 | Method Blank | Total/NA | Water | 8260C | |
| LCS 400-597058/1002 | Lab Control Sample | Total/NA | Water | 8260C | |
| 400-227380-E-2 MS | Matrix Spike | Total/NA | Water | 8260C | |
| 400-227380-E-2 MSD | Matrix Spike Duplicate | Total/NA | Water | 8260C | |

# QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job ID: 400-227361-1

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

### Lab Sample ID: MB 400-597058/4
### Matrix: Water
### Analysis Batch: 597058

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 | | | 10/20/22 13:14 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 10/20/22 13:14 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 10/20/22 13:14 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 10/20/22 13:14 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *93* | | *72 - 119* | | *10/20/22 13:14* | *1* |
| *Dibromofluoromethane* | *91* | | *75 - 126* | | *10/20/22 13:14* | *1* |
| *Toluene-d8 (Surr)* | *102* | | *64 - 132* | | *10/20/22 13:14* | *1* |

### Lab Sample ID: LCS 400-597058/1002
### Matrix: Water
### Analysis Batch: 597058

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 | 48.6 | | ug/L | | 97 | 70 - 130 | | |
| Toluene | | | 50.0 | 56.4 | | ug/L | | 113 | 70 - 130 | | |
| Ethylbenzene | | | 50.0 | 56.2 | | ug/L | | 112 | 70 - 130 | | |
| Xylenes, Total | | | 100 | 105 | | ug/L | | 105 | 70 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *90* | | *72 - 119* |
| *Dibromofluoromethane* | *92* | | *75 - 126* |
| *Toluene-d8 (Surr)* | *106* | | *64 - 132* |

### Lab Sample ID: 400-227380-E-2 MS
### Matrix: Water
### Analysis Batch: 597058

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 | 45.8 | | ug/L | | 91 | 56 - 142 | | |
| Toluene | <1.0 | | 50.0 | 46.2 | | ug/L | | 92 | 65 - 130 | | |
| Ethylbenzene | <1.0 | | 50.0 | 41.5 | | ug/L | | 83 | 58 - 131 | | |
| Xylenes, Total | <10 | | 100 | 76.4 | | ug/L | | 76 | 59 - 130 | | |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *91* | | *72 - 119* |
| *Dibromofluoromethane* | *91* | | *75 - 126* |
| *Toluene-d8 (Surr)* | *101* | | *64 - 132* |

### Lab Sample ID: 400-227380-E-2 MSD
### Matrix: Water
### Analysis Batch: 597058

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 | 45.6 | | ug/L | | 91 | 56 - 142 | 0 | 30 |
| Toluene | <1.0 | | 50.0 | 47.9 | | ug/L | | 96 | 65 - 130 | 4 | 30 |
| Ethylbenzene | <1.0 | | 50.0 | 47.2 | | ug/L | | 94 | 58 - 131 | 13 | 30 |

# QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job ID: 400-227361-1

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

**Lab Sample ID: 400-227380-E-2 MSD**
**Matrix: Water**
**Analysis Batch: 597058**

**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 | | 100 | 87.6 | | ug/L | | 88 | 59 - 130 | 14 | 30 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *88* | | *72 - 119* |
| *Dibromofluoromethane* | *89* | | *75 - 126* |
| *Toluene-d8 (Surr)* | *101* | | *64 - 132* |

**Eurofins 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: Steve Varsa | Lab PM: Whitmire, Cheyenne R | Carrier Tracking No(s): | COC No: 400-114459-40020.1 |
|---|---|---|---|---|
| Client Contact: Steve Varsa | Phone: 515-710-7523 | E-Mail: Cheyenne.Whitmire@et.eurofinsus.com | State of Origin: | Page: Page 1 of 1 |
| Company: Stantec Consulting Services Inc | PWSID: | | | Job #: |
| Address: 11311 Aurora Avenue | Due Date Requested: | | | |
| City: Des Moines | TAT Requested (days): 14 days | | | |
| State, Zip: IA, 50322-7904 | Compliance Project: Δ Yes Δ No | | | |
| Phone: 515-710-7523 | PO #: WD1040032 | | | |
| Email: steve.varsa@stantec.com | WO #: ERG-STN-10-4-22-SRC-1 (KNIGHT) | | | |
| Project Name: San Juan River Basin | Project #: 40005479 | | | |
| Site: Knight #1 | SSOW#: | | | |

**Analysis Requested**

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

| Sample Identification | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 8260D - BTEX - 8260 | 6010D, 7470A | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | A | D | | |
| McGee #1 | 10/14/22 | 1105 | G | Water | | | 2 | | | |
| McGee #2 | 10/13/22 | 1622 | G | Water | | | 2 | | | |
| Dup-1 | 10/-/22 | 0200 | G | Water | | | 2 | | | |
| Trip Blank | 10/13/22 | 0100 | GC | Water | | | 2 | | | |
| | | | | Water | | | | | | |
| | | | | Water | | | | | | |
| | | | | Water | | | | | | |

400-227361 COC

**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 | | 10/14/22 1145 | Foley #55 | 643733 5721 | | |
| 2 | | | | | 10-15-22 930 | |
| 3 | | | | | | |

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

Cooler Temperature(s) °C and Other Remarks: 0.0c IR 9

Ver: 06/08/2021

# Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc Job Number: 400-227361-1

**Login Number: 227361** **List Source: Eurofins 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 | 0.0°C IR9 |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | N/A | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

# Accreditation/Certification Summary

Client: Stantec Consulting Services Inc
Job ID: 400-227361-1
Project/Site: Knight #1.00

## Laboratory: Eurofins Pensacola

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

| Authority | Program | Identification Number | Expiration Date |
|---|---|---|---|
| Alabama | State | 40150 | 06-30-23 |
| ANAB | ISO/IEC 17025 | L2471 | 02-23-23 |
| Arkansas DEQ | State | 88-0689 | 09-01-23 |
| California | State | 2510 | 06-30-23 |
| Florida | NELAP | E81010 | 06-30-23 |
| Georgia | State | E81010(FL) | 06-30-23 |
| Illinois | NELAP | 200041 | 10-09-23 |
| Kansas | NELAP | E-10253 | 10-31-22 |
| Kentucky (UST) | State | 53 | 06-30-23 |
| Kentucky (WW) | State | KY98030 | 12-31-22 |
| Louisiana (All) | NELAP | 30976 | 06-30-23 |
| Louisiana (DW) | State | LA017 | 12-31-22 |
| Maryland | State | 233 | 09-30-23 |
| Michigan | State | 9912 | 06-30-23 |
| North Carolina (WW/SW) | State | 314 | 12-31-22 |
| Oklahoma | NELAP | 9810 | 08-31-23 |
| Pennsylvania | NELAP | 68-00467 | 01-31-23 |
| South Carolina | State | 96026 | 06-30-23 |
| Tennessee | State | TN02907 | 06-30-23 |
| Texas | NELAP | T104704286 | 09-30-23 |
| US Fish & Wildlife | US Federal Programs | A22340 | 06-30-23 |
| USDA | US Federal Programs | P330-21-00056 | 05-17-24 |
| Virginia | NELAP | 460166 | 06-14-23 |
| West Virginia DEP | State | 136 | 03-31-23 |

# APPENDIX G

NO. 824149

30 Years of Environmental Health and Safety Excellence

# BASIN DISPOSAL

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

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

DATE 3/22/22
DEL. TKT#.

GENERATOR: El Paso CGP Com. LLC
BILL TO: El Paso CGP Comm LLC

HAULING CO. Oil Conservation Division
DRIVER: Sean Clary
(Print Full Name)

ORDERED BY: Joe W
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 | | James F. Bell #1E / Fields A #7A | 1 | 70 | | | .70 | |
| 2 | | STATE GAS COM N #1 / K 27 L 007 | | | | | '22 MAR 22 6:15PM | |
| 3 | | Fogelson 4-1 / Knight #1 | | | | | | |
| 4 | | GCU 124E / Miles Fed #1A | | | | | | |
| 5 | | Corrales Mesa #2 | | | | | | |

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

☒ Approved ☐ Denied ATTENDANT SIGNATURE

SAN JUAN PRINTING 2020 1973-1

# envirotech

# Bill of Lading

MANIFEST # 73058
GENERATOR El Paso
POINT OF ORIGIN Rio Vista Comp Station
TRANSPORTER Envirotech
DATE 05-24-22 JOB # See Below

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

| LOAD NO. | COMPLETE DESCRIPTION OF SHIPMENT | | | | | | TRANSPORTING COMPANY | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | DESTINATION | MATERIAL | GRID | YDS | BBLS | DRUMS | TKT# | TRK# | TIME | DRIVER SIGNATURE |
| 1 | BF | Liquid | | | 3. | | | 938 | 1445 | |
| | | | | | 3 | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | 14073-0059 (CCLC) | | 1 Drum | San Juan River Plant | | |
| | | | | | | | 1 Drum | Blanco North Flare | | |
| | | | | | 14073-0060 | | 1 Drum | NM GW Pits (15 sites) | | |

| RESULTS | | |
|---|---|---|
| 315 | CHLORIDE TEST | 1 |
| | CHLORIDE TEST | |
| | CHLORIDE TEST | |
| PASS | PAINT FILTER TEST | 1 |

LANDFARM EMPLOYEE Cory Robinson BLM

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

NOTES

SCANNED

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

Generator Onsite Contact _____ Phone _____

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

SAN JUAN PRINTING 2021 407-3

envirotech

| SPECIAL WASTE MANIFEST | | Manifest Document No. SW - 01140 | Page 1 of |
|---|---|---|---|

| Generator's Name | Generator's Address | Generator's Telephone No. |
|---|---|---|
| EIPASO CGP | 1001 Louisiana St. Houston, Tx 77002 | |

Origin of Special Waste (Project or Spill Location):
Canada Mesa #2, Miles Fed #1A, Knight #1 Fields A #7A, Fogelson 4-1 GCU #124E, State Gas Com H #1, Johnston Fed #4, Johnston Fed #6A

| Transporter #1 Company Name | Address | Telephone No. |
|---|---|---|
| Envirotech | 5796 US Hwy 64 Farmington, NM 87401 | 505-632-0615 |
| Transporter #2 Company Name | Address | Telephone No. |
| | | |

| Destination Facility Name/Site Address | Facility ID (Permit) Number | Telephone No. |
|---|---|---|
| Envirotech LF #2 43 Road 7175 Bloomfield NM 87413 | NM01-0011 | 505-632-0615 |

GENERATOR

| Type and Proper Name of Special Waste | Container(s) No. | Container(s) Type | Total Quantity | Unit Wt/Vol | |
|---|---|---|---|---|---|
| Petroleum Contaminated liquid | 1 | B | ~~100~~ 55 | gal | |
| | | | | | |
| | | | | | |
| | | | | | |

Additional Descriptions for Special Waste Listed Above:

Special Handling Instructions:

**GENERATOR'S CERTIFICATION**: I hereby certify that the contents of this shipment are fully and accurately described above by type and proper name of the special waste, and that such waste has been managed, packaged, containerized and labeled in accordance with the requirements of 20.9.8 NMAC (Special Waste Requirements) in addition to any other applicable federal, state or local regulations.

| Printed/Typed Name: | Signature: | Date: |
|---|---|---|
| Greg Crabtree AS Agent | | 8/3/22 |

TRANSPORTER

| Transporter 1 Acknowledgement of Receipt of Special Waste | | |
|---|---|---|
| Printed/Typed Name: Colton Tohn | Signature: | Date: 8/3/22 |
| **Transporter 2 Acknowledgement of Receipt of Special Waste** | | |
| Printed/Typed Name: | Signature: | Date: |

FACILITY

Discrepancy Indication Space:

Facility Owner or Operator: ***I hereby acknowledge receipt of the special waste as indicated upon this manifest, except as noted above in the Discrepancy Indication Space.***

| Printed/Typed Name: | Signature: | Date: |
|---|---|---|
| Cary Robinson | | 08.03.22 |

# envirotech

# Bill of Lading

MANIFEST # 76385
GENERATOR El Paso
POINT OF ORIGIN See notes
TRANSPORTER Envirotech
DATE 11-07-22 JOB # 14073-0060

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

| LOAD NO. | COMPLETE DESCRIPTION OF SHIPMENT | | | | | | TRANSPORTING COMPANY | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | DESTINATION | MATERIAL | GRID | YDS | BBLS | DRUMS | TKT# | TRK# | TIME | DRIVER SIGNATURE |
| 1 | BF | Cont Liquid | | | | 1 | 01154 | 937 | 0845 | Andrew Mtz |
| | | | | | | | | | | |
| | | | | | | 1 | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | SCANNED | |

| RESULTS | | | LANDFARM EMPLOYEE | NOTES |
|---|---|---|---|---|
| -291 | CHLORIDE TEST | 1 | | See Attachment |
| | CHLORIDE TEST | | ☐ Soil w/ Debris ☐ After Hours/Weekend Receival ☐ Scrape Out ☐ Wash Out | C-138 Pit Sites |
| | CHLORIDE TEST | | | |
| Pass | PAINT FILTER TEST | 1 | | |

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

Generator Onsite Contact _____ Phone _____

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

SAN JUAN PRINTING 2021 407-3

envirotech

BOL# 76385

# CHLORIDE TESTING / PAINT FILTER TESTING

DATE 11-7-22 TIME 8:45 Am

CUSTOMER Kinder Morgan

SITE Pit Sites

DRIVER A. Musso

SAMPLE Soil Straight ✓ With Dirt _____

**CHLORIDE TEST** -291 mg/Kg

ACCEPTED YES ✓ NO _____

**PAINT FILTER TEST** Time started 8:47 Time completed _____

PASS YES _____ NO _____

SAMPLER/ANALYST CR

Attach test strip here

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

envirotech

# SPECIAL WASTE MANIFEST

Manifest Document No. **SW - 01154**

Page 1 of

**GENERATOR**

| Generator's Name | Generator's Address | Generator's Telephone No. |
|---|---|---|
| KINDER MORGAN | 1001 LOUISIANA ~~BLVD~~ STREET, ROOM 9561, HOUSTON, TX | ~~505~~ 713-420-3475 |

Origin of Special Waste (Project or Spill Location): SJRB PIT & PLANT SITES

| Transporter #1 Company Name | Address | Telephone No. |
|---|---|---|
| ENVIROTECH | 5796 US HWY 64, FARMINGTON, NM | 505-632-0615 |
| Transporter #2 Company Name | Address | Telephone No. |
| | | |
| Destination Facility Name/Site Address | Facility ID (Permit) Number | Telephone No. |
| ENVIROTECH LANDFARM 2 | NM01-0011 | 505-632-0615 |

| Type and Proper Name of Special Waste | Container(s) No. | Container(s) Type | Total Quantity | Unit Wt/Vol | |
|---|---|---|---|---|---|
| WATER AND DRIP | 1 | L | 4 | 70GAL | |
| | | | | | |
| | | | | | |
| | | | | | |

Additional Descriptions for Special Waste Listed Above:

Special Handling Instructions:

**GENERATOR'S CERTIFICATION:** I hereby certify that the contents of this shipment are fully and accurately described above by type and proper name of the special waste, and that such waste has been managed, packaged, containerized and labeled in accordance with the requirements of 20.9.8 NMAC (Special Waste Requirements) in addition to any other applicable federal, state or local regulations.

| Printed/Typed Name: | Signature: | Date: |
|---|---|---|
| Sean R Clary | Sean R Clary | 11/7/2022 |

**TRANSPORTER**

| Transporter 1 Acknowledgement of Receipt of Special Waste | | |
|---|---|---|
| Printed/Typed Name: | Signature: | Date: |
| MATTHEW MUSSO | MATTHEW MUSSO | 11/7/2022 |
| Transporter 2 Acknowledgement of Receipt of Special Waste | | |
| Printed/Typed Name: | Signature: | Date: |
| | | |

**FACILITY**

Discrepancy Indication Space:

Facility Owner or Operator: ***I hereby acknowledge receipt of the special waste as indicated upon this manifest, except as noted above in the Discrepancy Indication Space.***

| Printed/Typed Name: | Signature: | Date: |
|---|---|---|
| Gary Robinson | Gary Robinson | 11-07-22 |

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-138
Revised August 1, 2011

*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

# REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. **Generator Name and Address:** **Billing code for invoice:**
El Paso CGP Company L.L.C., 1001 Louisiana Street, Room 1445B, Houston, TX 77002

2. **Originating Site:**
Johnston Federal #4, Johnston Federal #6A, Sandoval GC A#1A, Canada Mesa #2, K-27 LD072, Standard Oil Com #1, Knight #1, Gallegos Canyon Unit #124E, GCU Com A #142E, Fields A#7A, State Gas Com N #1, Fogelson 4-1, Lat L 40, and James F. Bell #1E.

3. **Location of Material (Street Address, City, State or ULSTR):**
Unit N, Sec. 27, T31N, R09W; Unit F, Sec. 35, T31N, R09W; Unit C, Sec. 35, T30N, R09W; Unit I, Sec. 24, T24N, R06W; Unit E, Sec 5, T25N, R06W; Unit N, Sec. 36, T29N, R09W, Unit A, Sec. 5, T30N, R13W; Unit N, Sec. 35, T28N, R12W; Unit G, Sec. 25, R29N, R12W; Unit E, Sec. 34, T32N, R11W; Unit H, Sec. 16, T31N, R12W; Unit P, Sec. 4, T29N, R11W; Unit H, Sec. 13, T28N, R04W; and Unit P, Sec. 10, T30N, R13W, respectively.

4. **Source and Description of Waste:**
Historic releases occurred on the above-referenced property. As part of environmental investigation activities, monitoring wells will be sampled, and purged liquids will be removed from the Site.
Estimated Volume _____ 1 ___ $yd^3$ / bbls Known Volume (to be entered by the operator at the end of the haul) _____ $yd^3$ / bbls

5. **GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS**

I, Joseph Wiley, representative or authorized agent for El Paso CGP Company, LLC do hereby
PRINT & SIGN NAME COMPANY NAME
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: (Check the appropriate classification)

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. *Operator Use Only: Waste Acceptance Frequency* ☐ *Monthly* ☐ *Weekly* ☐ *Per Load*

☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description in Box 4)

**GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS**

I, Joseph Wiley, representative for El Paso CGP Company, LLC authorize Envirotech to
Generator Signature
complete the required testing/sign the Generator Waste Testing Certification.

I, _____, representative for _____ do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

6. **Transporter: Envirotech, Inc.**

**OCD Permitted Surface Waste Management Facility**

Name and Facility Permit #: Envirotech Inc. Soil Remediation Facility Permit # NM-01-0011

Address of Facility: #43 Road 7175, South of Bloomfield NM

Method of Treatment and/or Disposal:

☐ Evaporation ☐ Injection ☐ Treating Plant ☒ Landfarm ☐ Landfill ☐ Other

**Waste Acceptance Status:**

☐ APPROVED ☐ DENIED (Must Be Maintained As Permanent Record)

PRINT NAME: _____ TITLE: _____ DATE: _____

SIGNATURE: _____ TELEPHONE NO.: _____

# APPENDIX H

eurofins | Environment Testing America

# ANALYTICAL REPORT

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

Laboratory Job ID: 400-220238-1
Client Project/Site: Knight #1.00

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

Attn: Steve Varsa

*Authorized for release by:*
*6/7/2022 3:33:10 PM*
Isabel Enfinger, Project Manager I
(850)471-6237
isabel.enfinger@et.eurofinsus.com

Designee for

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

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Laboratory Job ID: 400-220238-1

# Table of Contents

# Case Narrative

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job ID: 400-220238-1

## Job ID: 400-220238-1

### Laboratory: Eurofins Pensacola

**Narrative**

**Job Narrative**
**400-220238-1**

**Comments**
No additional comments.

**Receipt**
The samples were received on 5/20/2022 8:55 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.7º C.

**GC/MS VOA**
Method 8260C: Surrogate recovery for the following sample was outside control limits: DUP-01 (400-220238-9). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

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

# Detection Summary

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job ID: 400-220238-1

## Client Sample ID: TRIP BLANK — Lab Sample ID: 400-220238-1

No Detections.

## Client Sample ID: MW-1 — Lab Sample ID: 400-220238-2

| Analyte | Result | Qualifier | RL | | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 110 | | 1.0 | | ug/L | 1 | | 8260C | Total/NA |
| Ethylbenzene | 26 | | 1.0 | | ug/L | 1 | | 8260C | Total/NA |

## Client Sample ID: MW-2 — Lab Sample ID: 400-220238-3

| Analyte | Result | Qualifier | RL | | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 45 | | 1.0 | | ug/L | 1 | | 8260C | Total/NA |
| Ethylbenzene | 2.2 | | 1.0 | | ug/L | 1 | | 8260C | Total/NA |
| Xylenes, Total | 26 | | 10 | | ug/L | 1 | | 8260C | Total/NA |

## Client Sample ID: MW-7 — Lab Sample ID: 400-220238-4

No Detections.

## Client Sample ID: MW-10 — Lab Sample ID: 400-220238-5

No Detections.

## Client Sample ID: MW-11 — Lab Sample ID: 400-220238-6

| Analyte | Result | Qualifier | RL | | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 19 | | 1.0 | | ug/L | 1 | | 8260C | Total/NA |
| Ethylbenzene | 13 | | 1.0 | | ug/L | 1 | | 8260C | Total/NA |

## Client Sample ID: MW-13 — Lab Sample ID: 400-220238-7

No Detections.

## Client Sample ID: MW-15 — Lab Sample ID: 400-220238-8

No Detections.

## Client Sample ID: DUP-01 — Lab Sample ID: 400-220238-9

| Analyte | Result | Qualifier | RL | | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 150 | | 1.0 | | ug/L | 1 | | 8260C | Total/NA |
| Ethylbenzene | 42 | | 1.0 | | ug/L | 1 | | 8260C | Total/NA |

This Detection Summary does not include radiochemical test results.

Eurofins Pensacola

# Method Summary

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job ID: 400-220238-1

| 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 Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

# Sample Summary

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job ID: 400-220238-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 400-220238-1 | TRIP BLANK | Water | 05/19/22 11:40 | 05/20/22 08:55 |
| 400-220238-2 | MW-1 | Water | 05/19/22 12:00 | 05/20/22 08:55 |
| 400-220238-3 | MW-2 | Water | 05/19/22 12:05 | 05/20/22 08:55 |
| 400-220238-4 | MW-7 | Water | 05/19/22 12:20 | 05/20/22 08:55 |
| 400-220238-5 | MW-10 | Water | 05/19/22 11:55 | 05/20/22 08:55 |
| 400-220238-6 | MW-11 | Water | 05/19/22 12:30 | 05/20/22 08:55 |
| 400-220238-7 | MW-13 | Water | 05/19/22 11:53 | 05/20/22 08:55 |
| 400-220238-8 | MW-15 | Water | 05/19/22 11:50 | 05/20/22 08:55 |
| 400-220238-9 | DUP-01 | Water | 05/19/22 13:05 | 05/20/22 08:55 |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job ID: 400-220238-1

## Client Sample ID: TRIP BLANK
**Date Collected: 05/19/22 11:40**
**Date Received: 05/20/22 08:55**

## Lab Sample ID: 400-220238-1
**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 | | | 06/02/22 01:07 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 06/02/22 01:07 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 06/02/22 01:07 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 06/02/22 01:07 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *93* | | *72 - 119* | | *06/02/22 01:07* | *1* |
| *Dibromofluoromethane* | *108* | | *75 - 126* | | *06/02/22 01:07* | *1* |
| *Toluene-d8 (Surr)* | *93* | | *64 - 132* | | *06/02/22 01:07* | *1* |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job ID: 400-220238-1

## Client Sample ID: MW-1
**Date Collected: 05/19/22 12:00**
**Date Received: 05/20/22 08:55**

## Lab Sample ID: 400-220238-2
**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 | | | 06/02/22 01:33 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 06/02/22 01:33 | 1 |
| **Ethylbenzene** | **26** | | 1.0 | | ug/L | | | 06/02/22 01:33 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 06/02/22 01:33 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *88* | | *72 - 119* | | *06/02/22 01:33* | *1* |
| *Dibromofluoromethane* | *117* | | *75 - 126* | | *06/02/22 01:33* | *1* |
| *Toluene-d8 (Surr)* | *106* | | *64 - 132* | | *06/02/22 01:33* | *1* |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job ID: 400-220238-1

## Client Sample ID: MW-2
**Date Collected: 05/19/22 12:05**
**Date Received: 05/20/22 08:55**

## Lab Sample ID: 400-220238-3
**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Benzene** | **45** | | 1.0 | | ug/L | | | 05/25/22 22:15 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 05/25/22 22:15 | 1 |
| **Ethylbenzene** | **2.2** | | 1.0 | | ug/L | | | 05/25/22 22:15 | 1 |
| **Xylenes, Total** | **26** | | 10 | | ug/L | | | 05/25/22 22:15 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *95* | | *72 - 119* | | *05/25/22 22:15* | *1* |
| *Dibromofluoromethane* | *104* | | *75 - 126* | | *05/25/22 22:15* | *1* |
| *Toluene-d8 (Surr)* | *96* | | *64 - 132* | | *05/25/22 22:15* | *1* |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job ID: 400-220238-1

## Client Sample ID: MW-7
**Date Collected: 05/19/22 12:20**
**Date Received: 05/20/22 08:55**

## Lab Sample ID: 400-220238-4
**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 | | | 05/25/22 22:41 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 05/25/22 22:41 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 05/25/22 22:41 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 05/25/22 22:41 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *92* | | *72 - 119* | | *05/25/22 22:41* | *1* |
| *Dibromofluoromethane* | *105* | | *75 - 126* | | *05/25/22 22:41* | *1* |
| *Toluene-d8 (Surr)* | *95* | | *64 - 132* | | *05/25/22 22:41* | *1* |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job ID: 400-220238-1

## Client Sample ID: MW-10
**Date Collected: 05/19/22 11:55**
**Date Received: 05/20/22 08:55**

## Lab Sample ID: 400-220238-5
**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 | | | 06/02/22 01:59 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 06/02/22 01:59 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 06/02/22 01:59 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 06/02/22 01:59 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *91* | | *72 - 119* | | *06/02/22 01:59* | *1* |
| *Dibromofluoromethane* | *109* | | *75 - 126* | | *06/02/22 01:59* | *1* |
| *Toluene-d8 (Surr)* | *92* | | *64 - 132* | | *06/02/22 01:59* | *1* |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job ID: 400-220238-1

## Client Sample ID: MW-11
**Date Collected: 05/19/22 12:30**
**Date Received: 05/20/22 08:55**

## Lab Sample ID: 400-220238-6
**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Benzene** | **19** | | 1.0 | | ug/L | | | 05/25/22 23:07 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 05/25/22 23:07 | 1 |
| **Ethylbenzene** | **13** | | 1.0 | | ug/L | | | 05/25/22 23:07 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 05/25/22 23:07 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *94* | | *72 - 119* | | *05/25/22 23:07* | *1* |
| *Dibromofluoromethane* | *103* | | *75 - 126* | | *05/25/22 23:07* | *1* |
| *Toluene-d8 (Surr)* | *96* | | *64 - 132* | | *05/25/22 23:07* | *1* |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job ID: 400-220238-1

## Client Sample ID: MW-13

**Date Collected: 05/19/22 11:53**
**Date Received: 05/20/22 08:55**

## Lab Sample ID: 400-220238-7

**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 | | | 06/02/22 09:52 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 06/02/22 09:52 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 06/02/22 09:52 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 06/02/22 09:52 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *111* | | *72 - 119* | | *06/02/22 09:52* | *1* |
| *Dibromofluoromethane* | *102* | | *75 - 126* | | *06/02/22 09:52* | *1* |
| *Toluene-d8 (Surr)* | *99* | | *64 - 132* | | *06/02/22 09:52* | *1* |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job ID: 400-220238-1

## Client Sample ID: MW-15
**Date Collected: 05/19/22 11:50**
**Date Received: 05/20/22 08:55**

## Lab Sample ID: 400-220238-8
**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 | | | 06/02/22 10:18 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 06/02/22 10:18 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 06/02/22 10:18 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 06/02/22 10:18 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *113* | | *72 - 119* | | *06/02/22 10:18* | *1* |
| *Dibromofluoromethane* | *103* | | *75 - 126* | | *06/02/22 10:18* | *1* |
| *Toluene-d8 (Surr)* | *97* | | *64 - 132* | | *06/02/22 10:18* | *1* |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job ID: 400-220238-1

## Client Sample ID: DUP-01
**Date Collected: 05/19/22 13:05**
**Date Received: 05/20/22 08:55**

## Lab Sample ID: 400-220238-9
**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Benzene** | **150** | | 1.0 | | ug/L | | | 06/02/22 10:42 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 06/02/22 10:42 | 1 |
| **Ethylbenzene** | **42** | | 1.0 | | ug/L | | | 06/02/22 10:42 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 06/02/22 10:42 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *115* | | *72 - 119* | | *06/02/22 10:42* | *1* |
| *Dibromofluoromethane* | *95* | | *75 - 126* | | *06/02/22 10:42* | *1* |
| *Toluene-d8 (Surr)* | *140* | *S1+* | *64 - 132* | | *06/02/22 10:42* | *1* |

# Definitions/Glossary

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job ID: 400-220238-1

## Qualifiers

### GC/MS VOA

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

## Glossary

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

# Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job ID: 400-220238-1

## Client Sample ID: TRIP BLANK
**Date Collected: 05/19/22 11:40**
**Date Received: 05/20/22 08:55**

**Lab Sample ID: 400-220238-1**
**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 | 579682 | 06/02/22 01:07 | WPD | TAL PEN |
| | Instrument ID: CH_CONAN | | | | | | | | | |

## Client Sample ID: MW-1
**Date Collected: 05/19/22 12:00**
**Date Received: 05/20/22 08:55**

**Lab Sample ID: 400-220238-2**
**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 | 579682 | 06/02/22 01:33 | WPD | TAL PEN |
| | Instrument ID: CH_CONAN | | | | | | | | | |

## Client Sample ID: MW-2
**Date Collected: 05/19/22 12:05**
**Date Received: 05/20/22 08:55**

**Lab Sample ID: 400-220238-3**
**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 | 578969 | 05/25/22 22:15 | AGW | TAL PEN |
| | Instrument ID: CH_WASP | | | | | | | | | |

## Client Sample ID: MW-7
**Date Collected: 05/19/22 12:20**
**Date Received: 05/20/22 08:55**

**Lab Sample ID: 400-220238-4**
**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 | 578969 | 05/25/22 22:41 | AGW | TAL PEN |
| | Instrument ID: CH_WASP | | | | | | | | | |

## Client Sample ID: MW-10
**Date Collected: 05/19/22 11:55**
**Date Received: 05/20/22 08:55**

**Lab Sample ID: 400-220238-5**
**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 | 579682 | 06/02/22 01:59 | WPD | TAL PEN |
| | Instrument ID: CH_CONAN | | | | | | | | | |

## Client Sample ID: MW-11
**Date Collected: 05/19/22 12:30**
**Date Received: 05/20/22 08:55**

**Lab Sample ID: 400-220238-6**
**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 | 578969 | 05/25/22 23:07 | AGW | TAL PEN |
| | Instrument ID: CH_WASP | | | | | | | | | |

# Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job ID: 400-220238-1

## Client Sample ID: MW-13
**Date Collected: 05/19/22 11:53**
**Date Received: 05/20/22 08:55**

## Lab Sample ID: 400-220238-7
**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 | 579750 | 06/02/22 09:52 | PP1 | TAL PEN |
| | Instrument ID: CH_TAN | | | | | | | | | |

## Client Sample ID: MW-15
**Date Collected: 05/19/22 11:50**
**Date Received: 05/20/22 08:55**

## Lab Sample ID: 400-220238-8
**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 | 579750 | 06/02/22 10:18 | PP1 | TAL PEN |
| | Instrument ID: CH_TAN | | | | | | | | | |

## Client Sample ID: DUP-01
**Date Collected: 05/19/22 13:05**
**Date Received: 05/20/22 08:55**

## Lab Sample ID: 400-220238-9
**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 | 579750 | 06/02/22 10:42 | PP1 | TAL PEN |
| | Instrument ID: CH_TAN | | | | | | | | | |

**Laboratory References:**
TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

# QC Association Summary

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job ID: 400-220238-1

## GC/MS VOA

### Analysis Batch: 578969

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-220238-3 | MW-2 | Total/NA | Water | 8260C | |
| 400-220238-4 | MW-7 | Total/NA | Water | 8260C | |
| 400-220238-6 | MW-11 | Total/NA | Water | 8260C | |
| MB 400-578969/4 | Method Blank | Total/NA | Water | 8260C | |
| LCS 400-578969/1002 | Lab Control Sample | Total/NA | Water | 8260C | |
| 400-220046-A-1 MS | Matrix Spike | Total/NA | Water | 8260C | |
| 400-220046-A-1 MSD | Matrix Spike Duplicate | Total/NA | Water | 8260C | |

### Analysis Batch: 579682

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-220238-1 | TRIP BLANK | Total/NA | Water | 8260C | |
| 400-220238-2 | MW-1 | Total/NA | Water | 8260C | |
| 400-220238-5 | MW-10 | Total/NA | Water | 8260C | |
| MB 400-579682/4 | Method Blank | Total/NA | Water | 8260C | |
| LCS 400-579682/1002 | Lab Control Sample | Total/NA | Water | 8260C | |
| 400-220244-A-1 MS | Matrix Spike | Total/NA | Water | 8260C | |
| 400-220244-A-1 MSD | Matrix Spike Duplicate | Total/NA | Water | 8260C | |

### Analysis Batch: 579750

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-220238-7 | MW-13 | Total/NA | Water | 8260C | |
| 400-220238-8 | MW-15 | Total/NA | Water | 8260C | |
| 400-220238-9 | DUP-01 | Total/NA | Water | 8260C | |
| MB 400-579750/4 | Method Blank | Total/NA | Water | 8260C | |
| LCS 400-579750/1002 | Lab Control Sample | Total/NA | Water | 8260C | |
| 400-220612-C-2 MS | Matrix Spike | Total/NA | Water | 8260C | |
| 400-220612-C-2 MSD | Matrix Spike Duplicate | Total/NA | Water | 8260C | |

# QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job ID: 400-220238-1

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

### Lab Sample ID: MB 400-578969/4
**Matrix: Water**
**Analysis Batch: 578969**

**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 | | | 05/25/22 18:19 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 05/25/22 18:19 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 05/25/22 18:19 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 05/25/22 18:19 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *89* | | *72 - 119* | | *05/25/22 18:19* | *1* |
| *Dibromofluoromethane* | *105* | | *75 - 126* | | *05/25/22 18:19* | *1* |
| *Toluene-d8 (Surr)* | *96* | | *64 - 132* | | *05/25/22 18:19* | *1* |

### Lab Sample ID: LCS 400-578969/1002
**Matrix: Water**
**Analysis Batch: 578969**

**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 | 50.6 | | ug/L | | 101 | 70 - 130 | | |
| Toluene | | | 50.0 | 48.1 | | ug/L | | 96 | 70 - 130 | | |
| Ethylbenzene | | | 50.0 | 50.2 | | ug/L | | 100 | 70 - 130 | | |
| Xylenes, Total | | | 100 | 97.9 | | ug/L | | 98 | 70 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *92* | | *72 - 119* |
| *Dibromofluoromethane* | *103* | | *75 - 126* |
| *Toluene-d8 (Surr)* | *97* | | *64 - 132* |

### Lab Sample ID: 400-220046-A-1 MS
**Matrix: Water**
**Analysis Batch: 578969**

**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 | 3.0 | | 50.0 | 54.7 | | ug/L | | 103 | 56 - 142 | | |
| Toluene | <1.0 | | 50.0 | 45.1 | | ug/L | | 90 | 65 - 130 | | |
| Ethylbenzene | 1.0 | | 50.0 | 44.9 | | ug/L | | 88 | 58 - 131 | | |
| Xylenes, Total | 12 | | 100 | 97.8 | | ug/L | | 86 | 59 - 130 | | |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *91* | | *72 - 119* |
| *Dibromofluoromethane* | *103* | | *75 - 126* |
| *Toluene-d8 (Surr)* | *93* | | *64 - 132* |

### Lab Sample ID: 400-220046-A-1 MSD
**Matrix: Water**
**Analysis Batch: 578969**

**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 | 3.0 | | 50.0 | 51.6 | | ug/L | | 97 | 56 - 142 | 6 | 30 |
| Toluene | <1.0 | | 50.0 | 42.0 | | ug/L | | 84 | 65 - 130 | 7 | 30 |
| Ethylbenzene | 1.0 | | 50.0 | 40.9 | | ug/L | | 80 | 58 - 131 | 9 | 30 |

# QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job ID: 400-220238-1

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

**Lab Sample ID: 400-220046-A-1 MSD**
**Matrix: Water**
**Analysis Batch: 578969**

**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 | 12 | | 100 | 90.2 | | ug/L | | 78 | 59 - 130 | 8 | 30 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *90* | | *72 - 119* |
| *Dibromofluoromethane* | *102* | | *75 - 126* |
| *Toluene-d8 (Surr)* | *93* | | *64 - 132* |

**Lab Sample ID: MB 400-579682/4**
**Matrix: Water**
**Analysis Batch: 579682**

**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 | | | 06/01/22 16:56 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 06/01/22 16:56 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 06/01/22 16:56 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 06/01/22 16:56 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *92* | | *72 - 119* | | *06/01/22 16:56* | *1* |
| *Dibromofluoromethane* | *104* | | *75 - 126* | | *06/01/22 16:56* | *1* |
| *Toluene-d8 (Surr)* | *94* | | *64 - 132* | | *06/01/22 16:56* | *1* |

**Lab Sample ID: LCS 400-579682/1002**
**Matrix: Water**
**Analysis Batch: 579682**

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

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 50.0 | 45.1 | | ug/L | | 90 | 70 - 130 | | |
| Toluene | | | 50.0 | 48.0 | | ug/L | | 96 | 70 - 130 | | |
| Ethylbenzene | | | 50.0 | 47.1 | | ug/L | | 94 | 70 - 130 | | |
| Xylenes, Total | | | 100 | 94.5 | | ug/L | | 94 | 70 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *97* | | *72 - 119* |
| *Dibromofluoromethane* | *103* | | *75 - 126* |
| *Toluene-d8 (Surr)* | *95* | | *64 - 132* |

**Lab Sample ID: 400-220244-A-1 MS**
**Matrix: Water**
**Analysis Batch: 579682**

**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 | 41.5 | | ug/L | | 83 | 56 - 142 | | |
| Toluene | <1.0 | | 50.0 | 39.5 | | ug/L | | 79 | 65 - 130 | | |
| Ethylbenzene | <1.0 | | 50.0 | 38.4 | | ug/L | | 77 | 58 - 131 | | |
| Xylenes, Total | <10 | | 100 | 77.9 | | ug/L | | 78 | 59 - 130 | | |

# QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job ID: 400-220238-1

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

**Lab Sample ID: 400-220244-A-1 MS**
**Matrix: Water**
**Analysis Batch: 579682**

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

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|---|---|---|---|
| 4-Bromofluorobenzene | 95 | | 72 - 119 |
| Dibromofluoromethane | 104 | | 75 - 126 |
| Toluene-d8 (Surr) | 91 | | 64 - 132 |

**Lab Sample ID: 400-220244-A-1 MSD**
**Matrix: Water**
**Analysis Batch: 579682**

**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 | 43.2 | | ug/L | | 86 | 56 - 142 | 4 | 30 |
| Toluene | <1.0 | | 50.0 | 42.5 | | ug/L | | 85 | 65 - 130 | 7 | 30 |
| Ethylbenzene | <1.0 | | 50.0 | 42.0 | | ug/L | | 84 | 58 - 131 | 9 | 30 |
| Xylenes, Total | <10 | | 100 | 85.3 | | ug/L | | 85 | 59 - 130 | 9 | 30 |

| Surrogate | MSD %Recovery | MSD Qualifier | Limits |
|---|---|---|---|
| 4-Bromofluorobenzene | 97 | | 72 - 119 |
| Dibromofluoromethane | 104 | | 75 - 126 |
| Toluene-d8 (Surr) | 92 | | 64 - 132 |

**Lab Sample ID: MB 400-579750/4**
**Matrix: Water**
**Analysis Batch: 579750**

**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 | | | 06/02/22 07:45 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 06/02/22 07:45 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 06/02/22 07:45 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 06/02/22 07:45 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 114 | | 72 - 119 | | 06/02/22 07:45 | 1 |
| Dibromofluoromethane | 100 | | 75 - 126 | | 06/02/22 07:45 | 1 |
| Toluene-d8 (Surr) | 98 | | 64 - 132 | | 06/02/22 07:45 | 1 |

**Lab Sample ID: LCS 400-579750/1002**
**Matrix: Water**
**Analysis Batch: 579750**

**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 | 49.4 | | ug/L | | 99 | 70 - 130 | | |
| Toluene | | | 50.0 | 46.5 | | ug/L | | 93 | 70 - 130 | | |
| Ethylbenzene | | | 50.0 | 47.0 | | ug/L | | 94 | 70 - 130 | | |
| Xylenes, Total | | | 100 | 93.7 | | ug/L | | 94 | 70 - 130 | | |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| 4-Bromofluorobenzene | 110 | | 72 - 119 |
| Dibromofluoromethane | 103 | | 75 - 126 |

# QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job ID: 400-220238-1

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

**Lab Sample ID: LCS 400-579750/1002**
**Matrix: Water**
**Analysis Batch: 579750**

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

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| Toluene-d8 (Surr) | 95 | | 64 - 132 |

**Lab Sample ID: 400-220612-C-2 MS**
**Matrix: Water**
**Analysis Batch: 579750**

**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 | 63.1 | | ug/L | | 126 | 56 - 142 |
| Toluene | <1.0 | | 50.0 | 61.9 | | ug/L | | 124 | 65 - 130 |
| Ethylbenzene | <1.0 | | 50.0 | 63.7 | | ug/L | | 127 | 58 - 131 |
| Xylenes, Total | <10 | | 100 | 126 | | ug/L | | 126 | 59 - 130 |

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|---|---|---|---|
| 4-Bromofluorobenzene | 110 | | 72 - 119 |
| Dibromofluoromethane | 101 | | 75 - 126 |
| Toluene-d8 (Surr) | 99 | | 64 - 132 |

**Lab Sample ID: 400-220612-C-2 MSD**
**Matrix: Water**
**Analysis Batch: 579750**

**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 | 58.0 | | ug/L | | 116 | 56 - 142 | 8 | 30 |
| Toluene | <1.0 | | 50.0 | 57.0 | | ug/L | | 114 | 65 - 130 | 8 | 30 |
| Ethylbenzene | <1.0 | | 50.0 | 57.9 | | ug/L | | 116 | 58 - 131 | 10 | 30 |
| Xylenes, Total | <10 | | 100 | 114 | | ug/L | | 114 | 59 - 130 | 10 | 30 |

| Surrogate | MSD %Recovery | MSD Qualifier | Limits |
|---|---|---|---|
| 4-Bromofluorobenzene | 112 | | 72 - 119 |
| Dibromofluoromethane | 99 | | 75 - 126 |
| Toluene-d8 (Surr) | 100 | | 64 - 132 |

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: Sean Clary/Sarah Gardner | Lab PM: Whitmire, Cheyenne R | Carrier Tracking No(s): | COC No: 400-111396-37678.1 |
|---|---|---|---|---|
| Client Contact: Steve Varsa | Phone: 303 291 2239 | E-Mail: Cheyenne.Whitmire@et.eurofinsus.com | State of Origin: | Page: ~~Page 1 of 2~~ 1 of 1 |
| Company: Stantec Consulting Services Inc | PWSID: | | | Job #: |
| Address: 11311 Aurora Avenue | Due Date Requested: | | | |
| City: Des Moines | TAT Requested (days): See ARF | | | |
| State, Zip: IA, 50322-7904 | Compliance Project: Δ Yes Δ No | | | |
| Phone: | PO #: WD1040028 | | | |
| Email: steve.varsa@stantec.com | WO #: ERG-STN-05-06-22-SAH-10 | | | |
| Project Name: Knight #1.00 | Project #: 40005479 | | | |
| Site: Knight | SSOW#: | | | |

Analysis Requested

400-220238 COC

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) | Perform MS/MSD (Yes or No) | 8260C - (MOD) BTEX 8260 | 8260C - (MOD) BTEX 8260 (unpreserved) | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|---|
| Preservation Code: | | | | | | | A | N | | |
| Trip Blank | 5/19/22 | 1140 | G | Water | | | 2 | | 2 | |
| MW-1 | 5/19/22 | 1200 | ~~1205~~ G | Water | | | 3 | | 3 | |
| MW-2 | 5/19/22 | 1205 | G | Water | | | | 3 | 3 | |
| MW-7 | 5/19/22 | 1220 | G | Water | | | | 3 | 3 | |
| MW-10 | 5/19/22 | 1155 | G | Water | | | 3 | | 3 | |
| MW-11 | 5/19/22 | 1230 | G | Water | | | | 3 | 3 | |
| MW-13 | 5/19/22 | 1153 | G | Water | | | 3 | | 3 | |
| MW-15 | 5/19/22 | 1150 | G | Water | | | 3 | | 3 | |
| DUP-01 | 5/19/22 | 1305 | G | Water | | | 3 | | 3 | |
| | | | | Water | | | | | | |
| | | | | Water | | | | | | |

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

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

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

Special Instructions/QC Requirements:

| | | | | | |
|---|---|---|---|---|---|
| Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: | | |
| Relinquished by: Sean Clary | Date/Time: 5/19/2022 1330 | Company Stantec | Received by: | Date/Time: 5/20/22 855 | Company |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
| Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | | Cooler Temperature(s) °C and Other Remarks: 2.7c IR6 | | |

Ver: 06/08/2021

# Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc Job Number: 400-220238-1

**Login Number: 220238** **List Source: Eurofins Pensacola**
**List Number: 1**
**Creator: Roberts, Alexis J**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | N/A | |
| The cooler's custody seal, if present, is intact. | N/A | |
| Sample custody seals, if present, are intact. | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | 2.7°C IR8 |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | N/A | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

# Accreditation/Certification Summary

Client: Stantec Consulting Services Inc
Job ID: 400-220238-1
Project/Site: Knight #1.00

## Laboratory: Eurofins Pensacola

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

| Authority | Program | Identification Number | Expiration Date |
|---|---|---|---|
| Alabama | State | 40150 | 06-30-22 |
| ANAB | ISO/IEC 17025 | L2471 | 02-23-23 |
| 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 |
| Kansas | NELAP | E-10253 | 10-31-22 |
| Kentucky (UST) | State | 53 | 06-30-22 |
| Kentucky (WW) | State | KY98030 | 12-31-22 |
| Louisiana | NELAP | 30976 | 06-30-22 |
| Louisiana (DW) | State | LA017 | 12-31-22 |
| Maryland | State | 233 | 09-30-22 |
| Massachusetts | State | M-FL094 | 06-30-22 |
| Michigan | State | 9912 | 06-30-22 |
| North Carolina (WW/SW) | State | 314 | 12-31-22 |
| Oklahoma | NELAP | 9810 | 08-31-22 |
| Pennsylvania | NELAP | 68-00467 | 01-31-23 |
| 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 |
| West Virginia DEP | State | 136 | 03-31-23 |

eurofins | Environment Testing



# ANALYTICAL REPORT

## PREPARED FOR

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

Generated 11/23/2022 3:37:00 PM

## JOB DESCRIPTION

Knight #1.00

## JOB NUMBER

400-228567-1

Eurofins Pensacola
3355 McLemore Drive
Pensacola FL 32514



my EOL

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Laboratory Job ID: 400-228567-1

# Table of Contents

# Case Narrative

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job ID: 400-228567-1

## Job ID: 400-228567-1

### Laboratory: Eurofins Pensacola

**Narrative**

**Job Narrative**
**400-228567-1**

**Comments**
No additional comments.

**Receipt**
The samples were received on 11/8/2022 8:32 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.0º C.

**GC/MS VOA**
Method 8260C: Sample DUP-01 (400-228567-17) is suspected to be a duplicate of sample MW-1 (400-228567-2) but the results, nor the chromatograms resemble each other. Reanalysis of both samples was performed and the results were lower than the originals but still not in agreement. The original analysis is reported.

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 #1.00

Job ID: 400-228567-1

## Client Sample ID: TB-01 Lab Sample ID: 400-228567-1

No Detections.

## Client Sample ID: MW-1 Lab Sample ID: 400-228567-2

| Analyte | Result | Qualifier | RL | | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 84 | | 1.0 | | ug/L | 1 | | 8260C | Total/NA |

## Client Sample ID: MW-2 Lab Sample ID: 400-228567-3

No Detections.

## Client Sample ID: MW-3 Lab Sample ID: 400-228567-4

| Analyte | Result | Qualifier | RL | | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 51 | | 1.0 | | ug/L | 1 | | 8260D | Total/NA |
| Ethylbenzene | 1.5 | | 1.0 | | ug/L | 1 | | 8260D | Total/NA |

## Client Sample ID: MW-4 Lab Sample ID: 400-228567-5

| Analyte | Result | Qualifier | RL | | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 10 | | 1.0 | | ug/L | 1 | | 8260C | Total/NA |
| Ethylbenzene | 6.3 | | 1.0 | | ug/L | 1 | | 8260C | Total/NA |
| Xylenes, Total | 89 | | 10 | | ug/L | 1 | | 8260C | Total/NA |

## Client Sample ID: MW-5 Lab Sample ID: 400-228567-6

No Detections.

## Client Sample ID: MW-6 Lab Sample ID: 400-228567-7

No Detections.

## Client Sample ID: MW-7 Lab Sample ID: 400-228567-8

No Detections.

## Client Sample ID: MW-8 Lab Sample ID: 400-228567-9

No Detections.

## Client Sample ID: MW-9 Lab Sample ID: 400-228567-10

No Detections.

## Client Sample ID: MW-10 Lab Sample ID: 400-228567-11

No Detections.

## Client Sample ID: MW-11 Lab Sample ID: 400-228567-12

No Detections.

## Client Sample ID: MW-12 Lab Sample ID: 400-228567-13

| Analyte | Result | Qualifier | RL | | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 2.2 | | 1.0 | | ug/L | 1 | | 8260D | Total/NA |

## Client Sample ID: MW-13 Lab Sample ID: 400-228567-14

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Pensacola

# Detection Summary

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job ID: 400-228567-1

## Client Sample ID: MW-14 Lab Sample ID: 400-228567-15

No Detections.

## Client Sample ID: MW-15 Lab Sample ID: 400-228567-16

No Detections.

## Client Sample ID: DUP-01 Lab Sample ID: 400-228567-17

| Analyte | Result | Qualifier | RL | | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 15 | | 1.0 | | ug/L | 1 | | 8260C | Total/NA |

This Detection Summary does not include radiochemical test results.

Eurofins Pensacola

# Method Summary

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job ID: 400-228567-1

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

**Protocol References:**

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

**Laboratory References:**

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

# Sample Summary

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job ID: 400-228567-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 400-228567-1 | TB-01 | Water | 11/04/22 10:00 | 11/08/22 08:32 |
| 400-228567-2 | MW-1 | Water | 11/04/22 10:19 | 11/08/22 08:32 |
| 400-228567-3 | MW-2 | Water | 11/04/22 10:33 | 11/08/22 08:32 |
| 400-228567-4 | MW-3 | Water | 11/04/22 10:52 | 11/08/22 08:32 |
| 400-228567-5 | MW-4 | Water | 11/04/22 10:42 | 11/08/22 08:32 |
| 400-228567-6 | MW-5 | Water | 11/04/22 11:10 | 11/08/22 08:32 |
| 400-228567-7 | MW-6 | Water | 11/04/22 11:21 | 11/08/22 08:32 |
| 400-228567-8 | MW-7 | Water | 11/04/22 11:54 | 11/08/22 08:32 |
| 400-228567-9 | MW-8 | Water | 11/04/22 12:05 | 11/08/22 08:32 |
| 400-228567-10 | MW-9 | Water | 11/04/22 12:15 | 11/08/22 08:32 |
| 400-228567-11 | MW-10 | Water | 11/04/22 12:27 | 11/08/22 08:32 |
| 400-228567-12 | MW-11 | Water | 11/04/22 12:40 | 11/08/22 08:32 |
| 400-228567-13 | MW-12 | Water | 11/04/22 12:51 | 11/08/22 08:32 |
| 400-228567-14 | MW-13 | Water | 11/04/22 13:03 | 11/08/22 08:32 |
| 400-228567-15 | MW-14 | Water | 11/04/22 13:13 | 11/08/22 08:32 |
| 400-228567-16 | MW-15 | Water | 11/04/22 13:35 | 11/08/22 08:32 |
| 400-228567-17 | DUP-01 | Water | 11/04/22 12:00 | 11/08/22 08:32 |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job ID: 400-228567-1

## Client Sample ID: TB-01
**Date Collected: 11/04/22 10:00**
**Date Received: 11/08/22 08:32**

## Lab Sample ID: 400-228567-1
**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <1.0 | | 1.0 | | ug/L | | | 11/10/22 19:54 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 11/10/22 19:54 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 11/10/22 19:54 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 11/10/22 19:54 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Toluene-d8 (Surr)* | *98* | | *64 - 132* | | *11/10/22 19:54* | *1* |
| *Dibromofluoromethane* | *100* | | *75 - 126* | | *11/10/22 19:54* | *1* |
| *4-Bromofluorobenzene* | *100* | | *72 - 119* | | *11/10/22 19:54* | *1* |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job ID: 400-228567-1

## Client Sample ID: MW-1
**Date Collected: 11/04/22 10:19**
**Date Received: 11/08/22 08:32**

## Lab Sample ID: 400-228567-2
**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Benzene** | **84** | | 1.0 | | ug/L | | | 11/10/22 12:20 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 11/10/22 12:20 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 11/10/22 12:20 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 11/10/22 12:20 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *94* | | *72 - 119* | | *11/10/22 12:20* | *1* |
| *Dibromofluoromethane* | *96* | | *75 - 126* | | *11/10/22 12:20* | *1* |
| *Toluene-d8 (Surr)* | *119* | | *64 - 132* | | *11/10/22 12:20* | *1* |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job ID: 400-228567-1

## Client Sample ID: MW-2

**Date Collected: 11/04/22 10:33**
**Date Received: 11/08/22 08:32**

## Lab Sample ID: 400-228567-3

**Matrix: Water**

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

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

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *97* | | *72 - 119* | | *11/10/22 15:17* | *1* |
| *Dibromofluoromethane* | *102* | | *75 - 126* | | *11/10/22 15:17* | *1* |
| *Toluene-d8 (Surr)* | *98* | | *64 - 132* | | *11/10/22 15:17* | *1* |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job ID: 400-228567-1

## Client Sample ID: MW-3
**Date Collected: 11/04/22 10:52**
**Date Received: 11/08/22 08:32**

## Lab Sample ID: 400-228567-4
**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Benzene** | **51** | | 1.0 | | ug/L | | | 11/10/22 20:20 | 1 |
| **Ethylbenzene** | **1.5** | | 1.0 | | ug/L | | | 11/10/22 20:20 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 11/10/22 20:20 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 11/10/22 20:20 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Toluene-d8 (Surr)* | *114* | | *64 - 132* | | *11/10/22 20:20* | *1* |
| *Dibromofluoromethane* | *98* | | *75 - 126* | | *11/10/22 20:20* | *1* |
| *4-Bromofluorobenzene* | *98* | | *72 - 119* | | *11/10/22 20:20* | *1* |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job ID: 400-228567-1

## Client Sample ID: MW-4
**Date Collected: 11/04/22 10:42**
**Date Received: 11/08/22 08:32**

## Lab Sample ID: 400-228567-5
**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Benzene** | **10** | | 1.0 | | ug/L | | | 11/10/22 17:48 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 11/10/22 17:48 | 1 |
| **Ethylbenzene** | **6.3** | | 1.0 | | ug/L | | | 11/10/22 17:48 | 1 |
| **Xylenes, Total** | **89** | | 10 | | ug/L | | | 11/10/22 17:48 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *99* | | *72 - 119* | | *11/10/22 17:48* | *1* |
| *Dibromofluoromethane* | *101* | | *75 - 126* | | *11/10/22 17:48* | *1* |
| *Toluene-d8 (Surr)* | *99* | | *64 - 132* | | *11/10/22 17:48* | *1* |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job ID: 400-228567-1

## Client Sample ID: MW-5

**Date Collected: 11/04/22 11:10**
**Date Received: 11/08/22 08:32**

## Lab Sample ID: 400-228567-6

**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <1.0 | | 1.0 | | ug/L | | | 11/10/22 20:45 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 11/10/22 20:45 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 11/10/22 20:45 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 11/10/22 20:45 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Toluene-d8 (Surr)* | *99* | | *64 - 132* | | *11/10/22 20:45* | *1* |
| *Dibromofluoromethane* | *100* | | *75 - 126* | | *11/10/22 20:45* | *1* |
| *4-Bromofluorobenzene* | *98* | | *72 - 119* | | *11/10/22 20:45* | *1* |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job ID: 400-228567-1

## Client Sample ID: MW-6

**Date Collected: 11/04/22 11:21**
**Date Received: 11/08/22 08:32**

## Lab Sample ID: 400-228567-7

**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <1.0 | | 1.0 | | ug/L | | | 11/16/22 22:38 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 11/16/22 22:38 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 11/16/22 22:38 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 11/16/22 22:38 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Toluene-d8 (Surr)* | *98* | | *64 - 132* | | *11/16/22 22:38* | *1* |
| *Dibromofluoromethane* | *102* | | *75 - 126* | | *11/16/22 22:38* | *1* |
| *4-Bromofluorobenzene* | *97* | | *72 - 119* | | *11/16/22 22:38* | *1* |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job ID: 400-228567-1

## Client Sample ID: MW-7

**Date Collected: 11/04/22 11:54**
**Date Received: 11/08/22 08:32**

## Lab Sample ID: 400-228567-8

**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <1.0 | | 1.0 | | ug/L | | | 11/10/22 18:14 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 11/10/22 18:14 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 11/10/22 18:14 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 11/10/22 18:14 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *99* | | *72 - 119* | | *11/10/22 18:14* | *1* |
| *Dibromofluoromethane* | *99* | | *75 - 126* | | *11/10/22 18:14* | *1* |
| *Toluene-d8 (Surr)* | *99* | | *64 - 132* | | *11/10/22 18:14* | *1* |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job ID: 400-228567-1

## Client Sample ID: MW-8

**Date Collected: 11/04/22 12:05**
**Date Received: 11/08/22 08:32**

## Lab Sample ID: 400-228567-9

**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <1.0 | | 1.0 | | ug/L | | | 11/16/22 23:03 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 11/16/22 23:03 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 11/16/22 23:03 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 11/16/22 23:03 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Toluene-d8 (Surr)* | *98* | | *64 - 132* | | *11/16/22 23:03* | *1* |
| *Dibromofluoromethane* | *102* | | *75 - 126* | | *11/16/22 23:03* | *1* |
| *4-Bromofluorobenzene* | *95* | | *72 - 119* | | *11/16/22 23:03* | *1* |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job ID: 400-228567-1

## Client Sample ID: MW-9

**Date Collected: 11/04/22 12:15**
**Date Received: 11/08/22 08:32**

## Lab Sample ID: 400-228567-10

**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <1.0 | | 1.0 | | ug/L | | | 11/16/22 23:28 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 11/16/22 23:28 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 11/16/22 23:28 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 11/16/22 23:28 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Toluene-d8 (Surr)* | *99* | | *64 - 132* | | *11/16/22 23:28* | *1* |
| *Dibromofluoromethane* | *104* | | *75 - 126* | | *11/16/22 23:28* | *1* |
| *4-Bromofluorobenzene* | *96* | | *72 - 119* | | *11/16/22 23:28* | *1* |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job ID: 400-228567-1

## Client Sample ID: MW-10

**Date Collected: 11/04/22 12:27**
**Date Received: 11/08/22 08:32**

## Lab Sample ID: 400-228567-11

**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <1.0 | | 1.0 | | ug/L | | | 11/16/22 23:53 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 11/16/22 23:53 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 11/16/22 23:53 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 11/16/22 23:53 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Toluene-d8 (Surr)* | *97* | | *64 - 132* | | *11/16/22 23:53* | *1* |
| *Dibromofluoromethane* | *104* | | *75 - 126* | | *11/16/22 23:53* | *1* |
| *4-Bromofluorobenzene* | *96* | | *72 - 119* | | *11/16/22 23:53* | *1* |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job ID: 400-228567-1

## Client Sample ID: MW-11

**Date Collected: 11/04/22 12:40**
**Date Received: 11/08/22 08:32**

## Lab Sample ID: 400-228567-12

**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <1.0 | | 1.0 | | ug/L | | | 11/10/22 18:39 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 11/10/22 18:39 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 11/10/22 18:39 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 11/10/22 18:39 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *98* | | *72 - 119* | | *11/10/22 18:39* | *1* |
| *Dibromofluoromethane* | *99* | | *75 - 126* | | *11/10/22 18:39* | *1* |
| *Toluene-d8 (Surr)* | *98* | | *64 - 132* | | *11/10/22 18:39* | *1* |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job ID: 400-228567-1

## Client Sample ID: MW-12
**Date Collected: 11/04/22 12:51**
**Date Received: 11/08/22 08:32**

## Lab Sample ID: 400-228567-13
**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Benzene** | **2.2** | | 1.0 | | ug/L | | | 11/17/22 00:18 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 11/17/22 00:18 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 11/17/22 00:18 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 11/17/22 00:18 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Toluene-d8 (Surr)* | *97* | | *64 - 132* | | *11/17/22 00:18* | *1* |
| *Dibromofluoromethane* | *105* | | *75 - 126* | | *11/17/22 00:18* | *1* |
| *4-Bromofluorobenzene* | *95* | | *72 - 119* | | *11/17/22 00:18* | *1* |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job ID: 400-228567-1

## Client Sample ID: MW-13

**Date Collected: 11/04/22 13:03**
**Date Received: 11/08/22 08:32**

## Lab Sample ID: 400-228567-14

**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <1.0 | | 1.0 | | ug/L | | | 11/17/22 00:44 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 11/17/22 00:44 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 11/17/22 00:44 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 11/17/22 00:44 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Toluene-d8 (Surr)* | *97* | | *64 - 132* | | *11/17/22 00:44* | *1* |
| *Dibromofluoromethane* | *104* | | *75 - 126* | | *11/17/22 00:44* | *1* |
| *4-Bromofluorobenzene* | *96* | | *72 - 119* | | *11/17/22 00:44* | *1* |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job ID: 400-228567-1

## Client Sample ID: MW-14

**Date Collected: 11/04/22 13:13**
**Date Received: 11/08/22 08:32**

## Lab Sample ID: 400-228567-15

**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <1.0 | | 1.0 | | ug/L | | | 11/17/22 01:09 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 11/17/22 01:09 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 11/17/22 01:09 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 11/17/22 01:09 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Toluene-d8 (Surr)* | *97* | | *64 - 132* | | *11/17/22 01:09* | *1* |
| *Dibromofluoromethane* | *105* | | *75 - 126* | | *11/17/22 01:09* | *1* |
| *4-Bromofluorobenzene* | *95* | | *72 - 119* | | *11/17/22 01:09* | *1* |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job ID: 400-228567-1

## Client Sample ID: MW-15

**Date Collected: 11/04/22 13:35**
**Date Received: 11/08/22 08:32**

## Lab Sample ID: 400-228567-16

**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <1.0 | | 1.0 | | ug/L | | | 11/17/22 01:34 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 11/17/22 01:34 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 11/17/22 01:34 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 11/17/22 01:34 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Toluene-d8 (Surr)* | *98* | | *64 - 132* | | *11/17/22 01:34* | *1* |
| *Dibromofluoromethane* | *106* | | *75 - 126* | | *11/17/22 01:34* | *1* |
| *4-Bromofluorobenzene* | *95* | | *72 - 119* | | *11/17/22 01:34* | *1* |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job ID: 400-228567-1

## Client Sample ID: DUP-01
**Date Collected: 11/04/22 12:00**
**Date Received: 11/08/22 08:32**

## Lab Sample ID: 400-228567-17
**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Benzene** | **15** | | 1.0 | | ug/L | | | 11/10/22 19:04 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 11/10/22 19:04 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 11/10/22 19:04 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 11/10/22 19:04 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *99* | | *72 - 119* | | *11/10/22 19:04* | *1* |
| *Dibromofluoromethane* | *97* | | *75 - 126* | | *11/10/22 19:04* | *1* |
| *Toluene-d8 (Surr)* | *118* | | *64 - 132* | | *11/10/22 19:04* | *1* |

# Definitions/Glossary

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job ID: 400-228567-1

## Glossary

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

# Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job ID: 400-228567-1

## Client Sample ID: TB-01
**Date Collected: 11/04/22 10:00**
**Date Received: 11/08/22 08:32**

## Lab Sample ID: 400-228567-1
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260D | | 1 | 5 mL | 5 mL | 600019 | 11/10/22 19:54 | BPO | EET PEN |
| | Instrument ID: CH_LARS | | | | | | | | | |

## Client Sample ID: MW-1
**Date Collected: 11/04/22 10:19**
**Date Received: 11/08/22 08:32**

## Lab Sample ID: 400-228567-2
**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 | 600019 | 11/10/22 12:20 | BPO | EET PEN |
| | Instrument ID: CH_LARS | | | | | | | | | |

## Client Sample ID: MW-2
**Date Collected: 11/04/22 10:33**
**Date Received: 11/08/22 08:32**

## Lab Sample ID: 400-228567-3
**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 | 600019 | 11/10/22 15:17 | BPO | EET PEN |
| | Instrument ID: CH_LARS | | | | | | | | | |

## Client Sample ID: MW-3
**Date Collected: 11/04/22 10:52**
**Date Received: 11/08/22 08:32**

## Lab Sample ID: 400-228567-4
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260D | | 1 | 5 mL | 5 mL | 600019 | 11/10/22 20:20 | BPO | EET PEN |
| | Instrument ID: CH_LARS | | | | | | | | | |

## Client Sample ID: MW-4
**Date Collected: 11/04/22 10:42**
**Date Received: 11/08/22 08:32**

## Lab Sample ID: 400-228567-5
**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 | 600019 | 11/10/22 17:48 | BPO | EET PEN |
| | Instrument ID: CH_LARS | | | | | | | | | |

## Client Sample ID: MW-5
**Date Collected: 11/04/22 11:10**
**Date Received: 11/08/22 08:32**

## Lab Sample ID: 400-228567-6
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260D | | 1 | 5 mL | 5 mL | 600019 | 11/10/22 20:45 | BPO | EET PEN |
| | Instrument ID: CH_LARS | | | | | | | | | |

# Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job ID: 400-228567-1

## Client Sample ID: MW-6
**Date Collected: 11/04/22 11:21**
**Date Received: 11/08/22 08:32**

## Lab Sample ID: 400-228567-7
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260D | | 1 | 5 mL | 5 mL | 601034 | 11/16/22 22:38 | BPO | EET PEN |
| | Instrument ID: CH_LARS | | | | | | | | | |

## Client Sample ID: MW-7
**Date Collected: 11/04/22 11:54**
**Date Received: 11/08/22 08:32**

## Lab Sample ID: 400-228567-8
**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 | 600019 | 11/10/22 18:14 | BPO | EET PEN |
| | Instrument ID: CH_LARS | | | | | | | | | |

## Client Sample ID: MW-8
**Date Collected: 11/04/22 12:05**
**Date Received: 11/08/22 08:32**

## Lab Sample ID: 400-228567-9
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260D | | 1 | 5 mL | 5 mL | 601034 | 11/16/22 23:03 | BPO | EET PEN |
| | Instrument ID: CH_LARS | | | | | | | | | |

## Client Sample ID: MW-9
**Date Collected: 11/04/22 12:15**
**Date Received: 11/08/22 08:32**

## Lab Sample ID: 400-228567-10
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260D | | 1 | 5 mL | 5 mL | 601034 | 11/16/22 23:28 | BPO | EET PEN |
| | Instrument ID: CH_LARS | | | | | | | | | |

## Client Sample ID: MW-10
**Date Collected: 11/04/22 12:27**
**Date Received: 11/08/22 08:32**

## Lab Sample ID: 400-228567-11
**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 | 8260D | | 1 | 5 mL | 5 mL | 601034 | 11/16/22 23:53 | BPO | EET PEN |
| | Instrument ID: CH_LARS | | | | | | | | | |

## Client Sample ID: MW-11
**Date Collected: 11/04/22 12:40**
**Date Received: 11/08/22 08:32**

## Lab Sample ID: 400-228567-12
**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 | 600019 | 11/10/22 18:39 | BPO | EET PEN |
| | Instrument ID: CH_LARS | | | | | | | | | |

# Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job ID: 400-228567-1

## Client Sample ID: MW-12
**Date Collected: 11/04/22 12:51**
**Date Received: 11/08/22 08:32**

## Lab Sample ID: 400-228567-13
**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 | 8260D | | 1 | 5 mL | 5 mL | 601034 | 11/17/22 00:18 | BPO | EET PEN |
| | Instrument ID: CH_LARS | | | | | | | | | |

## Client Sample ID: MW-13
**Date Collected: 11/04/22 13:03**
**Date Received: 11/08/22 08:32**

## Lab Sample ID: 400-228567-14
**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 | 8260D | | 1 | 5 mL | 5 mL | 601034 | 11/17/22 00:44 | BPO | EET PEN |
| | Instrument ID: CH_LARS | | | | | | | | | |

## Client Sample ID: MW-14
**Date Collected: 11/04/22 13:13**
**Date Received: 11/08/22 08:32**

## Lab Sample ID: 400-228567-15
**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 | 8260D | | 1 | 5 mL | 5 mL | 601034 | 11/17/22 01:09 | BPO | EET PEN |
| | Instrument ID: CH_LARS | | | | | | | | | |

## Client Sample ID: MW-15
**Date Collected: 11/04/22 13:35**
**Date Received: 11/08/22 08:32**

## Lab Sample ID: 400-228567-16
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260D | | 1 | 5 mL | 5 mL | 601034 | 11/17/22 01:34 | BPO | EET PEN |
| | Instrument ID: CH_LARS | | | | | | | | | |

## Client Sample ID: DUP-01
**Date Collected: 11/04/22 12:00**
**Date Received: 11/08/22 08:32**

## Lab Sample ID: 400-228567-17
**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 | 600019 | 11/10/22 19:04 | BPO | EET PEN |
| | Instrument ID: CH_LARS | | | | | | | | | |

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

# QC Association Summary

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job ID: 400-228567-1

## GC/MS VOA

### Analysis Batch: 600019

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-228567-1 | TB-01 | Total/NA | Water | 8260D | |
| 400-228567-2 | MW-1 | Total/NA | Water | 8260C | |
| 400-228567-3 | MW-2 | Total/NA | Water | 8260C | |
| 400-228567-4 | MW-3 | Total/NA | Water | 8260D | |
| 400-228567-5 | MW-4 | Total/NA | Water | 8260C | |
| 400-228567-6 | MW-5 | Total/NA | Water | 8260D | |
| 400-228567-8 | MW-7 | Total/NA | Water | 8260C | |
| 400-228567-12 | MW-11 | Total/NA | Water | 8260C | |
| 400-228567-17 | DUP-01 | Total/NA | Water | 8260C | |
| MB 400-600019/4 | Method Blank | Total/NA | Water | 8260C | |
| LCS 400-600019/1002 | Lab Control Sample | Total/NA | Water | 8260C | |
| 400-228567-3 MS | MW-2 | Total/NA | Water | 8260C | |
| 400-228567-3 MSD | MW-2 | Total/NA | Water | 8260C | |

### Analysis Batch: 601034

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-228567-7 | MW-6 | Total/NA | Water | 8260D | |
| 400-228567-9 | MW-8 | Total/NA | Water | 8260D | |
| 400-228567-10 | MW-9 | Total/NA | Water | 8260D | |
| 400-228567-11 | MW-10 | Total/NA | Water | 8260D | |
| 400-228567-13 | MW-12 | Total/NA | Water | 8260D | |
| 400-228567-14 | MW-13 | Total/NA | Water | 8260D | |
| 400-228567-15 | MW-14 | Total/NA | Water | 8260D | |
| 400-228567-16 | MW-15 | Total/NA | Water | 8260D | |
| MB 400-601034/4 | Method Blank | Total/NA | Water | 8260D | |
| LCS 400-601034/1002 | Lab Control Sample | Total/NA | Water | 8260D | |
| 400-228854-A-9 MS | Matrix Spike | Total/NA | Water | 8260D | |
| 400-228854-A-9 MSD | Matrix Spike Duplicate | Total/NA | Water | 8260D | |

# QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job ID: 400-228567-1

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

### Lab Sample ID: MB 400-600019/4
**Matrix: Water**
**Analysis Batch: 600019**

**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 | | | 11/10/22 11:30 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 11/10/22 11:30 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 11/10/22 11:30 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 11/10/22 11:30 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *100* | | *72 - 119* | | *11/10/22 11:30* | *1* |
| *Dibromofluoromethane* | *101* | | *75 - 126* | | *11/10/22 11:30* | *1* |
| *Toluene-d8 (Surr)* | *98* | | *64 - 132* | | *11/10/22 11:30* | *1* |

### Lab Sample ID: LCS 400-600019/1002
**Matrix: Water**
**Analysis Batch: 600019**

**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 | 51.3 | | ug/L | | 103 | 70 - 130 | | |
| Toluene | | | 50.0 | 50.0 | | ug/L | | 100 | 70 - 130 | | |
| Ethylbenzene | | | 50.0 | 49.5 | | ug/L | | 99 | 70 - 130 | | |
| Xylenes, Total | | | 100 | 96.9 | | ug/L | | 97 | 70 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *88* | | *72 - 119* |
| *Dibromofluoromethane* | *96* | | *75 - 126* |
| *Toluene-d8 (Surr)* | *95* | | *64 - 132* |

### Lab Sample ID: 400-228567-3 MS
**Matrix: Water**
**Analysis Batch: 600019**

**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 | 51.9 | | ug/L | | 104 | 56 - 142 | | |
| Toluene | <1.0 | | 50.0 | 47.6 | | ug/L | | 95 | 65 - 130 | | |
| Ethylbenzene | <1.0 | | 50.0 | 40.7 | | ug/L | | 81 | 58 - 131 | | |
| Xylenes, Total | <10 | | 100 | 82.1 | | ug/L | | 82 | 59 - 130 | | |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *88* | | *72 - 119* |
| *Dibromofluoromethane* | *95* | | *75 - 126* |
| *Toluene-d8 (Surr)* | *97* | | *64 - 132* |

### Lab Sample ID: 400-228567-3 MSD
**Matrix: Water**
**Analysis Batch: 600019**

**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 | 51.7 | | ug/L | | 103 | 56 - 142 | 0 | 30 |
| Toluene | <1.0 | | 50.0 | 45.5 | | ug/L | | 91 | 65 - 130 | 4 | 30 |
| Ethylbenzene | <1.0 | | 50.0 | 38.1 | | ug/L | | 76 | 58 - 131 | 7 | 30 |

# QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job ID: 400-228567-1

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

**Lab Sample ID: 400-228567-3 MSD**
**Matrix: Water**
**Analysis Batch: 600019**

**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 | | 100 | 75.8 | | ug/L | | 76 | 59 - 130 | 8 | 30 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *94* | | *72 - 119* |
| *Dibromofluoromethane* | *95* | | *75 - 126* |
| *Toluene-d8 (Surr)* | *99* | | *64 - 132* |

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

**Lab Sample ID: MB 400-601034/4**
**Matrix: Water**
**Analysis Batch: 601034**

**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 | | | 11/16/22 17:37 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 11/16/22 17:37 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 11/16/22 17:37 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 11/16/22 17:37 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Toluene-d8 (Surr)* | *97* | | *64 - 132* | | *11/16/22 17:37* | *1* |
| *Dibromofluoromethane* | *103* | | *75 - 126* | | *11/16/22 17:37* | *1* |
| *4-Bromofluorobenzene* | *97* | | *72 - 119* | | *11/16/22 17:37* | *1* |

**Lab Sample ID: LCS 400-601034/1002**
**Matrix: Water**
**Analysis Batch: 601034**

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

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 50.0 | 53.5 | | ug/L | | 107 | 70 - 130 | | |
| Ethylbenzene | | | 50.0 | 51.2 | | ug/L | | 102 | 70 - 130 | | |
| Toluene | | | 50.0 | 51.5 | | ug/L | | 103 | 70 - 130 | | |
| Xylenes, Total | | | 100 | 101 | | ug/L | | 101 | 70 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Toluene-d8 (Surr)* | *95* | | *64 - 132* |
| *Dibromofluoromethane* | *99* | | *75 - 126* |
| *4-Bromofluorobenzene* | *86* | | *72 - 119* |

**Lab Sample ID: 400-228854-A-9 MS**
**Matrix: Water**
**Analysis Batch: 601034**

**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 | 54.6 | | ug/L | | 108 | 56 - 142 | | |
| Ethylbenzene | <1.0 | | 50.0 | 47.6 | | ug/L | | 95 | 58 - 131 | | |
| Toluene | <1.0 | | 50.0 | 51.5 | | ug/L | | 103 | 65 - 130 | | |
| Xylenes, Total | <10 | | 100 | 96.3 | | ug/L | | 96 | 59 - 130 | | |

# QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Knight #1.00

Job ID: 400-228567-1

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

**Lab Sample ID: 400-228854-A-9 MS**
**Matrix: Water**
**Analysis Batch: 601034**

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

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|---|---|---|---|
| *Toluene-d8 (Surr)* | *97* | | *64 - 132* |
| *Dibromofluoromethane* | *96* | | *75 - 126* |
| *4-Bromofluorobenzene* | *86* | | *72 - 119* |

**Lab Sample ID: 400-228854-A-9 MSD**
**Matrix: Water**
**Analysis Batch: 601034**

**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 | 55.9 | | ug/L | | 111 | 56 - 142 | 2 | 30 |
| Ethylbenzene | <1.0 | | 50.0 | 52.6 | | ug/L | | 105 | 58 - 131 | 10 | 30 |
| Toluene | <1.0 | | 50.0 | 54.4 | | ug/L | | 109 | 65 - 130 | 5 | 30 |
| Xylenes, Total | <10 | | 100 | 107 | | ug/L | | 107 | 59 - 130 | 10 | 30 |

| Surrogate | MSD %Recovery | MSD Qualifier | Limits |
|---|---|---|---|
| *Toluene-d8 (Surr)* | *97* | | *64 - 132* |
| *Dibromofluoromethane* | *95* | | *75 - 126* |
| *4-Bromofluorobenzene* | *89* | | *72 - 119* |

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

# Chain of Custody Record

eurofins

| Client Information | Sampler: SRC | Lab PM: Whitmire, Cheyenne R | Carrier Tracking No(s): | COC No: 400-114522-37678.1 |
|---|---|---|---|---|
| Client Contact: Steve Varsa | Phone: 913 - 980 - 0291 | E-Mail: Cheyenne.Whitmire@et.eurofinsus.com | State of Origin: NM | Page: Page 1 of 2 |
| Company: Stantec Consulting Services Inc | PWSID: | | | Job #: |
| Address: 11311 Aurora Avenue | Due Date Requested: | | | |
| City: Des Moines | TAT Requested (days): STD | | | |
| State, Zip: IA, 50322-7904 | Compliance Project: Δ Yes Δ No | | | |
| Phone: | PO #: WD1040028 | | | |
| Email: steve.varsa@stantec.com | WO #: ERG-STN-10-07-22-SAH-10 | | | |
| Project Name: Knight #1.00 | Project #: 40005479 | | | |
| Site: Knight STN-10 | SSOW#: | | | |

**Analysis Requested**

400-228567 COC

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

| Sample Identification | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 8260C - (MOD) BTEX 8260 | 8260C - (MOD) BTEX 8260 (unpreserved) | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | A | N | | |
| TB-01 | 11/4/2022 | 1000 | G | Water | | | 2 | | 2 | Trip Blank |
| MW-1 | 11/4/2022 | 1019 | G | Water | | | | 3 | 3 | |
| MW-2 | 11/4/2022 | 1033 | G | Water | | | | 3 | 3 | |
| MW-3 | 11/4/2022 | 1052 | G | Water | | | 3 | | 3 | |
| MW-4 | 11/4/2022 | 1042 | G | Water | | | | 3 | 3 | |
| MW-5 | 11/4/2022 | 1110 | G | Water | | | 3 | | 3 | |
| MW-6 | 11/4/2022 | 1121 | G | Water | | | 3 | | 3 | |
| MW-7 | 11/4/2022 | 1154 | G | Water | | | | 3 | 3 | |
| MW-8 | 11/4/2022 | 1205 | G | Water | | | 3 | | 3 | |
| MW-9 | 11/4/2022 | 1215 | G | Water | | | 3 | | 3 | |
| MW-10 | 11/4/2022 | 1227 | 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 |
|---|---|---|---|---|---|
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: 11-8-22 9:32 | Company |

| Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 0.0 i 1.0 |
|---|---|---|

Ver: 06/08/2021

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

# Chain of Custody Record

eurofins

| Client Information | Sampler: SLC | Lab PM: Whitmire, Cheyenne R | Carrier Tracking No(s): | COC No: 400-114522-37678.2 |
|---|---|---|---|---|
| Client Contact: Steve Varsa | Phone: 913 980 0281 | E-Mail: Cheyenne.Whitmire@et.eurofinsus.com | State of Origin: N.M | Page: Page 2 of 2 |
| Company: Stantec Consulting Services Inc | PWSID: | | | Job #: |
| Address: 11311 Aurora Avenue | Due Date Requested: | | | |
| City: Des Moines | TAT Requested (days): STN | | | |
| State, Zip: IA, 50322-7904 | Compliance Project: Δ Yes Δ No | | | |
| Phone: | PO #: WD1040028 | | | |
| Email: steve.varsa@stantec.com | WO #: ERG-STN-10-07-22-SAH-10 | | | |
| Project Name: Knight #1.00 | Project #: 40005479 | | | |
| Site: Knight #1 | SSOW#: | | | |

**Analysis Requested**

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

STN-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: | | | | A | N | | |
| MW-11 | 11/4/2022 | 1240 | G | Water | | | | 3 | 3 | |
| MW-12 | 11/4/2022 | 1251 | G | Water | | | 3 | | 3 | |
| MW-13 | 11/4/2022 | 1303 | G | Water | | | 3 | | 3 | |
| MW-14 | 11/4/2022 | 1313 | G | Water | | | 3 | | 3 | |
| MW-15 | 11/4/2022 | 1335 | G | Water | | | 3 | | 3 | |
| DUP-01 | 11/4/2022 | — | G | Water | | | | 3 | 3 | |
| | | | | Water | | | | | | |
| | | | | Water | | | | | | |
| | | | | Water | | | | | | |
| | | | | Water | | | | | | |
| | | | | Water | | | | | | |

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

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

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

Special Instructions/QC Requirements:

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

| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
|---|---|---|---|---|---|
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: 11.8.22 9:32 | Company |

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

Ver: 06 08/2021

# Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc Job Number: 400-228567-1

**Login Number: 228567** **List Source: Eurofins Pensacola**
**List Number: 1**
**Creator: Perez, Trina M**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | N/A | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | 0.0°C IR-8 |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | N/A | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

# Accreditation/Certification Summary

Client: Stantec Consulting Services Inc Job ID: 400-228567-1
Project/Site: Knight #1.00

## Laboratory: Eurofins Pensacola

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

| Authority | Program | Identification Number | Expiration Date |
|---|---|---|---|
| Alabama | State | 40150 | 06-30-23 |
| ANAB | ISO/IEC 17025 | L2471 | 02-23-23 |
| Arkansas DEQ | State | 88-0689 | 09-01-23 |
| California | State | 2510 | 06-30-23 |
| Florida | NELAP | E81010 | 06-30-23 |
| Georgia | State | E81010(FL) | 06-30-23 |
| Illinois | NELAP | 200041 | 10-09-23 |
| Kansas | NELAP | E-10253 | 10-31-23 |
| Kentucky (UST) | State | 53 | 06-30-23 |
| Kentucky (WW) | State | KY98030 | 12-31-22 |
| Louisiana (All) | NELAP | 30976 | 06-30-23 |
| Louisiana (DW) | State | LA017 | 12-31-22 |
| Maryland | State | 233 | 09-30-23 |
| Michigan | State | 9912 | 06-30-23 |
| North Carolina (WW/SW) | State | 314 | 12-31-22 |
| Oklahoma | NELAP | 9810 | 08-31-23 |
| Pennsylvania | NELAP | 68-00467 | 01-31-23 |
| South Carolina | State | 96026 | 06-30-23 |
| Tennessee | State | TN02907 | 06-30-23 |
| Texas | NELAP | T104704286 | 09-30-23 |
| US Fish & Wildlife | US Federal Programs | A22340 | 06-30-23 |
| USDA | US Federal Programs | P330-21-00056 | 05-17-24 |
| Virginia | NELAP | 460166 | 06-14-23 |
| West Virginia DEP | State | 136 | 03-31-23 |

# Eurofins Pensacola

## Job Notes

The test results in this report meet all NELAP requirements for accredited parameters, unless otherwise noted, and relate only to the referenced samples. Pursuant to NELAP, this report may not be reproduced, except in full, without written approval from the laboratory. For questions please contact the Project Manager at the e-mail address listed on this page, or the telephone number at the bottom of the page. Eurofins Environment Testing Southeast LLC, Pensacola Certifications and Approvals: Alabama (40150), Arizona (AZ0710), Arkansas (88-0689), Florida (E81010), Illinois (200041), Iowa (367), Kansas (E-10253), Kentucky UST (53), Louisiana (30748), Maryland (233), Massachusetts (M-FL094), Michigan (9912), New Hampshire (250510), New Jersey (FL006), North Carolina (314), Oklahoma (9810), Pennsylvania (68-00467), Rhode Island (LAO00307), South Carolina (96026), Tennessee (TN02907), Texas (T104704286-10-2), Virginia (00008), Washington (C2043), West Virginia (136), USDA Foreign Soil Permit (P330-08-00006).

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

## Authorization

Generated
11/23/2022 3:37:00 PM

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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

| Operator: | OGRID: |
|---|---|
| El Paso Natural Gas Company, L.L.C<br>1001 Louisiana Street<br>Houston, TX 77002 | 7046 |
| | Action Number:<br>201709 |
| | Action Type:<br>[UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT) |

**CONDITIONS**

| Created By | Condition | Condition Date |
|---|---|---|
| nvelez | Review of 2022 Annual Groundwater Report: Content satisfactory 1. Proceed with Planned Future Activities as stated in this report. 2. Submit next annual groundwater monitoring report no later than April 1, 2024. | 5/22/2023 |