REVIEWED
By Nelson Velez at 7:10 am, Oct 26, 2022

Review of 2021 annual report: **Content satisfactory**

1. Continue bi-annual groundwater monitoring in 2022.
2. Continue collection of groundwater samples from monitoring wells not containing LNAPL.
3. If encountered, LNAPL to be hand-bailed, and recovered fluids properly disposed & documented.
4. The groundwater samples will be submitted for laboratory analysis of BTEX constituents using EPA Method 8260 and nitrate using EPA Method 300.0.
5. Continue monitoring for LNAPL from MW-32, MW-47, MP-1, and TW-2 on a quarterly basis in 2022.
6. Complete further delineation or assessment of hydrocarbons in the vicinity of the former EPNG evaporation pond.
7. Submit 2022 Annual Report summarizing activities completed and their results no later than March 31, 2023.

Stantec

2021 ANNUAL GROUNDWATER MONITORING REPORT

Blanco Plant – North Flare Pit

NMOCD Incident No.
NAUTOFCS000155

Prepared for:

El Paso CGP Company, LLC
1001 Louisiana Street
Houston, Texas 77002

Prepared by:

Stantec Consulting Services, Inc.
11311 Aurora Avenue
Des Moines, IA 50322

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Abbreviations

Bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene, and total xylenes
DTP	depth to product
DTW	depth to water
EPFS	El Paso Field Services
EPNG	El Paso Natural Gas Company, LLC
LNAPL	light non-aqueous phase liquid
mg/L	milligrams per liter
NMED	New Mexico Environment Department
NMOCD	New Mexico Oil Conservation Division
NMWQCC	New Mexico Water Quality Control Commission
QC	quality control
SVE	Soil vapor extraction

1.0 INTRODUCTION

This 2021 Annual Groundwater Monitoring Report has been prepared on behalf of El Paso CGP Company, LLC (EPCGP) to present the results of the 2021 groundwater monitoring activities at the Blanco Gas Plant – North Flare Pit (Blanco North, the Site). The Report also documents quarterly light non-aqueous phase liquid (LNAPL) recovery activities, monitoring well replacement and remediation test well installation completed in July 2021, and soil vapor extraction (SVE) feasibility testing activities completed in August 2021.

The site is currently regulated by the New Mexico Oil Conservation Division (NMOCD) and is located at 81 Road 4900 in Bloomfield, San Juan County, New Mexico. The site location is shown in Figure 1 and the site plan is shown in Figure 2. The Site activities were completed by Stantec Consulting Services, Inc. (Stantec) on behalf of EPCGP.

2.0 SITE BACKGROUND

2.1 SITE DESCRIPTION

The Blanco North site is located approximately 1.5 miles northeast of central Bloomfield, New Mexico, on land controlled by the United States Bureau of Land Management. The San Juan River is roughly 2 miles south of the Site. The property adjacent to the Site is primarily used for ranching and farming, with a gas production well operated by Hilcorp Energy located west of the former North Flare Pit (NFP) area. The main operations of the Blanco Gas Plant are located directly to the south of the Site. The Site is adjacent to a pipeline pigging station but is generally not heavily industrialized and contains large areas of unimproved land, other than limited environmental-related infrastructure.

2.2 SITE HISTORY

The Site has an extensive history of environmental investigation and restoration. Remediation efforts over the past several decades include:

- The New Mexico Environmental Improvement Division, now the New Mexico Environment Department (NMED) conducted a site inspection at the Blanco Gas Plant in 1987 and recommended investigation to support the submittal of a groundwater discharge plan application. In 1988, MW-2 was installed and sampled. During January 1990, MW-19 was installed and sampled. MW-19 contained an oily sheen with benzene, toluene, ethylbenzene, and xylene (BTEX) concentrations exceeding the New Mexico Water Quality Control Commission (NMWQCC) standards (MWH, 2011).

- During February 1992, hydrocarbon-impacted soils were excavated and removed from the Site. Following the excavation, a work plan was submitted to the NMOCD which addressed subsurface investigation of the NFP. The investigation of the NFP was conducted during September and October of 1992. During the investigation, five monitoring wells (MW-20, MW-23, MW-24, MW-26, and MW-27) were installed south of the NFP. In addition, several soil borings were advanced adjacent to the monitoring wells but were not completed as wells because significant quantities of groundwater were not encountered. LNAPL was found in monitoring wells MW-19, MW-26, and MW-27 and was sampled, while groundwater was sampled from the remaining wells. Concentrations of BTEX in exceedance of NMWQCC standards were detected in monitoring wells MW-23 and MW-24. Based on the groundwater data and product analysis obtained during the 1992 investigation, it was suggested that the NFP and evaporation pond were the two plausible sources of contamination at the site (MWH, 2011).

- LNAPL removal from MW-19 and MW-26 was initiated by El Paso Natural Gas (EPNG) in 1993 and continued until June 1995. During this time, routine groundwater monitoring was conducted. LNAPL was not found in any monitoring wells at the Site as of August 1995. In September 1995, EPNG submitted a work plan to NMOCD which proposed remediation of BTEX impacts by nitrate addition, quarterly groundwater monitoring, and abandonment of monitoring wells following remediation of hydrocarbons below NMWQCC standards. Approval of

this work plan was not received from NMOCD, and groundwater monitoring at the Site was discontinued (MWH, 2011).

- Periodic groundwater monitoring and sampling resumed in 2000. Management of the Site was transferred from EPNG to El Paso Field Services (EPFS) in August 2001. Sludge from the lined evaporation pond was excavated and removed in October 2001. During the evaporation pond excavation, the liner was retracted, and soil samples were collected at depths from 1 to 4 feet below ground surface (bgs). The soil samples were submitted to an analytical laboratory for analysis of petroleum hydrocarbons. It was reported that the soil samples contained no detectable quantities of petroleum hydrocarbons (MWH, 2011).

- In May 2002, the NMOCD requested EPFS submit historic monitoring and remediation data collected from the Site since 1994. EPFS submitted the requested data along with a work plan which proposed the installation and operation of a pilot air sparge (AS) system adjacent to MW-19 and MW-26 to remediate groundwater. NMOCD approved the work plan in February 2003 (MWH, 2011).

- One AS well (SW-1) was installed north of MW-26. During April 2003, an LNAPL skimmer pump was installed and LNAPL removal began. Operation of the AS system began in June 2003 (MWH, 2011).

- During May 2006, monitoring wells MW-31, MW-32, and MW-33 were installed to further characterize the Site. Shortly after installation, LNAPL was detected in MW-32. In September 2006, a pneumatic skimmer was placed in MW-32 to facilitate LNAPL removal. However, following removal of minimal LNAPL, the skimmer was replaced with absorbent socks (MWH, 2011).

- In June 2009, during an air sparging maintenance event, the AS system was found to be inoperative. EPFS suspended use of the AS system and began evaluating the site for hydrocarbon rebound (MWH, 2011).

- In 2013, semi-annual groundwater sampling and annual reporting resumed, and the above ground storage tank formerly used for storage of recovered fluids was removed.

- In March 2014, a work plan to conduct site characterization activities was completed and submitted to the NMOCD. In August 2014, the AS system and associated infrastructure was decommissioned and removed from the Site (Jacobs, 2020).

- In 2017, three soil borings (SB-1 through SB-3) were advanced, and nine monitoring wells (MW-40 through MW-48) were advanced and completed as part of a site characterization investigation. Soil samples were collected and submitted for laboratory analysis during advancement of the monitoring wells and soil borings. Six monitoring wells (MW-2, MW-19, MW-24, MW-26, MW-27, and MW-31), and AS well SW-1 were plugged and abandoned. The results of these activities are to be presented in an upcoming report (Jacobs 2020).

- In August 2019, additional site characterization investigation activities were completed at the Site, including the advancement and completion of eight

monitoring wells (MW-49 through MW-56) around the former NFP and adjacent to the former evaporation pond. Soil samples were collected and submitted for laboratory analysis during advancement of the monitoring wells. The results of these activities were summarized in a Site Characterization Report (Stantec, 2021).

- In July 2021, additional site characterization activities were completed at the Site, including the advancement of one monitoring well (MW-57), three AS test wells (TW-2 through TW-4) and three monitoring points (MP-1 through MP-3), and abandonment of one monitoring well (MW-33). Soil samples were collected during advancement of the wells and submitted for laboratory analysis.
- In August 2021, SVE feasibility testing was performed at the Site.

2.3 GEOLOGY AND HYDROGEOLOGY

Bechtel Environmental (Bechtel, 1988) and K.W Brown and Associates (K.W. Brown, 1990) assessed the geology and hydrogeology beneath the Blanco Plant site during their 1988 and 1990 investigations of the extent of groundwater contamination. The Blanco Plant area is located on Quaternary alluvium consisting of sand, silt, clay, and gravel. The alluvium varies in thickness from less than 3 feet to more than 75 feet (Bechtel, 1988). Beneath the alluvium is the Tertiary Nacimiento Formation consisting of interbedded, coarse to medium-grained arkosic sandstone, siltstone, and shale which were characterized as channel fill and floodplain deposits (Bechtel, 1988). The channel-fill sandstone may locally dictate groundwater flow due to the expected higher hydraulic conductivities in this lithology.

The site hydrogeology and groundwater were also assessed by EPNG in a study conducted in 1989 (EPNG, 1989). The average hydraulic conductivity was estimated to be 2.1 x 10^{-4} centimeters per second. Depth to groundwater ranged from 9 to 50 feet bgs (EPNG, 1989). In 1992, Burlington Environmental completed an investigation specific to the NFP area (Burlington, 1992). Eight borings were advanced during the investigation, five of which were completed as monitoring wells. In general, it was observed that each of these borings were advanced through approximately 19 feet of silty/clayey sand, underlain by silty/sandy clay with laminated siltstone and mudstone. In three of the borings (completed as MW-24, MW-26, and MW-27), a sand layer containing gravel and clay was encountered above the sandstone bedrock, which was interpreted as a possible relict channel feature. In the MW-19 boring, a similar thick sandy unit was encountered (K.W. Brown, 1990). At approximately 50 to 70 feet bgs sandstone was encountered, with the greatest depths to bedrock found beneath the possible relict channel feature. In some places the upper sections of the sandstone were observed to be friable. The soil borings advanced during the investigation were terminated in what was characterized as a gypsum-cemented sandstone and interpreted to be an apparent aquitard. Depending on the location, groundwater saturation was encountered either within or just above the overlying sandstone contact.

3.0 FIELD ACTIVITIES

Activities completed in 2021 included semi-annual groundwater monitoring and sampling, along with LNAPL recovery, in May and November 2021. An additional well gauging and LNAPL recovery event was completed in August 2021. For the field activities completed by Stantec, electronic mail notifications were provided to the NMOCD prior to the start of field work. Copies of the notifications are provided in Appendix A.

The following sections summarize the 2021 site activities.

3.1 WELL INSTALLATION ACTIVITIES

In July 2021, one monitoring well (MW-57), three AS test wells (TW-2 through TW-4), and three monitoring points (MP-1 through MP-3) were installed at the Site. Monitoring well MW-57 was installed to replace MW-33. Test wells TW-2 through TW-4 were installed for the future evaluation of AS methods to remediate groundwater at the Site. Monitoring points MP-1 through MP-3 were installed to provide additional monitoring points during future AS and SVE feasibility testing at the Site. The planned well locations were staked for permitting and utility locating purposes prior to completing public 811 locating activities. Well installation permits for the new wells were also obtained from the New Mexico Office of the State Engineer (NMOSE).

Unless otherwise noted below, the well advancement and installation activities were completed in accordance with the June 28, 2021, *Well Installation Work Plan*. Monitoring well MW-57, monitoring points MP-1 through MP-3, and test wells TW-2 through TW-4 were advanced in July 2021, to further characterize the extent of the hydrocarbons at the Site. Following advancement to the target depth, monitoring wells MW-57, monitoring points MP-1 through MP-3, and test wells TW-2 through TW-4 were installed. Ground surface and casing elevations of the new wells were subsequently surveyed by a licensed surveyor using state plane coordinates.

Monitoring well MW-57 was constructed of 4-inch-diameter, Schedule 40 polyvinyl chloride (PVC) casing, with 30 feet of 0.010-inch, continuous, factory-slotted PVC screen. Monitoring points MP-1 through MP-4 were constructed of 2-inch-diameter, schedule 40 PVC casing with 15 feet of 0.010-inch, continuous factory slot screen. Test wells TW-2 through TW-4 were constructed of 2-inch diameter, Schedule 40 PVC with 2 feet of 0.010-inch continuous factory slot screen. MW-57 and the monitoring points were installed at depths that bisected the field-observed or expected water table. The test wells were installed at depths where the well screens were expected to be submerged in comparison to the field observed or expected water table. Each well was completed as a stick-up well with locking protective casing, concrete surface completion, and protective bollards. The borehole logs and well construction diagrams are provided in Appendix B. The NMOSE well completion forms are included as Appendix C.

During advancement of each well, at least two soil samples were retained above the field-interpreted water table and placed in a 4-ounce jar for laboratory analysis. One

additional soil sample was retained for laboratory analysis during advancement of MW-57 and MP-1, and two additional soil samples were retained for laboratory analysis during advancement of MP-3. The retained sample jars were stored in an ice-filled cooler and shipped under chain-of-custody protocols to Eurofins-TestAmerica Laboratories, in Pensacola, Florida (Eurofins). The soil samples were analyzed for BTEX using EPA Method 8260C. The soil samples collected from MW-57 were also analyzed for chloride using Method 300.0.

Following installation and once water was present, the wells were developed using a well swab and down-hole pump until visibly clear groundwater was observed. Development and decontamination water were containerized and transported to Basin Disposal, Inc. (Basin) in Bloomfield, NM for disposal. A copy of the wastewater disposal documentation is included as Appendix D. Soil cuttings were containerized in a lined roll off and staged on site for later removal and disposal at Envirotech, Inc. (Envirotech) soil landfarm, located south of Bloomfield, New Mexico. Envirotech's soil disposal documentation is contained in Appendix E.

3.2 MONITORING WELL ABANDONMENT ACTIVITIES

Monitoring well MW-33 was abandoned in July 2021, in accordance with Subsection C of 19.27.4.30 of the New Mexico Administrative Code, and the conditions outlined in the New Mexico Office of the State Engineer approved Plugging Plan for the Site. The monitoring well was abandoned due to concerns over the integrity of the well and was replaced by MW-57. The NMOSE well abandonment form for MW-33 is included in Appendix C.

3.3 SOIL VAPOR EXTRACTION TESTING

In accordance with the August 13, 2021, *Work Plan for Soil Vapor Extraction Testing Activities*, SVE feasibility testing activities were conducted at the Site on August 24 and 25, 2021, by AcuVac Remediation, LLC, of Houston, Texas (AcuVac). The NMOCD was notified of the start date for the feasibility testing activities on August 20, 2021 (Appendix A). SVE feasibility testing was completed in monitoring wells MW-23, MW-32, MW-44, MW-45, MW-47, MW-48, MW-51, and MW-52. The monitoring wells selected were chosen as they have historically contained elevated hydrocarbon concentrations, and active remediation of these areas may be warranted. Based on the construction logs of the monitoring wells tested, each has sufficient well screen above the water table to facilitate SVE testing.

The intent of SVE is to reduce concentrations of VOCs within the saturated-vadose zone through extraction and volatilization. The SVE feasibility testing was conducted using the AcuVac I-6 System; the vacuum extraction portion of the AcuVac system consists of a vacuum pump powered by an internal combustion engine (ICE). The vacuum pump was connected to the extraction well via hose and induced a vacuum on the well. Any recovered vapors from the SVE blower were combusted using AcuVac's ICE system.

For each well tested, an SVE step test was conducted to evaluate pressures and flow rate response. The process involved inducing various vacuum pressures at the test well. During testing, flow rate, water level, carbon dioxide, oxygen, carbon monoxide, hydrogen sulfide data, and hydrocarbon concentration data was collected to evaluate performance. Pressure/vacuum influence was also monitored at select monitoring wells

of varying distances from the test well to provide data for evaluating the radius of influence.

AcuVac's report summarizing the SVE feasibility testing activities at the Site is presented as Appendix F. No wastes were generated during the feasibility testing activities that required off-site disposal.

3.4 DEPTH TO WATER MEASUREMENTS

Site-wide groundwater monitoring well gauging activities were conducted on May 20, and November 9, 2021. The EPNG-owned monitoring wells associated with the South Flare Pit and D Plant Areas of the Blanco Plant were also gauged on November 9, 2021, to evaluate groundwater elevations across both the north and south portions of the Blanco Plant.

Well gauging was completed using an oil-water interface probe, and depth to water (DTW) and depth to product (DTP), as applicable, were measured at each of the accessed monitoring wells. Monitoring well MW-33 was plugged and abandoned in July 2021. In 2021, measurable LNAPL was present in monitoring wells MW-32 and MW-47, monitoring point MP-1, and test well TW-2.

3.5 LNAPL RECOVERY

Quarterly LNAPL recovery activities were initiated at the Site beginning in August 2020, and were performed in March, May, July, August, and November 2021. The LNAPL recovery data is summarized on Table 1. During the groundwater sampling site visits in May and November 2021, the recovered LNAPL was disposed of with wastewater generated during the monitoring well sampling activities. Recovered LNAPL from the March, July and August site visits were also transported for disposal at Basin (Appendix D).

In May and November 2021, the recovered liquids were contained with wastewater generated during groundwater sampling activities. The recovered liquids were transported to Basin Disposal, Inc. (Basin) for treatment and disposal. Waste disposal documentation is included as Appendix D.

3.6 GROUNDWATER SAMPLING

Following collection of gauging data on May 20 and November 9, 2021, groundwater samples were collected from monitoring wells with no LNAPL present. Groundwater samples were obtained using Hydrasleeve samplers. Monitoring wells MW-23 and MW-40 through mw-56 were sampled in May and November 2021, with new monitoring MW-57 sampled in November 2021. Monitoring well MW-33 was sampled in May 2021 before being plugged and abandoned in July 2021. Monitoring wells MW-32 and MW-47 contained LNAPL and were not sampled. Wells MP-1 through MP-3, and TW-2 through TW-4, were installed for remedial feasibility testing purposes, and therefore also were not sampled.

Groundwater samples were placed into laboratory-supplied sample containers, packed on ice and shipped under standard chain-of-custody protocols to Eurofins, located in Pensacola, Florida. One laboratory-supplied trip blank, and two blind field duplicate samples were also collected during each sampling event. Groundwater samples were analyzed for BTEX using U.S. Environmental Protection Agency (EPA) Method 8260B, and nitrate using Method E300.0.

Excess groundwater and other wastewater generated during the sampling event was containerized and transported to Basin for treatment and disposal. Waste disposal documentation is included in Appendix D.

Groundwater analytical data were subjected to a validation process for the review of quality and analytical methods used. The data review focused on the potential impact of laboratory performance and matrix effects on the validity of the analytical results. During the review, sample results that did not meet quality control (QC) acceptance criteria were qualified with flags to indicate a potential problem with the data, as noted on the groundwater analytical data summary tables. The Stantec data validation report, and associated level IV data packages from Eurofins, are available upon request.

4.0 RESULTS AND DISCUSSION

4.1 SOIL SAMPLE RESULTS

Soil analytical data were evaluated against the NMOCD guidelines for remediation of leaks, spills, and releases (NMOCD Guidelines, 1993) and the New Mexico Industrial/Occupational Soil Screening Levels (SSLS, NMED, 2019). Soil analytical results are summarized in Tables 2 and 3. Laboratory analytical reports are provided in Appendix G. Soil samples with exceedances of applicable NMOCD Guidelines or NMED SSLSs are depicted on Figure 3.

As summarized on Table 2, concentrations of individual BTEX constituents in soil samples collected during advancement of the site wells did not exceed applicable NMOCD Guidelines or NMED SSLSs. The concentrations of Total BTEX in one soil sample (MP-1, 47.5-50 feet) did exceed the applicable NMOCD Guidelines. As summarized on Table 3, concentrations of chloride did not exceed the applicable NMOCD Guidelines in the soil samples collected during advancement of MW-57.

4.2 SVE TEST RESULTS

Based on the flow and induced vacuum data collected during the feasibility testing, SVE appears feasible at the MW-52 location, is marginally feasible at the MW-23, MW-32, MW-45, MW-47, MW-51 locations, and does not appear feasible at the MW-44 and MW-48 locations. A radius of influence between 10 and 20 feet was confirmed during testing at the MW-32 and MW-51 locations. The radius of influence of less than 20 feet was determined from the MW-45 location. Meaningful radii of influence could not be determined from the remaining locations tested.

4.3 GROUNDWATER ELEVATION AND GRADIENT

Groundwater elevation data is summarized on Table 4. Groundwater elevations determined from the May and November 2021 gauging events indicated apparent groundwater flow across the site to the southeast. Groundwater elevation contour maps depicting groundwater elevations across the site for each gauging event are included as Figures 4 and 5.

4.4 GROUNDWATER ANALYTICAL RESULTS

Tables 5 and 6 summarize the groundwater analytical results. Figures 6 and 7 summarize BTEX and nitrate analyte concentrations for the May and November groundwater sampling results, respectively. The laboratory analytical reports are included as Appendix H.

- LNAPL was observed in MW-32 and MW-47; therefore, groundwater samples were not collected from these wells. Additionally, an insufficient amount of water was present in MW-49 and MW-50 for collecting groundwater samples from these locations in May and November 2021.
- Groundwater samples collected from monitoring wells MW-23, MW-44, MW-45, MW-48, MW-51, and MW-52 during both the April and November 2020 sampling

events, exceeded the NMWQCC standard (0.01 milligrams per liter [mg/L]) for benzene. Benzene concentrations were either below the standard or not detected in the remaining monitoring wells sampled in 2021.

- Concentrations of toluene were either below the NMWQCC standard (0.75 mg/L) or not detected in the monitoring wells sampled in 2021.
- Concentrations of ethylbenzene were either below the NMWQCC standard (0.75 mg/L) or not detected in the monitoring wells sampled in 2021.
- The groundwater samples collected from MW-23 during both the May and November 2021 sampling events exceeded the NMWQCC standard (0.62 mg/L) for total xylenes in groundwater. Total xylene concentrations were either below the standard or not detected in the samples collected from the other Site monitoring wells in 2021.
- The Groundwater samples collected from monitoring well MW-40, during both the May and November 2021 sampling events, exceeded the NMWQCC standard (10 mg/L) for nitrate. Groundwater samples collected from monitoring wells MW-33 and MW-54 during the November 2021 sampling event also exceeded the NMWQCC standard for nitrate. Nitrate concentrations were either below the standard or not detected in the remaining monitoring wells sampled in 2021.

Field duplicates were collected from monitoring wells MW-44 during the May 2021 sampling event and from monitoring well MW-48 during the May and November 2021 sampling events. No significant differences were noted between the primary and the duplicate samples.

Detectable concentrations of BTEX constituents were not reported in the trip blanks submitted for analysis during the May and November 2021 groundwater sampling events.

5.0 PLANNED FUTURE ACTIVITIES

Semi-annual groundwater monitoring is planned for the second and fourth calendar quarter of 2022. Groundwater samples will be collected from monitoring wells not containing LNAPL. If encountered while on-site, LNAPL will be hand-bailed, and recovered fluids transported to Basin for disposal. The groundwater samples will be submitted for laboratory analysis of BTEX constituents using EPA Method 8260 and nitrate using EPA Method 300.0. Field duplicates and a trip blank will also be submitted for analysis during each groundwater sampling event.

Monitoring for LNAPL from MW-32, MW-47, MP-1, and TW-2 will continue on a quarterly basis in 2022. If encountered, LNAPL will be manually removed. Enhancements to LNAPL recovery efforts are planned for 2022, and a work plan for these activities will be provided under separate cover.

Further delineation or assessment of hydrocarbons in the vicinity of the former EPNG evaporation pond will be proposed under separate cover. The activities completed in 2022 and their results will be summarized in the 2022 Annual Report, to be submitted by April 1, 2023.

6.0 REFERENCES

Bechtel Environmental, 1988. *Groundwater Investigation Report, El Paso Natural Gas Company's Blanco Plant, San Juan County, New Mexico*. January.

Burlington Environmental, 1992. *Monitoring Well Installation and Testing at the North Flare Pit Area of Blanco Plant*. Prepared for El Paso Natural Gas Company. December.

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Jacobs, 2020. *2019 Annual Groundwater Monitoring Report, North Flare Pit, Bloomfield, New Mexico*. Prepared for El Paso CGP Company LLC. March.

K.W. Brown and Associates, Inc., 1990. *Site Investigation of the Blanco Plant, San Juan County, New Mexico*. Prepared for El Paso Natural Gas Company. February.

MWH, 2012. *2011 Blanco North Flare Pit Annual Report*. Prepared for El Paso CGP Company. March.

Tables

Table 1
LNAPL Recovery Summary
Blanco Plant - North Flare Pit, Bloomfield, New Mexico

Well ID - MW-32	Depth to LNAPL (Feet)	Depth to Water (Feet)	Measured Thickness (Feet)	LNAPL Recovered (gal)	Water Recovered (gal)	Recovery Type
Date						
6/24/2015	58.60	58.82	0.22	N/A	N/A	N/A
12/16/2015	58.45	58.91	0.46	N/A	N/A	N/A
6/29/2016	58.60	59.10	0.50	N/A	N/A	N/A
12/13/2016	sheen	58.93	sheen	N/A	N/A	N/A
4/27/2017	sheen	58.35	sheen	N/A	N/A	N/A
11/13/2018	sheen	58.15	sheen	N/A	N/A	N/A
4/16/2019	58.15	59.31	1.16	0.03	0.1	manual
9/23/2019	58.10	58.20	0.10	<0.01	0.1	manual
10/15/2019	57.99	58.37	0.38	0.03	0.1	manual
4/27/2020	58.13	58.97	0.84	0.13	NR	manual
8/18/2020	58.20	58.40	0.20	0.25	0.41	manual
11/17/2020	58.29	58.40	0.11	0.04	0.48	manual
3/17/2021	58.38	58.40	0.02	0.02	0.49	manual
5/20/2021	58.39	58.45	0.06	0.01	0.15	manual
8/23/2021	58.52	58.62	0.10	0.01	0.50	manual
8/24/2021	58.55	58.55	0.01	<0.01	0.40	manual
11/9/2021	58.49	58.56	0.07	0.02	0.31	manual
			Total:	0.54	3.03	

Well ID - MW-47	Depth to LNAPL (Feet)	Depth to Water (Feet)	Measured Thickness (Feet)	LNAPL Recovered (gal)	Water Recovered (gal)	Recovery Type
Date						
9/23/2019	sheen	46.77	sheen	<0.01	0.1	manual
10/15/2019	46.90	46.91	0.01	<0.01	0.1	manual
4/27/2020	46.71	46.71	<0.01	<0.01	0.4	manual
8/18/2020	46.46	46.46	<0.01	<0.01	0.74	manual
11/17/2020	47.50	47.53	0.03	<0.01	0.1	manual
3/17/2021	ND	47.45	ND	NA	NA	NA
5/20/2021	47.30	47.32	0.02	<0.01	0.11	manual
11/9/2021	47.08	47.10	0.02	0.01	0.33	manual
			Total:	<0.01	1.88	

Well ID - MP-1	Depth to LNAPL (Feet)	Depth to Water (Feet)	Measured Thickness (Feet)	LNAPL Recovered (gal)	Water Recovered (gal)	Recovery Type
Date						
8/24/2021	56.00	63.10	7.10	4.46	1.06	manual
8/29/2021	64.10	ND	>4.4	0.85	0.32	manual
11/9/2021	55.29	62.48	7.19	3.41	0.87	manual
			Total:	8.72	2.24	

Well ID - TW-2	Depth to LNAPL (Feet)	Depth to Water (Feet)	Measured Thickness (Feet)	LNAPL Recovered (gal)	Water Recovered (gal)	Recovery Type
Date						
11/9/2021	61.89	ND	>0.61	0.18	<0.1	Manual
			Total:	0.18	<0.1	

Notes:
N/A = Not Attempted.
ND = Not Detected.
NR = Not Recorded.
* = Includes calculated recovered hydrocarbon vapors.
gal = gallons
LNAPL = Light non-aqueous phase liquid
LNAPL Data for previous years documented in previously-submitted reports.

Table 2. Summary of Soil Analytical Results
2021 Site Monitoring Report
Blanco Plant - North Flare Pit, Bloomfield, New Mexico

Analyte	New Mexico Industrial/Occupational Soil Screening Criteria[a] (mg/kg)	NMOCD Recommended Remediation Action Level[b] (mg/kg)	SB-01					SB-02					SB-03							
			1-2 ft bgs	12-13 ft bgs	19-21 ft bgs	31-32 ft bgs	38-39 ft bgs	1-2 ft bgs	12-14 ft bgs	20-21 ft bgs	28-30 ft bgs	39-40 ft bgs	1-2 ft bgs	13-14 ft bgs	20-21 ft bgs	28-30 ft bgs	33-34 ft bgs	36-37 ft bgs	40-42 ft bgs	43-44 ft bgs
		Sample Date	9/6/2017	9/22/2017	9/22/2017	9/22/2017	9/22/2017	9/6/2017	9/22/2017	9/22/2017	9/22/2017	9/22/2017	9/6/2017	9/22/2017	9/22/2017	9/22/2017	9/22/2017	9/22/2017	9/22/2017	9/22/2017
Volatile Organic Compounds																				
Benzene	87.2	10	<0.000589	<0.000588	<0.000712	<0.000592	<0.000527	<0.000585	<0.000618	<0.000616	**0.093**	**0.00229 J**	<0.000624	<0.000616	<0.000662	**5.73**	**5.59**	**61.8**	**4.28**	**7.32**
Ethylbenzene	368	NE	<0.000954	<0.000952	0.00115 UJ	<0.000958	<0.000854	<0.000947	<0.001	<0.000997	**0.044**	<0.000931	<0.00101	0.000997 UJ	<0.00107	**12.5**	**5.14**	**13.4**	**4.16**	**4.88**
Toluene	61,340	NE	<0.00129	<0.00129	<0.00156	<0.0013	<0.00116	<0.001628	<0.00135	<0.00135	<0.00143	**0.0102**	<0.00137	0.00135 UJ	<0.00145	**11.4**	**66.8**	**261**	**28.1**	**43.1**
Xylenes, Total	4,275	NE	<0.00106	<0.00106	**0.00265 J**	<0.00106	<0.000946	<0.00105	<0.00110	<0.00111	**0.117**	**0.00425 J**	<0.00112	0.0011 UJ	**0.00713**	**182**	**81.9**	**216**	**60.6**	**76.8**
Total BTEX	NE	50[c]	<0.00129	<0.00129	**0.00265 J**	<0.0013	<0.00116	<0.00105	<0.001	<0.00135	**0.25**	**0.02**	<0.00137	0.00135 UJ	**0.00713**	**212**	**159**	**552**	**97**	**132**

Analyte	New Mexico Industrial/Occupational Soil Screening Criteria[a] (mg/kg)	NMOCD Recommended Remediation Action Level[b] (mg/kg)	MW-40							MW-41								MW-42		
			1-2 ft bgs	11-12 ft bgs	19-20 ft bgs	29-30 ft bgs	39-40 ft bgs	50-51 ft bgs	57-58 ft bgs	1-2 ft bgs	12-14 ft bgs	20-22 ft bgs	35-36 ft bgs	40-41 ft bgs	50-51 ft bgs	60-61 ft bgs	64-65 ft bgs	1-2 ft bgs	13-15 ft bgs	20-21 ft bgs
		Sample Date	9/5/2017	9/7/2017	9/7/2017	9/7/2017	9/7/2017	9/7/2017	9/7/2017	9/5/2017	9/13/2017	9/13/2017	9/13/2017	9/13/2017	9/13/2017	9/13/2017	9/13/2017	9/6/2017	9/15/2017	9/15/2017
Volatile Organic Compounds																				
Benzene	87.2	10	<0.000617	<0.000576	<0.000593	<0.000655	<0.000627	<0.000603	<0.000555	<0.00063	<0.000662	<0.000649	<0.000583	<0.00066	<0.000808	<0.000573	<0.000631	<0.00131	<0.000663	<0.000658
Ethylbenzene	368	NE	<0.000999	<0.000933	<0.00096	<0.00106	<0.00102	<0.000976	<0.000898	<0.00102	<0.00107	<0.00105	<0.000943	<0.00107	<0.00131	<0.000928	<0.00102	<0.00213	<0.00107	<0.00106
Toluene	61,340	NE	<0.00135	<0.00126	<0.0013	<0.00144	<0.00137	<0.00132	<0.00122	<0.00138	<0.00145	<0.00142	<0.00128	<0.00145	<0.00177	<0.00126	<0.00138	<0.00288	<0.00145	<0.00144
Xylenes, Total	4,275	NE	<0.00111	<0.00103	<0.0013	<0.00118	<0.00113	<0.00108	<0.000995	<0.00113	<0.00119	<0.00116	<0.00105	<0.00118	<0.00145	<0.00103	<0.00113	<0.00236	<0.00119	<0.00118
Total BTEX	NE	50[c]	<0.00135	<0.00126	<0.0013	<0.00144	<0.00137	<0.00132	<0.00122	<0.00138	<0.00145	<0.00142	<0.00128	<0.00145	<0.00177	<0.00126	<0.00138	<0.00288	<0.00145	<0.00144

Analyte	New Mexico Industrial/Occupational Soil Screening Criteria[a] (mg/kg)	NMOCD Recommended Remediation Action Level[b] (mg/kg)	MW-42		MW-43						MW-44								MW-45	
			30-31 ft bgs	40-41 ft bgs	1-2 ft bgs	14-15 ft bgs	20-21 ft bgs	25-26 ft bgs	41-42 ft bgs	54-55 ft bgs	1-2 ft bgs	14-16 ft bgs	20-21 ft bgs	31-32 ft bgs	41-42 ft bgs	53-54 ft bgs	62-63 ft bgs	69-70 ft bgs	1-2 ft bgs	13-14 ft bgs
		Sample Date	9/15/2017	9/15/2017	9/5/2017	9/8/2017	9/8/2017	9/8/2017	9/8/2017	9/8/2017	9/6/2017	9/10/2017	9/10/2017	9/10/2017	9/10/2017	9/10/2017	9/10/2017	9/10/2017	9/5/2017	9/11/2017
Volatile Organic Compounds																				
Benzene	87.2	10	<0.000666	<0.000645	<0.00131	<0.00068	<0.000619	<0.000564	<0.000655	<0.000583	<0.0012	**0.0025 J**	<0.000592	<0.000671	<0.000562	<0.000654	<0.000511	<0.000581	<0.00089	<0.000644
Ethylbenzene	368	NE	<0.00108	<0.00104	<0.00212	<0.0011	<0.001	<0.000913	<0.00106	**0.00644**	<0.00194	<0.00108	<0.000958	<0.00109	<0.00091	<0.00106	**0.00293 J**	<0.00094	<0.00144	<0.00104
Toluene	61,340	NE	<0.00146	<0.00141	<0.00286	<0.00149	<0.00135	<0.00123	<0.00143	<0.00128	<0.00262	<0.00146	<0.0013	<0.00147	<0.00123	<0.00143	<0.00112	<0.00127	<0.00195	<0.00141
Xylenes, Total	4,275	NE	<0.00119	<0.00116	<0.00235	<0.00122	<0.00111	<0.00101	<0.00117	**0.0139**	<0.00215	<0.00119	<0.00106	<0.0012	<0.00101	<0.00117	<0.000917	<0.00104	<0.0016	<0.00116
Total BTEX	NE	50[c]	<0.00146	<0.00141	<0.00286	<0.00149	<0.00135	<0.00123	<0.00143	**0.02**	<0.00262	**0.0025 J**	<0.0013	<0.00147	<0.00123	<0.00143	**0.00293 J**	<0.00127	<0.00195	<0.00141

Analyte	New Mexico Industrial/Occupational Soil Screening Criteria[a] (mg/kg)	NMOCD Recommended Remediation Action Level[b] (mg/kg)	MW-45							MW-46						MW-47				
			23-24 ft bgs	31-32 ft bgs	35-36 ft bgs	39-40 ft bgs	48-49 ft bgs	59-60 ft bgs	69-70 ft bgs	1-2 ft bgs	12-13 ft bgs	25-26 ft bgs	35-36 ft bgs	41-42 ft bgs	49-50 ft bgs	1-2 ft bgs	12-13 ft bgs	20-21 ft bgs	30-31 ft bgs	39-40 ft bgs
		Sample Date	9/12/2017	9/12/2017	9/12/2017	9/12/2017	9/12/2017	9/12/2017	4/12/2017	9/6/2017	9/18/2017	9/18/2017	9/18/2017	9/18/2017	9/18/2017	9/6/2017	9/19/2017	9/19/2017	9/19/2017	9/19/2017
Volatile Organic Compounds																				
Benzene	87.2	10	**0.0011 J**	**0.102**	**0.224 J**	**1.22**	**25.1**	**20.1**	**21.6**	<0.000704	<0.000685	<0.000645	<0.000657	<0.000704	<0.000549	<0.00106	<0.000685	<0.000664	<0.000586	**0.0064**
Ethylbenzene	368	NE	<0.000997	**0.101**	**0.440 J**	**4.82**	**29.5**	**5.51**	**16**	<0.00114	<0.00111	<0.00104	<0.00106	<0.00114	<0.000889	<0.00172	<0.00111	<0.00107	<0.000949	**0.0438**
Toluene	61,340	NE	**0.00135 J**	<0.0012	**0.498 J**	**4.87**	**45.9**	**4.92**	**20.7**	<0.00154	<0.0015	<0.00141	<0.00144	<0.00154	<0.0012	<0.00232	<0.0015	<0.00145	<0.00128	<0.00113
Xylenes, Total	4,275	NE	<0.00235	**0.00316 J**	**4.02 J**	**54.8**	**317**	**77.1**	**155**	<0.00126	<0.00123	<0.00116	<0.00118	<0.00126	<0.000985	<0.0019	<0.00123	<0.00119	<0.00105	**0.104**
Total BTEX	NE	50[c]	**0.0**	**0.2**	**5.2**	**66**	**418**	**108**	**213**	<0.00154	<0.0015	<0.00141	<0.00144	<0.00154	<0.0012	<0.00232	<0.0015	<0.00145	<0.00128	**0.2**

Table 2. Summary of Soil Analytical Results
Site Characterization Report
Blanco Plant - North Flare Pit, Bloomfield, New Mexico

Analyte	New Mexico Industrial/Occupational Soil Screening Criteria[a] (mg/kg)	NMOCD Recommended Remediation Action Level[b] (mg/kg)	MW-47			MW-48						MW-49							MW-50		
			44-45 ft bgs	46-47 ft bgs	47-49 ft bgs	1-2 ft bgs	12-13 ft bgs	21-22 ft bgs	29-30 ft bgs	36-37 ft bgs	39-40 ft bgs	1-2 ft bgs	14-15 ft bgs	19-20 ft bgs	29-30 ft bgs	39-40 ft bgs	49-50 ft bgs	56-57 ft bgs	1-2 ft bgs	12-13 ft bgs	19-20 ft bgs
		Sample Date	9/19/2017	9/19/2017	9/19/2017	9/6/2017	9/21/2017	9/21/2017	9/21/2017	9/21/2017	9/21/2017	8/15/2019	8/17/2019	8/17/2019	8/17/2019	8/17/2019	8/17/2019	8/17/2019	8/14/2019	8/18/2019	8/18/2019
Volatile Organic Compounds																					
Benzene	87.2	10	**6.08**	**0.049**	**1.82**	<0.00107	<0.00067	<0.000632	<0.00053	**0.00581**	**3.88**	<0.000603	<0.000625	<0.000612	<0.000599	<0.000644	<0.000634	<0.000626	0.000651 UJ	<0.000653	<0.00068
Ethylbenzene	368	NE	**1.67**	**0.00398 J**	**0.524**	<0.00173	<0.00108	<0.00102	<0.000858	**0.0102**	**1.8**	<0.000976	<0.00101	<0.000991	<0.00097	<0.00104	<0.00103	<0.00101	0.00105 UJ	<0.00106	<0.0011
Toluene	61,340	NE	<0.18	**0.00727**	**9.25**	<0.00234	<0.00147	<0.00138	<0.00116	**0.0377**	**23.3**	<0.00132	<0.00137	<0.00134	<0.00131	<0.00141	<0.00139	<0.00137	0.00143 UJ	<0.00143	<0.00149
Xylenes, Total	4,275	NE	**40.4**	**0.132**	**5.29**	<0.00191	<0.0012	<0.00113	<0.000951	**0.156**	**25.2**	<0.00108	<0.00112	<0.0011	<0.00107	<0.00116	<0.00114	<0.00112	0.00117 UJ	<0.00117	<0.00122
Total BTEX	NE	50[c]	**48**	**0.2**	**17**	<0.00234	<0.00147	<0.00138	<0.00116	**0.2**	**54**	<0.00132	<0.00137	<0.00134	<0.00131	<0.00141	<0.00139	<0.00137	0.00143 UJ	<0.00143	<0.00149

Analyte	New Mexico Industrial/Occupational Soil Screening Criteria[a] (mg/kg)	NMOCD Recommended Remediation Action Level[b] (mg/kg)	MW-50				MW-51						MW-52					MW-53			
			29-30 ft bgs	39-40 ft bgs	49-50 ft bgs	57-58 ft bgs	1-2 ft bgs	13-14 ft bgs	19-20 ft bgs	29-30 ft bgs	39-40 ft bgs	49-50 ft bgs	1-2 ft bgs	10-11 ft bgs	19-20 ft bgs	29-30 ft bgs	36-37 ft bgs	1-2 ft bgs	9-10 ft bgs	19-20 ft bgs	29-30 ft bgs
		Sample Date	8/18/2019	8/18/2019	8/18/2019	8/18/2019	8/14/2019	8/19/2019	8/19/2019	8/19/2019	8/19/2019	8/19/2019	8/14/2019	8/24/2019	8/24/2019	8/24/2019	8/24/2019	8/15/2019	8/22/2019	8/22/2019	8/22/2019
Volatile Organic Compounds																					
Benzene	87.2	10	<0..000675	<0.000725	<0.000705	<0.000669	<0.000607	<0.00314	<0.00322	<0.00313	<0.000649	**1.36**	<0.000568	<0.000647	<0.000629	<0.000671	<0.000641	<0.000674	<0.000633	<0.000647	<0.000597
Ethylbenzene	368	NE	<0.00109	<0.00117	<0.00114	<0.00108	<0.000983	<0.00509	<0.00521	<0.00507	<0.00105	**1.12**	<0.00092	<0.00105	<0.00102	<0.00109	<0.00104	<0.00109	<0.00102	<0.00105	<0.000967
Toluene	61,340	NE	<0.00148	<0.00159	<0.00154	<0.00147	<0.00133	<0.00688	<0.00705	<0.00686	**0.00174 J**	**5.86**	<0.00124	<0.00142	<0.00138	<0.00147	<0.00141	<0.00148	<0.00139	<0.00142	<0.00131
Xylenes, Total	4,275	NE	<0.00121	<0.0013	<0.00126	<0.0012	<0.00109	<0.00563	<0.00578	<0.00561	**0.0105**	**18.2**	<0.00102	<0.00116	<0.00113	<0.0012	<0.00115	<0.00121	<0.00114	<0.00116	<0.00107
Total BTEX	NE	50[c]	<0.00148	<0.00159	<0.00154	<0.00147	<0.00133	<0.00688	<0.00705	<0.00686	**0.01**	**27**	<0.00124	<0.00142	<0.00138	<0.00147	<0.00141	<0.00148	<0.00139	<0.00142	<0.00131

Analyte	New Mexico Industrial/Occupational Soil Screening Criteria[a] (mg/kg)	NMOCD Recommended Remediation Action Level[b] (mg/kg)	MW-53	MW-54					MW-55					MW-56		MW-57			MP-1		
			32-33 ft bgs	0-1 ft bgs	10-11 ft bgs	19-20 ft bgs	29-30 ft bgs	39-40 ft bgs	1-2 ft bgs	10-11 ft bgs	19-20 ft bgs	29-30 ft bgs	34-35 ft bgs	0-1 ft bgs	41-42 ft bgs	30-32.5 ft bgs	43.5-46 ft bgs	58.5-61 ft bgs	29-31 ft bgs	39-41 ft bgs	51-53 ft bgs
		Sample Date	8/22/2019	8/14/2019	8/20/2019	8/20/2019	8/20/2019	8/20/2019	8/14/2019	8/15/2019	8/15/2019	8/15/2019	8/15/2019	8/16/2019	8/17/2019	7/15/2021	7/15/2021	7/15/2021	7/19/2021	7/19/2021	7/19/2021
Volatile Organic Compounds																					
Benzene	87.2	10	<0.000673	<0.00894	<0.000644	<0.000594	<0.000642	<0.00058	<0.00061	<0.000695	<0.000634	<0.000642	**0.00542**	<0.000742	<0.000748	<0.00079	<0.00086	<0.00070	**0.021 J**	<0.00022	**0.0066 J**
Ethylbenzene	368	NE	<0.00109	<0.00145	<0.00104	<0.000962	<0.00104	<0.000939	<0.000988	**0.00134 J**	<0.00103	<0.00104	<0.00105	<0.0012	<0.00121	<0.0012	<0.0013	<0.0010	**0.043 J**	**0.0012 J**	**0.36**
Toluene	61,340	NE	<0.00147	<0.00196	<0.00141	<0.0013	<0.00141	<0.00127	<0.00134	<0.00152	<0.00139	<0.00141	**0.0079**	<0.00163	<0.00164	<0.00072	<0.00078	<0.00064	**0.48**	<0.00036	**0.18**
Xylenes, Total	4,275	NE	<0.00121	<0.0016	<0.00115	<0.00107	<0.00115	<0.00104	<0.00109	**0.00134 J**	<0.00114	<0.00115	**0.0133**	<0.00133	<0.00134	<0.0022	<0.0024	<0.0020	**2.4**	**0.0021 J**	**2.8**
Total BTEX	NE	50[c]	<0.00147	<0.00196	<0.00141	<0.0013	<0.00141	<0.00127	<0.00134	**0.003**	<0.00139	<0.00141	**0.03**	<0.00163	<0.00164	<0.00072	<0.00078	<0.00064	**2.944**	**0.0033**	**3.3466**

Analyte	New Mexico Industrial/Occupational Soil Screening Criteria[a] (mg/kg)	NMOCD Recommended Remediation Action Level[b] (mg/kg)	MP-2		MP-3				TW-2		TW-3		TW-4	
			35-37.5 ft bgs	49-51 ft bgs	30-32.5 ft bgs	47.5-50 ft bgs	58.5-61 ft bgs	70.5-73 ft bgs	31-33.5 ft bgs	37.5-40 ft bgs	44-46 ft bgs	48-50 ft bgs	44-46 ft bgs	66-68.5 ft bgs
		Sample Date	7/18/2021	7/18/2021	7/17/2021	7/17/2021	7/17/2021	7/17/2021	7/20/2021	7/20/2021	7/18/2021	7/18/2021	7/16/2021	7/16/2021
Volatile Organic Compounds														
Benzene	87.2	10	<0.00023	**0.0054**	**0.22 J**	**5.2**	**1.3**	**0.0011 J**	**0.029 J**	**0.0019**	**0.0009 J**	**0.025 J**	**1.5**	**0.55**
Ethylbenzene	368	NE	**0.0026 J**	**1.8**	**0.27 J**	**19**	**0.69 J**	**0.0026 J**	**0.77**	**0.025**	**0.0065**	**0.62**	**1.4**	**1.2**
Toluene	61,340	NE	**0.00065 J**	**0.13**	**1.5**	**9.6**	**1.8**	**0.013**	**0.36**	**0.007**	**0.0007 J**	**0.14**	**2.7**	**2.1**
Xylenes, Total	4,275	NE	**0.017**	**14**	**14**	**93**	**16**	**0.11**	**6.2**	**0.12**	**0.022**	**3.5**	**27**	**19**
Total BTEX	NE	50[c]	**0.02025**	**15.9354**	**15.99**	**126.8**	**19.79**	**0.123**	**7.359**	**0.1539**	**0.0301**	**4.285**	**32.6**	**22.85**

Notes:
[a] New Mexico Environment Department, Risk Assessment Guidance for Site Investigations and Remediation, Volume I, Soil Screening Guidance for Human Health Risk Assessments. Table A-1 NMED Soil Screening Levels, June 2019
[b] Calculated following Section IV.A.2.b. of the NMOCD Guidelines for Remediation of Leaks, Spills and Releases. August 13, 1993. The depth to groundwater at the site is less than 50 feet, which generates a Total Ranking Score of 20 that indicates the listed Remediation Action Level is required.
[c] Calculated following Section IV.A.2.b. of the NMOCD Guidelines for Remediation of Leaks, Spills, and Releases. August 13, 1993. The recommended Remediation Action Level is for a summation of all BTEX components.
Bold text indicates detected concentration
Shaded text indicates detected concentration exceeding the screening criteria or recommended action level
< = Analyte was not detected above the method detection limit
BTEX = benzene, toluene, ethylbenzene, and xylenes
ft bgs = feet below ground surface
J = Analyte detected at concentration above instrument detection limit but below method detection limit
mg/kg = milligrams per kilogram
NE = not established
NMED = New Mexico Environment Department
NMOCD = New Mexico Oil Conservation Division

Table 3. Summary of Soil Analytical Results
2021 Site Monitoring Report
Blanco Plant - North Flare Pit, Bloomfield, New Mexico

Analyte	New Mexico Industrial/Occupational Soil Screening Criteria[a] (mg/kg)	NMOCD Recommended Remediation Action Level[b] (mg/kg)	MW-57		
			30-32.5 ft bgs	43.5-46 ft bgs	58.5-61 ft bgs
		Sample Date	7/15/2021	7/15/2021	7/15/2021
Chloride	NE	600	<2.6	**7.0 J**	**6.6 J**

Table 4
Groundwater Elevation Data
Blanco Gas Plant - North Flare Pit, Bloomfield, New Mexico

Monitoring Well	TOC Elevation (ft amsl)	Measurement Date	Depth to LNAPL (ft btoc)	LNAPL Thickness (feet)	Depth to Water (ft btoc)	GW Elevation (ft amsl)
MW-23	5634.33	9/25/1992	NA	NA	57.11	5577.22
		2/1/1993	NA	NA	NA	NA
		2/25/1993	NA	NA	NA	NA
		6/8/1993	NA	NA	NA	NA
		9/29/1993	NA	NA	NA	NA
		2/10/1994	NA	NA	NA	NA
		5/13/1994	NA	NA	NA	NA
		8/22/1994	NA	NA	NA	NA
		11/13/2000	NA	NA	57.02	5577.31
		3/26/2001	NA	NA	57.07	5577.26
		5/30/2002	NA	NA	57.08	5577.25
		6/2/2003	NA	NA	57.12	5577.21
		8/4/2003	NA	NA	57.06	5577.27
		9/3/2003	NA	NA	57.11	5577.22
		12/16/2003	NA	NA	57.31	5577.02
		5/17/2004	NA	NA	57.14	5577.19
		8/23/2004	NA	NA	57.04	5577.29
		11/22/2004	NA	NA	57.13	5577.2
		2/23/2005	NA	NA	57.13	5577.2
		5/23/2005	NA	NA	57.22	5577.11
		8/30/2005	NA	NA	57.18	5577.15
		11/17/2005	NA	NA	57.29	5577.04
		2/21/2006	NA	NA	57.25	5577.08
		6/8/2006	NA	NA	57.44	5576.89
		8/15/2006	NA	NA	57.40	5576.93
		11/3/2006	NA	NA	57.41	5576.92
		2/26/2007	NA	NA	57.44	5576.89
		5/29/2007	NA	NA	57.47	5576.86
		8/22/2007	NA	NA	57.49	5576.84
		11/28/2007	NA	NA	57.62	5576.71
		2/20/2008	NA	NA	57.57	5576.76
		5/22/2008	NA	NA	57.40	5576.93
		8/21/2008	NA	NA	57.70	5576.63
		11/6/2008	NA	NA	57.81	5576.52
		2/17/2009	NA	NA	57.69	5576.64
		5/11/2009	NA	NA	57.83	5576.50
		8/26/2009	NA	NA	57.93	5576.4
		2/18/2010	NA	NA	57.89	5576.44
		8/25/2010	NA	NA	58.11	5576.22
		2/23/2011	NA	NA	58.04	5576.29
		8/31/2011	NA	NA	58.12	5576.21
		12/17/2013	ND	ND	58.58	5575.75
		6/18/2014	ND	ND	58.53	5575.80
		12/16/2014	ND	ND	58.70	5575.63
		6/24/2015	ND	ND	58.91	5575.42
		12/16/2015	ND	ND	58.82	5575.51
		6/29/2016	ND	ND	58.96	5575.37

Table 4
Groundwater Elevation Data
Blanco Gas Plant - North Flare Pit, Bloomfield, New Mexico

Monitoring Well	TOC Elevation (ft amsl)	Measurement Date	Depth to LNAPL (ft btoc)	LNAPL Thickness (feet)	Depth to Water (ft btoc)	GW Elevation (ft amsl)
MW-23	5634.33	12/13/2016	ND	ND	58.98	5575.35
		4/27/2017	ND	ND	58.94	5575.39
		11/14/2017	ND	ND	59.13	5575.20
		1/28/2018	ND	ND	59.31	5575.02
		4/2/2018	ND	ND	59.10	5575.23
		11/13/2018	ND	ND	59.40	5574.93
		4/16/2019	ND	ND	59.31	5575.02
		9/23/2019	ND	ND	59.39	5574.94
		10/15/2019	ND	ND	59.42	5574.91
		4/27/2020	ND	ND	60.40	5573.93
		8/18/2020	ND	ND	59.41	5574.92
		11/17/2020	ND	ND	59.53	5574.80
		5/20/2021	ND	ND	59.38	5574.95
		8/23/2021	ND	ND	59.39	5574.94
		8/29/2021	ND	ND	59.31	5575.02
		11/9/2021	ND	ND	59.36	5574.97
MW-32	5650.00	8/26/2009	NA	NA	59.09	5590.91
		2/18/2010	NA	NA	58.93	5591.07
		2/22/2011	NA	NA	58.98	5591.02
		12/17/2013	ND	ND	59.19	5590.81
		6/18/2014	ND	ND	58.83	5591.17
		12/16/2014	ND	ND	58.61	5591.39
		6/24/2015	58.60	0.22	58.82	5591.35
		12/16/2015	58.45	0.46	58.91	5591.44
		6/29/2016	58.60	0.50	59.10	5591.28
		12/13/2016	Sheen	Sheen	58.93	5591.07
		4/27/2017	Sheen	Sheen	58.35	5591.65
		11/14/2017	ND	ND	58.30	5591.70
		1/28/2018	ND	ND	58.48	5591.52
		4/2/2018	ND	ND	58.37	5591.63
		11/13/2018	Sheen	Sheen	58.15	5591.85
		4/16/2019	58.15	1.16	59.31	5591.56
		9/23/2019	58.10	0.10	58.20	5591.88
		10/15/2019	57.99	0.38	58.37	5591.92
		4/27/2020	58.13	0.84	58.97	5591.66
		8/18/2020	58.20	0.20	58.40	5591.75
		11/17/2020	58.29	0.11	58.40	5591.68
		3/17/2021	58.38	0.02	58.40	5591.62
		5/20/2021	58.39	0.06	58.45	5591.60
		8/23/2021	58.52	0.10	58.62	5591.46
		8/24/2021	58.55	<0.01	58.55	5591.45
		8/25/2021	ND	0.00	59.16	5590.84
		8/29/2021	ND	0.00	59.11	5590.89
		11/9/2021	58.49	0.07	58.56	5591.49
MW-33	5625.44	6/8/2006	NA	NA	77.58	5547.86
		8/15/2006	NA	NA	71.71	5553.73
		11/3/2006	NA	NA	71.07	5554.37
		2/26/2007	NA	NA	70.33	5555.11
		5/29/2007	NA	NA	70.71	5554.73
		8/22/2007	NA	NA	71.29	5554.15
		11/28/2007	NA	NA	51.66	5573.78
		2/20/2008	NA	NA	52.51	5572.93

Table 4
Groundwater Elevation Data
Blanco Gas Plant - North Flare Pit, Bloomfield, New Mexico

Monitoring Well	TOC Elevation (ft amsl)	Measurement Date	Depth to LNAPL (ft btoc)	LNAPL Thickness (feet)	Depth to Water (ft btoc)	GW Elevation (ft amsl)
MW-33	5625.44	5/22/2008	NA	NA	67.47	5557.97
		8/21/2008	NA	NA	69.81	5555.63
		11/6/2008	NA	NA	71.07	5554.37
		2/17/2009	NA	NA	70.33	5555.11
		5/11/2009	NA	NA	69.70	5555.74
		8/26/2009	NA	NA	69.60	5555.84
		2/18/2010	NA	NA	68.90	5556.54
		8/25/2010	NA	NA	68.90	5556.54
		2/22/2011	NA	NA	68.54	5556.9
		8/31/2011	NA	NA	69.18	5556.26
		12/17/2013	ND	ND	68.40	5557.04
		6/18/2014	ND	ND	68.70	5556.74
		12/16/2014	ND	ND	69.19	5556.25
		6/24/2015	ND	ND	69.15	5556.29
		12/16/2015	ND	ND	70.70	5554.74
		6/29/2016	ND	ND	58.16	5567.28
		12/13/2016	ND	ND	63.50	5561.94
		4/27/2017	ND	ND	61.85	5563.59
		11/14/2017	ND	ND	49.98	5575.46
		1/28/2018	ND	ND	49.39	5576.05
		4/2/2018	ND	ND	49.20	5576.24
		11/13/2018	ND	ND	48.93	5576.51
		4/16/2019	ND	ND	49.34	5576.10
		9/23/2019	ND	ND	49.30	5576.14
		10/15/2019	ND	ND	49.19	5576.25
		4/27/2020	ND	ND	49.08	5576.36
		8/18/2020	ND	ND	49.44	5576.00
		11/17/2020	ND	ND	49.62	5575.82
		5/20/2021	ND	ND	49.30	5576.14
		Well Plugged and Abandoned on July 16, 2021				
MW-40	5621.43	11/14/2017	ND	ND	64.25	5557.18
		1/28/2018	ND	ND	64.23	5557.20
		4/2/2018	ND	ND	63.69	5557.74
		11/13/2018	ND	ND	63.72	5557.71
		4/16/2019	ND	ND	63.34	5558.09
		9/23/2019	ND	ND	63.53	5557.90
		10/15/2019	ND	ND	63.48	5557.95
		4/27/2020	ND	ND	63.34	5558.09
		8/18/2020	ND	ND	63.51	5557.92
		11/17/2020	ND	ND	63.59	5557.84
		5/20/2021	ND	ND	63.40	5558.03
		11/9/2021	ND	ND	63.62	5557.81
MW-41	5629.52	11/14/2017	ND	ND	89.48	5540.04
		1/28/2018	ND	ND	86.85	5542.67
		4/2/2018	ND	ND	83.29	5546.23
		11/13/2018	ND	ND	77.70	5551.82
		4/16/2019	ND	ND	75.44	5554.08
		9/23/2019	ND	ND	73.02	5556.50
		10/15/2019	ND	ND	73.09	5556.43
		4/27/2020	ND	ND	71.20	5558.32
		8/18/2020	ND	ND	71.06	5558.46
		11/17/2020	ND	ND	71.01	5558.51
		5/20/2021	ND	ND	70.74	5558.78
		11/9/2021	ND	ND	70.90	5558.62

Table 4
Groundwater Elevation Data
Blanco Gas Plant - North Flare Pit, Bloomfield, New Mexico

Monitoring Well	TOC Elevation (ft amsl)	Measurement Date	Depth to LNAPL (ft btoc)	LNAPL Thickness (feet)	Depth to Water (ft btoc)	GW Elevation (ft amsl)
MW-42	5623.91	11/14/2017	ND	ND	69.10	5554.81
		1/28/2018	ND	ND	69.07	5554.84
		4/2/2018	ND	ND	68.71	5555.20
		11/13/2018	ND	ND	69.05	5554.86
		4/16/2019	ND	ND	69.96	5553.95
		9/23/2019	ND	ND	69.35	5554.56
		10/15/2019	ND	ND	69.30	5554.61
		4/27/2020	ND	ND	69.42	5554.49
		8/18/2020	ND	ND	69.81	5554.10
		11/17/2020	ND	ND	69.91	5554.00
		5/20/2021	ND	ND	69.83	5554.08
		11/9/2021	ND	ND	70.10	5553.81
MW-43	5626.44	11/14/2017	ND	ND	69.19	5557.25
		1/28/2018	ND	ND	69.40	5557.04
		4/2/2018	ND	ND	68.55	5557.89
		11/13/2018	ND	ND	68.78	5557.66
		4/16/2019	ND	ND	68.63	5557.81
		9/23/2019	ND	ND	69.11	5557.33
		10/15/2019	ND	ND	69.11	5557.33
		4/27/2020	ND	ND	69.26	5557.18
		8/18/2020	ND	ND	69.74	5556.70
		11/17/2020	ND	ND	69.95	5556.49
		5/20/2021	ND	ND	70.11	5556.33
		11/9/2021	ND	ND	70.51	5555.93
MW-44	5626.89	11/14/2017	ND	ND	68.31	5558.58
		1/28/2018	ND	ND	68.45	5558.44
		4/2/2018	ND	ND	68.12	5558.77
		11/13/2018	ND	ND	68.01	5558.88
		4/16/2019	ND	ND	67.65	5559.24
		9/23/2019	ND	ND	67.79	5559.10
		10/15/2019	ND	ND	67.81	5559.08
		4/27/2020	ND	ND	67.79	5559.10
		8/18/2020	ND	ND	68.48	5558.41
		11/17/2020	ND	ND	68.12	5558.77
		5/20/2021	ND	ND	68.12	5558.77
		8/23/2021	ND	ND	68.28	5558.61
		8/29/2021	ND	ND	68.08	5558.81
		11/9/2021	ND	ND	68.26	5558.63
MW-45	5633.95	11/14/2017	ND	ND	73.13	5560.82
		1/28/2018	ND	ND	72.84	5561.11
		4/2/2018	ND	ND	72.35	5561.60
		11/13/2018	ND	ND	72.18	5561.77
		4/16/2019	ND	ND	72.16	5561.79
		9/23/2019	ND	ND	72.67	5561.28
		10/15/2019	ND	ND	72.69	5561.26
		4/27/2020	ND	ND	73.05	5560.90
		8/18/2020	ND	ND	73.61	5560.34
		11/17/2020	ND	ND	74.00	5559.95
		5/20/2021	ND	ND	74.58	5559.37
		8/23/2021	ND	ND	75.01	5558.94
		8/29/2021	ND	ND	75.11	5558.84
		11/9/2021	ND	ND	75.30	5558.65

Table 4
Groundwater Elevation Data
Blanco Gas Plant - North Flare Pit, Bloomfield, New Mexico

Monitoring Well	TOC Elevation (ft amsl)	Measurement Date	Depth to LNAPL (ft btoc)	LNAPL Thickness (feet)	Depth to Water (ft btoc)	GW Elevation (ft amsl)
MW-46	5650.99	11/14/2017	ND	ND	47.32	5603.67
		1/28/2018	ND	ND	46.56	5604.43
		4/2/2018	ND	ND	46.45	5604.54
		11/13/2018	ND	ND	47.38	5603.61
		4/16/2019	ND	ND	47.15	5603.84
		9/23/2019	ND	ND	48.49	5602.50
		10/15/2019	ND	ND	47.90	5603.09
		4/27/2020	ND	ND	46.74	5604.25
		8/18/2020	ND	ND	48.45	5602.54
		11/17/2020	ND	ND	48.10	5602.89
		5/20/2021	ND	ND	47.70	5603.29
		11/9/2021	ND	ND	49.10	5601.89
MW-47	5637.74	11/14/2017	ND	ND	71.82	5565.92
		1/28/2018	ND	ND	62.02	5575.72
		4/2/2018	ND	ND	55.34	5582.40
		11/13/2018	ND	ND	48.22	5589.52
		4/16/2019	ND	ND	47.06	5590.68
		9/23/2019	Sheen	Sheen	46.77	5590.97
		10/15/2019	46.90	0.01	46.91	5590.84
		4/27/2020	46.71	<0.01	46.71	5591.03
		8/18/2020	46.46	<0.01	46.46	5591.28
		11/17/2020	47.50	0.03	47.53	5590.23
		3/17/2021	ND	ND	47.45	5590.29
		5/20/2021	47.30	0.02	47.32	5590.44
		8/23/2021	ND	ND	47.33	5590.41
		8/24/2021	ND	ND	47.64	5590.10
		8/29/2021	ND	ND	47.52	5590.22
		11/9/2021	47.08	0.02	47.10	5590.66
MW-48	5651.4	11/14/2017	ND	ND	57.82	5593.58
		1/28/2018	ND	ND	55.15	5596.25
		4/2/2018	ND	ND	54.25	5597.15
		11/13/2018	ND	ND	54.15	5597.25
		4/16/2019	ND	ND	54.13	5597.27
		9/23/2019	ND	ND	53.84	5597.56
		10/15/2019	ND	ND	53.88	5597.52
		4/27/2020	ND	ND	53.68	5597.72
		8/18/2020	ND	ND	53.62	5597.78
		11/17/2020	ND	ND	53.58	5597.82
		5/20/2021	ND	ND	53.58	5597.82
		8/23/2021	ND	ND	53.58	5597.82
		8/24/2021	ND	ND	53.72	5597.68
		8/29/2021	ND	ND	53.63	5597.77
		11/9/2021	ND	ND	53.60	5597.80
MW-49	5631.77	9/23/2019	ND	ND	72.03	5559.74
		10/15/2019	ND	ND	72.27	5559.50
		4/27/2020	ND	ND	72.64	5559.13
		8/18/2020	ND	ND	73.04	5558.73
		11/17/2020	ND	ND	73.13	5558.64
		5/20/2021	ND	ND	73.70	5558.07
		11/9/2021	ND	ND	DRY	N/A

Table 4
Groundwater Elevation Data
Blanco Gas Plant - North Flare Pit, Bloomfield, New Mexico

Monitoring Well	TOC Elevation (ft amsl)	Measurement Date	Depth to LNAPL (ft btoc)	LNAPL Thickness (feet)	Depth to Water (ft btoc)	GW Elevation (ft amsl)
MW-50	5643.04	9/23/2019	ND	ND	75.32	5567.72
		10/15/2019	ND	ND	75.45	5567.59
		4/27/2020	ND	ND	75.40	5567.64
		8/18/2020	ND	ND	75.62	5567.42
		11/17/2020	ND	ND	75.64	5567.40
		5/20/2021	ND	ND	75.77	5567.27
		11/9/2021	ND	ND	DRY	N/A
MW-51	5639.50	9/23/2019	ND	ND	61.90	5577.60
		10/15/2019	ND	ND	58.68	5580.82
		4/27/2020	ND	ND	51.82	5587.68
		8/18/2020	ND	ND	51.30	5588.20
		11/17/2020	ND	ND	51.12	5588.38
		5/20/2021	ND	ND	50.88	5588.62
		8/23/2021	ND	ND	50.93	5588.57
		8/29/2021	ND	ND	51.03	5588.47
		11/9/2021	ND	ND	50.89	5588.61
MW-52	5643.83	9/23/2019	ND	ND	52.41	5591.42
		10/15/2019	ND	ND	51.98	5591.85
		4/27/2020	ND	ND	49.90	5593.93
		8/18/2020	ND	ND	49.90	5593.93
		11/17/2020	ND	ND	49.93	5593.90
		5/20/2021	ND	ND	49.94	5593.89
		8/23/2021	ND	ND	50.94	5592.89
		8/24/2021	ND	ND	51.90	5591.93
		8/29/2021	ND	ND	50.66	5593.17
		11/9/2021	ND	ND	50.37	5593.46
MW-53	5656.17	9/23/2019	ND	ND	59.90	5596.27
		10/15/2019	ND	ND	47.92	5608.25
		4/27/2020	ND	ND	43.35	5612.82
		8/18/2020	ND	ND	43.27	5612.90
		11/17/2020	ND	ND	43.29	5612.88
		5/20/2021	ND	ND	43.07	5613.10
		11/9/2021	ND	ND	43.08	5613.09
MW-54	5651.30	9/23/2019	ND	ND	59.55	5591.75
		10/15/2019	ND	ND	59.56	5591.74
		4/27/2020	ND	ND	59.38	5591.92
		8/18/2020	ND	ND	59.30	5592.00
		11/17/2020	ND	ND	59.41	5591.89
		5/20/2021	ND	ND	59.28	5592.02
		11/9/2021	ND	ND	58.82	5592.48
MW-55	5633.54	9/23/2019	ND	ND	49.96	5583.58
		10/15/2019	ND	ND	49.29	5584.25
		4/27/2020	ND	ND	48.85	5584.69
		8/18/2020	ND	ND	48.91	5584.63
		11/17/2020	ND	ND	48.93	5584.61
		5/20/2021	ND	ND	48.59	5584.95
		11/9/2021	ND	ND	48.70	5584.84
MW-56	5627.88	9/23/2019	ND	ND	58.11	5569.77
		10/15/2019	ND	ND	58.45	5569.43
		4/27/2020	ND	ND	59.45	5568.43
		8/18/2020	ND	ND	59.80	5568.08
		11/17/2020	ND	ND	59.80	5568.08
		5/20/2021	ND	ND	DRY	N/A
		11/9/2021	ND	ND	DRY	N/A

Table 4
Groundwater Elevation Data
Blanco Gas Plant - North Flare Pit, Bloomfield, New Mexico

Monitoring Well	TOC Elevation (ft amsl)	Measurement Date	Depth to LNAPL (ft btoc)	LNAPL Thickness (feet)	Depth to Water (ft btoc)	GW Elevation (ft amsl)
MW-57	**5626.42**	8/29/2021	ND	ND	75.83	5550.59
		11/9/2021	ND	ND	72.80	5553.62
MP-1	**5648.53**	7/21/2021	ND	ND	58.63	5589.90
		8/23/2021	ND	ND	55.92	5592.61
		8/24/2021	56.00	7.10	63.10	5590.76
		8/29/2021	64.20	>4.4	ND	N/A
		11/9/2021	55.29	7.19	62.48	5591.44
MP-2	**5639.67**	7/19/2021	ND	ND	DRY	N/A
		8/23/2021	ND	ND	DRY	N/A
		8/29/2021	ND	ND	DRY	N/A
		11/9/2021	ND	ND	DRY	N/A
MP-3	**5633.96**	7/19/2021	ND	ND	75.09	5558.87
		8/23/2021	ND	ND	74.97	5558.99
		8/29/2021	ND	ND	75.03	5558.93
		11/9/2021	ND	ND	75.25	5558.71
TW-2	**5649.45**	8/29/2021	ND	ND	DRY	N/A
		11/9/2021	61.89	>0.61	ND	N/A
TW-3	**5639.78**	8/29/2021	ND	ND	DRY	N/A
		11/9/2021	ND	ND	DRY	N/A
TW-4	**5633.78**	8/29/2021	ND	ND	DRY	N/A
		11/9/2021	ND	ND	75.26	5558.52

Notes:
Monitoring wells abandoned prior to 2017 have been removed from the table.
Static groundwater level is calculated by: [Top of casing elevation – depth to water + (free product thickness × 0.75)]
ft amsl = feet above mean sea level
ft btoc = feet below top of casing
NA = Historical data not available
NM = not measured
LNAPL = Light non-aqueous phase liquid
ND = LNAPL not detected
N/A = Eleveation not determined
TOC = top of casing

Table 5
Summary of BTEX Groundwater Analytical Results
Blanco Gas Plant - North Flare Pit, Bloomfield, New Mexico

Monitoring Well	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
NMWQCC Standard (mg/L):		0.01	0.75	0.75	0.62
MW-23	9/25/1992	2.77	0.221	7.69	6.09
	2/1/1993	2.9	3.5	0.19	4.1
	2/25/1993	2.9	0.19	3.5	4.1
	6/8/1993	1.68	0.0301	1.85	2.906
	9/29/1993	2.133	0.216	1.807	3.823
	2/10/1994	2.09	0.151	1.15	2.66
	5/13/1994	3.53	0.255	0.852	2.15
	8/22/1994	3.27	0.212	0.353	1.176
	11/13/2000	3.7	<0.025	0.84	1.4
	3/26/2001	7.2	<0.025	0.52	1.3
	5/30/2002	9.3	<0.05	0.36	1.5
	6/2/2003	8.92	<0.010	0.337	1.45
	8/4/2003	2.25	<0.010	0.1	0.337
	9/3/2003	3.86	0.0078	0.208	0.768
	12/16/2003	5.08	<0.05	<0.05	0.219
	5/17/2004	8.02	<0.013	0.208	1.49
	8/23/2004	4.48	<0.025	0.16	0.966
	11/22/2004	3.36	<0.001	<0.001	<0.002
	2/23/2005	7.45	<0.001	0.321	1.38
	5/23/2005	9.9	0.0365	0.27	1.65
	8/30/2005	3.76	<0.005	0.0532	0.199
	11/17/2005	5.28	0.0026	0.203	0.863
	2/21/2006	4.9	0.0049	0.0567	0.71
	6/8/2006	3.47	<0.001	<0.001	0.373
	8/15/2006	6.49	0.0266	0.165	1.27
	11/3/2006	3.92	0.0263	0.103	0.735
	2/26/2007	8.91	0.0307	0.276	1.6
	5/29/2007	6.41	<0.011	0.276	1.24
	8/22/2007	5.11	0.0145	0.172	0.855
	11/28/2007	5.82	<0.05	0.147	1.08
	2/20/2008	8.29 B	0.0093	0.271	1.87 B
	5/22/2008	4.86	<0.1	0.14	0.891
	8/21/2008	5.92	<0.1	0.146	1.25
	11/6/2008	6.59	0.0042	0.186	1.4
	2/17/2009	6.01	<0.05	0.219	1.52
	5/11/2009	6.74	0.0054	0.162	1.53
	8/26/2009	6.71	0.0358 J	0.278	1.72
	2/18/2010	6.55	<0.1	0.227	1.5
	8/25/2010	5.5	<0.025	0.152	1.22
	2/23/2011	5.84	0.0088	0.16	1.23
	8/31/2011	6.27	0.0038	0.174	1.38
	12/17/2013	6.34	0.00965 J	0.101	0.964
	6/19/2014	8.58	<0.0075	0.149	1.48
	12/17/2014	9.7	<0.0075	0.141	1.41
	6/24/2015	7.64	<0.00396	0.224	0.983
	12/16/2015	8.09	<0.00396	0.169	1.36
	6/29/2016	9.13	<0.00396	0.181	1.58
	12/13/2016	9.13	<0.0099	0.206	1.66
	4/27/2017	7.89	<0.0099	0.163	1.21
	11/14/2017	8.61	0.0037 J	0.166	1.13
	4/2/2018	8.13	<0.0099	0.206	1.69
	11/14/2018	9.87	<0.0099	0.174	1.16
	4/17/2019	10.5	<0.00495	0.211	1.26
	9/24/2019	10.7	0.0139	0.362	1.82
	4/28/2020	8.75	<0.00396	0.159	0.945
	11/18/2020	7.8 J-	<0.021	0.087 J-	0.51 J-

Table 5
Summary of BTEX Groundwater Analytical Results
Blanco Gas Plant - North Flare Pit, Bloomfield, New Mexico

Monitoring Well	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
NMWQCC Standard (mg/L):		**0.01**	**0.75**	**0.75**	**0.62**
	5/20/2021	**9.0**	<0.021	**0.25**	**1.4**
	11/10/2021	**7.7**	<0.021	**0.13**	**0.75**
MW-32	8/26/2009	**9.05**	**16.3**	**0.48**	**6.39**
	2/18/2010	**11.3**	**16.2**	**0.397**	**4.96**
	2/22/2011	**9.45**	**12.1**	**0.386**	**4.63**
	12/17/2013	**5.88**	**0.54**	**0.303**	**4.3**
	6/19/2014	**6.65 JH**	**2.24**	**0.324**	**5.41**
	12/17/2014	**1.57**	**0.736**	**0.098**	**1.57**
	6/24/2015	**3.91**	**0.0807**	**0.504**	**4.08**
	12/16/2015	**4.2**	**1.95**	**0.499**	**7.56**
	6/29/2016	**7.01**	**15**	**0.624**	**24.8**
	12/13/2016	**5.84**	**2.14**	**0.57**	**6.74**
	4/27/2017	**10.2**	**8.65**	**0.497**	**6.53**
	11/14/2017	**6.53**	**11**	**0.447**	**5.91**
	4/2/2018	**4.92**	**4.38**	**0.516**	**7.73**
	11/14/2018	**4.42**	**0.389 J**	**0.384**	**4.98**
	4/17/2019	Sample not collected. LNAPL in well.			
	10/15/2019	Sample not collected. LNAPL in well.			
	4/28/2020	Sample not collected. LNAPL in well.			
	11/18/2020	Sample not collected. LNAPL in well.			
	5/20/2021	Sample not collected. LNAPL in well.			
	11/9/2021	Sample not collected. LNAPL in well.			
MW-33	6/8/2006	**0.0011**	**0.0042**	<0.001	**0.0045**
	8/15/2006	**0.0301**	**0.0377**	<0.05	**0.0246**
	11/3/2006	<0.001	**0.0013**	<0.001	<0.002
	2/26/2007	<0.001	<0.001	<0.001	<0.002
	5/29/2007	<0.001	<0.001	<0.001	<0.002
	8/22/2007	<0.001	<0.001	<0.001	<0.002
	11/28/2007	<0.002	<0.002	<0.002	<0.006
	2/20/2008	**0.00099 UB**	**0.001 UB**	<0.001	**0.001 UB**
	5/22/2008	<0.001	<0.001	<0.001	<0.002
	8/21/2008	<0.001	<0.001	<0.001	<0.003
	11/6/2008	**0.0021**	<0.002	<0.002	**0.002 J**
	2/17/2009	**0.0015**	**0.00030 J**	<0.001	**0.0022**
	5/11/2009	<0.002	<0.002	<0.002	<0.006
	8/26/2009	<0.001	<0.001	<0.001	<0.002
	2/18/2010	**0.00098 J**	<0.001	<0.001	**0.00099 J**
	8/25/2010	**0.0004 J**	<0.001	<0.001	<0.002
	2/22/2011	**0.00055 J**	<0.001	<0.001	<0.001
	8/31/2011	**0.00045 J**	<0.001	<0.001	<0.001
	12/17/2013	**0.00501**	**0.000221 J**	**0.000110 J**	**0.000444 J**
	6/19/2014	<0.00008	<0.00015	<0.00011	<0.00026
	12/17/2014	<0.00008	<0.00015	<0.00011	<0.00026
	6/24/2015	<0.000176	<0.000198	<0.000212	<0.000366
	12/16/2015	**0.000185**	**0.000634**	<0.000212	**0.000422**
	6/29/2016	<0.000176	**0.000544 J**	<0.000212	**0.00131 J**
	12/13/2016	<0.000176	<0.000198	<0.000212	<0.000366
	4/27/2017	<0.000176	<0.000198	<0.000212	<0.000366
	11/14/2017	<0.000176	<0.000198	<0.000212	<0.000366
	4/2/2018	<0.000176	<0.000198	<0.000212	<0.000366
	11/14/2018	<0.000176	<0.000198	<0.000212	<0.000366
	4/17/2019	<0.000176	<0.000198	<0.000212	<0.000366
	9/24/2019	**0.00035 J**	<0.0002	<0.00021	<0.00037
	4/28/2020	<0.000176	<0.000198	<0.000212	<0.000366
	11/18/2020	<0.00038	<0.00041	<0.00050	<0.0016
	5/20/2021	<0.00038	<0.00041	<0.00050	<0.0016

Table 5
Summary of BTEX Groundwater Analytical Results
Blanco Gas Plant - North Flare Pit, Bloomfield, New Mexico

Monitoring Well	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
NMWQCC Standard (mg/L):		**0.01**	**0.75**	**0.75**	**0.62**
MW-40	11/14/2017	<0.000176	<0.000198	<0.000212	<0.000366
	4/2/2018	<0.000176	<0.000198	<0.000212	<0.000366
	11/14/2018	<0.000176	<0.000198	<0.000212	<0.000366
	4/17/2019	<0.000176	<0.000198	<0.000212	<0.000366
	9/24/2019	<0.00018	<0.0002	<0.00021	<0.00037
	4/27/2020	<0.000176	<0.000198	<0.000212	<0.000366
	11/18/2020	<0.00038	<0.00041	<0.00050	<0.0016
	5/20/2021	<0.00038	<0.00041	<0.00050	<0.0016
	11/10/2021	<0.00013	<0.00041	<0.00050	<0.0016
MW-41	11/14/2017	**0.000239 J**	**0.000536 J**	<0.000212	<0.000366
	4/2/2018	<0.000176	<0.000198	<0.000212	<0.000366
	11/14/2018	<0.000176	<0.000198	<0.000212	<0.000366
	4/16/2019	<0.000176	<0.000198	<0.000212	<0.000366
	9/24/2019	<0.00018	<0.0002	<0.00021	<0.00037
	4/27/2020	<0.000176	<0.000198	<0.000212	<0.000366
	11/18/2020	<0.00038	<0.00041	<0.00050	<0.0016
	5/20/2021	<0.00038	<0.00041	<0.00050	<0.0016
	11/10/2021	<0.00013	<0.00041	<0.00050	<0.0016
MW-42	11/14/2017	<0.000176	<0.000198	<0.000212	<0.000366
	4/2/2018	<0.000176	<0.000198	<0.000212	<0.000366
	11/14/2018	<0.000176	<0.000198	<0.000212	<0.000366
	4/16/2019	<0.000176	<0.000198	<0.000212	**0.000403 J**
	9/23/2019	<0.00018	<0.0002	<0.00021	<0.00037
	4/27/2020	<0.000176	<0.000198	<0.000212	<0.000366
	11/18/2020	<0.00038	<0.00041	<0.00050	<0.0016
	5/20/2021	<0.00038	<0.00041	<0.00050	<0.0016
	11/10/2021	<0.00013	<0.00041	<0.00050	<0.0016
MW-43	11/14/2017	<0.000176	<0.000198	<0.000212	<0.000366
	4/2/2018	<0.000176	<0.000198	**0.000226 J**	<0.000366
	11/14/2018	<0.000176	<0.000198	<0.000212	**0.000967 J**
	4/17/2019	<0.000176	<0.000198	<0.000212	<0.000366
	9/24/2019	<0.00018	<0.0002	<0.00021	**0.00059 J**
	4/28/2020	<0.000176	<0.000198	<0.000212	<0.000366
	11/18/2020	<0.00038	<0.00041	<0.00050	<0.0016
	5/20/2021	**0.00051 J**	<0.00041	<0.00050	<0.0016
	11/10/2021	**0.00044 J**	<0.00041	<0.00050	<0.0016
MW-44	11/14/2017	**0.227**	**0.000245 J**	**0.0177**	**0.000451 J**
	4/2/2018	**0.675**	<0.00099	**0.00198 J**	<0.00183
	11/14/2018	**0.646**	<0.00099	**0.00421 J**	<0.00183
	4/16/2019	**1.43**	<0.00198	**0.0161**	<0.00366
	9/24/2019	**1.32**	<0.00396	**0.0122 J**	<0.00732
	4/28/2020	**0.796**	<0.00396	**0.013 J**	<0.00732
	11/18/2020	**0.34 J-**	<0.00082	**0.0058 J-**	<0.0032
Duplicate	11/18/2020 (Dup-01)	**0.25 J-**	<0.00041 UJ	**0.0062 J-**	<0.0016 UJ
	5/20/2021	**0.34**	<0.00082	**0.0093**	<0.0032
Duplicate	5/20/2021 (Dup-02)	**0.35**	<0.00082	**0.010**	<0.0032 J
	11/10/2021	**0.57**	<0.0021	**0.016**	<0.0080
MW-45	11/14/2017	**1.25**	**0.0053**	**0.201**	**1.66**
	4/2/2018	**1.65**	**0.0116**	**0.254**	**0.0524**
	11/14/2018	**6.47**	**0.107**	**0.103**	**0.315**
	4/17/2019	**2.5 J**	<0.00396	<0.00424	<0.00732
	9/24/2019	**2.86**	**0.126**	**0.0678**	**0.353**
	4/28/2020	**0.15**	**0.00143**	**0.000996 J**	**0.00465**
	11/18/2020	**0.32**	**0.0056**	**0.0021**	**0.012 J**
	5/20/2021	**1.6**	**0.084**	**0.047**	**0.31**
	11/10/2021	**0.26**	<0.00082	**0.0045**	**0.0038 J**

Table 5
Summary of BTEX Groundwater Analytical Results
Blanco Gas Plant - North Flare Pit, Bloomfield, New Mexico

Monitoring Well	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
NMWQCC Standard (mg/L):		**0.01**	**0.75**	**0.75**	**0.62**
MW-46	11/14/2017	<0.000176	<0.000198	<0.000212	<0.000366
	4/2/2018	<0.000176	<0.000198	<0.000212	<0.000366
	11/14/2018	**0.000258 J**	<0.000198	<0.000212	<0.000366
	4/16/2019	**0.000234 J**	<0.000198	<0.000212	<0.000366
	9/23/2019	<0.00018	<0.0002	<0.00021	<0.00037
	4/28/2020	<0.000176	<0.000198	<0.000212	<0.000366
	11/18/2020	<0.00038	<0.00041	<0.00050	<0.0016
	5/20/2021	<0.00038	<0.00041	<0.00050	<0.0016
	11/20/2021	<0.00013	<0.00041	<0.00050	<0.0016
MW-47	11/14/2017	**0.831**	**0.0935**	**0.0529**	**0.327**
	4/2/2018	**1.33**	**0.0185 J**	**0.130**	**0.256**
	11/14/2018	**2.28**	**0.239**	**0.314**	**2.79**
	4/16/2019	**2.55**	**0.239**	**0.379**	**4.55**
	10/15/2019	Sample not collected. LNAPL in well.			
	4/28/2020	Sample not collected. LNAPL in well.			
	11/18/2020	Sample not collected. LNAPL in well.			
	5/20/2021	Sample not collected. LNAPL in well.			
	11/9/2021	Sample not collected. LNAPL in well.			
MW-48	11/14/2017	**0.969**	**0.994**	**0.0241**	**0.294**
	4/2/2018	**1.47**	**0.0216**	**0.0440**	**0.107**
	11/14/2018	**1.21**	**0.00487 J**	**0.0346**	**0.00919 J**
	4/16/2019	**0.706**	**0.00164**	**0.0491**	**0.00238**
	9/24/2019	**1.4**	**0.00245 J**	**0.0351**	**0.00813 J**
	4/28/2020	**1.8**	**0.000852 J**	**0.0342**	**0.000465 J**
	11/18/2020	**1.8**	<0.0041	**0.019**	<0.016
Duplicate	11/18/2020 (Dup-02)	**1.8**	<0.0041	**0.020**	<0.016
	5/20/2021	**3.1**	<0.0082	**0.056**	<0.032
Duplicate	5/20/2021 (Dup-01)	**2.4**	<0.0041	**0.052**	<0.016
	11/10/2021	**2.2**	<0.0041	**0.033**	<0.016
Duplicate	11/10/2021 (Dup-01)	**2.2**	<0.0082	**0.022**	<0.032
MW-49	9/24/2019	<0.00018	**0.0002 J**	<0.00021	<0.00037
	4/28/2020	<0.000176	<0.000198	<0.000212	<0.000366
	11/18/2020	<0.00038	<0.00041	<0.00050	<0.0016
	5/20/2021	Sample not collected. Dry well.			
	11/10/2021	Sample not collected. Dry well.			
MW-50	9/23/2019	<0.00018	<0.0002	<0.00021	<0.00037
	4/28/2020	<0.000176	<0.000198	<0.000212	<0.000366
	11/18/2020	<0.00038	<0.00041	<0.00050	<0.0016
	5/20/2021	Sample not collected. Dry well.			
	11/10/2021	Sample not collected. Dry well.			
MW-51	9/24/2019	**0.201**	**0.0621**	**0.00655**	**0.161**
	4/28/2020	<0.000176	<0.000198	**0.000331 J**	<0.000366
Duplicate	4/28/2020 (MD-51)	<0.000176	<0.000198	**0.000394 J**	<0.000366
	11/18/2020	**0.58**	**0.0048 J**	**0.029**	**0.032 J**
	5/20/2021	**0.66 F1J-**	**0.0025 J**	**0.027 F1F2JJ-**	<0.0080 F1F2UJ
	11/10/2021	**0.51**	**0.0020**	**0.016**	**0.0052 J**
MW-52	9/24/2019	<0.00018	<0.0002	**0.00043 J**	<0.00037
	4/28/2020	<0.000176	<0.000198	<0.000212	<0.000366
	11/18/2020	**0.23 J-**	<0.00041	**0.0072 J-**	<0.0016
	5/20/2021	**0.30**	<0.00082	**0.0092**	<0.0032
	11/10/2021	**0.32**	**0.0011 J**	**0.0041**	**0.0058 J**
MW-53	9/24/2019	<0.00018	<0.0002	<0.00021	<0.00037
	4/27/2020	<0.000176	<0.000198	<0.000212	<0.000366
	11/18/2020	<0.00038	<0.00041	<0.00050	<0.0016
	5/20/2021	<0.00038	<0.00041	<0.00050	<0.0016
	11/10/2021	<0.00013	<0.00041	<0.00050	<0.0016

Table 5
Summary of BTEX Groundwater Analytical Results
Blanco Gas Plant - North Flare Pit, Bloomfield, New Mexico

Monitoring Well	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
NMWQCC Standard (mg/L):		**0.01**	**0.75**	**0.75**	**0.62**
MW-54	9/24/2019	<0.00018	<0.0002	<0.00021	<0.00037
	4/28/2020	<0.000176	<0.000198	<0.000212	<0.000366
Duplicate	4/28/2020 (MD-54)	<0.000176	<0.000198	<0.000212	<0.000366
	11/18/2020	<0.00038	<0.00041	<0.00050	<0.0016
	5/20/2021	<0.00038	<0.00041	<0.00050	<0.0016
	11/10/2021	<0.00013	<0.00041	<0.00050	<0.0016
MW-55	9/24/2019	<0.00018	<0.0002	<0.00021	**0.00051 J**
	4/27/2020	**0.00697**	**0.00253**	<0.000212	**0.000644 J**
	11/18/2020	**0.0048**	**0.00097 J**	<0.00050	<0.0016
	5/20/2021	**0.0051**	**0.0011**	<0.00050	<0.0016
	11/10/2021	**0.004**	**0.0023**	<0.00050	<0.0016
MW-56	9/24/2019	<0.00018	<0.0002	<0.00021	<0.00037
	4/28/2020	<0.000176	<0.000198	<0.000212	<0.000366
	11/18/2020	<0.00038	<0.00041	<0.00050	<0.0016
	5/20/2021	Sample not collected. Dry well.			
	11/10/2021	Sample not collected. Dry well.			
MW-57	11/10/2021	<0.00013	<0.00041	<0.00050	<0.0016

Notes:
Analytical data from monitoring wells abandoned prior to 2017 has been removed from the table
Bolded text indicates a detected concentration
Highlighted cells and bold text indicates the concentration exceeded NMWQCC standard
* Monitoring well MW-19 formed a restriction in the casing in 2004 which worsened over time. For the final 2 quarters of sampling, a small diameter pipe was still insertable, which allowed for sample collection.

B = Analyte detected in an associated QA/QC blank; sample result unaffected
F1 = MS and/or MSD recovery exceeds control limits
F2 = MS/MSD RPD exceeds control limits
J = Analyte detected at concentration above instrument detection limit but below method detection limit
J- = The analyte was positively identified; the quantitation is an estimation with a potential low bias
JH = Estimated with a high bias, actual concentration may be lower than the concentration reported
LNAPL = Light non-aqueous phase liquid
UB = Analyte detected in an associated QA/QC blank; sample result considered non-detect
UJ = The method detection limit is estimated
< = The analyte was not detected above the listed method detection limit
Highlighted cell in yellow indicates the historic concentration exceeded the 2019 updated NMWQCC standard

Table 6
Summary of Nitrate Groundwater Analytical Results
Blanco Gas Plant - North Flare Pit, Bloomfield, New Mexico

Monitoring Well	Sample Date	Nitrate (mg/L)
NMWQCC Standard (mg/L):		10
MW-23	4/2/2018	<0.628
	9/24/2019	**1.26 J**
	4/28/2020	<0.0251
	11/18/2020	**0.10**
	5/20/2021	<0.33
	11/10/2021	<0.063
MW-32	4/2/2018	<0.628
	9/24/2019	NC
	4/28/2020	NC
	11/18/2020	NC
	5/20/2021	NC
	11/10/2021	NC
MW-33	12/17/2014	**19**
	11/14/2017	**80.9**
	4/2/2018	**154**
	11/14/2018	**87.8**
	4/17/2019	**72**
	9/24/2019	**80.4**
	4/28/2020	<0.0251
	11/18/2020	**54 J-**
	5/20/2021	**57**
MW-40	11/14/2017	<0.017
	4/2/2018	<0.628
	11/14/2018	**12.5**
	4/17/2019	**1.17**
	9/24/2019	**0.58**
	4/27/2020	**15.4**
	11/18/2020	**40 J-**
	5/20/2021	**51**
	11/10/2021	**54 HJ-**
MW-41	11/14/2017	<0.017
	4/2/2018	<0.628
	11/14/2018	<0.0251
	4/16/2019	<0.0251
	9/24/2019	<0.0251
	4/27/2020	<0.502
	11/18/2020	**4.9**
	5/20/2021	**5.1**
	11/10/2021	**6.6**
MW-42	4/2/2018	<0.628
	9/24/2019	<0.0251
	4/27/2020	<0.502
	11/18/2020	<0.033
	5/20/2021	<0.33
	11/10/2021	<0.063
MW-43	4/2/2018	<0.628
	9/24/2019	<0.0251
	4/28/2020	<0.0251
	11/18/2020	<0.033
	5/20/2021	<0.33
	11/10/2021	<0.063

Table 6
Summary of Nitrate Groundwater Analytical Results
Blanco Gas Plant - North Flare Pit, Bloomfield, New Mexico

Monitoring Well	Sample Date	Nitrate (mg/L)
NMWQCC Standard (mg/L):		10
MW-44	4/2/2018	<0.628
	9/24/2019	<0.0251
	4/28/2020	<0.0251 R
	11/18/2020	**0.089 J**
	11/18/2020	**0.095 J**
	5/20/2021	<0.33
Duplicate	5/20/2021 (Dup-02)	<0.33
	11/10/2021	<0.063
MW-45	4/2/2018	<0.628
	9/24/2019	<0.0251
	4/28/2020	<0.0251
	11/18/2020	<0.033
	5/20/2021	<0.33
	11/10/2021	**0.27**
MW-46	4/2/2018	<0.628
	9/23/2019	<0.0251
	4/28/2020	<0.0251
	11/18/2020	<0.033
	5/20/2021	**0.39 J**
	11/10/2021	<0.063
MW-47	4/2/2018	<0.628
	9/24/2019	NC
	4/28/2020	NC
	11/18/2020	NC
	5/20/2021	NC
	11/10/2021	NC
MW-48	4/2/2018	<0.628
	9/24/2019	<0.0251
	4/28/2020	<0.0251
	11/18/2020	<0.033
Duplicate	11/18/2020 (Dup-02)	<0.033 UJ
	5/20/2021	<0.033
Duplicate	5/20/2021 (Dup-01)	<0.033
	11/10/2021	<0.063
Duplicate	11/10/2021 (Dup-01)	<0.063
MW-49	9/24/2019	<0.0251
	4/28/2020	<0.0251
	11/18/2020	<0.033
	5/20/2021	NC
	11/10/2021	NC
MW-50	9/23/2019	**16.7 J**
	4/28/2020	**4.08**
	11/18/2020	**4.2**
	5/20/2021	NC
	11/10/2021	NC
MW-51	9/24/2019	<0.0251
	4/28/2020	<0.0251
	4/28/2020 (MD-51)	<0.0251
	11/18/2020	<0.033
	5/20/2021	**0.33**
	11/10/2021	<0.063

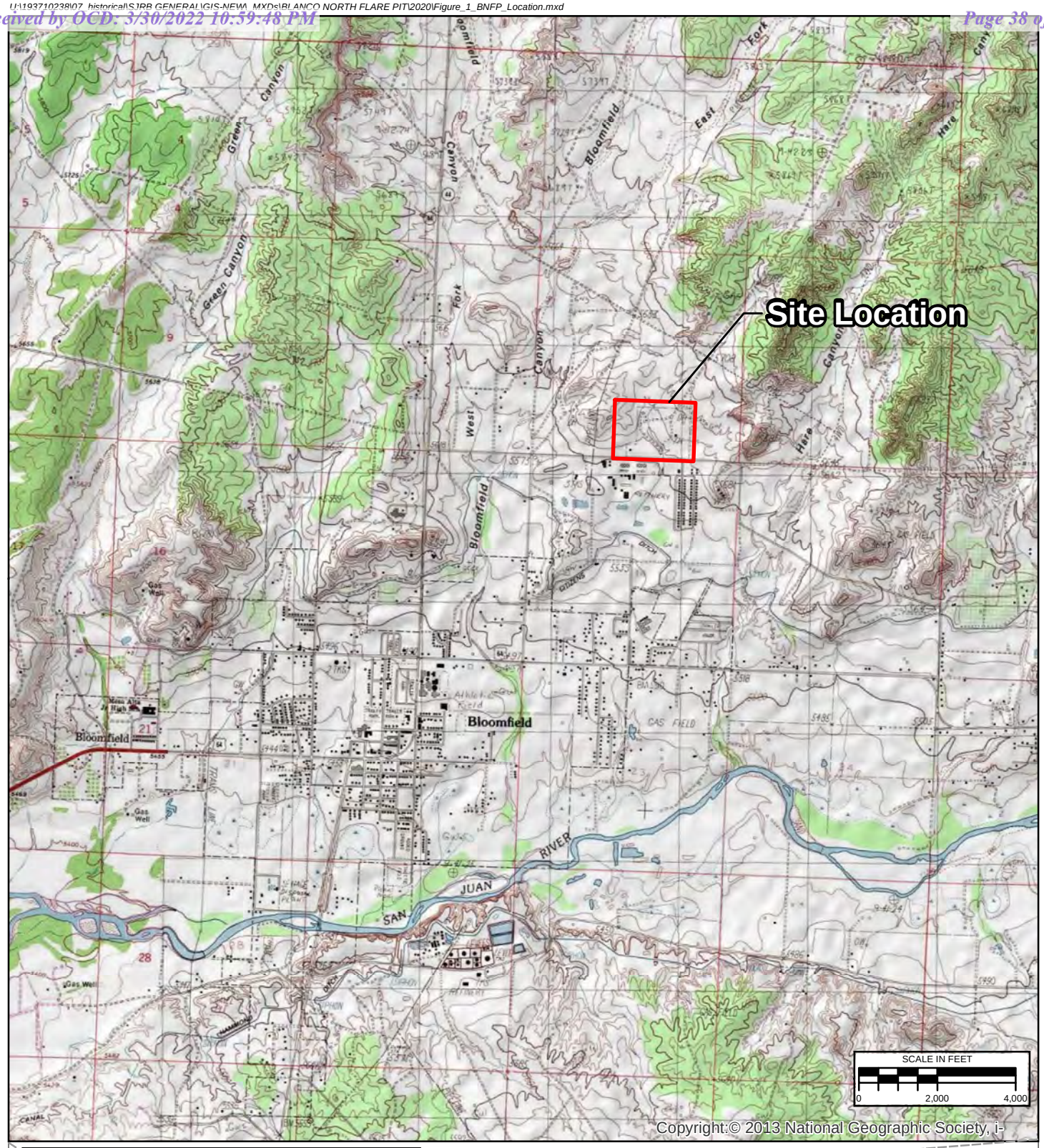
Table 6
Summary of Nitrate Groundwater Analytical Results
Blanco Gas Plant - North Flare Pit, Bloomfield, New Mexico

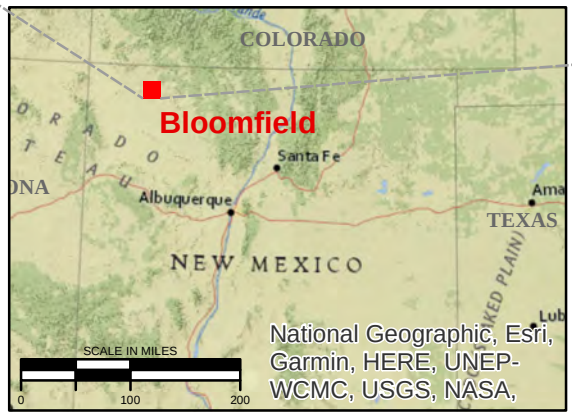
Monitoring Well	Sample Date	Nitrate (mg/L)
NMWQCC Standard (mg/L):		10
MW-52	9/24/2019	**1.04**
	4/28/2020	<0.0251
	11/18/2020	<0.033
	5/20/2021	<0.033
	11/10/2021	<0.063
MW-53	9/24/2019	<0.0251 R
	4/27/2020	<0.502 J
	11/18/2020	<0.033
	5/20/2021	<0.033
	11/10/2021	<0.063
MW-54	9/24/2019	<0.0251
	4/28/2020	<0.0251
	4/28/2020 (MD-54)	<0.0251
	11/18/2020	**13 J-**
	5/20/2021	**8.6**
	11/10/2021	**14 HJ-**
MW-55	9/24/2019	<0.0251
	4/27/2020	<0.502
	11/18/2020	<0.033
	5/20/2021	<0.033
	11/10/2021	<0.063
MW-56	9/24/2019	<0.0251
	4/28/2020	<0.0251
	11/18/2020	**0.46**
	5/20/2021	NC
	11/10/2021	NC
MW-57	11/10/2021	**4.9**

Notes:
Bolded text indicates detected concentration
Highlighted and bold cells indicate concentration exceeded NMWQCC standard
< = analyte not detected above listed method detection limit
H = sample was prepped or analyzed beyond the specified holding time
J = reported result estimated
J- = The analyte was positively identified; the quantitation is an estimation with a potential low bias

NC = sample not collected from location
R = analytical result rejectected due to poor recovery on the matrix spike/matrix spike duplicate
UJ = The method detection limit is estimated

Figures





N

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	2/9/2021	SLG	SLG	SRV

TITLE
SITE LOCATION

Stantec

PROJECT
BLANCO NORTH FLARE PIT
BLOOMFIELD, NEW MEXICO

FIGURE
1

\\Us0389-ppfss01\shared_projects\193710238\07_historical\SJRB GENERAL\GIS-NEW_MXDs\BLANCO NORTH FLARE PIT\2021\Figure_1_BNFP_Site_Map_2021-09.mxd

MW-53
Former North Flare Pit
MW-48
MW-32
MW-52
SB-01
TW-2
MW-54
SB-03
MP-1
SB-02
Leo Manning #100S (Hilcorp)
MW-47
MP-2
MW-51
TW-3
MW-46
MW-20
Kutz Hydrocarbon Recovery Facility
Former Aztec Drips Storage And Separation
W-1
MW-55
MW-23
MP-3
MW-45
Former EPNG Evaporation Pond
MW-31
SB-22
TW-4
MW-50
SB-25
MW-44
MW-19
MW-56
MW-49
SW-1
MW-26
Former Drips Storage
MW-27
SB-21
MW-43
MW-24
MW-42
MW-57
MW-33
Substatation
Scrubber
MW-41
MW-40
MW-2
Rd 4900
Blanco Gas Plant

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

LEGEND

- MONITORING WELL
- TEST WELL
- MONITORING POINT
- ABANDONED/DESTROYED MONITORING WELL
- SOIL BORING
- FENCE
- GATE
- FORMER SITE FEATURES
- FORMER FLARE PIT
- STUDY AREA

N

SCALE IN FEET

0 100 200

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	9/2/2021	SAH	SAH	SRV

TITLE:

SITE PLAN

PROJECT:

BLANCO PLANT - NORTH FLARE PIT
BLOOMFIELD, NEW MEXICO

Stantec

Figure No.: 2

\\Corp.ads\data\Virtual_Workspace\workgroup\1937\Active\193700102\03_data\gis_cad\gis\GIS-NEW_MXDs\BLANCO NORTH FLARE PIT\2021\Figure_3_BNFP_SARM_2021.mxd

MW-48		
Analyte	Depth	Result (mg/kg)
Total BTEX	36-37(ft. bgs)	54

SB-03		
Analyte	Depth	Result (mg/kg)
Benzene	36-37(ft. bgs)	61.8
Total BTEX	28-30(ft. bgs)	212
Total BTEX	33-34(ft. bgs)	159
Total BTEX	36-37(ft. bgs)	552
Total BTEX	40-42(ft. bgs)	97
Total BTEX	43-44(ft. bgs)	132

MP-3		
Analyte	Depth	Result (mg/kg)
Total BTEX	47.5-50(ft. bgs)	126.8

MW-45		
Analyte	Depth	Result (mg/kg)
Benzene	48-49(ft. bgs)	25.1
Benzene	59-60(ft. bgs)	20.1
Benzene	69-70(ft. bgs)	21.6
Total BTEX	39-40(ft. bgs)	66
Total BTEX	48-49(ft. bgs)	418
Total BTEX	59-60(ft. bgs)	108
Total BTEX	69-70(ft. bgs)	213

MW-53
Former North Flare Pit
MW-48
MW-32
MW-52
SB-01
TW-2
MW-54
SB-03
MP-1
SB-02
Leo Manning #100S (Hilcorp)
MW-47
MP-2
MW-51
TW-3
MW-46
MW-20
Kutz Hydrocarbon Recovery Facility
Former Aztec Drips Storage And Separation
W-1
MW-55
MW-23
MP-3
MW-45
Former EPNG Evaporation Pond
MW-31
SB-22
MW-50
TW-4
SB-25
MW-44
MW-19
MW-56
MW-49
SW-1
MW-26
Former Drips Storage
MW-27
SB-21
MW-43
MW-24
MW-42
MW-57
MW-33
Substatation
Scrubber
MW-41
MW-40
MW-2
Rd 4900
Blanco Gas Plant

Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

LEGEND

- MONITORING WELL
- TEST WELL
- MONITORING POINT
- ABANDONED/DESTROYED MONITORING WELL
- SOIL BORING
- FENCE
- GATE
- FORMER SITE FEATURES
- FORMER FLARE PIT
- STUDY AREA

NOTES:

BTEX = benzene, toluene, ethylbenzene, and xylenes
ft bgs = feet below ground surface
mg/kg = milligram(s) per kilogram

ANALYTE	NMOCD STANDARDS
B = Benzene	10 mg/kg
BTEX = Benzene, toluene, ethylbenzene, xylenes	50 mg/kg
TPH = Total Petroleum Hydrocarbons	100 mg/kg
Cl = Chloride	600 mg/kg

N

SCALE IN FEET
0 100 200

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	2022-03-25	SAH	SAH	SRV

TITLE:

SOIL EXCEEDANCE MAP

PROJECT:

BLANCO PLANT - NORTH FLARE PIT
BLOOMFIELD, NEW MEXICO

Stantec

Figure No.: 3

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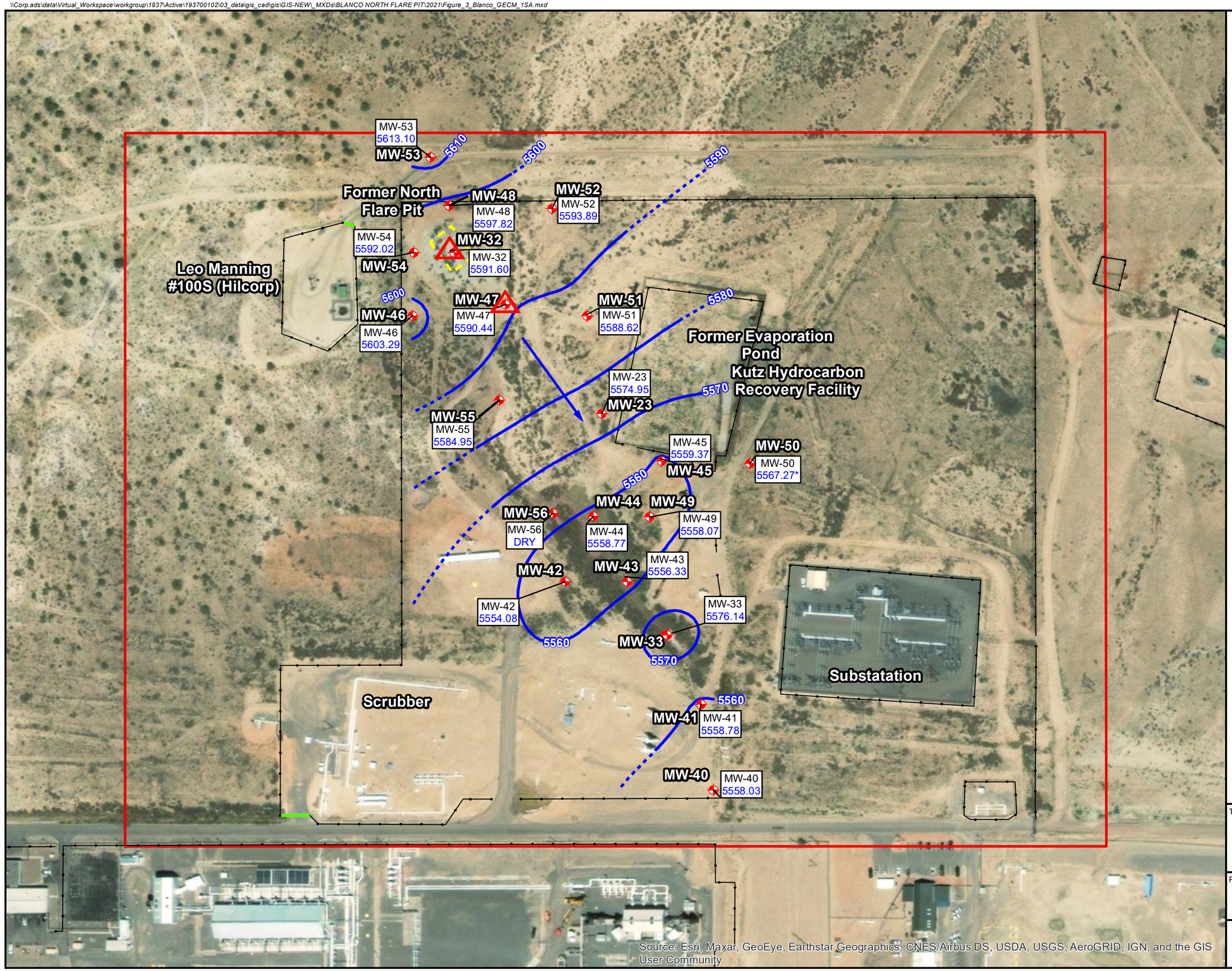

LEGEND

- MONITORING WELL
- MONITORING WELL WITH MEASURABLE LNAPL
- FENCE
- GATE
- FORMER FLARE PIT
- STUDY AREA
- 6021.62 — GROUNDWATER ELEVATION CORRECTED FOR LNAPL THICKNESS WHERE PRESENT (FEET ABOVE MEAN SEA LEVEL).
- 5584 — CORRECTED WATER LEVEL ELEVATION CONTOUR DASHED WHERE INFERRED (FEET ABOVE MEAN SEA LEVEL).
- DIRECTION OF APPARENT GROUNDWATER FLOW
- * — GROUNDWATER ELEVATION APPEARS ANOMOLOUS AND WAS NOT USED TO PREPARE COUNTOURING GROUNDWATER ELEVATION.

NOTE:
LNAPL = LIGHT NON-AQUEOUS PHASE LIQUID

N

SCALE IN FEET
0 100 200

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	2022-03-24	SAH	SAH	SRV

TITLE:
GROUNDWATER ELEVATION MAP
MAY 20, 2021

PROJECT:
BLANCO PLANT - NORTH FLARE PIT
BLOOMFIELD, NEW MEXICO

Stantec

Figure No.:
4

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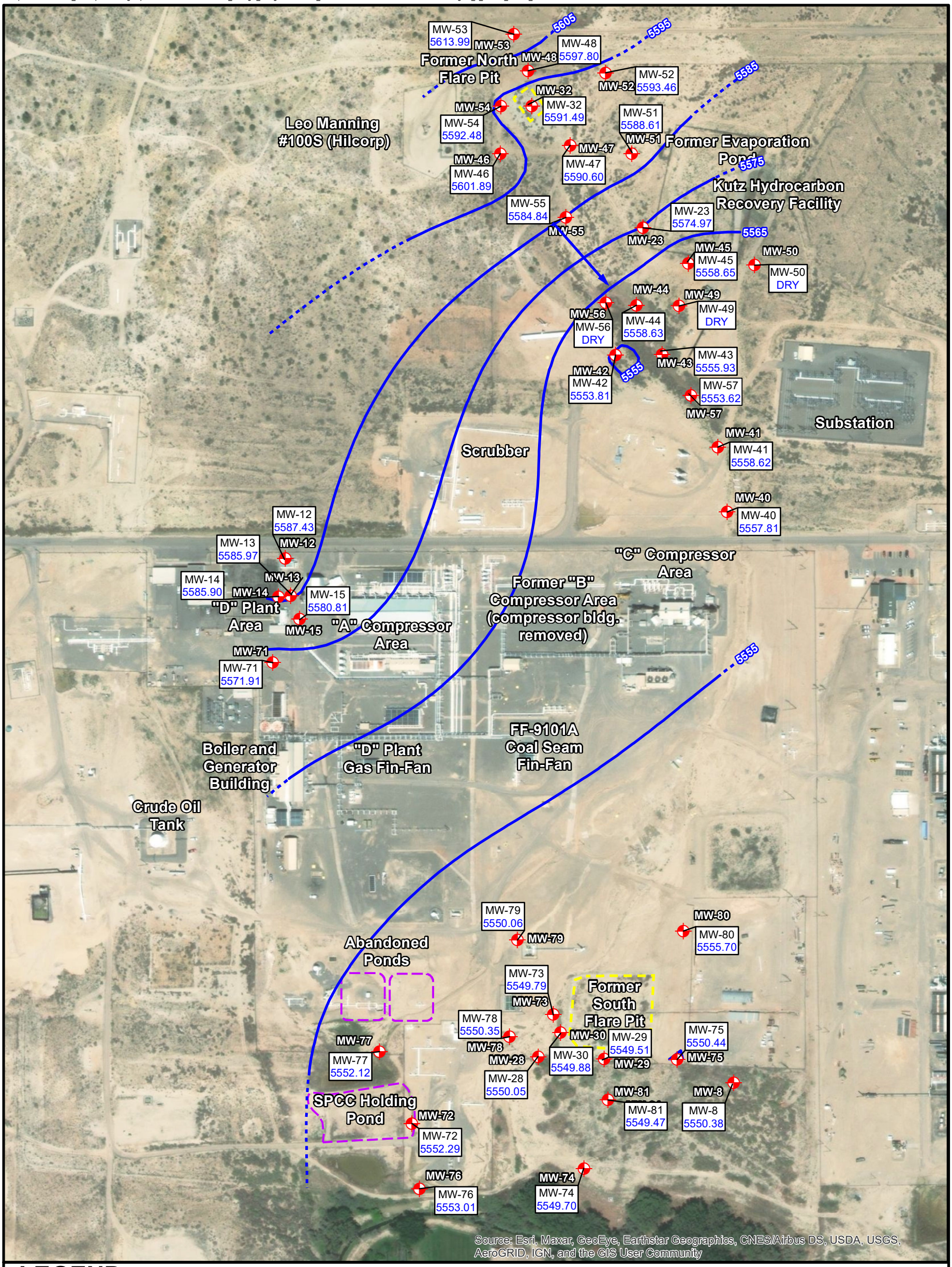

LEGEND

- MONITORING WELL
- MONITORING WELL WITH MEASUREABLE LNAPL
- SITE FEATURE
- FLARE PIT
- 6021.62 — GROUNDWATER ELEVATION CORRECTED FOR PRODUCT THICKNESS WHERE PRESENT (FEET ABOVE MEAN SEA LEVEL).
- 6021 — CORRECTED WATER LEVEL ELEVATION CONTOUR DASHED WHERE INFERRED (FEET ABOVE MEAN SEA LEVEL).
- DIRECTION OF APPARENT GROUNDWATER FLOW

NOTE:
LNAPL = LIGHT NON-AQUEOUS PHASE LIQUID

SCALE IN FEET
0 200 400

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	2022-03-30	SLG	SLG	SRV

TITLE:
GROUNDWATER ELEVATION MAP
NOVEMBER 17, 2020

PROJECT:
BLANCO PLANT
BLOOMFIELD, NEW MEXICO

Stantec

Figure No.: 5

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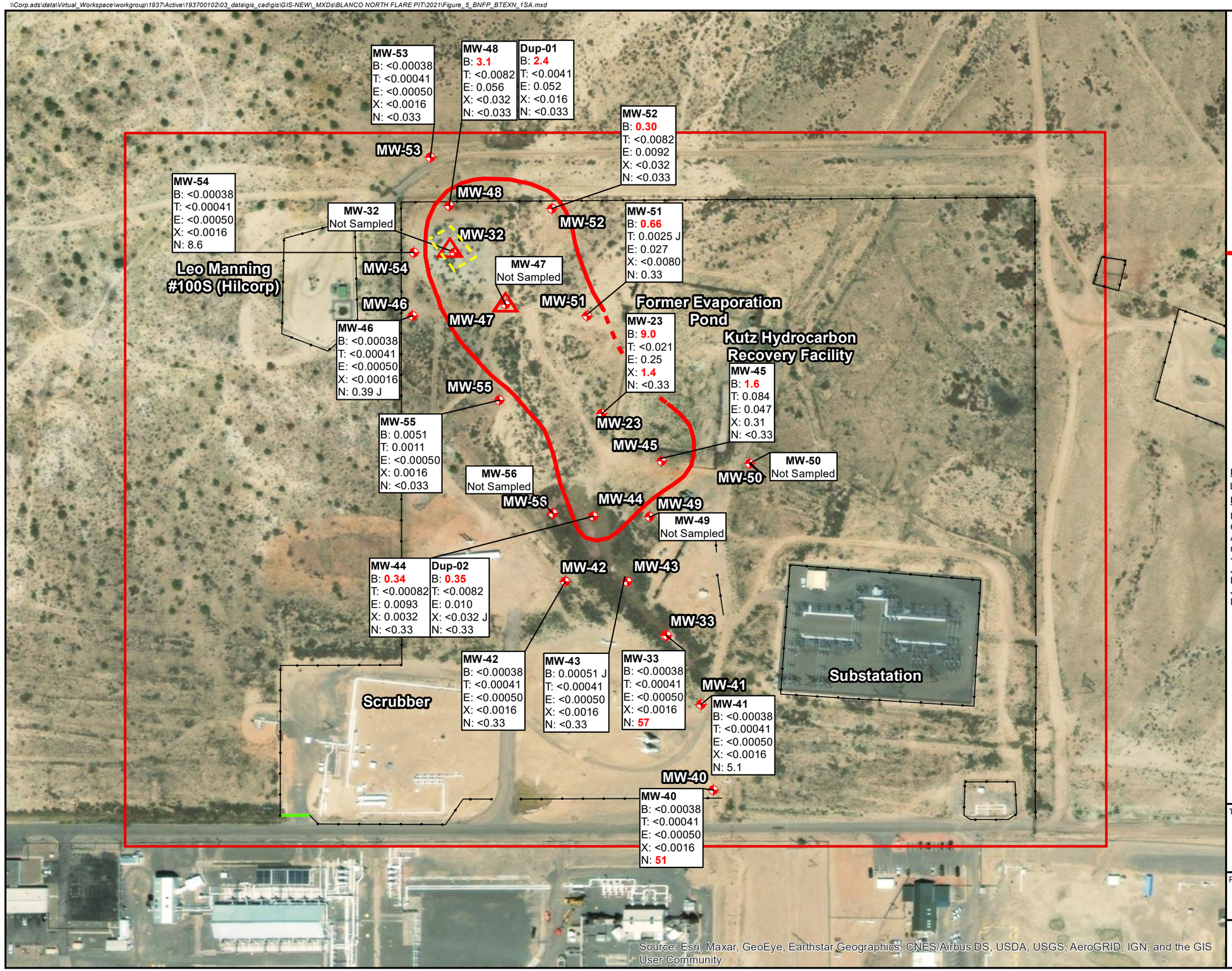

LEGEND

- MONITORING WELL
- MONITORING WELL WITH MEASURABLE LNAPL
- FENCE
- GATE
- FORMER FLARE PIT
- STUDY AREA
- 0.01 — BENZENE 0.01 mg/L ISOCONCENTRATION IN GROUNDWATER. DASHED WHERE INFERRED.

NOTE

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.
mg/L = MILLIGRAMS PER LITER
<1 = BELOW METHOD DETECTION LIMIT
J = INDICATES ESTIMATED CONCENTRATION INDETERMINATE BIAS
J- = INDICATES ESTIMATED CONCENTRATION BIAS LOW
MD-XX = DUPLICATE SAMPLE RESULT

ANALYTE	NMWQCC STANDARDS
B = Benzene	0.01 mg/L
T = Toluene	0.75 mg/L
E = Ethylbenzene	0.75 mg/L
X = Total Xylenes	0.62 mg/L
N = Nitrate	10 mg/L

N

SCALE IN FEET

0 100 200

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	2022-03-24	SAH	SAH	SRV

TITLE:

GROUNDWATER ANALYTICAL RESULTS MAY 20, 2021

PROJECT:

BLANCO PLANT - NORTH FLARE PIT BLOOMFIELD, NEW MEXICO

Stantec

Figure No.: 6

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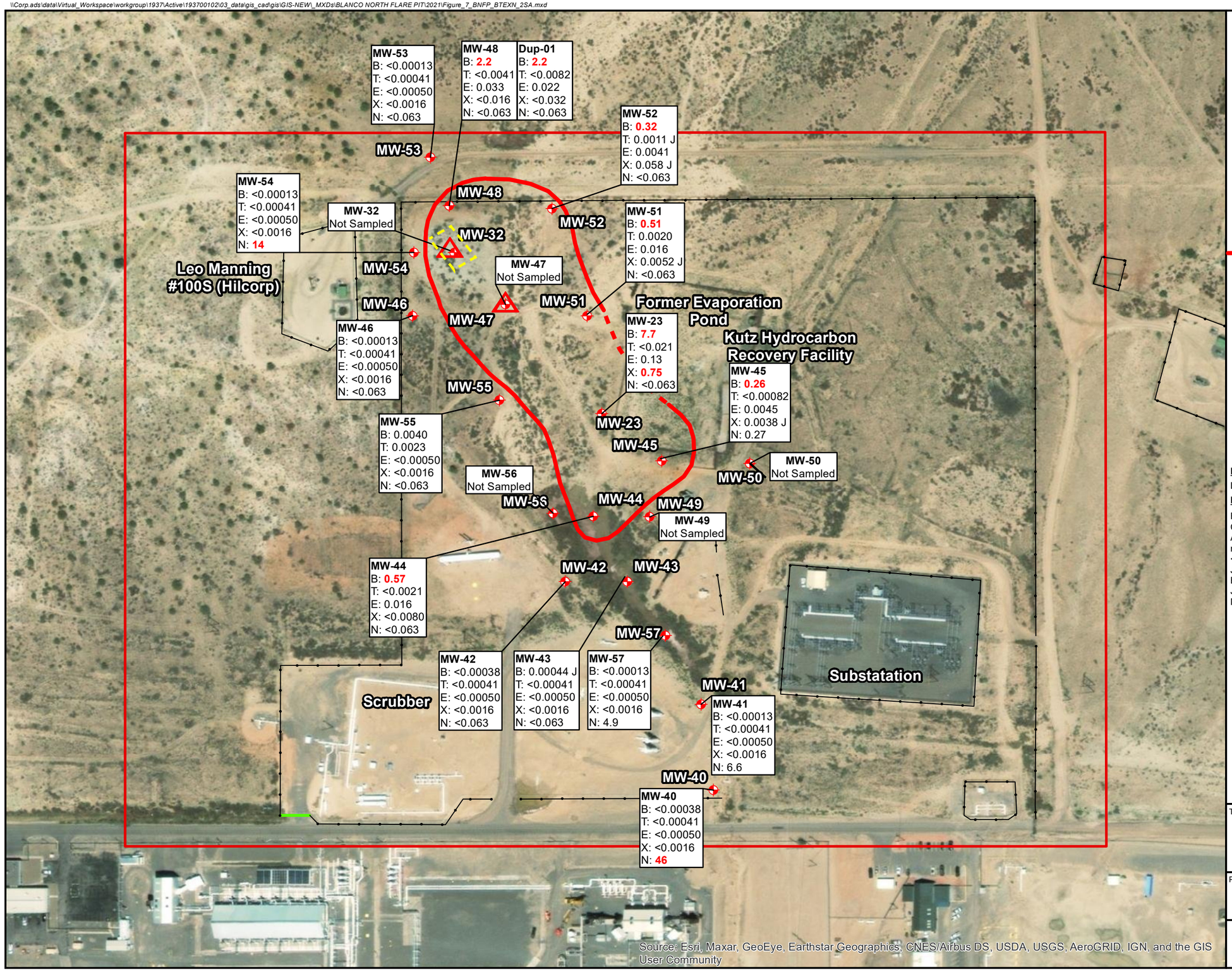

LEGEND

- MONITORING WELL
- MONITORING WELL WITH MEASURABLE LNAPL
- FENCE
- GATE
- FORMER FLARE PIT
- STUDY AREA
- 0.01 — BENZENE 0.01 mg/L ISOCONCENTRATION IN GROUNDWATER. DASHED WHERE INFERRED.

NOTE:

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.
mg/L = MILLIGRAMS PER LITER
<1 = BELOW METHOD DETECTION LIMIT
J = INDICATES ESTIMATED CONCENTRATION INDETERMINATE BIAS
J- = INDICATES ESTIMATED CONCENTRATION BIAS LOW
MD-XX = DUPLICATE SAMPLE RESULT

ANALYTE	NMWQCC STANDARDS
B = Benzene	0.01 mg/L
T = Toluene	0.75 mg/L
E = Ethylbenzene	0.75 mg/L
X = Total Xylenes	0.62 mg/L
N = Nitrate	10 mg/L

N

SCALE IN FEET

0 100 200

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	2022-03-30	SAH	SAH	SRV

TITLE:

GROUNDWATER ANALYTICAL RESULTS NOVEMBER 10, 2021

PROJECT:

BLANCO PLANT - NORTH FLARE PIT BLOOMFIELD, NEW MEXICO

Stantec

Figure No.: 7

Appendices

APPENDIX A

From: Varsa, Steve
To: Smith, Cory, EMNRD
Cc: Griswold, Jim, EMNRD; Wiley, Joe
Subject: El Paso CGP Company - Blanco Plant/North Flare Pit - notice of upcoming product recovery activities
Date: Thursday, March 11, 2021 10:50:53 AM

Hi Cory -

This correspondence is to provide notice to the NMOCD of planned product recovery activities at the above-referenced El Paso CGP Company (EPCGP) site. The site activities are to occur on March 17, 2021.

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

Thank you,
Steve

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

From:	Varsa, Steve
To:	Smith, Cory, EMNRD
Cc:	Griswold, Jim, EMNRD; Wiley, Joe
Subject:	El Paso CGP Company/Blanco Plant North Flare Pit (Incident Number NAUTOFCS000155) - Notice of upcoming sampling activities
Date:	Thursday, May 13, 2021 9:20:48 AM

Hi Cory –

On behalf of El Paso CGP Company (EPCGP), this correspondence is to provide notice to the NMOCD of upcoming groundwater sampling and monitoring activities at the above-referenced project site. Site activities are to occur on May 20, 2021.

Please contact Mr. Joseph Wiley, Project Manager with EPCGP, at (713) 420-3475, or me, if you have questions.

Thank you,
Steve

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

From:	Varsa, Steve
To:	Smith, Cory, EMNRD
Cc:	Griswold, Jim, EMNRD; Wiley, Joe
Subject:	El Paso CGP Company - Blanco Plant/North Flare Pit (Incident Number NAUTOFCS000155) - notice of upcoming field activities
Date:	Friday, July 09, 2021 5:54:51 PM

Hi Cory -

This correspondence is to provide notice to the NMOCD of planned monitoring and test well installation activities at the above-referenced El Paso CGP Company (EPCGP) site. A work plan for the subject activities was loaded into e-permitting for the subject incident on June 29, 2021. Utility clearance activities are planned to begin on July 14, 2021, with well installation activities to begin in July 15, 2021. The planned SVE testing activities are to occur beginning the week of August 9, 2021.

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

Thank you,
Steve

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

From:	Varsa, Steve
To:	Smith, Cory, EMNRD
Cc:	Griswold, Jim, EMNRD; Wiley, Joe
Bcc:	Varsa, Steve
Subject:	Blanco Gas Plant - North Flare Pit (NAUTOFCS000155)- notice of upcoming activities
Date:	Friday, August 20, 2021 10:20:00 AM

Hi Cory – on behalf of El Paso CGP Company, Stantec is planning to complete soil vapor extraction (SVE) feasibility testing, and quarterly free product recovery activities, at the subject site on August 24 and 25, 2021. A work plan will additional details regarding the SVE feasibility testing activities has been submitted in the e-permitting portal.

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

Thank you,
Steve

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

From: Varsa, Steve
To: Smith, Cory, EMNRD
Cc: Griswold, Jim, EMNRD; Wiley, Joe
Subject: El Paso CGP Company/Blanco Plant North Flare Pit (Incident Number NAUTOFCS000155) - Notice of upcoming sampling activities
Date: Wednesday, November 03, 2021 10:20:36 AM

Hi Cory –

On behalf of El Paso CGP Company (EPCGP), this correspondence is to provide notice to the NMOCD of upcoming groundwater sampling and monitoring activities at the above-referenced project site. These activities are to occur on November 10, 2021.

Please contact Mr. Joseph Wiley, Project Manager with EPCGP, at (713) 420-3475, or me, if you have questions.

Thank you,
Steve

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

APPENDIX B

Drilling Log

Stantec

Monitoring Well **MP-1**

Page: 1 of 2

Project *Blanco Gas Plant (North Flare Pit)* Owner *El Paso CGP Company*

Location *Bloomfield, New Mexico* Project Number *193710309*

Surface Elev. *5646.00 ft* North *2087334.18* East *2685825.94*

Top of Casing *5648.53 ft* Water Level Initial ▽ Static ▼ *5589.9* 07/21/21 00:00

Hole Depth *66.0 ft* Screen: Diameter *2 in* Length *25.0 ft* Type/Size *SCH 40 PVC/0.01 in*

Hole Diameter *7.0 in* Casing: Diameter *2 in* Length *41.0 ft* Type *SCH 40 PVC*

Drill Co. *Cascade* Drilling Method *Sonic* Sand Pack *Gillibrand 10/20*

Driller *Jason Camp* Driller Reg. # *WD-1210* Log By *R. Malcomson*

Start Date *7/19/2021* Completion Date *7/24/2021* Checked By *S. Varsa*

COMMENTS
Groundwater was not encountered during installation of MP-1.

Bentonite Chips | Bentonite Granules | Grout | Bentonite Pellets | Sand Pack | PP Sand Pack

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) — Geologic Descriptions are Based on the USCS.	Well Completion	Elevation (ft)
0								5646.00
0		100%			CL ML	0-6' hydro-vacuumed. Clay, sand, and silt; brown, dry.		5645
5						No recovery.		5640
10	0.1 0.0 3.1 0.6 0.0 0.0	63%			CL ML	Clay, sand, and silt; tan-gray, slightly moist, possibly fill material.		5635
15	1.7	100%			SM	Sand, silty, brown, loose, dry, fine-grained.		5630
	0.6				SM	Sand, silty, brown, loose to medium dense, wet/perched zone, fine to medium-grained.		
20	1.1 0.5 0.0				SM	Sand, silty, brown, loose to medium dense, dry, fine to medium-grained.		5625
	0.0 0.0 0.0 0.0				SM	Sand, silty, gray-tan, loose, dry, fine to medium-grained.		
25	0.0	100%			SM ML	Sand, silty to silt, olive-gray, loose, dry, fine-grained, odor.		5620
	1528 3233	MP-1 29-31'			ML CL	Silt, sandy, clayey with depth, olive-brown, cohesive, dry, odor.		
30	3044 2428 1310				CL ML	Clay, gray, dry, odor.		5615
	2292 2468 2489	100%			CL	Clay, gray and brown, some olive-brown mudstone inclusions, poor cohesion, dry to slightly moist with depth, odor.		
35	1100 3722 4417							5610
	2602	MP-1 39-41'			SP	Sandstone, olive-brown, dry, very fine-grained, strongly cemented, odor.		
40						*Continued Next Page*		

Drilling Log BLANCO NFP_2021.GPJ MWH IA.GDT 3/24/22

Drilling Log

Stantec

Monitoring Well **MP-1**

Page: 2 of 2

Project *Blanco Gas Plant (North Flare Pit)* Owner *El Paso CGP Company*

Location *Bloomfield, New Mexico* Project Number *193710309*

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion	Elevation (ft)
						Continued		
40	5215				SP	Clay, gray-brown, dry, odor.		5605
	3198							
	4987				CL			
	4004							
	4181							
45	4013	100%			CL	Clay, gray and dark gray, stiff to hard and more cohesive than above, dry, fractured, odor.		5600
	8574				CL	Clay and weathered shale, dark brown to gray, hard, dry, some charcoal, odor.		
	241.4							
	56.0							
	153.0				ML	Siltstone/mudstone, dark gray, dry, moderately cemented, fractured, odor.		
50	283.2	MP-1 51-53'						
	1695				SP	Sandstone to silty sand, gray, hard, dry to slightly moist, fine-grained, moderately cemented, massive, odor.		5595
	1292							
	3412					Weathered shale to clay, sandy, gray, slightly moist to moist, strongly cemented, odor to 56'.		
	2474							
55	1720	100%						
	3549				CL			5590
	209.8							
	174.0							
60	97.1							
	74.3					Shale, gray, slightly moist, thinly laminated, fractured.		5585
	53.7				CL			
	36.5	100%						
	111.7							
65	40,0				CL	Clay, dark gray, slightly moist.		
	68.1							5580
						End of boring @ 66'.		
70								5575
75								5570
80								5565
85								5560
90								5555

Drilling Log BLANCO NFP_2021.GPJ MWH IA.GDT 3/24/22

Drilling Log

Stantec

Monitoring Well **MP-2**

Page: 1 of 2

Project *Blanco Gas Plant (North Flare Pit)* Owner *El Paso CGP Company*

Location *Bloomfield, New Mexico* Project Number *193710309*

Surface Elev. *5637.02 ft* North *2087212.01* East *2686072.38*

Top of Casing *5639.67 ft* Water Level Initial ▽ Static ▼

Hole Depth *56.0 ft* Screen: Diameter *2 in* Length *15.0 ft* Type/Size *SCH 40 PVC/0.01 in*

Hole Diameter *7.0 in* Casing: Diameter *2 in* Length *41.0 ft* Type *SCH 40 PVC*

Drill Co. *Cascade* Drilling Method *Sonic* Sand Pack *Gillibrand 10/20*

Driller *Jason Camp* Driller Reg. # *WD-1210* Log By *R. Malcomson*

Start Date *7/18/2021* Completion Date *7/24/2021* Checked By *S. Varsa*

COMMENTS
Groundwater was not encountered during installation of MP-2.

Bentonite Chips | Bentonite Granules | Grout | Bentonite Pellets | Sand Pack | PP Sand Pack

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion	Elevation (ft)
0								5637.02
						0-10' hydro-vacuumed. Silt, clay, and sand; brown, dry.		5635
5	0.0	100%			ML			
	0.0							5630
10						No recovery.		
	4.0				SC			5625
	3.0				SM	Sand, clayey, silty, tan, loose to medium-dense, dry, fine-grained.		
15	5.8	100%				Sand, silty, tan, loose, dry, fine-grained.		
	3.0				SM			5620
	4.7							
	4.3							
20					SC			
	3.6				SM	Sand, silty, clayey with depth, tan, loose, dry.		
	2.4					Sand, silty, tan, loose, dry, fine-grained.		5615
	11.5							
	10.9				SM			
25		100%						
	21.0				SM	Sand, silty, tan, loose, dry, fine to medium-grained.		5610
	10.8							
	15.1				CL	Clay, sandy, brown, hard, dry, sand is fine-grained.		
	13.4				SC			
30								
	57.4					Sand, silty, clayey, tan-brown, loose to dense with depth, dry, fine-grained.		
	53.8				SC			5605
	48.3				SM			
	57.6							
35	151.5	100%						
		MP-2 35-37.5'			CL	Sand, silty; to clay, sandy; tan-brown, dry, sand is fine-grained, odor.		
	303.5				SM			5600
	761.2							
	758.8				CL	Clay, sandy, tan-brown, hard, dry, sand is fine-grained, blocky texture, odor.		
40					SC			

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Drilling Log BLANCO NFP_2021.GPJ MWH IA.GDT 3/24/22

Drilling Log

Stantec

Monitoring Well **MP-2**

Page: 2 of 2

Project *Blanco Gas Plant (North Flare Pit)* Owner *El Paso CGP Company*

Location *Bloomfield, New Mexico* Project Number *193710309*

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion	Elevation (ft)
						Continued		
40	702.5				ML SM	Silt to sand, silty; tan-brown, cohesive silt, loose sand, slightly moist, fine-grained sand, odor.		5595
	753.8							
	3205				SC SM	Sand, silty, clayey, olive-tan, loose, slightly moist, fine-grained, odor.		
	2632							
45		100%				Clay, olive-brown, slightly moist, fractured, odor.		5590
	2198							
	2429							
	3041				CL			
	3437	MP-2 49-51'						
50	3484							5585
	3060				CL	Shale, dark brown, strongly cemented, thinly laminated, waxy surface, odor.		
	2720				SP SC	Interbedded sandstone and shale, shale is grayish-brown to dark olive; orange, and black from 52-54', sandstone is gray at 53.5', shale is moderately to strongly cemented, sandstone is strongly cemented and massive, entire interval is slightly moist.		
	958.0							
	266.0	100%						
	1783							
55	97.6				SP SC	Sandstone interbedded with shale, both materials are dark gray and strongly cemented, sandstone is massive, entire interval is dry.		5580
	10.4							
60						End of boring @ 56'.		5575
65								5570
70								5565
75								5560
80								5555
85								5550
90								5545

Drilling Log BLANCO NFP_2021.GPJ MWH IA.GDT 3/24/22

Drilling Log

Stantec

Monitoring Well **MP-3**

Page: 1 of 2

Project *Blanco Gas Plant (North Flare Pit)* Owner *El Paso CGP Company*

Location *Bloomfield, New Mexico* Project Number *193710309*

Surface Elev. *5631.37 ft* North *2086919.04* East *2686228.96*

Top of Casing *5633.96 ft* Water Level Initial ▽ Static ▼ *5558.87* 07/19/21 00:00

Hole Depth *80.0 ft* Screen: Diameter *2 in* Length *15.0 ft* Type/Size *SCH 40 PVC/0.01 in*

Hole Diameter *7.0 in* Casing: Diameter *2 in* Length *65.0 ft* Type *SCH 40 PVC*

Drill Co. *Cascade* Drilling Method *Sonic* Sand Pack *Gillibrand 10/20*

Driller *Jason Camp* Driller Reg. # *WD-1210* Log By *R. Malcomson*

Start Date *7/17/2021* Completion Date *7/24/2021* Checked By *S. Varsa*

COMMENTS
Groundwater was not encountered during installation of MP-3.

Bentonite Chips | Bentonite Granules | Grout | Bentonite Pellets | Sand Pack | PP Sand Pack

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion	Elevation (ft)
0								5631.37
					CL ML	0-10' hydro-vacuumed. Clay, silt, and sand, brown.		5630
5	0.0	100%						
	0.0							5625
10	0.0				SM	Sand with silt, tan, loose, dry, fine to medium-grained.		5620
	0.8							
	0.6							
	2.0				SM	Clay, sandy to Sand, silty; tan, dry, fine to medium-grained sand.		
	1.3							
15	1.9	100%			ML	Silt, sandy, tan, dry, fine-grained sand.		5615
	1.7							
	1.3							
20	1.1					No recovery.		5610
	1.5				SM	Sand, silty, tan-brown, loose, dry, fine to medium-grained.		
	1.7							
25		100%						5605
	3.8							
	1.2							
	13.5				SW GW	Sand, some silt, some 2-3" rounded igneous cobbles, tan-brown, loose, dry, fine to medium-grained becoming more coarse with depth.		
30	21.1				CL CH	Clay, dark gray, medium stiff, slightly moist.		
	527	MP-3 30-32.5'						5600
	2655				CL ML	Clay and silt, brown-gray, soft, dry.		
	2590				SM	Sand, silty, some clay, gray, loose, dry, fine-grained, odor,		
	2270							
35		100%						
	2663				CL CH	Clay, brown-gray, dry, odor.		5595
	2315							
	810				SM	Sand, silty, tan-gray to gray, loose, dry, fine to medium-grained, odor.		
	2122							
40								

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Drilling Log BLANCO NFP_2021.GPJ MWH IA.GDT 3/24/22

Drilling Log

Stantec

Monitoring Well **MP-3**

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Project *Blanco Gas Plant (North Flare Pit)* Owner *El Paso CGP Company*

Location *Bloomfield, New Mexico* Project Number *193710309*

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion	Elevation (ft)
						Continued		
40	2155				CL SC	Clay, sandy, silty, gray, dry, odor.		5590
	1900							
	1845				ML SM	Silt, sandy, brown-gray, dry, odor.		
45	1149	100% MP-3 47.5-50'			SP	Sand, gray, loose to medium dense, dry, fine to medium-grained, some 1/2-inch igneous gravel.		5585
	2245							
	2247							
	2403							
	2316							
50					SM	Sand, silty, yellow-brown, loose to dense, moist, fine to medium-grained.		5580
	757				SM			
	1985				SP	Sand, silty, gray, loose, dry, fine to medium-grained.		
	1701					Sand, gray, loose, dry, fine to medium-grained, some 1/2-inch igneous gravel, odor.		
	1835				CL	Clay, dark gray and brown, hard, dry, blocky texture, fractured, odor.		
55	1932	100% MP-3 58.5-61'						5575
	1999							
	1207							
	1018							
	2022				CL	Clay, sandy, gray, dry, odor.		
60					SW	Sand, gray, loose, dry, medium-grained.		
	1510				SM	Sand, silty, gray, medium dense, slightly moist, fine-grained, odor.		5570
	1581							
	1498							
	1677							
65	1431	100%			SM	Sand, silty, gray-tan, medium-dense, dry, fine-grained.		
					SM	Sand, silty, dark gray, dry, odor.		5565
	1759				SW	Sandstone, gray and orange-brown, loose, dry, fine to coarse-grained.		
	1269							
	732							
70	622	MP-3 70.5-73'			SP	Weathered sandstone, orange-brown, moist, medium-grained, weakly cemented.		5560
	531							
	1821							
	61.6				SP	Sandstone, gray, slightly moist, fine-grained, moderately cemented, thinly-bedded, fractured.		
75	98.7	100%						5555
	11.5							
	43.6							
	22.5							
80	62.4					End of boring @ 80'.		5550
85								5545
90								5540

Drilling Log BLANCO NFP_2021.GPJ MWH IA.GDT 3/24/22

Drilling Log

Stantec

Monitoring Well **MW-57**

Page: 1 of 2

Project *Blanco Gas Plant (North Flare Pit)* Owner *El Paso CGP Company*

Location *Bloomfield, New Mexico* Project Number *193710309*

Surface Elev. *5623.70 ft* North *2086550.21* East *2686256.29*

Top of Casing *5626.42 ft* Water Level Initial ▽ Static ▼ *5547.9* 07/17/21 00:00

Hole Depth *80.0 ft* Screen: Diameter *4 in* Length *30.0 ft* Type/Size *SCH 40 PVC/0.01 in*

Hole Diameter *8.25 in* Casing: Diameter *4 in* Length *50.0 ft* Type *SCH 40 PVC*

Drill Co. *Cascade* Drilling Method *Sonic* Sand Pack *Gillibrand 10/20*

Driller *Jason Camp* Driller Reg. # *WD-1210* Log By *R. Malcomson*

Start Date *7/15/2021* Completion Date *7/24/2021* Checked By *S. Varsa*

COMMENTS
Groundwater was not encountered during installation of MW-57.

Bentonite Chips | Bentonite Granules | Grout | Bentonite Pellets | Sand Pack | PP Sand Pack

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion	Elevation (ft)
0								5623.70
						0-10' hydro-vacuumed. Clay and silt, brown, dry.		
5	0.0	100%			CL ML			5620
10	0.9							5615
	1.9				ML CL	Silt and clay, trace fine sand, gray-brown, medium stiff to very stiff.		
	12.5							5610
15	3.4	100%			SM	Sand with silt, tan, loose, dry, fine-grained.		
	8.1				SM	Sand, tan-gray, dense, dry, fine-grained.		
	15.0				ML SM	Silt, sandy, tan-gray, dry.		
	7.1				CL ML	Clay and silt, olive-brown, hard, dry.		5605
20	1.3					No recovery.		
	1.2				CL SC	Clay, sandy, brown-gray, wet, sand is medium to coarse-grained.		
	5.1				SP SC	Sand, some clay zones lower, gray-brown, medium-grained.		
	6.8							5600
25	5.2	100%						
	13.2				ML SP	Silt, sandy, gray-brown, medium stiff, dry, sand is medium-grained.		
	9.7							5595
30	4.0	MW-57 30-32.5'			CL ML	Clay and silt becoming clay with depth, dark olive-brown, medium stiff, some laminar bedding.		
	11.5							
	13.9							
	5.4				CL ML	Clay and silt, brown, medium stiff, dry.		5590
	0.9							
35	2.1	100%				Silt with fine sand, brown, dry.		
	4.3				ML SM			
	0.9							5585
40								

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Drilling Log BLANCO.NFP 2021.GPJ MWH IA.GDT 3/24/22

Drilling Log

Stantec

Monitoring Well **MW-57**

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Project *Blanco Gas Plant (North Flare Pit)* Owner *El Paso CGP Company*

Location *Bloomfield, New Mexico* Project Number *193710309*

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion	Elevation (ft)
						Continued		
40	2.5				SM	Sand, silty, brown, dry, medium-grained.		
	0.3				SP			
	5.7				CL	Clay, dark olive-brown, hard, dry, laminar, thin layer of black ash/charcoal.		
	6.4				CL			
	2.3				ML	Clay and silt, sandy, gray-brown, slightly moist.		5580
45	7.0	100% MW-57 43.5-46'			CL ML	Clay and silt, dark olive-brown, hard, blocky texture, ash/charcoal layer.		
	23.6					Weathered sandstone, orange to light gray, slightly moist, fine to medium-grained, weakly cemented.		
	20.1				SW			
	6.5					Sandstone, light gray to gray, dry, fine to medium-grained, strongly cemented, some dark brown shale or clay layers.		5575
50	14.9				SW			
	13.8					Sandstone, gray, fine to medium-grained, strongly cemented, bedding apparent, thin clay layer at 54'. Drilling is hard below 51'.		
	0.9				SW			
	6.3							5570
	9.3					Sandstone, gray, fine to medium-grained, variably cemented weak to strong.		
55	1.2	100%			SW			
	7.8					Sandstone, gray, fine to medium-grained, mostly dry, variably cemented weak to strong.		
	4.4	MW-57 58.5-61'						5565
	81.3							
60	9.9				SW			
	13.8							
	4.7							
	71.8							5560
65	11.7	100%						
	7.9				SW	Sandstone, gray, medium to coarse-grained, variably cemented weak to strong.		
	6.6							
	2.2					Sandstone, gray, fine-grained, dry to slightly moist, retrieving in solid cores up to 5" long but weakly cemented below 69'.		5555
	2.4				SP			
70	7.6					Sandstone, gray, fine to coarse-grained, weakly cemented.		
	12.1				SW			
	0.3							
	0.0							5550
75 ▼		100%			CL	Shale, dark olive-brown, moist, weakly cemented.		▼
	1.0				SW	Sandstone, gray, dry to slightly moist, fine to coarse-grained, variably cemented weak to strong.		
	28.2							
	0.9					Sandstone, gray, fine to coarse-grained, variably cemented weak to strong, trace igneous gravel.		
	0.0				SW			5545
80						End of boring @ 80'.		
								5540
85								
								5535
90								

Drilling Log BLANCO NFP_2021.GPJ MWH IA.GDT 3/24/22

Drilling Log

Stantec

Monitoring Well **TW-2**

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Project *Blanco Gas Plant (North Flare Pit)* Owner *El Paso CGP Company*

Location *Bloomfield, New Mexico* Project Number *193710309*

Surface Elev. *5647.03 ft* North *2087358.06* East *2685821.53*

Top of Casing *5649.45 ft* Water Level Initial ▽ Static ▼

Hole Depth *60.0 ft* Screen: Diameter *2 in* Length *2.0 ft* Type/Size *SCH 40 PVC/0.01 in*

Hole Diameter *7.0 in* Casing: Diameter *2 in* Length *58.0 ft* Type *SCH 40 PVC*

Drill Co. *Cascade* Drilling Method *Sonic* Sand Pack *Gillibrand 10/20*

Driller *Jason Camp* Driller Reg. # *WD-1210* Log By *R. Malcomson*

Start Date *7/20/2021* Completion Date *7/24/2021* Checked By *S. Varsa*

COMMENTS
Groundwater was not encountered during installation of TW-2.

Bentonite Chips | Bentonite Granules | Grout | Bentonite Pellets | Sand Pack | PP Sand Pack

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) — Geologic Descriptions are Based on the USCS.	Well Completion	Elevation (ft)
0								5647.03
	0.0					0-10' hydro-vacuumed. Silt, clay, and sand; brown, dry.		5645
5	0.0	100%			ML			
	0.0							5640
10	0.0							
	0.3				ML SM	Silt becoming silty sand with depth, olive-brown, fine-grained sand.		5635
	2.4							
	0.5							
15	1.1	100%			SM	Sand, silty, olive-brown, loose, dry, fine-grained.		
	0.0				SC SM	Sand, clayey, silty, olive-brown, loose, dry, fine to medium-grained.		5630
	0.0							
	0.0							
	1.8				SC SM	Sand, clayey, silty, yellowish-brown becoming grayish-tan from 23.5-26', loose, dry, fine to medium-grained.		
20	0.0							5625
	0.4							
	0.2							
	0.2							
25	0.1	100%						
	490.4				CL	Clay and rip-up clasts (sandstone and shale fragments), mix of olive-brown, gray, dark orange, and black; dry, odor.		5620
	2166							
	2905				SM ML	Sand, silty to silt, tan-gray, dry, some sandstone clasts, odor.		
30	2318	TW-1 31-33.5'						
	2224				SC SM	Sand, silty, clayey to clay, tan, loose, dry, some shale clasts, odor.		5615
	2224							
	1431							
	2834				CL	Clay to claystone, tan-brown and gray, dry, fractured, odor.		
35	3156	100% TW-1 37.5-40'						5610
	3521							
	4024							
	244.8							
	4804							
40						*Continued Next Page*		

Drilling Log BLANCO NFP_2021.GPJ MWH IA.GDT 3/24/22

Drilling Log

Stantec

Monitoring Well **TW-2**

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Project *Blanco Gas Plant (North Flare Pit)* Owner *El Paso CGP Company*

Location *Bloomfield, New Mexico* Project Number *193710309*

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion	Elevation (ft)
						Continued		
40	218.5				SP	Weathered sandstone, silty, grayish-tan, slightly moist, fine-grained, moderately cemented, fractured.		
	71.1							
	221.8					Weathered shale, tan-brown, slightly moist, odor.		5605
	7119				CL			
45	1479	100%						
	361.5				CL	Shale, gray, slightly moist, thinly laminated, fractured.		5600
	28.3							
	284.8					Weathered shale, sandy, clayey, gray, moist to wet, odor, some high plasticity observed.		
	1174				CL			
50	2836							
	100.4					Sandstone, gray, slightly moist, very fine-grained, strongly cemented		5595
	22.6				SP			
	12.8							
	4.0							
55	3.0	100%						
	11.1					Shale, gray to dark gray, dry, thinly laminated, strongly cemented.		5590
	128.6				CL			
	9.1							
	7.9							
60	17.6					End of boring @ 60'.		5585
65								5580
70								5575
75								5570
80								5565
85								5560
90								5555

Drilling Log BLANCO NFP_2021.GPJ MWH IA.GDT 3/24/22

Drilling Log

Stantec

Monitoring Well **TW-3**

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Project *Blanco Gas Plant (North Flare Pit)* Owner *El Paso CGP Company*

Location *Bloomfield, New Mexico* Project Number *193710309*

Surface Elev. *5637.20 ft* North *2087210.25* East *2686096.97*

Top of Casing *5639.78 ft* Water Level Initial ▽ Static ▼

Hole Depth *56.0 ft* Screen: Diameter *2 in* Length *2.0 ft* Type/Size *SCH 40 PVC/0.01 in*

Hole Diameter *7.0 in* Casing: Diameter *2 in* Length *54.0 ft* Type *SCH 40 PVC*

Drill Co. *Cascade* Drilling Method *Sonic* Sand Pack *Gillibrand 10/20*

Driller *Jason Camp* Driller Reg. # *WD-1210* Log By *R. Malcomson*

Start Date *7/18/2021* Completion Date *7/24/2021* Checked By *S. Varsa*

COMMENTS
Groundwater was not encountered during installation of TW-3.

Bentonite Chips | Bentonite Granules | Grout | Bentonite Pellets | Sand Pack | PP Sand Pack

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) — Geologic Descriptions are Based on the USCS.	Well Completion	Elevation (ft)
0								5637.20
0						0-10' hydro-vacuumed. Silt, clay, and sand; brown, dry.		5635
5	0.0	100%			ML SM			5630
10	0.0					No recovery.		5625
	1.6				SC SM	Sand, clayey, silty; tan, loose to medium dense, slightly moist, fine-grained.		
15	1.7	100%						5620
	4.0				SM	Sand, silty, tan, loose, dry, fine-grained.		
	1.1							
	2.1				ML	Silt, sandy, tan, cohesive, dry.		
20	0.4							5615
	0.4					Sand, silty, tan, loose, dry, fine-grained.		
	1.2							
	1.2				SM			
	1.3							
25	5.8	100%						5610
	2.8				CL	Clay, tan-brown, hard, dry, blocky texture.		
	5.3							
	1.6				ML	Silt, sandy, tan-brown, medium stiff to stiff, dry.		
30	5.8					Sand, silty, tan, loose, dry, fine-grained.		5605
	7.3							
	13.0				SM			
	22.7							
35	6.8	100%						5600
	13.4							
	25.1				CL SC	Clay, sandy, tan, medium stiff to stiff, dry.		
	24.6							
40								

Continued Next Page

Drilling Log BLANCO NFP_2021.GPJ MWH IA.GDT 3/24/22

Drilling Log

Stantec

Monitoring Well **TW-3**

Page: 2 of 2

Project *Blanco Gas Plant (North Flare Pit)* Owner *El Paso CGP Company*

Location *Bloomfield, New Mexico* Project Number *193710309*

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion	Elevation (ft)
						Continued		
40	57.1				CL SC			
	319.6				CL	Clay, brown to olive-brown, hard, dry, blocky texture, fractured.		5595
	366				CL ML	Clay, silty, grayish-brown, medium stiff to stiff, slightly moist.		
	390							
45	197	100% TW-3 44-46'			CL ML	Clay, silty, orangish-brown to brown, medium stiff to stiff, dry.		
	61.5					Shale/siltstone, gray, slightly moist, thinly laminated.		5590
	2135	TW-3 48-50'						
	3223							
	3218				CL			
50	3554							
	4127							
	2811					Sandstone, gray with orangish-brown, dry, fine-gained, strongly cemented but weaker and weathered from 53-55'.		5585
	1115	100%			SP			
	561							
55	121				SP	Sandstone, gray, strongly cemented, massive.		
	32.5							
						End of boring @ 56'.		5580
60								
								5575
65								
								5570
70								
								5565
75								
								5560
80								
								5555
85								
								5550
90								
								5545

Drilling Log BLANCO NFP_2021.GPJ MWH IA.GDT 3/24/22

Drilling Log

Stantec

Monitoring Well **TW-4**

Page: 1 of 2

Project *Blanco Gas Plant (North Flare Pit)* Owner *El Paso CGP Company*

Location *Bloomfield, New Mexico* Project Number *193710309*

Surface Elev. *5631.28 ft* North *2086905.51* East *2686246.06*

Top of Casing *5633.78 ft* Water Level Initial ▽ Static ▼ *5558.28* 07/18/21 00:00

Hole Depth *81.0 ft* Screen: Diameter *2 in* Length *2.0 ft* Type/Size *SCH 40 PVC/0.01 in*

Hole Diameter *7.0 in* Casing: Diameter *2 in* Length *79.0 ft* Type *SCH 40 PVC*

Drill Co. *Cascade* Drilling Method *Sonic* Sand Pack *Gillibrand 10/20*

Driller *Jason Camp* Driller Reg. # *WD-1210* Log By *R. Malcomson*

Start Date *7/16/2021* Completion Date *7/24/2021* Checked By *S. Varsa*

COMMENTS
Groundwater was not encountered during installation of TW-4.

Bentonite Chips | Bentonite Granules | Grout | Bentonite Pellets | Sand Pack | PP Sand Pack

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) — Geologic Descriptions are Based on the USCS.	Well Completion	Elevation (ft)
0								5631.28
						0-10' hydro-vacuumed. Clay, silt,and sand; brown, hard, dry.		5630
5	0.0	100%			CL ML			5625
	0.0							
10	0.0							
	1.4				SM	Sand with silt, brown, loose, fine to medium-gra		5620
	1.9				SP	Sand, tan and brown, loose, dry, fine to coarse		
	3.3					Sand, silty to silt, tan, loose, dry, fine to medium-grained.		
15	3.1	100%			SM			5615
	9.7							
	0.9				SM	Sand with silt, tan, loose, dry, fine-grained.		
	1.3							
20						No recovery.		5610
	0.6				SW	Sand, brown, wet, fine to coarse-grained.		
	0.9					Sand, silty, tan, loose, dry, fine-grained.		
	1.0				SP			
25	0.4	100%						5605
	0.6							
	0.9				SW	Sand, tan and orange-brown, loose, dry, fine to medium-grained.		
	3.7							
30	77.4				CL	Clay, dark gray, dry, thin caliche layers, blocky texture,		5600
	1958							
	754				SM	Sand, silty, tan, dry, odor.		
	2253							
35	2419	100%				Silt, sandy, tan-brown, dry, odor.		5595
	2506				ML SM			
	2418							
	2455							
40						No recovery.		

Continued Next Page

Drilling Log BLANCO NFP_2021.GPJ MWH IA.GDT 3/24/22

Drilling Log

Stantec

Monitoring Well **TW-4**

Page: 2 of 2

Project *Blanco Gas Plant (North Flare Pit)* Owner *El Paso CGP Company*

Location *Bloomfield, New Mexico* Project Number *193710309*

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion	Elevation (ft)
						Continued		
	2489	100%			CH	Clay, dark gray, soft, wet, high plasticity.		5590
	978				SM	Sand, silty, gray, dry, odor.		
	2134	TW-4 44-46'			SW	Sand, tan, loose, dry, fine to medium-grained.		
45	2754				SM	Sand with silt, tan-brown, fine to medium-grained, odor.		
	2519	100%						
	2084				SP	Sand, silty, gray, dry, fine-grained.		5585
	1452				SW	Sand, tan-brown, loose, dry, fine to medium-grained.		
	3713				CL	Clay, silty, olive-brown, hard, dry, blocky texture.		
50	1198				SW	Sand, tan-gray, loose, dry, fine to medium-grained.		
	2341				CL	Clay, dark gray with brown, hard, slightly moist, blocky texture.		5580
	1598							
	2140				CL ML	Clay with silt, gray, hard, dry, blocky texture, odor.		
	2480							
55	1367							
	1705	100%			SM	Sand, silty, brown, slightly moist, fine to medium-grained.		5575
	1770				CL	Clay, dark gray, hard, slightly moist, blocky texture, odor.		
	1372							
	234				ML SM	Silt, sandy, gray to dark gray, slightly moist, blocky texture.		
60	784							
	1429							5570
	1854				CL ML	Clay and silt, sandy, gray, slightly moist.		
	1100							
	1804							
65		100%						
	2313	TW-4 66-68.5'			SC SM	Sand, silty, clayey, gray, loose, dry.		5565
	1716							
	1788							
	679				SM	Sand, silty, brown and gray, dense, dry.		
70								
	45.5							5560
	53.5				CL	Clay, sandy, dark gray, hard, slightly moist.		
	5.3							
					CL	Clay, sandy, dark gray, medium stiff, moist.		
75	40.2	100%			SC SW	Sand, clayey, dark gray, dense, moist.		5555
						Weathered sandstone, orange-brown, wet, fine to medium-grained, weakly cemented.		
	2.5				SW			
	13.1				SW	Sandstone, olive and orange-brown, moist, fine to medium-grained, moderately cemented.		
	3.1							
80	24.4				SW	Sandstone, gray, moist, fine to medium-grained, moderately cemented.		
		100%						5550
						Sandstone, silty, gray, moist, fine to medium-grained, weakly cemented.		
						End of boring @ 81'.		
85								5545
90								5540
95								

Drilling Log BLANCO NFP_2021.GPJ MWH IA.GDT 3/24/22

APPENDIX C

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD 22 (MP-1)	MP-1	SJ-4254

WELL OWNER NAME(S)	PHONE (OPTIONAL)
El Paso CGO Company, L.L.C. Attn: Joseph Wiley	713-420-3475

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
1001 Louisiana Street, Room 757A	Houston	TX	77002

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	36	44	10.7	N
	LONGITUDE	-107	57	38	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

SW/4, SE/4, Sec 11, T29N, R11W, San Juan County, NM

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD 1664	Shawn Cain	Cascade Drilling

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
7/19/2021	7/20/2021	66	66	

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☑ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): 56.1

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☑ OTHER – SPECIFY: Sonic

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0	41	7	2" PVC Blank	Flush Thread SCH 40	2	.154	
41	66	7	2" PVC Screen	Flush Thread SCH 40	2	.154	.010

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	2	7	Concrete	.5	poured
2	34	7	Cement Bentonite Grout	8	Tremie
34	39	7	Bentonite Chips	1.25	poured
39	66	7	10/20 Sand	7	poured

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	17	17	clayey sand with silt	Y ✔ N	
17	27	10	silty sands	Y ✔ N	
27	45	18	clayey sandy silt	Y ✔ N	
45	66	21	silty clay to shale	✔ Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☑ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST: TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Jason Camp

6. SIGNATURE

BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.

Shawn Cain — 9/3/2021

SIGNATURE OF DRILLER / PRINT SIGNEE NAME — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD 23 (MP-2)	MP-2	SJ-4254

WELL OWNER NAME(S)	PHONE (OPTIONAL)
El Paso CGO Company, L.L.C. Attn: Joseph Wiley	713-420-3475

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
1001 Louisiana Street, Room 757A	Houston	TX	77002

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	36	44	9.2	N
	LONGITUDE	-107	57	34.7	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

SW/4, SE/4, Sec 11, T29N, R11W, San Juan County, NM

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD 1664	Shawn Cain	Cascade Drilling

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
7/18/2021	7/18/2021	55	56	

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☑ SHALLOW (UNCONFINED) — STATIC WATER LEVEL IN COMPLETED WELL (FT):

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☑ OTHER – SPECIFY: Sonic

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0	40	7	2" PVC Blank	Flush Thread SCH 40	2	.154	
40	55	7	2" PVC Screen	Flush Thread SCH 40	2	.154	.010

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	2	7	Concrete	.5	poured
2	33	7	Cement Bentonite Grout	8	Tremie
33	38	7	Bentonite Chips	1.25	poured
38	56	7	10/20 Sand	4.5	poured

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	17	17	Clayey silt	Y ✔ N	
17	37	20	Silty sands	Y ✔ N	
37	46	9	sandy clays	Y ✔ N	
46	52	6	gray shale siltstone	Y ✔ N	
52	56	4	weathered sandstone	Y ✔ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Jason Camp

6. SIGNATURE

BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.

Shawn Cain — SIGNATURE OF DRILLER / PRINT SIGNEE NAME

9/3/2021 — DATE

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD 24 (MP-3)	MP-3	SJ-4254

WELL OWNER NAME(S)	PHONE (OPTIONAL)
El Paso CGO Company, L.L.C. Attn: Joseph Wiley	713-420-3475

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
1001 Louisiana Street, Room 757A	Houston	TX	77002

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	36	44	6.5	N
	LONGITUDE	-107	57	33	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

SW/4, SE/4, Sec 11, T29N, R11W, San Juan County, NM

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD 1664	Shawn Cain	Cascade Drilling

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
7/17/2021	7/18/2021	79	80	

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☑ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): 72.5

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☑ OTHER – SPECIFY: Sonic

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0	64	7	2" PVC Blank	Flush Thread SCH 40	2	.154	
64	79	7	2" PVC Screen	Flush Thread SCH 40	2	.154	.010

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	2	7	Concrete	.5	poured
2	57	7	Cement Bentonite Grout	14	Tremie
57	62	7	Bentonite Chips	1.25	poured
62	80	7	10/20 Sand	4.5	poured

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	22	22	clayey sand with silt	Y ✔ N	
22	40	18	silty sands	Y ✔ N	
40	50	10	silty clay	Y ✔ N	
50	56	6	sand with silt	Y ✔ N	
56	60	4	clay	Y ✔ N	
60	80	20	fines sands	✔ Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☑ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER - SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Jason Camp

6. SIGNATURE

BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.

Shawn Cain — SIGNATURE OF DRILLER / PRINT SIGNEE NAME

9/3/2021 — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

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1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD 21 (MW-57)	MW-57	SJ-4254

WELL OWNER NAME(S)	PHONE (OPTIONAL)
El Paso CGO Company, L.L.C. Attn: Joseph Wiley	713-420-3475

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
1001 Louisiana Street, Room 757A	Houston	TX	77002

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	36	44	2.9	N
	LONGITUDE	-107	57	32.6	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

SW/4, SE/4, Sec 11, T29N, R11W, San Juan County, NM

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD 1664	Shawn Cain	Cascade Drilling

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
7/15/2021	7/16/2021	80	80	

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☑ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): 75.8

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☑ OTHER – SPECIFY: Sonic

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0	50	8	4" PVC Blank	Flush Thread SCH 40	4	.154	
50	80	8	4" PVC Screen	Flush Thread SCH 40	4	.154	.010

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	2	8	Concrete	.5	poured
2	43	8	Cement Bentonite Grout	11	Tremie
43	48	8	Bentonite Chips	1.5	poured
48	80	8	10/20 Sand	8.5	poured

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	17	17	clayey silt and sands	Y ✔ N	
17	30	13	fine to medium sands with silt	Y ✔ N	
30	41	9	silty clay	Y ✔ N	
41	46	5	silty sand	Y ✔ N	
46	54	8	weathered sandstone	Y ✔ N	
54	80	26	gray sandstone	✔ Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☑ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST: TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Jason Camp

6. SIGNATURE

BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.

Shawn Cain — SIGNATURE OF DRILLER / PRINT SIGNEE NAME

9/3/2021 — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD 25 (TW-2)	TW-2	SJ-4254

WELL OWNER NAME(S)	PHONE (OPTIONAL)
El Paso CGO Company, L.L.C. Attn: Joseph Wiley	713-420-3475

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
1001 Louisiana Street, Room 757A	Houston	TX	77002

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	36	44	10.5	N
	LONGITUDE	-107	57	38.1	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

SW/4, SE/4, Sec 11, T29N, R11W, San Juan County, NM

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD 1664	Shawn Cain	Cascade Drilling

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
7/20/2021	7/20/2021	60	60	

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☑ SHALLOW (UNCONFINED) — STATIC WATER LEVEL IN COMPLETED WELL (FT):

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☑ OTHER – SPECIFY: Sonic

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0	58	7	2" PVC Blank	Flush Thread SCH 40	2	.154	
58	60	7	2" PVC Screen	Flush Thread SCH 40	2	.154	.010

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	2	7	Concrete	.5	poured
2	45	7	Cement Bentonite Grout	11	Tremie
45	50	7	Bentonite Chips	1.25	poured
50	60	7	10/20 Sand	2.5	poured

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	17	17	clayey sand with silt	Y ✔ N	
17	27	10	silty sands	Y ✔ N	
27	45	18	clayey sandy silt	Y ✔ N	
45	60	15	silty clay to shale	Y ✔ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Jason Camp

6. SIGNATURE

BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.

Shawn Cain — SIGNATURE OF DRILLER / PRINT SIGNEE NAME

9/3/2021 — DATE

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD 26 (TW-3)	TW-3	SJ-4254

WELL OWNER NAME(S)	PHONE (OPTIONAL)
El Paso CGO Company, L.L.C. Attn: Joseph Wiley	713-420-3475

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
1001 Louisiana Street, Room 757A	Houston	TX	77002

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	36	44	9	N
	LONGITUDE	-107	57	34.6	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND

* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

SW/4, SE/4, Sec 11, T29N, R11W, San Juan County, NM

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD 1664	Shawn Cain	Cascade Drilling

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
7/18/2021	7/18/2021	53	56	

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☑ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT)

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☑ OTHER – SPECIFY: Sonic

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0	51	7	2" PVC Blank	Flush Thread SCH 40	2	.154	
51	53	7	2" PVC Screen	Flush Thread SCH 40	2	.154	.010

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	2	7	Concrete	.5	poured
2	43	7	Cement Bentonite Grout	10.5	Tremie
43	48	7	Bentonite Chips	1.25	poured
48	56	7	10/20 Sand	2.5	poured

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	17	17	clayey silt	Y ✔ N	
17	37	20	silty sands	Y ✔ N	
37	46	9	sandy clays	Y ✔ N	
46	52	6	gray shale siltstone	Y ✔ N	
52	56	4	weathered sandstone	Y ✔ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Jason Camp

6. SIGNATURE

BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.

Shawn Cain — 9/3/2021

SIGNATURE OF DRILLER / PRINT SIGNEE NAME — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD 27 (TW-4)	TW-4	SJ-4254

WELL OWNER NAME(S)	PHONE (OPTIONAL)
El Paso CGO Company, L.L.C. Attn: Joseph Wiley	713-420-3475

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
1001 Louisiana Street, Room 757A	Houston	TX	77002

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	36	44	6.3	N
	LONGITUDE	-107	57	32.9	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

SW/4, SE/4, Sec 11, T29N, R11W, San Juan County, NM

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD 1664	Shawn Cain	Cascade Drilling

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
7/16/2021	7/17/2021	78	78	

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☑ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): 72.8

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☑ OTHER – SPECIFY: Sonic

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0	76	7	2" PVC Blank	Flush Thread SCH 40	2	.154	
76	78	7	2" PVC Screen	Flush Thread SCH 40	2	.154	.010

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	2	7	Concrete	.5	poured
2	68	7	Cement Bentonite Grout	17	Tremie
68	73	7	Bentonite Chips	1.25	poured
73	78	7	10/20 Sand	1.5	poured

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	22	22	clayey sand with silt	Y ✔N	
22	40	18	silty sand	Y ✔N	
40	50	10	silty clay	Y ✔N	
50	56	6	sand with silt	Y ✔N	
56	60	4	clay	Y ✔N	
60	78	18	fines sands	✔Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☑ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER - SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Jason Camp

6. SIGNATURE

BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.

Shawn Cain — SIGNATURE OF DRILLER / PRINT SIGNEE NAME

9/3/2021 — DATE

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 2 OF 2

PLUGGING RECORD

NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: MW-33 (POD12)

Well owner: El Paso CGP Company, c/o Joseph Wiley Phone No.: 713-420-3475

Mailing address: 1001 Louisiana Street Room 1445B

City: Houston State: TX Zip code: 77002

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: Cascade Drilling

2) New Mexico Well Driller License No.: WD1664 Expiration Date: 01/31/2023

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Jason Camp

4) Date well plugging began: 07/16/2021 Date well plugging concluded: 07/16/2021

5) GPS Well Location: Latitude: 36 deg, 44 min, 2.72 sec
Longitude: -107 deg, 57 min, 32.55 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 80 ft below ground level (bgl), by the following manner: downhole tape

7) Static water level measured at initiation of plugging: 75.8 ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 08/28/2017

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
	Cement / Bentonite grout to TD 80' bgs	65 Gallons	52.19 gallons	tremie	PVC Riser cut 2' bgs

MULTIPLY		BY		AND OBTAIN
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

III. SIGNATURE:

I, Shaun Cain, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Signature of Well Driller

9-3-21
Date

From: Ronald Cain
To: Varsa, Steve
Cc: Shawn Cain; Paisley Brinkerhoff; Malcomson, Robert
Subject: RE: Draft Invoice Blanco Gas Plant_ San Juan Gas Plant Stantec 113-21-1137
Date: Tuesday, February 22, 2022 7:24:52 AM

Hi Steve,

We mailed these to the state quite a while ago (after we completed the revisions you requested). We don't have a tracking number on the mailed package. I will contact the OSE office and confirm they received them.

Ron

From: Varsa, Steve <steve.varsa@stantec.com>
Sent: Monday, February 21, 2022 3:02 PM
To: Ronald Cain <RCain@cascade-env.com>
Cc: Shawn Cain <scain@cascade-env.com>; Paisley Brinkerhoff <pbrinkerhoff@cascade-env.com>; Malcomson, Robert <robert.malcomson@stantec.com>
Subject: FW: Draft Invoice Blanco Gas Plant_ San Juan Gas Plant Stantec 113-21-1137

Ron – I'm following up on this request.

Thanks,
Steve

From: Varsa, Steve
Sent: Thursday, February 10, 2022 5:07 AM
To: Ronald Cain <RCain@cascade-env.com>
Cc: Shawn Cain <scain@cascade-env.com>; Paisley Brinkerhoff <pbrinkerhoff@cascade-env.com>; Malcomson, Robert <robert.malcomson@stantec.com>
Subject: RE: Draft Invoice Blanco Gas Plant_ San Juan Gas Plant Stantec 113-21-1137

Hi Ron – can you send me the final, signed copies of the well construction forms and well abandonment form (for Blanco North) for the these two projects, and proof of NMOSE submittal of these forms?

Please reply in separate e-mails for the Blanco Gas Plant and San Juan River Plant projects.

Thank you,
Steve

Stephen Varsa, P.G.
Senior Hydrogeologist
Stantec Environmental Services
Note – we have moved!
11311 Aurora Avenue
Des Moines, Iowa 50322

Direct: (515) 251-1020
Cell: (515) 710-7523
Office: (515) 253-0830
steve.varsa@stantec.com

From: Ronald Cain <RCain@cascade-env.com>
Sent: Wednesday, September 08, 2021 12:05 PM
To: Varsa, Steve <steve.varsa@stantec.com>
Cc: Shawn Cain <scain@cascade-env.com>; Paisley Brinkerhoff <pbrinkerhoff@cascade-env.com>; Malcomson, Robert <robert.malcomson@stantec.com>
Subject: RE: Draft Invoice Blanco Gas Plant_ San Juan Gas Plant Stantec 113-21-1137

Hi Steve,

Here is the updated copy with the corrections.

Ron

From: Varsa, Steve <steve.varsa@stantec.com>
Sent: Wednesday, September 8, 2021 6:03 AM
To: Ronald Cain <RCain@cascade-env.com>
Cc: Shawn Cain <scain@cascade-env.com>; Paisley Brinkerhoff <pbrinkerhoff@cascade-env.com>; Malcomson, Robert <robert.malcomson@stantec.com>
Subject: RE: Draft Invoice Blanco Gas Plant_ San Juan Gas Plant Stantec 113-21-1137

Hi Ron –

For well owner, change this to “El Paso CGP Company, c/o Joseph Wiley”. The phone number should also be changed to “713-420-3475”. Please revise and send me an updated copy.

Otherwise, it is ready to submit to NMOSE.

Thanks,
Steve

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

From: Ronald Cain <RCain@cascade-env.com>
Sent: Thursday, September 02, 2021 10:21 PM
To: Varsa, Steve <steve.varsa@stantec.com>
Cc: Shawn Cain <scain@cascade-env.com>; Paisley Brinkerhoff <pbrinkerhoff@cascade-env.com>; Malcomson, Robert <robert.malcomson@stantec.com>
Subject: RE: Draft Invoice Blanco Gas Plant_ San Juan Gas Plant Stantec 113-21-1137

Thanks Steve.

I updated the missing information.

Ron

From: Varsa, Steve <steve.varsa@stantec.com>
Sent: Thursday, September 2, 2021 5:32 PM
To: Ronald Cain <RCain@cascade-env.com>
Cc: Shawn Cain <scain@cascade-env.com>; Paisley Brinkerhoff <pbrinkerhoff@cascade-env.com>; Malcomson, Robert <robert.malcomson@stantec.com>
Subject: RE: Draft Invoice Blanco Gas Plant_ San Juan Gas Plant Stantec 113-21-1137

Hi Ron – the permit for MW-33 is attached.

Thanks,
Steve

From: Ronald Cain <RCain@cascade-env.com>
Sent: Thursday, September 02, 2021 4:46 PM
To: Varsa, Steve <steve.varsa@stantec.com>
Cc: Shawn Cain <scain@cascade-env.com>; Paisley Brinkerhoff <pbrinkerhoff@cascade-env.com>; Malcomson, Robert <robert.malcomson@stantec.com>
Subject: RE: Draft Invoice Blanco Gas Plant_ San Juan Gas Plant Stantec 113-21-1137

Hi Steve,

The plugging report for MW-33 is attached, but again, I don't have the permit for MW-33. I checked everything you've sent previously. So I will need to add some information to the plugging report.

Ron

From: Varsa, Steve <steve.varsa@stantec.com>
Sent: Thursday, September 2, 2021 10:54 AM
To: Ronald Cain <RCain@cascade-env.com>
Cc: Shawn Cain <scain@cascade-env.com>; Paisley Brinkerhoff <pbrinkerhoff@cascade-env.com>; Malcomson, Robert <robert.malcomson@stantec.com>
Subject: RE: Draft Invoice Blanco Gas Plant_ San Juan Gas Plant Stantec 113-21-1137

Thanks Ron – I'll get back to you on this by tomorrow. Can you also send me the well abandonment report for MW-33 to review?

Steve

From: Ronald Cain <RCain@cascade-env.com>
Sent: Thursday, September 02, 2021 11:17 AM
To: Varsa, Steve <steve.varsa@stantec.com>; Malcomson, Robert <robert.malcomson@stantec.com>
Cc: Shawn Cain <scain@cascade-env.com>; Paisley Brinkerhoff <pbrinkerhoff@cascade-env.com>
Subject: RE: Draft Invoice Blanco Gas Plant_ San Juan Gas Plant Stantec 113-21-1137

Hi Steve,

Please review the attached well logs.

Thanks,

Ron

From: Varsa, Steve <steve.varsa@stantec.com>
Sent: Tuesday, August 31, 2021 6:52 AM
To: Ronald Cain <RCain@cascade-env.com>; Malcomson, Robert <robert.malcomson@stantec.com>
Cc: Shawn Cain <scain@cascade-env.com>; Paisley Brinkerhoff <pbrinkerhoff@cascade-env.com>
Subject: RE: Draft Invoice Blanco Gas Plant_ San Juan Gas Plant Stantec 113-21-1137

Hi Ron – per our conversation a week before last, I'm still awaiting copies of the NMOSE well construction logs and abandonment for the San Juan River Plant and Blanco Plant - North Flare Pit projects. Please advise on when these may be available.

Also, should I forward our field logs to you or to Matt to complete similar forms for the Miles Federal project?

Steve

From: Ronald Cain <RCain@cascade-env.com>
Sent: Wednesday, August 04, 2021 7:54 PM
To: Varsa, Steve <steve.varsa@stantec.com>; Malcomson, Robert <robert.malcomson@stantec.com>
Cc: Shawn Cain <scain@cascade-env.com>; Paisley Brinkerhoff <pbrinkerhoff@cascade-env.com>
Subject: Draft Invoice Blanco Gas Plant_ San Juan Gas Plant Stantec 113-21-1137

Hi Steve,

I apologize for not getting these to you sooner. Attached are the draft invoices for the Blanco Gas Plant and San Juan Gas Plant drilling and well installations. Please review and let us know if everything is correct and Paisley will finalize the invoices.

Thanks,

Ron

RONALD CAIN

CASCADE | 7773 W Seldon Ln, Peoria AZ 85345
P 623-935-0124 ext 2502 M 623-203-8967 | RCAIN@CASCADE-ENV.COM

EXCELLENCE ON EVERY LEVEL™ WWW.CASCADE-ENV.COM

APPENDIX D

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:
El Paso Natural Gas Company L.L.C., 1001 Louisiana Street, Houston, TX 77002

2. Originating Site(s):
San Juan River Gas Plant

3. Location of Material (Street Address, City, State or ULSTR):
99 Road 6500, Kirtland, New Mexico

4. Source and Description of Waste:
Historic releases occurred on the above-referenced properties. As part of environmental remediation activities, a monitoring well will be hand bailed 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 Natural Gas Company L.L.C. 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: (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, _____, representative for El Paso Natural Gas Company L.L.C. 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.

5. Transporter: Stantec Consulting Services

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: Basin Disposal, Inc., Permit # NM1-005
Address of Facility: 906 S. Main Avenue, Aztec, NM 87410-2285
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.: _____
Surface Waste Management Facility Authorized Agent

DATE 05-24-21 DEL. TKT#.

GENERATOR: El Paso BILL TO: El Paso

HAULING CO. Stanline DRIVER: Sean Clary

ORDERED BY: Joe Wiley (Print Full Name)

CODES:

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

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

NO.	TRUCK	LOCATION(S)	VOLUME	COST	H2S	COST	TOTAL	TIME
1		Blanco Gas Plant		70				
2								
3								
4								
5								

'21 MAY 21 3:21PM

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

☒ Approved ☐ Denied ATTENDANT SIGNATURE _____

SAN JUAN PRINTING 2020 1973-1

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

NO. 812529
NMOCD PERMIT: NM -001-0005
Oil Field Waste Document, Form C138
INVOICE:

DATE 7-26-21
DEL. TKT#.
GENERATOR: Stanlac
BILL TO: Stanlac
HAULING CO. Enviotech
DRIVER: Kholeton
(Print Full Name)
ORDERED BY: Felipe
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	974	Blanco Plant Flare Pit - North	1	.70			7.84	27 JUL 26 11:35AM
2								
3								
4								
5								

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

☑ Approved ☐ Denied ATTENDANT SIGNATURE _____

SAN JUAN PRINTING 2020 1973-1

BASIN DISPOSAL

30 Years of Environmental Health and Safety Excellence

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

NO. 813817
NMOCD PERMIT: NM -001-0005
Oil Field Waste Document, Form C138
INVOICE:

DATE: 8-25-21
DEL. TKT#:
GENERATOR: El Paso
BILL TO: El Paso
HAULING CO. Stanley
DRIVER: Sarah Gardner
(Print Full Name)
ORDERED BY: Joe
CODES:

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

STATE: ☑ NM ☐ CO ☐ AZ ☐ UT

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

NO.	TRUCK	LOCATION(S)	VOLUME	COST	H2S	COST	TOTAL	TIME
1		Blanco Gas Plant North	1 / Tote DW	70			70	
2								
3								
4								
5								

BASIN DISPOSAL

30 Years of Environmental Health and Safety Excellence

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

NO. 817369
NMOCD PERMIT: NM -001-0005
Oil Field Waste Document, Form C138
INVOICE:

DATE 11-10-21

GENERATOR: El Paso CGP

HAULING CO. Stantec

ORDERED BY: Joe

DEL. TKT#.

BILL TO: El Paso CGP

DRIVER: Sean
(Print Full Name)

CODES:

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

STATE: ☒ NM ☐ CO ☐ AZ ☐ UT

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

NO.	TRUCK	LOCATION(S)	VOLUME	COST	H2S	COST	TOTAL	TIME
1		Blanco GP NFP	9	70			7.00	1:52 PM
2								
3								
4								
5								

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

☒ Approved ☐ Denied ATTENDANT SIGNATURE [signature]

SAN JUAN PRINTING 2020 1973-1

APPENDIX E

envirotech

Bill of Lading

MANIFEST # 69022
GENERATOR El Paso
POINT OF ORIGIN Blanco Plant + N. Flare Pit
TRANSPORTER C N J
DATE 07-21-21 JOB # 14073-0055

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	LF II 5	Drill cuttings	F6	14	-	-	-	403 Box SB377	1545	
				14						

$36

RESULTS			LANDFARM EMPLOYEE	NOTES
1284	CHLORIDE TEST	1	Cory Robinson GW2	Lined with Poly
	CHLORIDE TEST		☐ Soil w/ Debris ☐ After Hours/Weekend Receival ☐ Scrape Out ☐ Wash Out	
	CHLORIDE TEST		By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load. Landfarm employee signature is certification of the above material being received and placed accordingly.	
PASS	PAINT FILTER TEST	1		

Generator Onsite Contact _____ Phone _____

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

SAN JUAN PRINTING 2021 407-3

envirotech

BOL# 69022

CHLORIDE TESTING / PAINT FILTER TESTING

DATE 07-21-21 TIME 1543

Attach test strip here

CUSTOMER ElPaso

SITE Blanco Plant N. Flare Pit

DRIVER Curtis Young

SAMPLE Soil Straight X With Dirt _____

CHLORIDE TEST 286 mg/Kg

ACCEPTED YES ✓ NO _____

PAINT FILTER TEST Time started 1545 Time completed 1600

PASS YES ✓ NO _____

SAMPLER/ANALYST Cory Robinson

APPENDIX F

AcuVac Remediation

September 10, 2021

Mr. Stephen Varsa
Senior Hydrogeologist
Stantec Consulting Services, Inc.
11311 Aurora Avenue
Des Moines, IA 50322

Re: Blanco Gas Plant- North Flare Pit Site, Bloomfield, NM (Site)

Dear Steve:

At your request, AcuVac Remediation (AcuVac) performed eight Soil Vapor Extraction (SVE) Quick Tests at the above referenced site (Site) as outlined below in Table A (page 2); Wells Tested on August 24, 2021. and Table B (page 3); Wells Tested on August 25, 2021. Following is the Report and a copy of the Operating Data collected during the SVE Quick Tests. Table C (page 11) contains the summary data for each of the SVE Quick Tests. The primary contaminant was natural gas condensate also referred to as Light Non-Aqueous Phase Liquids (LNAPL).

SVE Quick Test Objectives

- Determine well vacuum and vapor flow of each well.
- Provide vapor phase total petroleum hydrocarbons (TPH) concentrations in the influent vapors.
- Provide background data on the soil vapor plume area.

SVE Quick Test Description

A Quick Test is a short SVE Test of up to 1.5 hours conducted from existing monitoring or observation wells. The test provides background data on the soil vapor plume area which may not totally conform to the groundwater plume. In the case of Quick Tests, outer observation wells are selected, and vacuum and hydraulic influence are recorded during each test. Each Quick Test provides well vacuum and well vapor flow data. From a soil gas sample (influent vapor), the HORIBA® Analyzer can provide TPH in ppmv and the percent of CO_2. Additional instrumentation provides O_2, and H_2S data. The depth to groundwater and depth to LNAPL are also recorded. This collective data helps assess whether the screened interval of one or more of the outer observation well is within the vacuum radius of influence of the tested extraction well.

Table A- Day One Wells Tested					
August 24, 2021					
Well Number	**Diameter (in)**	**Total Depth (ft BTOC)**	**Screen Interval (ft BGS)**	**Distance from Extraction Well (ft)**	**Influence Recorded**
Quick Test #1 - Extraction Well					
MW-52	4.0	52.00	27.0 - 52.0	-	Vacuum
Observation Wells					
MW-47	4.0	91.6	38.5 -88.5	115.1	Vacuum
MW-32	4.0	81.4	40.4 - 80.6	224.1	Vacuum
MP-1	2.0	68.8	41.0 - 66.0	224.9	Vacuum
Quick Test #2 - Extraction Well					
MW-48	4.0	81.9	29.0 - 79.0	-	Vacuum
Observation Wells					
MW-32	4.0	81.4	40.4 - 80.6	54.7	Vacuum
MW-53	4.0	87.6	60.0 - 85.0	108.4	Vacuum
MW-54	4.0	65.5	38.0 - 63.0	111.8	Vacuum
MP-1	2.0	68.8	41.0 - 66.0	113.5	Vacuum
Quick Test #3 - Extraction Well					
MW-32	4.0	81.4	40.4 - 80.6	-	Vacuum
Observation Wells					
TW-2	2.0	62.50	58.0 - 60.0	10.5	Vacuum
MP-1	2.0	68.8	41.0 - 66.0	20.4	Vacuum
MW-48	4.0	81.9	29.0 -79.0	94.7	Vacuum
MW-46	4.0	88.1	35.25 - 85.25	160.1	Vacuum
Quick Test #4 - Extraction Well					
MW-47	4.0	91.6	38.5 -88.5	-	
Observation Wells					
MP-1	2.0	68.8	41.0 - 66.0	131.1	Vacuum
MP-2	2.0	57.4	40.0 - 55.0	145.2	Vacuum
MW-46	4.0	88.1	35.25 - 85.25	201.7	Vacuum

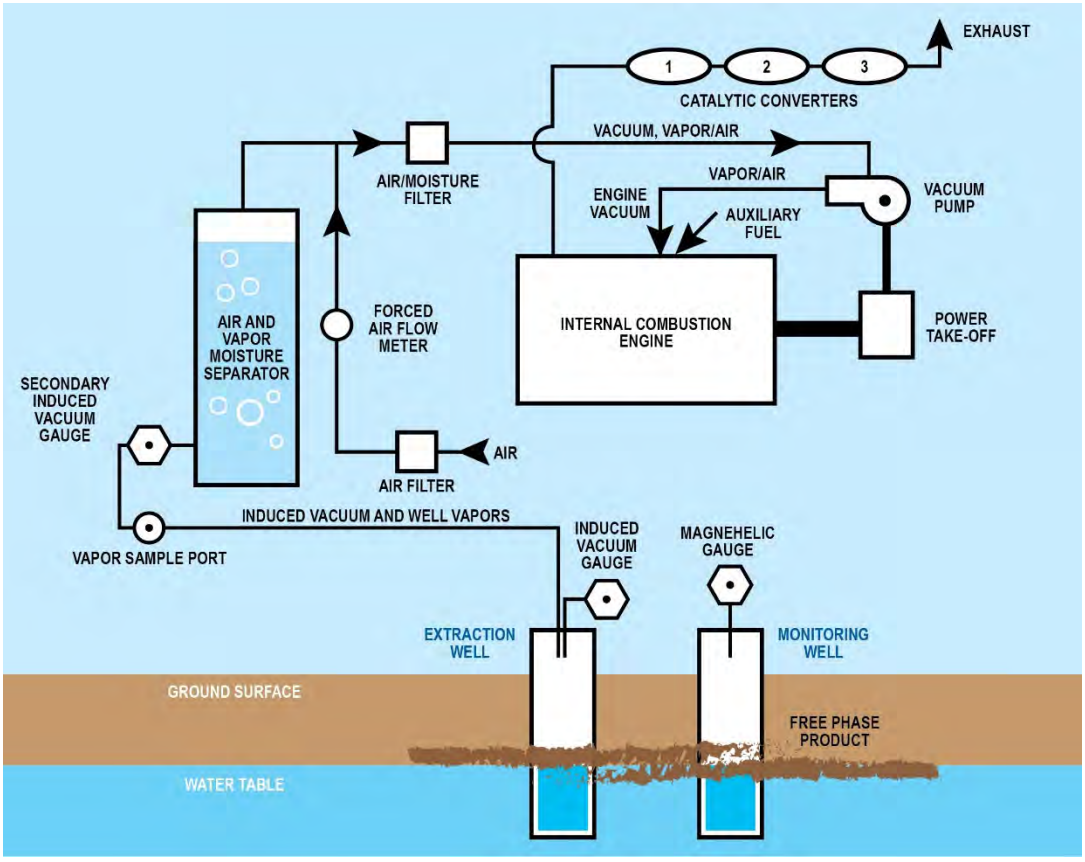
Table B- Day Two Wells Tested August 25, 2021					
Well Number	**Diameter (in)**	**Total Depth (ft BTOC)**	**Screen Interval (ft BGS)**	**Distance from Extraction Well (ft)**	**Influence Recorded**
Quick Test #5 - Extraction Well					
MW-51	4.0	67.40	40.0 - 65.0	-	Vacuum
Observation Wells					
TW-3	4.0	91.6	38.5 -88.5	115.1	Vacuum
MP-3	4.0	81.4	40.4 - 80.6	224.1	Vacuum
MW-47	4.0	91.6	38.5 -88.5	224.9	Vacuum
MW-23	4.0	66.00	50.0 - 65.0		
Quick Test #6 - Extraction Well					
MW-23	4.0	66.00	50.0 - 65.0	-	Vacuum
Observation Wells					
TW-3	4.0	91.6	38.5 -88.5	134.7	Vacuum
MP-3	4.0	81.4	40.4 - 80.6	192.7	Vacuum
MP-2	2.0	57.4	40.0 - 55.0	208.1	Vacuum
MW-53	4.0	87.6	60.0 - 85.0	221.1	Vacuum
Quick Test #7 - Extraction Well					
MW-44	4.0	103	50.0 - 100.0	-	Vacuum
Observation Wells					
MW-56	4.0	59.7	32.0 - 57.0	82.1	Vacuum
MW-49	4.0	73.6	46.0 - 71.0	118.7	Vacuum
MW-43	4.0	101.6	48.4 -98.4	149.1	Vacuum
MW-42	4.0	89.1	36.0 - 86.0	151.1	Vacuum
Quick Test #8 - Extraction Well					
MW-45	4.0	103.5	50.6 - 100.6	-	Vacuum
Observation Wells					
TW-4	2.0	81.2	41.0 - 66.0	10.1	Vacuum
MP-3	4.0	81.4	40.4 - 80.6	19.5	Vacuum
MW-49	4.0	73.6	46.0 - 71.0	122.5	Vacuum
MW-50	4.0	75.9	48.0 - 73.0	179.4	Vacuum

METHODS AND EQUIPMENT

The tests were conducted using AcuVac's I-6 System (AcuVac System) with Roots RAI-33 and RAI-22 blowers and various instrumentation. A complete listing of all equipment provided and the data element it is used to record are listed in the following table.

Equipment and Instrumentation Employed by AcuVac	
Data Element	**Measurement Equipment**
Extraction Well Induced Vacuum and Flow	
Extraction Well Vacuum	Dwyer Magnehelic Gauges
Extractions Well Vapor Flow	Dwyer Rotameter
Observation Wells	
Vacuum / Pressure Influence	Dwyer Digital Manometer
Well Connections	
Manifold to Seal the Well and Hold a Data Logger	Data Logger Manifold
Manifold that Seal the Well and Accept a Manometer	Observation Well Manifold/Plug
Well Vapor Samples	
Extraction Well Non-Diluted Vapor Samples	V-1 Vacuum Box
Extraction Well TPH Vapor Concentrations	HORIBA Analyzer
Extraction Well Vapor Oxygen, Carbon Dioxide Content	RKI GX 2012 O_2 Gas Meter
NAPL Thickness (if present)	
Depth to NAPL and Depth to Groundwater	Solinst Interface Probes Model 122
Groundwater Depression / Upwelling	
Liquid Column in Extraction and Observation Wells	In-Situ Level Troll 700 Data Logger (Pressure Transducer)
Equalize Well Vacuum/Pressure	In-Situ Vented Cable with Chamber
Capture Readings from Data Logger Trolls	In-Situ Rugged Reader Data Logger Interface
Atmospheric Conditions	
Relative and Absolute Barometric Pressure	Testo Model 511

THE ACUVAC SOIL VAPOR EXTRACTION SYSTEM



The vacuum extraction portion of the AcuVac System consists of a vacuum pump driven by an internal combustion (IC) engine. The vacuum pump is connected to the extraction well, and vacuum is applied in a controlled manner. The applied vacuum extracts volatile contaminants from the soil vadose zone and enables volatilization into gas phase from the groundwater. These extracted vapors then flow through the moisture knockout tank to the vacuum pump and the IC engine where the vapors are burned as part of the normal combustion process. Propane is used as auxiliary fuel to help power the engine if the well vapors do not provide the required BTU.

The IC engine load can be dynamically modified as required to achieve and maintain high induced vacuums and/or high well vapor flows to maximize the vacuum SVE Radius of Influence for Pilot Tests. The lower part of the IC engine is encased with a liquid collection pan designed to catch any oil drips or liquid leaks if it should occur.

Emissions from the engine are passed through three catalytic converters to ensure maximum destruction of removed hydrocarbon vapors. The engine's fuel-to-air ratio can be adjusted to maintain efficient combustion. Because the engine is the power source for all IC engine-driven equipment, all systems stop when the engine stops thus eliminating any uncontrolled release of hydrocarbons. As the AcuVac System is held entirely under vacuum, any leaks in the seals or connections are leaked into the system and not emitted into the atmosphere. The engine is automatically shut down by vacuum loss, low oil pressure, over speed or overheating.

SVE QUICK TEST PROCEDURES

- Gauge the extraction well for depth to groundwater and record static data.
- Install the SVE manifold which supports the data logger and the vacuum hose.
- Connect the AcuVac System to the extraction well and then apply vacuum.
- Record the well vacuum and well vapor flow and all system data (including fuel flow of propane), ambient temperature, and barometric pressure.
- Collect non-diluted influent vapor (well gas) samples to provide on-site analytical data consisting of TPH ppmv, VOCs ppm. CO_2 and O_2% every 15 minutes during the Quick Test. The vapor samples are processed with the HORIBA Analyzer, a PID and an RKI GX 2012.
- Provide variable rates of induced well vacuum and well vapor flow over the test period.

DISCUSSION OF TEST RESULTS

Test #1 – Was performed on August 24, 2021, on well MW-52 with a duration of 1.5 hours.

The measured total depth of well MW-52 was 54.90 ft below ground surface (BGS). The depth to groundwater was measured at 50.94 ft below top of casing (BTOC), and the top of well screen was 27.0 ft BGS. The data logger position was derived from the depth to ground water and the static data logger reading. The static data logger reading is recorded at the start time of the test.

The test started at 0730 hours with initial well vacuum of 7 InH_2O, resulting in a well vapor flow of 16.09 scfm. A well vapor sample, taken approximately 5 minutes after the start of the test, was processed with the HORIBA Analyzer which recorded TPH vapor concentrations of 4,180 ppmv. O_2 and CO_2 were 5.5% and 6.04%, respectively. No outer wells recorded any vacuum influence from the extraction well.

During the remainder of the test, the applied extraction well vacuum was increased to 33 InH_2O resulting in well vapor flows ranging from 20.07 to 35.88 scfm. Groundwater upwelling remained mostly steady with a final upwelling of 0.03 ft above the static water level.

TPH vapor concentrations readings were on an overall increasing trend with a final reading of 5,150 ppmv. O_2 levels varied throughout the remainder of the event ranging from 2.5% to 5.6%. CO_2 concentration varied from 5.90% to 7.58%.

The outer wells did not record any vacuum influence from the extraction well. Table #1 on page 12 contains the detailed data for this test. Graphical representations of the test data are located on page 13. Upon completion of the test, no measurable groundwater was observed to have been removed or recovered.

Test #2 – Was performed on August 24, 2021, on well MW-48 with a duration of 1.5 hours.
The measured total depth of well MW-48 was 81.90 ft BGS. The depth to groundwater was measured at 53.58 ft BTOC, and the top of well screen was 29.00 ft BGS. The data logger position was derived from the depth to ground water and the static data logger reading. The static data logger reading is recorded at the start time of the test.

The test started at 0915 hours with initial well vacuum of 32 InH_2O, resulting in a well vapor flow of 12.74 scfm. A well vapor sample, taken approximately 15 minutes after the start of the test, was processed with the HORIBA Analyzer which recorded TPH vapor concentrations of 76 ppmv. O_2 and CO_2 were 20.9% and 0.36%, respectively. No outer wells recorded any vacuum influence from the extraction well.

During the remainder of the test, the applied extraction well vacuum was increased to 55 InH_2O resulting in well vapor flows ranging from 15.92 to 20.37 scfm. A groundwater depression was most likely recorded a result of the applied vacuum fragmenting the water column in the well and reducing the pressure on the data logger (pressure transducer). The groundwater depression was not significant and remained mostly steady during the test with a final upwelling of 0.24 ft below the static water level.

TPH vapor concentrations remained mostly steady during the Test with readings below 100 ppmv. O_2 levels remained steady throughout the remainder of the event at 20.9%. CO_2 concentration remained mostly steady throughout the remainder of the event in the 0.28% range.

The outer wells did not record any vacuum influence from the extraction well. Table #2 on page 14 contains the detailed data for this test. Graphical representations of the test data are located on page 15. Upon completion of the test, no measurable groundwater was observed to have been removed or recovered.

Test #3 – Was performed on August 24, 2021, on well MW-32 with a duration of 1.5 hours.
The measured total depth of welt MW-32 was 81.40 ft BGS. The depth to groundwater was measured at 58.62 ft BTOC, and the top of well screen was 40.04 ft BGS. The data logger position was derived from the depth to ground water and the static data logger reading. The static data logger reading is recorded at the start time of the test.

The test started at 1100 hours with initial well vacuum of 50 InH_2O, resulting in a well vapor flow of 3.26 scfm. A well vapor sample, taken approximately 15 minutes after the start of the test, was processed with the HORIBA Analyzer which recorded TPH vapor concentrations of 550 ppmv. O_2 and CO_2 were 18.3% and 2.46%, respectively. Outer well TW-2 (10.5 ft) recorded vacuum influence of 3.90%.

During the remainder of the test, the applied extraction well vacuum was increased to 105 InH_2O resulting in well vapor flows ranging from 4.37 to 6.59 scfm. A groundwater depression was most likely recorded a result of the applied vacuum fragmenting the water column in the well and reducing the pressure on the data logger (pressure transducer). The groundwater depression was not significant and remained mostly steady during the test with a final reading of 0.24 ft below the static water level.

TPH vapor concentrations varied from 276 to 432 ppmv with a final reading of 312 ppmv. O_2 levels varied throughout the remainder of the event ranging from 17.9% to 18.6%. CO_2 concentration varied from 2.14% to 2.60%.

Outer well TW-2 (45.0 ft) recorded a maximum vacuum influence of 17.92% which is considered within the SVE radius of influence. Well MP-1 (20.4 ft) did not record any vacuum influence and recorded a slight pressure.

Table #3 on page 16 contains the detailed data for this test. Graphical representations of the test data are located on pages 17 and 18. Upon completion of the test, no measurable groundwater was observed to have been removed or recovered.

Test #4 – Was performed on August 24, 2021, on well MW-47 with a duration of 1.5 hours.
The measured total depth of well MW-47 was 91.60 ft BGS. The depth to groundwater was measured at 47.33 ft BTOC, and the top of well screen was 38.5 ft BGS. The data logger position was derived from the depth to ground water and the static data logger reading. The static data logger reading is recorded at the start time of the test.

The test started at 1245 hours with initial well vacuum of 25 InH_2O, resulting in a well vapor flow of 3.39 scfm. A well vapor sample, taken approximately 15 minutes after the start of the test, was processed with the HORIBA Analyzer which recorded TPH vapor concentrations of 118 ppmv. O_2 and CO_2 were 18.1% and 2.32%, respectively.

During the remainder of the test, the applied extraction well vacuum was increased to 160 InH_2O resulting in well vapor flows ranging from 4.95 to 10.21 scfm. A groundwater depression was most likely recorded a result of the applied vacuum fragmenting the water column in the well and reducing the pressure on the data logger (pressure transducer). The groundwater depression was not significant, and remained, mostly steady during the test with a final upwelling of 0.25 ft below the static water level.

TPH vapor concentrations varied from 30 to 74 ppmv with a final reading of 30 ppmv. O_2 levels varied throughout the remainder of the event ranging from 17.6% to 18.3%. CO_2 concentration varied from 2.26% to 2.58%.

The outer wells did not record any vacuum influence from the extraction well. Table #4 on page 19 contains the detailed data for this test. Graphical representations of the test data are located on page 20. Upon completion of the test, no measurable groundwater was observed to have been removed or recovered.

Test #5 – Was performed on August 25, 2021, on well MW-51 with a duration of 1.5 hours.
The measured total depth of well MW-51 was 67.40 ft BGS. The depth to groundwater was measured at 50.93 ft BTOC, and the top of well screen was 50.0 ft BGS. The data logger position was derived from the depth to ground water and the static data logger reading. The static data logger reading is recorded at the start time of the test.

The test started at 0730 hours with initial well vacuum of 50 InH_2O, resulting in a well vapor flow of 5.41 scfm. A well vapor sample, taken approximately 15 minutes after the start of the test, was processed with the HORIBA Analyzer which recorded TPH vapor concentrations of 2,470 ppmv. O_2 and CO_2 were 18.3% and 2.18%, respectively.

During the remainder of the test, the applied extraction well vacuum was increased to 100 InH_2O resulting in well vapor flows ranging from 5.72 to 8.44 scfm. A groundwater depression was most likely recorded a result of the applied vacuum fragmenting the water column in the well and reducing the pressure on the data logger (pressure transducer). The groundwater depression was not significant.

TPH vapor concentrations varied from 2,570 to 2,950 ppmv with a final reading of 2,950 ppmv. O_2 levels varied throughout the remainder of the event ranging from 17.9% to 18.3%. CO_2 concentration varied from 2.22% to 2.42%.

The vacuum influence on outer well MP-2 (20.9 ft) was on a steadily increasing trend during the test with a final reading recorded at 1.77% of the extraction well applied vacuum. Table #5 on page 21 contains the detailed data for this test. Graphical representations of the test data are located on pages 22 and 23. Upon completion of the test, no measurable groundwater was observed to have been removed or recovered.

Test #6 – Was performed on August 25, 2021, on well MW-23 with a duration of 1.5 hours.
The measured total depth of well MW-23 was 66.00 ft BGS. The depth to groundwater was measured at 59.39 ft BTOC, and the top of well screen was 50.0 ft BGS. The data logger position was derived from the depth to ground water and the static data logger reading. The static data logger reading is recorded at the start time of the test.

The test started at 0915 hours with initial well vacuum of 50 InH_2O, resulting in a well vapor flow of 2.47 scfm. A well vapor sample, taken approximately 15 minutes after the start of the test, was processed with the HORIBA Analyzer which recorded TPH vapor concentrations of 180 ppmv. O_2 and CO_2 were 18.9% and 1.98%, respectively.

During the remainder of the test, the applied extraction well vacuum was increased to 130 InH_2O resulting in well vapor flows ranging from 2.42 to 3.28 scfm.

TPH vapor concentrations varied from 90 to 172 ppmv with a final reading of 140 ppmv. O_2 levels varied throughout the remainder of the event ranging from 18.5% to 19.3%. CO_2 concentration varied from 1.68% to 2.50%.

A groundwater depression was most likely recorded a result of the applied vacuum fragmenting the water column in the well and reducing the pressure on the data logger (pressure transducer).. The groundwater depression was not significant.

At test hour 1.0, the groundwater depression changed to groundwater upwelling which ranged from 0.44 ft to 1.19 ft.

No outer wells recorded any vacuum influence from the extraction well. Table #6 on page 24 contains the detailed data for this test. Graphical representations of the test data are located on page 25. Upon completion of the test, no measurable groundwater was observed to have been removed or recovered.

Test #7 – Was performed on August 25, 2021, on well MW-44 with a duration of 1.5 hours.
The measured total depth of well MW-44 was 103.00 ft BGS. The depth to groundwater was measured at 68.28 ft BTOC, and the top of well screen was 50.0 ft BGS. The data logger position was derived from the depth to ground water and the static data logger reading. The static data logger reading is recorded at the start time of the test.

The test started at 1100 hours with initial well vacuum of 50 InH_2O, resulting in a well vapor flow of 2.03 scfm. A well vapor sample, taken approximately 15 minutes after the start of the test, was processed with the HORIBA Analyzer which recorded TPH vapor concentrations of 78 ppmv. O_2 and CO_2 were 20.9% and 0.92%, respectively.

During the remainder of the test, the applied extraction well vacuum was increased to 135 InH_2O resulting in well vapor flows ranging from 1.99 to 2.70 scfm. Groundwater upwelling started at test hour 0.5 by the extraction well applied vacuum and continued upwelling on a steadily increasing trend during the test with a final reading of 1.22 ft above the static level.

TPH vapor concentrations varied from 72 to 112 ppmv with a final reading of 72 ppmv. O_2 levels varied throughout the remainder of the event ranging from 17.0% to 19.8%. CO_2 concentration varied from 1.80% to 3.58%.

No Outer Wells recorded any vacuum influence from the extraction well. Table #7 on page 27 contains the detailed data for this test. Graphical representations of the test data are located on page 28. Upon completion of the test, no measurable groundwater was observed to have been removed or recovered.

Test #8 – Was performed on August 25, 2021, on well MW-45 with a duration of 0.75 hours.
The measured total depth of well MW-45 was 103.50 ft BGS. The depth to groundwater was measured at 75.01 ft BTOC, and the top of well screen was 50.6 ft BGS. The data logger position was derived from the depth to ground water and the static data logger reading. The static data logger reading is recorded at the start time of the test.

The test started at 1245 hours with initial well vacuum of 50 InH_2O, resulting in a well vapor flow of 3.63 scfm. A well vapor sample, taken approximately 15 minutes after the start of the test, was processed with the HORIBA Analyzer which recorded TPH vapor concentrations of 24,240 ppmv. O_2 and CO_2 were 12.4% and 6.06%, respectively.

During the remainder of the test, the applied extraction well vacuum was increased to 115 InH_2O resulting in well vapor flows ranging from 3.89 to 4.61 scfm. Groundwater upwelling started at test hour 0.5 as a result of the extraction well applied vacuum and continued on a steadily increasing trend during the test with a final reading of 3.57 ft above the static level.

TPH vapor concentrations varied from 24,270 to 24,380 ppmv with a final reading of 24,240 ppmv. O_2 levels varied throughout the remainder of the event ranging from 11.8% to 11.9%. CO_2 concentration varied from 5.86% to 5.95%. H_2S recorded the maximum LEL for three consecutive readings. After consultation with Stantec, this test was stopped after 45 minutes due to high and persistently elevated H_2S measurements. Stack vapor samples were obtained from the AcuVac System and no H_2S was present in the sample.

Outer Well MP-3 recorded vacuum influence from the extraction well of 0.22% which is not considered within the radius of influence. Table #8 on page 28 contains the detailed data for this test. Graphical representations of the test data are located on page 29. Upon completion of the test, no measurable groundwater was observed to have been removed or recovered.

INFORMATION INCLUDED WITH REPORT

- Table C - Summary Data for all wells
- Table #1 - Operating Data Quick Test #1 – MW-52
  - Test #1 - Graphical Data
- Table #2 - Operating Data Quick Test #2 - MW-48
  - Test #2 - Graphical Data
- Table #3 - Operating Data Quick Test #3 - MW-32
  - Test #3 - Graphical Data
  - Test #3 - Graphical Data
- Table #4 - Operating Data Quick Test #4 - MW-47
  - Test #4 - Graphical Data
- Table #5 - Operating Data Quick Test #5 - MW-51
  - Test #5 - Graphical Data
  - Test #5 - Graphical Data
- Table #6 - Operating Data Quick Test #6 - MW-23
  - Test #6 - Graphical Data
- Table #7 - Operating Data Quick Test #7 - MW-44
  - Test #7 - Graphical Data
- Table #8 - Operating Data Quick Test #8 - MW-45
  - Test #8 - Graphical Data

After you have reviewed the report and if you have any questions, please contact me. We appreciate you selecting AcuVac to provide this service.

Sincerely,
ACUVAC REMEDIATION, LLC

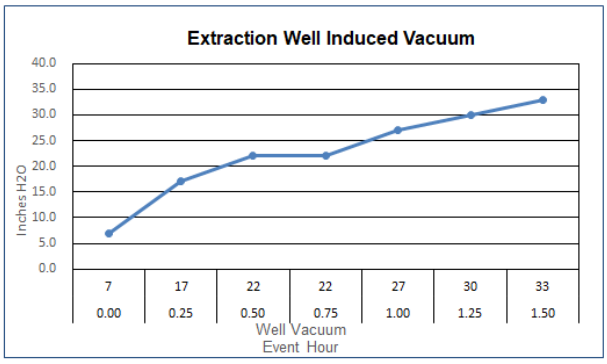
Paul D. Faucher
President

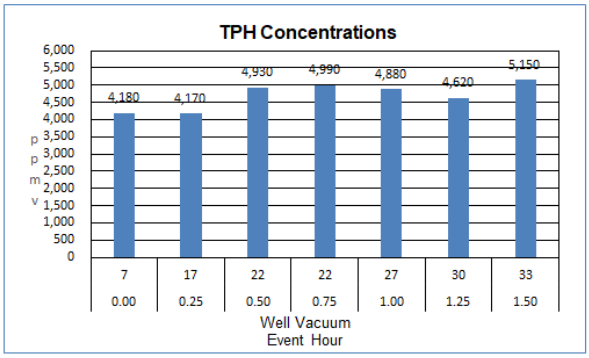
TABLE C
SVE QUICK TESTS
SUMMARY DATA

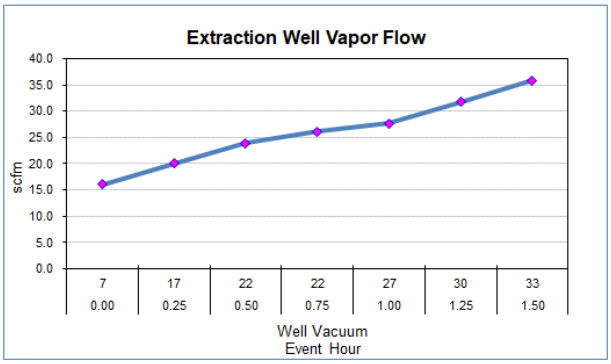
SVE Quick Test Number		#1	#2	#3	#4	#5	#6	#7	#8
Well Number		**MW-52**	**MW-48**	**MW-32**	**MW-47**	**MW-51**	**MW-23**	**MW-44**	**MW-45**
Test Duration	**hours**	**1.50**	**1.50**	**1.50**	**1.50**	**1.50**	**1.50**	**1.50**	**0.75**
Well Data									
TD	ft BGS	54.90	81.90	81.40	91.60	67.40	66.00	103.00	103.50
Well Size	inches	4.0	4.0	4.0	4.0	4.0	4.00	4.0	4.0
Screen Interval	ft BGS	27.0 - 52.0	29.0 - 79.0	40.4 - 80.6	38.5 - 88.5	40.0 - 65.0	50.0 - 65.0	50.0 - 100.0	50.6 - 100.6
Site Elevation	ft	5,650	5,650	5,650	5,650	5,650	5,650	5,650	5,650
Groundwater Data									
Start of Test									
Depth to NAPL	ft BTOC	-	-	58.52	-	-	-	-	-
Depth to Groundwater	ft BTOC	50.94	53.58	58.62	47.33	50.93	59.39	68.28	75.01
LNAPL Thickness	ft	-	-	0.10	-	-	-	-	-
Hydro Equivalent	ft	50.94	53.58	58.55	47.33	50.93	59.39	68.28	75.01
End of Test									
Depth to LNAPL	ft BTOC	-	-	58.55	-	-	-	-	-
Depth to Groundwater	ft BTOC	51.90	53.72	58.55	47.64	51.02	59.41	67.69	71.94
LNAPL Thickness	ft	-	-	0.00	-	-	-	-	-
Hydro Equivalent	ft	51.90	53.72	58.55	47.64	51.02	59.41	67.69	71.94
Well Vacuum and Well Vapor Flow									
Maximum Extraction Well Vacuum	In H_2O	33.00	55.00	105.00	160.00	100.00	130.00	135.00	115.00
Average Extraction Well Vacuum	In H_2O	25.17	45.29	84.29	83.86	78.57	97.86	90.00	81.25
Minimum Extraction Well Vacuum	In H_2O	7.00	32.00	50.00	25.00	50.00	50.00	50.00	50.00
Maxium Extraction Well Vapor Flow	scfm	35.88	20.37	6.59	10.21	8.44	3.36	2.70	4.61
Average Extraction Well Vapor Flow	scfm	27.55	17.38	5.36	7.64	7.02	3.02	2.32	4.06
Minimum Extraction Well Vapor Flow	scfm	16.09	12.74	3.26	3.39	5.41	2.42	1.99	3.63
Vapor Data									
Maximum TPH	ppmv	5,150	82	550	118.0	2,950	180	112	24,380
Average TPH	ppmv	4,703	75	379	64	2,693	145	87	24,297
Minimum TPH	ppmv	4,170	60	276	30.0	2,470	90	72	24,240
Average CO_2	%	6.85	0.29	2.38	2.42	2.29	2.17	2.41	5.96
Average O_2	%	3.7	20.9	18.2	18.0	18.2	18.8	18.7	12.03
Average H_2S	ppm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.00
Groundwater Upwelling									
Data Logger Position	ft BTOC	54.90	81.90	59.23	47.07	38.00	52.06	99.81	98.20
Average Water Column Above Data Logger	ft BTOC	4.33	28.67	(0.00)	44.45	17.01	7.66	32.22	24.63
Average Groundwater Upwelling	ft	0.04	(0.23)	(0.72)	(0.21)	(0.06)	0.33	0.69	1.44
Available Well Screen									
Depth to Groundwater	ft BTOC	50.91	53.78	59.23	47.54	50.99	59.06	67.59	73.57
Top of Well Screen	ft BTOC	27.00	29.00	40.40	25.00	40.00	50.00	50.0	50.60
Available Well Screen	ft	23.91	24.78	18.83	22.54	10.99	9.06	17.6	22.97

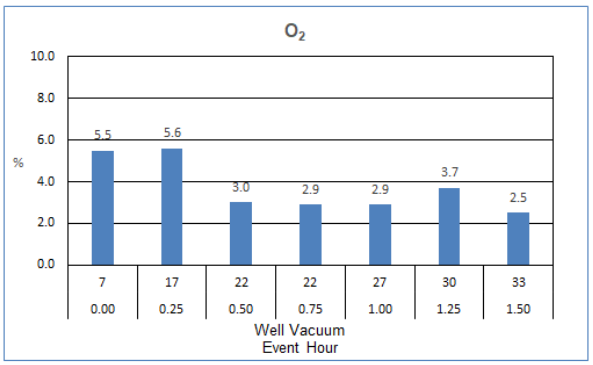
TABLE #1 SVE QUICK TEST #1 EXTRACTION WELL MW-52										
TIME		**7:30**	**7:45**	**8:00**	**8:15**	**8:30**	**8:45**	**9:00**		
TEST HOUR		**0.00**	**0.25**	**0.50**	**0.75**	**1.00**	**1.25**	**1.50**	**AVG**	**MAX**
EXTRACTION WELL MW-52										
Extraction Well Vacuum	In H_2O	7	17	22	22	27	30	33	**25.17**	**33.00**
Well Flow - Magnehelic Gauge		0.12	0.17	0.25	0.30	0.34	0.44	0.54		
Well Flow	scfm	16.09	20.07	23.92	26.09	27.61	31.76	35.88	**27.55**	**35.88**
VAPOR CONCENTRATIONS										
TPH	ppmv	4,180	4,170	4,930	4,990	4,880	4,620	5,150	**4,703**	**5,150**
CO_2	%	6.04	5.90	7.08	7.28	7.14	6.96	7.58	**6.85**	**7.58**
O_2	%	5.5	5.6	3.0	2.9	2.9	3.7	2.5	**3.7**	**5.6**
H_2S	ppm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	**0.0**	**0.0**
ATMOSPHERIC CONDITIONS										
Ambient Temperature	°F	55	57	61	61	63	64	65	**60.9**	**65.0**
Influent Temperature	°F	62	66	66	66	66	66	66	**65.4**	**66.0**
Barometric Pressure	In Hg	30.86	30.86	30.87	30.87	30.87	30.88	30.88	**30.87**	**30.88**
Absolute Pressure	In Hg	24.62	24.62	24.62	24.63	24.63	24.63	24.63	**24.63**	**24.63**
EXTRACTION WELL GROUNDWATER UPWELLING										
Data Logger Position	ft	54.90	54.90	54.90	54.90	54.90	54.90	54.90	**54.90**	**54.90**
Water Column Above Data Logger	ft	4.30	4.37	4.34	4.33	4.33	4.33	4.33	**4.33**	**4.37**
Groundwater Upwelling \ (Depression)	ft	-	0.07	0.04	0.03	0.03	0.03	0.03	**0.04**	**0.07**
AVAILABLE WELLSCREEN										
Depth to Groundwater- BTOC	ft	50.94	50.87	50.90	50.91	50.91	50.91	50.91	**50.91**	**50.94**
Top of Well Screen	ft	27.00	27.00	27.00	27.00	27.00	27.00	27.00	**27.00**	**27.00**
Available Well Screen	ft	23.94	23.87	23.90	23.91	23.91	23.91	23.91	**23.91**	**23.94**
OBSERVED OW VACUUM \ (PRESSURE)										
MP-1 224.9 ft	In H_2O	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.00**	**0.00**
MW-32 224.1 ft	In H_2O	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.00**	**0.00**
MW-47 151.1 ft	In H_2O	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.00**	**0.00**
OBSERVED OW VACUUM \ (PRESSURE) INFLUENCE PERCENTAGE										
MP-1 224.9 ft	%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.00**	**0.00**
MW-32 224.1 ft	%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.00**	**0.00**
MW-47 151.1 ft	%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.00**	**0.00**

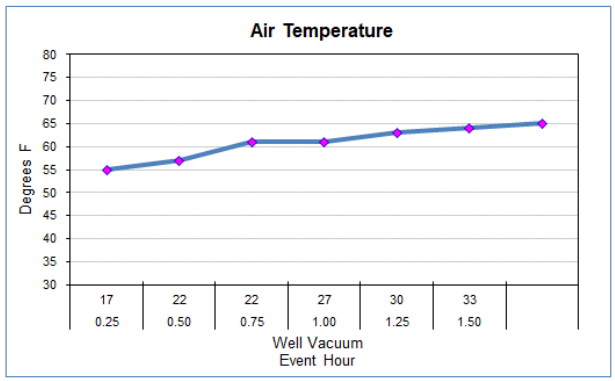
Summary of SVE Quick Test #1
Extraction Well Data
Extraction Well MW-52

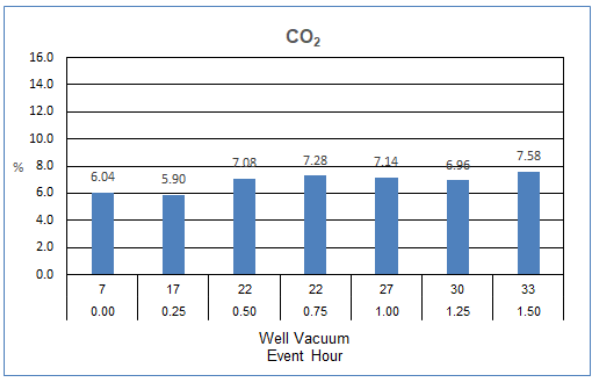












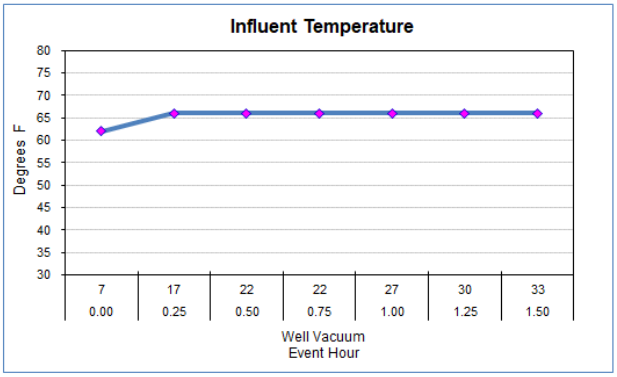
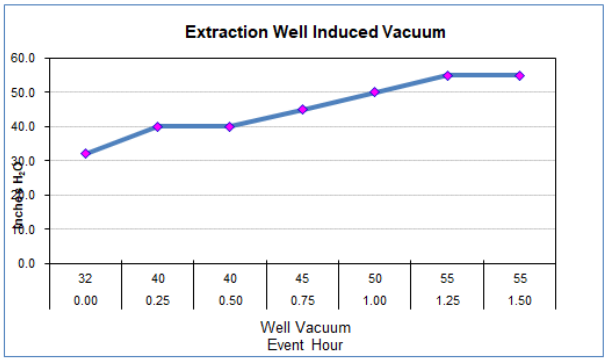
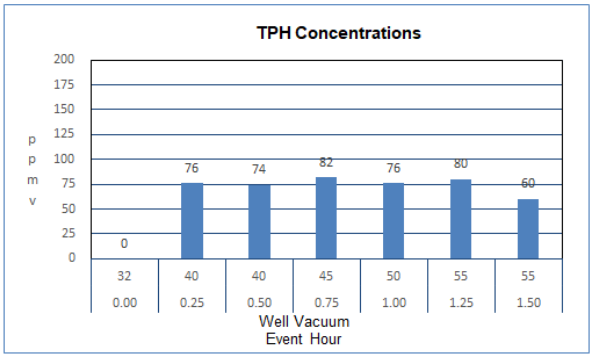
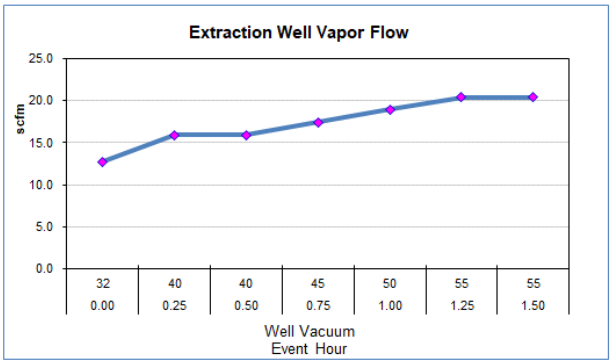


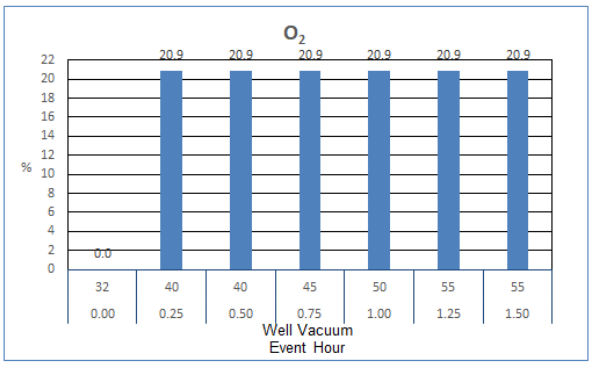
TABLE #2 SVE QUICK TEST #2 EXTRACTION WELL MW-48										
Time		**9:15**	**9:30**	**9:45**	**10:00**	**10:15**	**10:30**	**10:45**		
Test Hour		**0.00**	**0.25**	**0.50**	**0.75**	**1.00**	**1.25**	**1.50**	**AVG**	**MAX**
EXTRACTION WELL MW-48										
Extraction Well Vacuum	In H_2O	32	40	40	45	50	55	55	**45.29**	**55.00**
Well Flow SCFM	scfm	12.74	15.92	15.92	17.44	18.94	20.37	20.37	**17.38**	**20.37**
VAPOR CONCENTRATIONS										
TPH	ppmv	-	76	74	82	76	80	60	**75**	**82**
CO_2	%	-	0.36	0.28	0.26	0.28	0.26	0.28	**0.29**	**0.36**
O_2	%	-	20.9	20.9	20.9	20.9	20.9	20.9	**20.9**	**20.9**
H_2S	ppm	-	0.0	0.0	0.0	0.0	0.0	0.0	**0.0**	**0.0**
ATMOSPHERIC CONDITIONS										
Ambient Temperature	°F	70	72	72	72	73	73	75	**72.43**	**75.00**
Influent Temperature	°F	74	74	74	74	74	76	76	**74.57**	**76.00**
Baromteric Pressure	In Hg	30.87	30.87	30.87	30.87	30.88	30.88	30.88	**30.87**	**30.87**
Absolute Pressure	In Hg	24.63	24.63	24.63	24.63	24.63	24.63	24.63	**24.63**	**24.63**
GROUNDWATER UPWELLING										
Data Logger Position	ft	81.90	81.90	81.90	81.90	81.90	81.90	81.90	**81.90**	**81.90**
Water Column Above Data Logger	ft	28.87	28.59	28.65	28.69	28.68	28.61	28.63	**28.67**	**28.87**
Groundw ater Upw elling \ (Depression)	ft	-	(0.28)	(0.22)	(0.18)	(0.19)	(0.26)	(0.24)	**(0.23)**	**(0.18)**
AVAILABLED WELL SCREEN										
Depth to Groundw ater- BTOC	ft	53.58	53.86	53.80	53.76	53.77	53.84	53.82	**53.78**	**53.86**
Top of Well Screen	ft	29.00	29.00	29.00	29.00	29.00	29.00	29.00	**29.00**	**29.00**
Available Well Screen	ft	24.58	24.86	24.80	24.76	24.77	24.84	24.82	**24.78**	**24.86**
OBSERVED OW VACUUM \ (PRESSURE)										
MW-32 54.7 ft	In H_2O	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.00**	**0.00**
MW-53 108.4 ft	In H_2O	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.00**	**0.00**
MW-54 111.8 ft	In H_2O	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.00**	**0.00**
MP-1 113.5 ft	In H_2O	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.00**	**0.00**
OBSERVED OW VACUUM \ (PRESSURE) INFLUENCE PERCENTAGE										
MW-32 54.7 ft	%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.00**	**0.00**
MW-53 108.4 ft	%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.00**	**0.00**
MW-54 111.8 ft	%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.00**	**0.00**
MP-1 113.5 ft	%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.00**	**0.00**

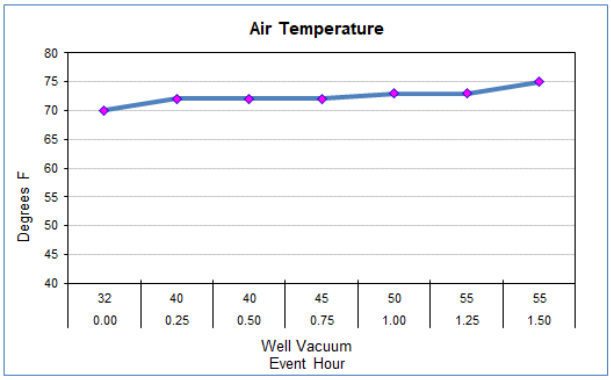
Summary of SVE Quick Test #2
Extraction Well Data
Extraction Well MW-48

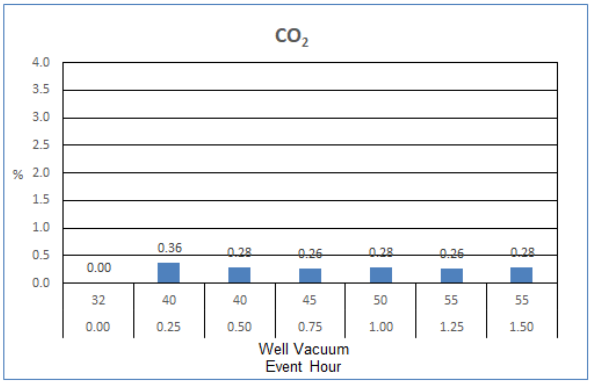












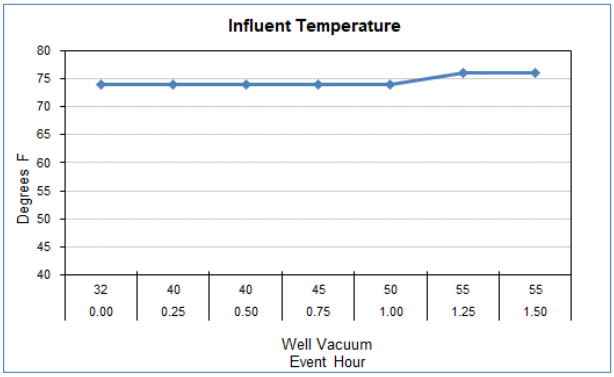
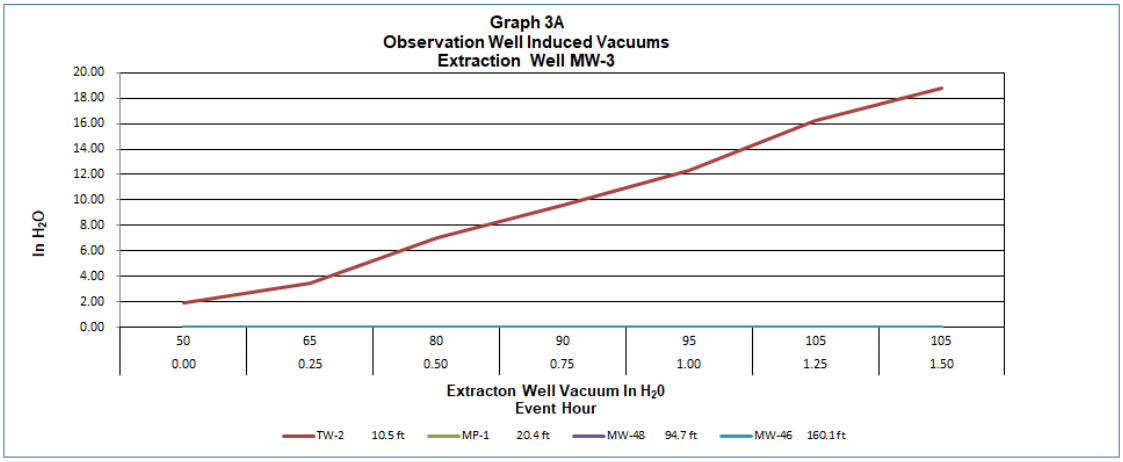
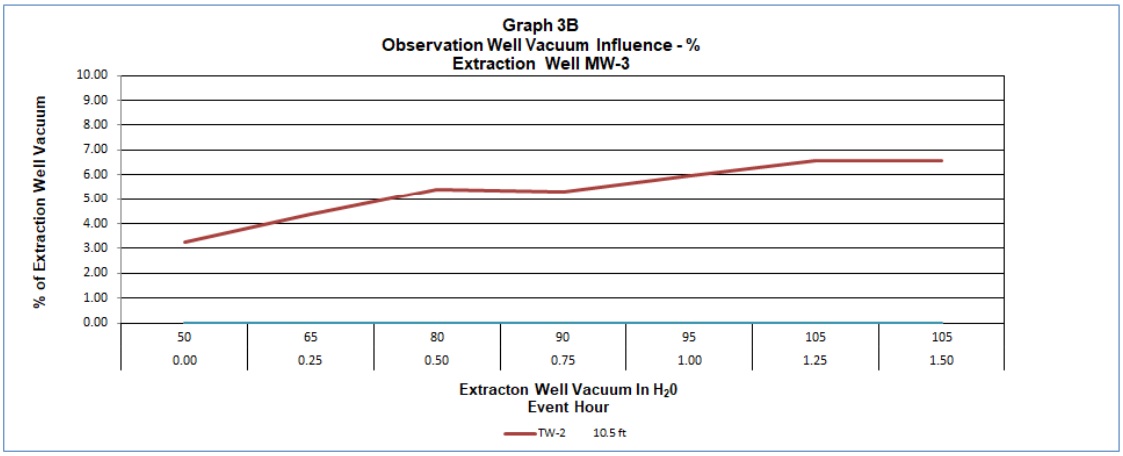


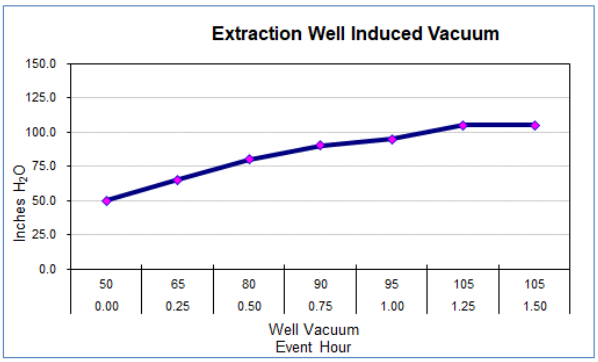
TABLE #3 SVE QUICK TEST #3 EXTRACTION WELL MW-32										
TIME		**11:00**	**11:15**	**11:30**	**11:45**	**12:00**	**12:15**	**12:30**		
TEST HOUR		**0.00**	**0.25**	**0.50**	**0.75**	**1.00**	**1.25**	**1.50**	**AVG**	**MAX**
EXTRACTION WELL MW-32										
Extraction Well Vacuum	In H_2O	50.00	65.00	80.00	90.00	95.00	105.00	105.00	**84.29**	**105.00**
Well Flow	scfm	3.26	4.37	5.40	5.29	5.99	6.59	6.59	**5.36**	**6.59**
VAPOR CONCENTRATIONS										
TPH	ppmv	-	550	432	364	342	276	312	**379**	**550**
CO_2	%	-	2.46	2.60	2.42	2.46	2.14	2.22	**2.38**	**2.60**
O_2	%	-	18.3	17.9	17.9	18.4	18.3	18.6	**18.2**	**18.6**
H_2S	ppm	-	0.0	0.0	0.0	0.0	0.0	0.0	**0.0**	**0.0**
ATMOSPHERIC CONDITIONS						.				
Ambient Temperature	°F	79	79	79	81	81	81	82	**80**	**82**
Influent Temperature	°F	84	84	84	84	84	84	84	**84**	**84**
Baromteric Pressure	In Hg	30.89	30.88	30.88	30.88	30.87	30.87	30.87	**30.88**	**30.88**
Absolute Pressure	In Hg	24.64	24.64	24.63	24.63	24.63	24.62	24.62	**24.63**	**24.63**
GROUNDWATER UPWELLING										
Data Logger Position	ft	59.23	59.23	59.23	59.23	59.23	59.23	59.23	**59.23**	**59.23**
Water Column Above Data Logger	ft	0.61	(0.17)	(0.03)	(0.19)	0.18	(0.13)	(0.29)	**(0.00)**	**0.61**
Groundwater Upwelling	ft	0.00	(0.78)	(0.64)	(0.80)	(0.43)	(0.74)	(0.90)	**(0.72)**	**(0.43)**
AVAILABLE WELL SCREEN										
Depth to Groundwater- BTOC	ft	58.62	59.40	59.26	59.42	59.05	59.36	59.52	**59.23**	**59.52**
Top of Well Screen	ft	40.40	40.40	40.40	40.40	40.40	40.40	40.40	**40.40**	**40.40**
Available Well Screen	ft	18.22	19.00	18.86	19.02	18.65	18.96	19.12	18.83	19.12
OBSERVED OW VACUUM \ (PRESSURE)										
TW-2 10.5 ft	In H_2O	1.95	3.46	7.06	9.57	12.33	16.20	18.82	**9.91**	**18.82**
MP-1 20.4 ft	In H_2O	0.00	0.00	(0.03)	(0.03)	(0.05)	(0.05)	(0.06)	**(0.03)**	**0.00**
MW-48 94.7 ft	In H_2O	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.00**	**0.00**
MW-46 160.1 ft	In H_2O	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.00**	**0.00**
OBSERVED OW VACUUM \ (PRESSURE)										
TW-2 10.5 ft	%	3.90	5.32	8.83	10.63	12.98	15.43	17.92	**10.72**	**17.92**
MP-1 20.4 ft	%	0.00	0.00	(0.04)	(0.03)	(0.05)	(0.05)	(0.06)	**(0.03)**	**0.00**
MW-48 94.7 ft	%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.00**	**0.00**
MW-46 160.1 ft	%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.00**	**0.00**

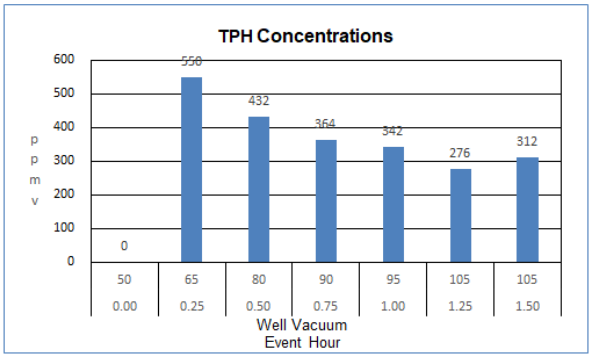
Summary of SVE Quick Test #3
Observation Well Data
Extraction Well MW-32

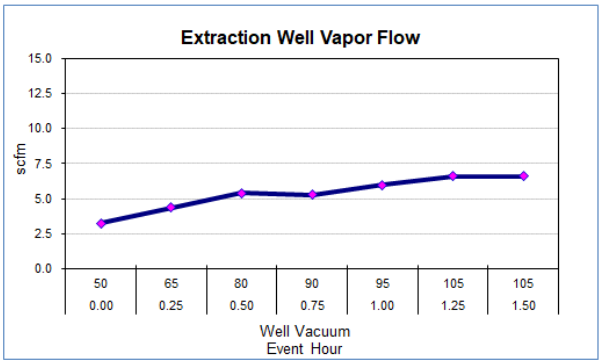


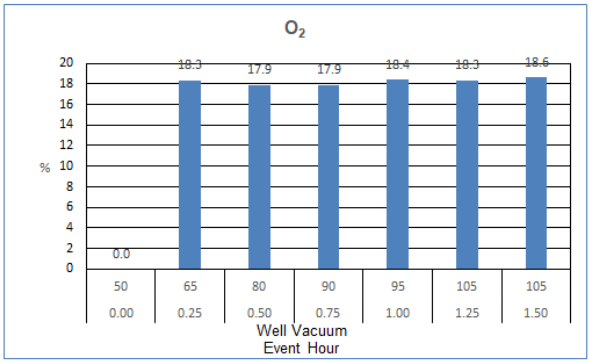


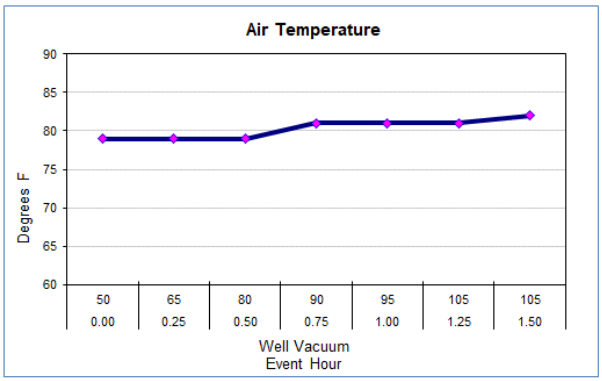
Summary of SVE Quick Test #3
Extraction Well Data
Extraction Well MW-32

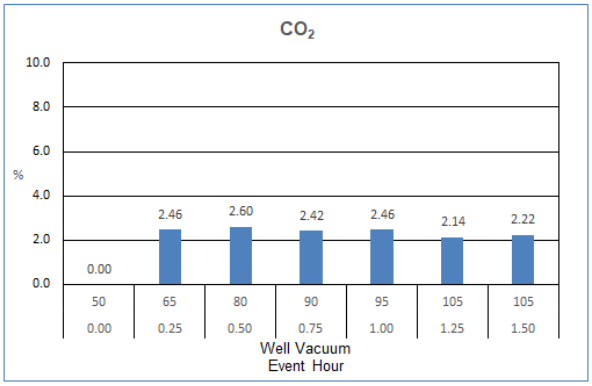












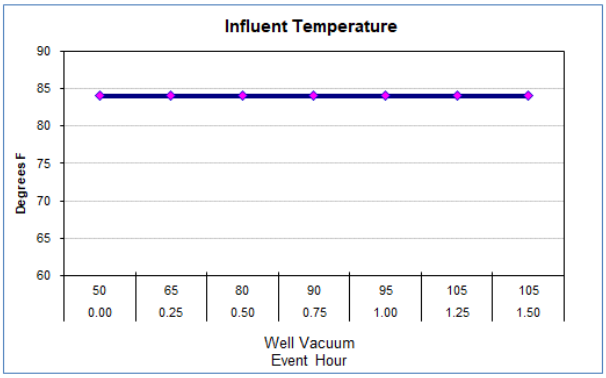
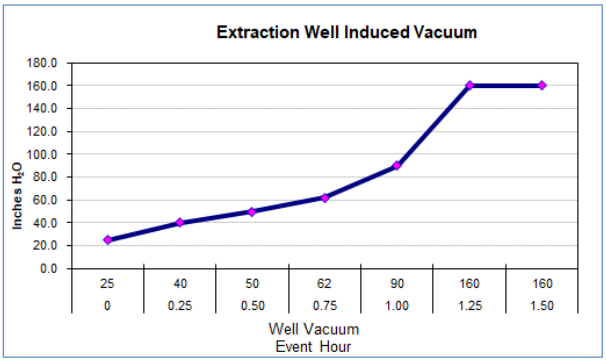
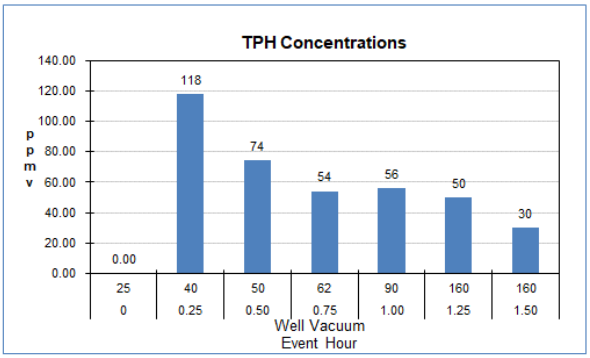
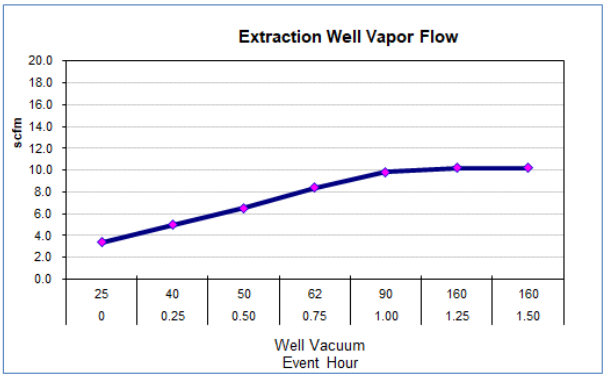


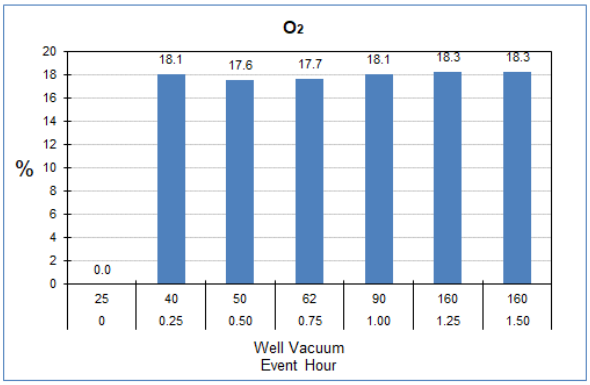
TABLE #4 SVE QUICK TEST #4 EXTRACTION WELL MW-47										
TIME		**12:45**	**13:00**	**13:15**	**13:30**	**13:45**	**14:00**	**14:15**		
TEST HOUR		**0**	**0.25**	**0.50**	**0.75**	**1.00**	**1.25**	**1.50**	**AVG**	**MAX**
EXTRACTION WELL MW-47										
Extraction Well Vacuum	In H_2O	25.00	40.00	50.00	62.00	90.00	160.00	160.00	**83.86**	**160.00**
Well Flow	scfm	3.39	4.95	6.50	8.38	9.83	10.21	10.21	**7.64**	**10.21**
VAPOR CONCENTRATIONS										
TPH	%	-	118	74	54	56	50	30	**63.67**	**118.00**
CO_2	%	-	2.32	2.56	2.58	2.58	2.22	2.26	**2.42**	**2.58**
O_2	%	-	18.1	17.6	17.7	18.1	18.3	18.3	**18.0**	**18.3**
H_2S	ppm	-	0.0	0.0	0.0	0.0	0.0	0.0	**0.0**	**0.0**
ATMOSPHERIC CONDITIONS										
Ambient Temperature	ft	82	82	82	82	82	82	82	**82**	**82**
Influent Temperature	ft	90	90	88	84	84	84	84	**84**	**84**
Baromteric Pressure	ft	30.08	30.87	30.87	30.86	30.86	30.85	30.85	**30.75**	**30.75**
Absolute Pressure	ft	24.63	24.62	24.62	24.62	24.61	24.61	24.61	**24.62**	**24.62**
GROUNDWATER UPWELLING										
Data Logger Position	ft	47.07	47.07	47.07	47.07	47.07	47.07	47.07	**47.07**	**47.07**
Water Column Above Data Logger	ft	44.66	44.45	44.50	44.38	44.45	44.34	44.34	**44.45**	**44.66**
Groundw ater Upw elling	ft	0.00	(0.21)	(0.16)	(0.28)	(0.21)	(0.32)	(0.32)	**(0.21)**	**0.00**
AVAILABLE WELL SCREEN										
Depth to Groundw ater- BTOC	ft	47.33	47.54	47.49	47.61	47.54	47.65	47.65	**47.54**	**47.65**
Top of Well Screen	ft	25.00	25.00	25.00	25.00	25.00	25.00	25.00	**25.00**	**25.00**
Available Well Screen	ft	22.33	22.54	22.49	22.61	22.54	22.65	22.65	**22.54**	**22.65**
OBSERVED OW VACUUM \ (PRESSURE)										
MP-1 131.1 ft	In H_2O	0.00	0.00	(0.03)	(0.04)	(0.04)	(0.02)	(0.02)	**(0.02)**	**0.00**
MP-2 156.2 ft	In H_2O	0.00	0.04	0.00	0.00	0.00	0.00	0.00	**0.01**	**0.04**
MW-46 201.7 ft	In H_2O	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.00**	**0.00**
OBSERVED OW VACUUM \ (PRESSURE)										
MP-1 131.1 ft	%	0.00	0.00	(0.06)	(0.06)	(0.04)	(0.01)	(0.01)	**(0.03)**	**0.00**
MP-2 156.2 ft	%	0.00	0.04	0.00	0.00	0.00	0.00	0.00	**0.01**	**0.04**
MW-46 201.7 ft	%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.00**	**0.00**

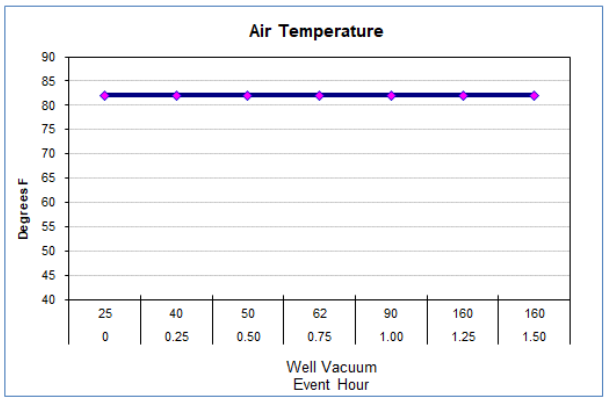
Summary of SVE Quick Test #4
Extraction Well Data
Extraction Well MW-47

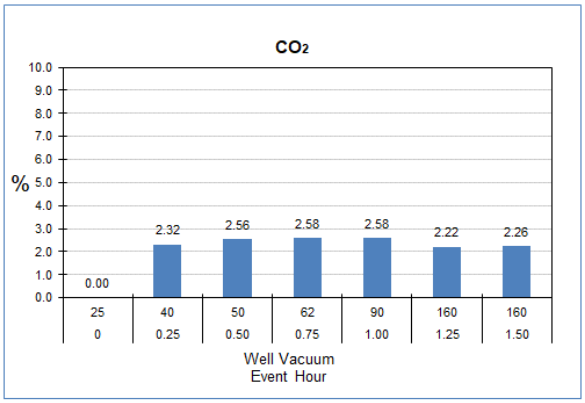












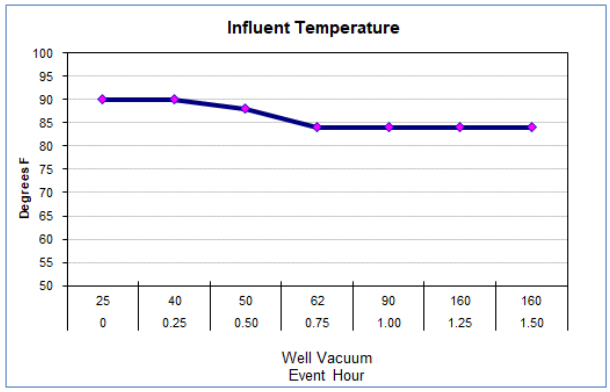
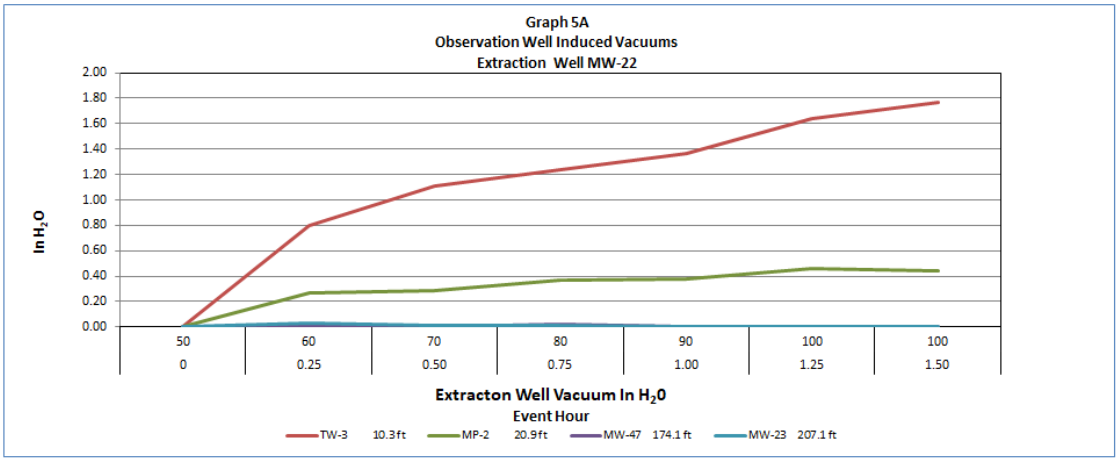
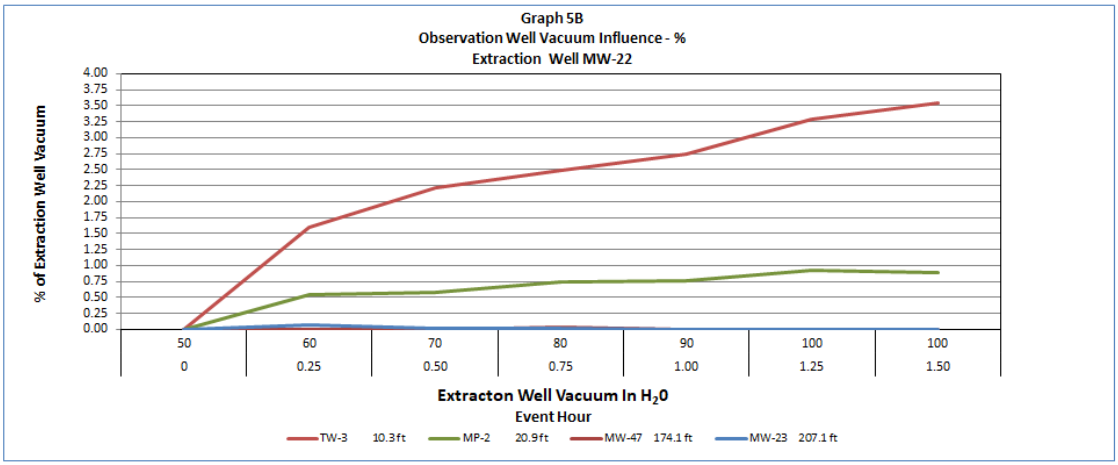


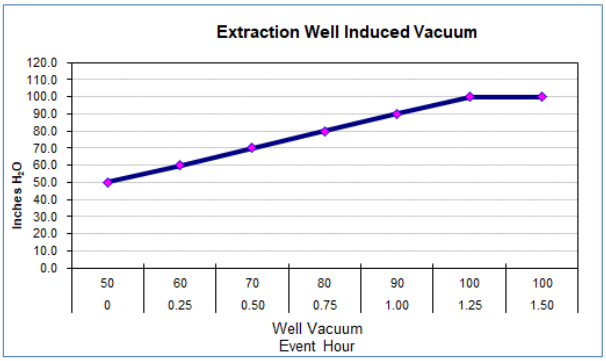
TABLE #5 SVE QUICK TEST #5 EXTRACTION WELL MW-51										
TIME		**7:30**	**7:45**	**8:00**	**8:15**	**8:30**	**8:45**	**9:00**		
TEST HOUR		**0**	**0.25**	**0.50**	**0.75**	**1.00**	**1.25**	**1.50**	**AVG**	**MAX**
EXTRACTION WELL MW-51										
Extraction Well Vacuum	In H_2O	50.00	60.00	70.00	80.00	90.00	100.00	100.00	**78.57**	**100.00**
Well Flow	scfm	5.41	5.72	6.40	7.06	7.67	8.44	8.42	**7.02**	**8.44**
VAPOR CONCENTRATIONS										
TPH	ppmv	-	2,470	2,570	2,620	2,790	2,760	2,950	**2,693**	**2,950**
CO_2	%	-	2.18	2.22	2.24	2.34	2.32	2.42	**2.29**	**2.42**
O_2	%	-	18.3	18.2	18.3	18.1	18.2	17.9	**18.2**	**18.3**
H_2S	ppm	-	0.0	0.0	0.0	0.0	0.0	0.0	**0.0**	**0.0**
ATMOSPHERIC CONDITIONS										
Ambient Temperature	ft	57	57	59	61	61	63	64	**64**	**64**
Influent Temperature	ft	62	64	66	66	68	70	72	**72**	**72**
Baromteric Pressure	ft	30.94	30.93	30.93	30.94	30.93	30.93	30.93	**30.19**	**30.94**
Absolute Pressure	ft	24.67	24.67	24.68	24.68	24.68	24.67	24.67	**24.67**	**24.67**
GROUNDWATER UPWELLING										
Data Logger Position	ft	38.00	38.00	38.00	38.00	38.00	38.00	38.00	**38.00**	**38.00**
Water Column Above Data Logger	ft	17.07	17.03	17.06	17.01	16.99	16.97	16.95	**17.01**	**17.07**
Groundw ater Upw elling	ft	0.00	(0.04)	(0.01)	(0.06)	(0.08)	(0.10)	(0.12)	**(0.06)**	**0.00**
AVAILABLE WELL SCREEN										
Depth to Groundw ater- BTOC	ft	50.93	50.97	50.94	50.99	51.01	51.03	51.05	**50.99**	**51.05**
Top of Well Screen	ft	40.00	40.00	40.00	40.00	40.00	40.00	40.00	**40.00**	**40.00**
Available Well Screen	ft	10.93	10.97	10.94	10.99	11.01	11.03	11.05	**10.99**	**11.05**
OBSERVED OW VACUUM \ (PRESSURE)										
TW-3 10.3 ft	In H_2O	0.00	0.80	1.11	1.24	1.37	1.64	1.77	**1.13**	**1.77**
MP-2 20.9 ft	In H_2O	0.00	0.27	0.29	0.37	0.38	0.46	0.44	**0.32**	**0.46**
MW-47 174.1 ft	In H_2O	0.00	0.00	0.00	0.02	0.00	0.00	0.00	**0.00**	**0.02**
MW-23 207.1 ft	In H_2O	0.00	0.03	0.01	0.01	0.00	0.00	0.00	**0.01**	**0.03**
OBSERVED OW VACUUM \ (PRESSURE)										
TW-3 10.3 ft	%	0.00	1.60	2.22	2.48	2.74	3.28	3.54	**2.27**	**3.54**
MP-2 20.9 ft	%	0.00	0.54	0.58	0.74	0.76	0.92	0.88	**0.63**	**0.92**
MW-47 174.1 ft	%	0.00	0.00	0.00	0.04	0.00	0.00	0.00	**0.01**	**0.04**
MW-23 207.1 ft	%	0.00	0.06	0.02	0.02	0.00	0.00	0.00	**0.01**	**0.06**

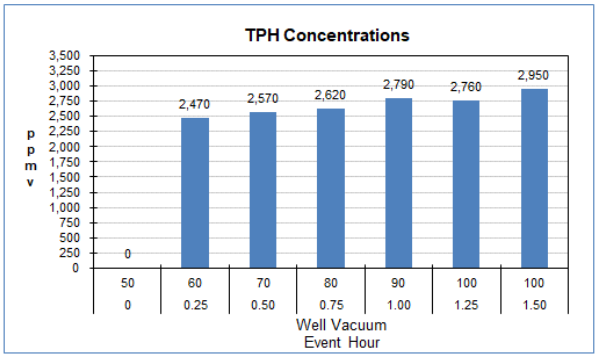
Summary of SVE Quick Test #5
Observation Well Data
Extraction Well MW-51

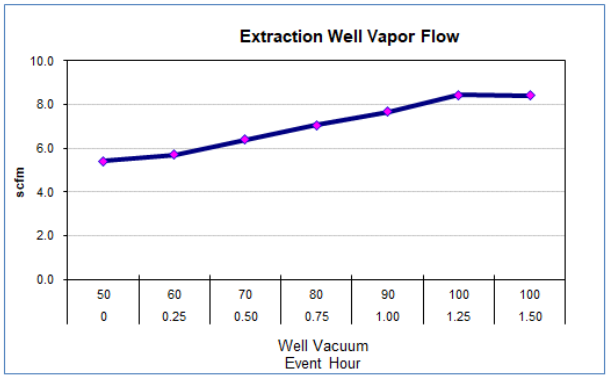


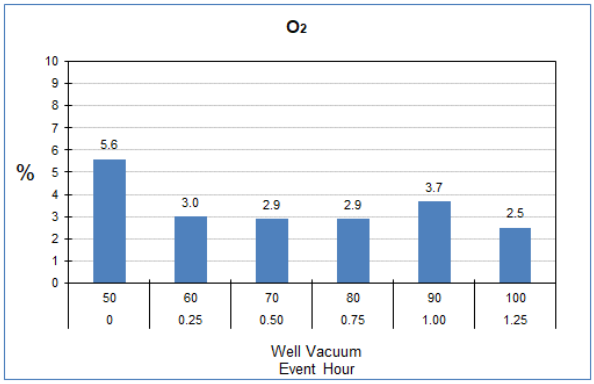


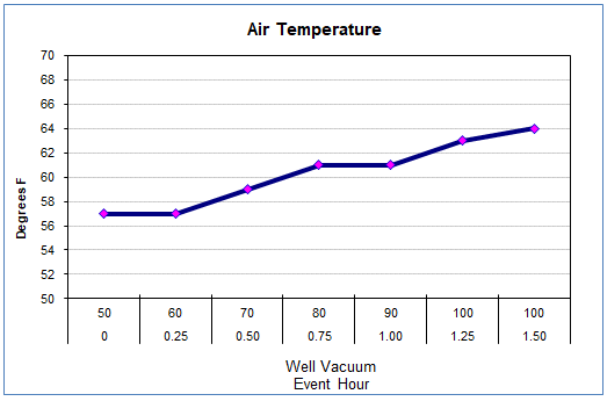
Summary of SVE Quick Test #5
Extraction Well Data
Extraction Well MW-51

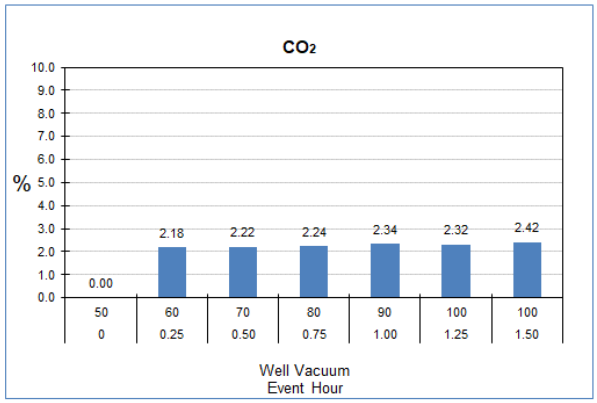












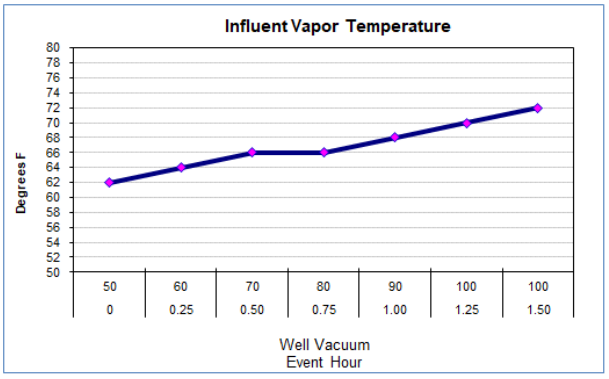
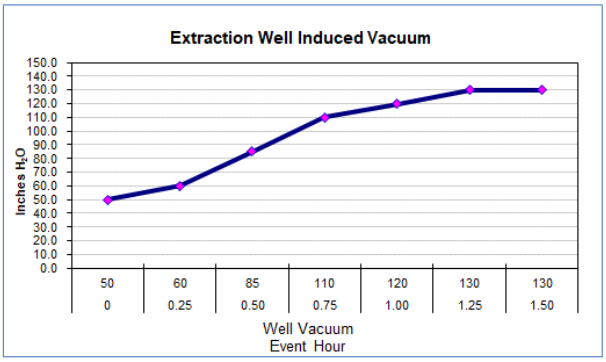
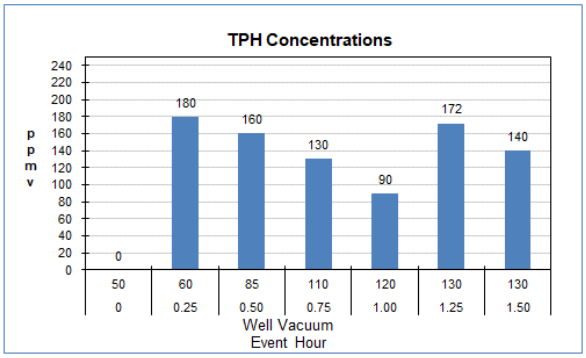
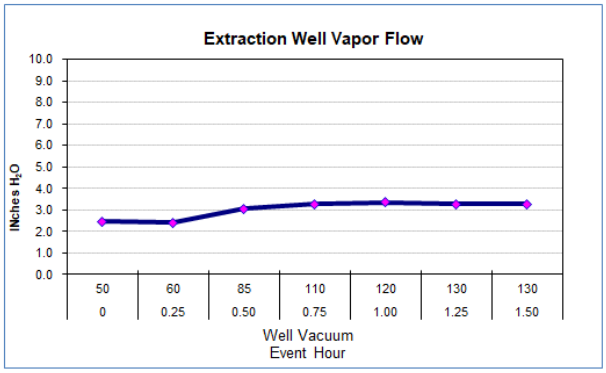


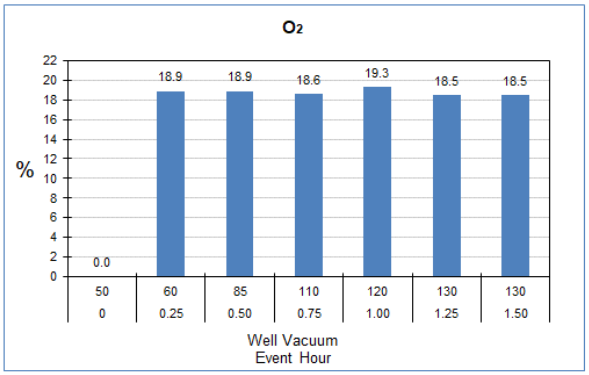
TABLE #6 SVE QUICK TEST #6 EXTRACTION WELL MW-23										
TIME		**9:15**	**9:30**	**9:45**	**10:00**	**10:15**	**10:30**	**10:45**		
TEST HOUR		**0**	**0.25**	**0.50**	**0.75**	**1.00**	**1.25**	**1.50**	**AVG**	**MAX**
EXTRACTION WELL MW-23										
Extraction Well Vacuum	In H_2O	50.00	60.00	85.00	110.00	120.00	130.00	130.00	**97.86**	**130.00**
Well Flow	scfm	2.47	2.42	3.07	3.27	3.36	3.28	3.28	**3.02**	**3.36**
VAPOR CONCENTRATIONS										
TPH	ppmv	-	180	160	130	90	172	140	**145**	**180**
CO_2	%	-	1.98	2.08	2.26	1.68	2.50	2.49	**2.17**	**2.50**
O_2	%	-	18.9	18.9	18.6	19.3	18.5	18.5	**18.8**	**19.3**
H_2S	ppm	-	0.0	0.0	0.0	0.0	0.0	0.0	**0.0**	**0.0**
ATMOSPHERIC CONDITIONS										
Ambient Temperature	ft	66	66	70	72	73	73	73	**70.4**	**73.0**
Influent Temperature	ft	72	79	80	82	84	84	84	**80.7**	**84.0**
Baromteric Pressure	ft	30.94	30.94	30.94	30.94	30.94	30.95	30.94	**30.94**	**30.95**
Absolute Pressure	ft	24.68	24.68	24.68	24.68	24.68	24.68	24.68	**24.68**	**24.68**
GROUNDWATER UPWELLING										
Data Logger Position	ft	52.06	52.06	52.06	52.06	52.06	52.06	52.06	**52.06**	**52.06**
Water Column Above Data Logger	ft	7.33	7.34	7.32	7.30	7.77	8.07	8.52	**7.66**	**8.52**
Groundw ater Upw elling	ft	0.00	0.01	(0.01)	(0.03)	0.44	0.74	1.19	**0.33**	**1.19**
AVAILABLE WELL SCREEN										
Depth to Groundw ater- BTOC	ft	59.39	59.38	59.40	59.42	58.95	58.65	58.20	**59.06**	**59.42**
Top of Well Screen	ft	50.00	50.00	50.00	50.00	50.00	50.00	50.00	**50.00**	**50.00**
Available Well Screen	ft	9.39	9.38	9.40	9.42	8.95	8.65	8.20	**9.06**	**9.42**
OBSERVED OW VACUUM \ (PRESSURE)										
TW-3 134.7 ft	In H_2O	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.00**	**0.00**
MP-3 192.7 ft	In H_2O	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.00**	**0.00**
MP-2 208.1 ft	In H_2O	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.00**	**0.00**
MW-53 221.1 ft	In H_2O	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.00**	**0.00**
OBSERVED OW VACUUM \ (PRESSURE)										
TW-3 134.7 ft	%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.00**	**0.00**
MP-3 192.7 ft	%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.00**	**0.00**
MP-2 208.1 ft	%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.00**	**0.00**
MW-53 221.1 ft	%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.00**	**0.00**

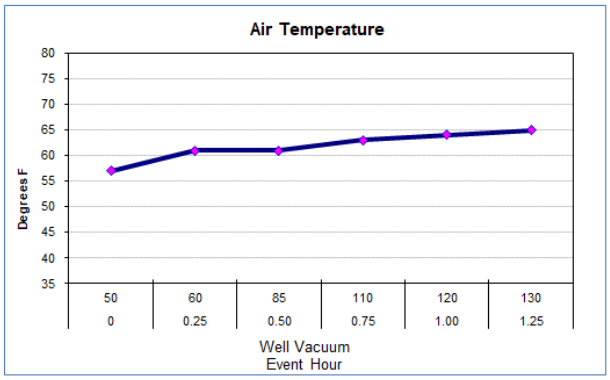
Summary of SVE Quick Test #6
Extraction Well Data
Extraction Well MW-23

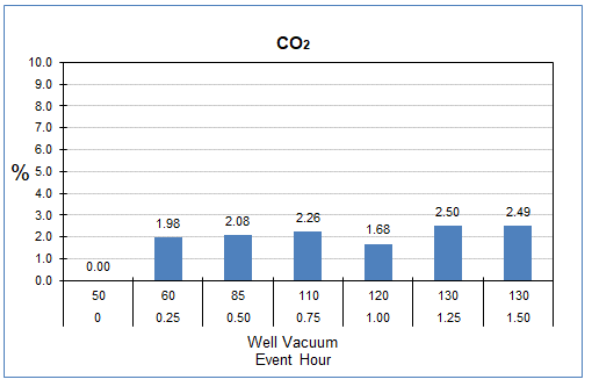












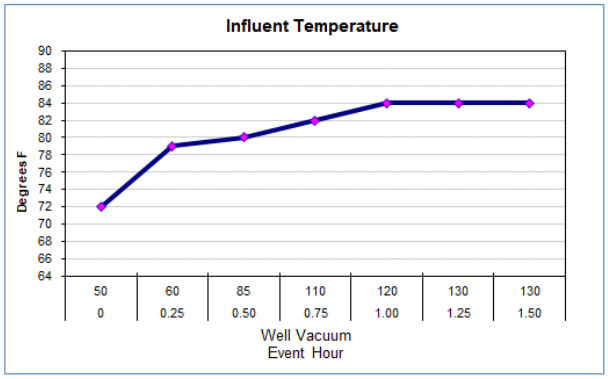
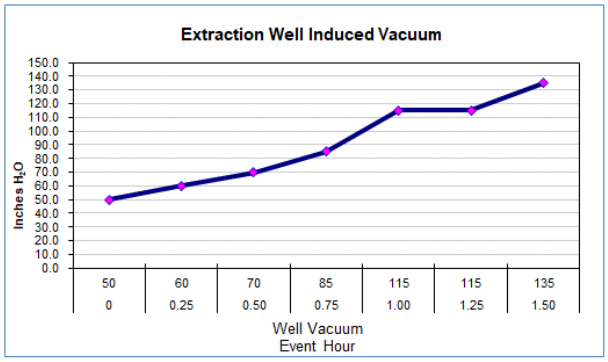
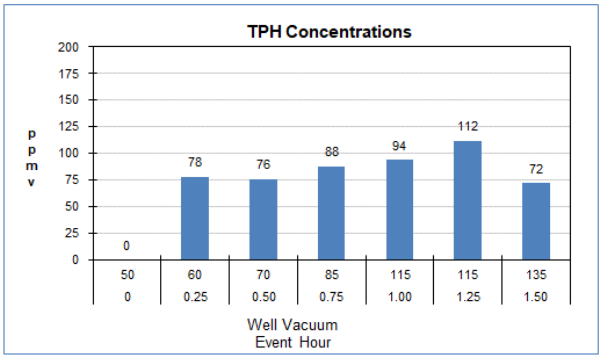
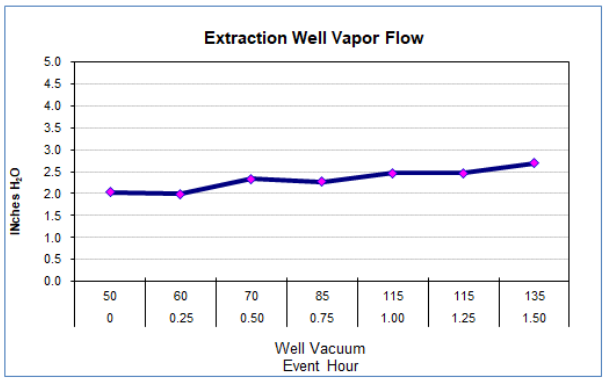


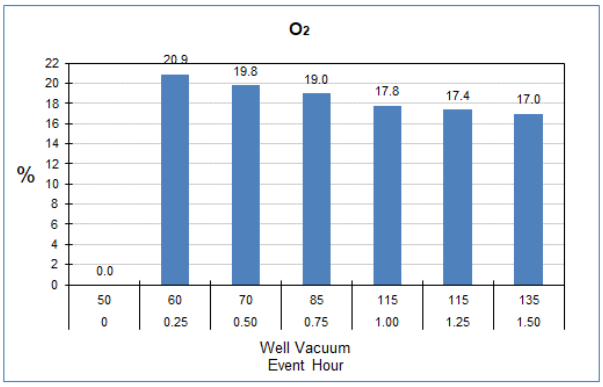
TABLE #7 SVE QUICK TEST #7 EXTRACTION WELL MW-44										
TIME		**11:00**	**11:15**	**11:30**	**11:45**	**12:00**	**12:15**	**12:30**		
TEST HOUR		**0**	**0.25**	**0.50**	**0.75**	**1.00**	**1.25**	**1.50**	**AVG**	**MAX**
EXTRACTION WELL #6										
Extraction Well Vacuum	In H_2O	50.00	60.00	70.00	85.00	115.00	115.00	135.00	**90.00**	**135.00**
Well Flow	scfm	2.03	1.99	2.34	2.27	2.48	2.48	2.70	**2.32**	**2.70**
VAPOR CONCENTRATIONS										
TPH	ppmv	-	78	76	88	94	112	72	**87**	**112**
CO_2	%	-	0.92	1.80	2.06	2.96	3.12	3.58	**2.41**	**3.58**
O_2	%	-	20.9	19.8	19.0	17.8	17.4	17.0	**18.7**	**20.9**
H_2S	ppm	-	0.0	0.0	0.0	0.0	0.0	0.0	**0.0**	**0.0**
ATMOSPHERIC CONDITIONS										
Ambient Temperature	ft	79	81	81	82	84	86	86	**30**	**86**
Influent Temperature	ft	90	92	94	96	98	98	98	**30**	**98**
Baromteric Pressure	ft	30.95	30.94	30.94	30.94	30.92	30.92	30.92	**30.91**	**30.95**
Absolute Pressure	ft	24.68	24.68	24.68	24.68	24.67	24.66	24.66	**24.67**	**24.67**
GROUNDWATER UPWELLING										
Data Logger Position	ft	99.81	99.81	99.81	99.81	99.81	99.81	99.81	**99.81**	**99.81**
Water Column Above Data Logger	ft	31.53	31.80	31.79	32.33	32.60	32.72	32.75	**32.22**	**32.75**
Groundw ater Upw elling	ft	0.00	0.27	0.26	0.80	1.07	1.19	1.22	**0.69**	**1.22**
AVAILABLE WELL SCREEN										
Depth to Groundw ater- BTOC	ft	68.28	68.01	68.02	67.48	67.21	67.09	67.06	**67.59**	**68.28**
Top of Well Screen	ft	50.00	50.00	50.00	50.00	50.00	50.00	50.00	**50.00**	**50.00**
Available Well Screen	ft	18.28	18.01	18.02	17.48	17.21	17.09	17.06	**17.59**	**18.28**
OBSERVED OW VACUUM\(PRESSURE)										
MW-56 82.1 ft	In H_2O	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.00**	**0.00**
MW-49 118.7 ft	In H_2O	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.00**	**0.00**
MW-43 149.1 ft	In H_2O	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.00**	**0.00**
MW-42 151.1 ft	In H_2O	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.00**	**0.00**
OBSERVED OW VACUUM\(PRESSURE)										
MW-56 82.1 ft	%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.00**	**0.00**
MW-49 118.7 ft	%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.00**	**0.00**
MW-43 149.1 ft	%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.00**	**0.00**
MW-42 151.1 ft	%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.00**	**0.00**

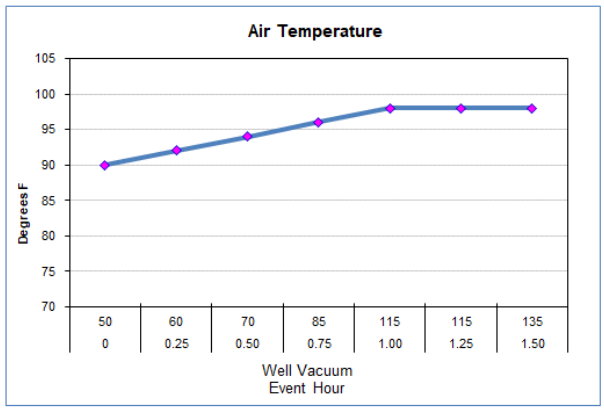
Summary of SVE Quick Test #7
Extraction Well Data
Extraction Well MW-44

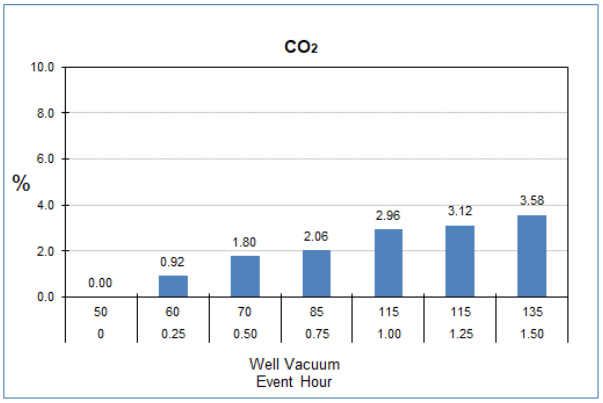












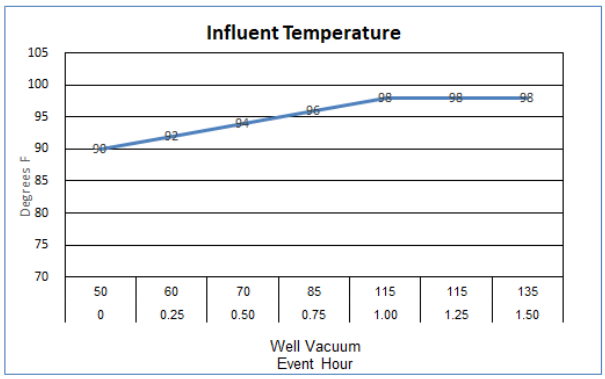
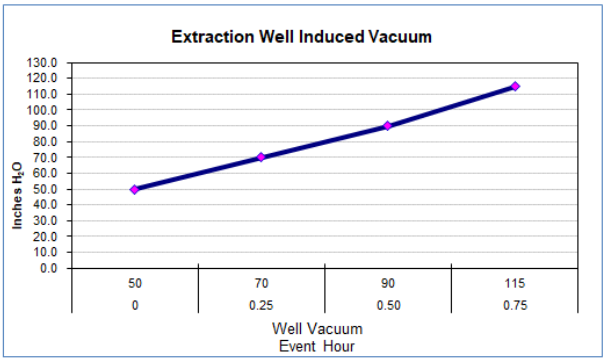
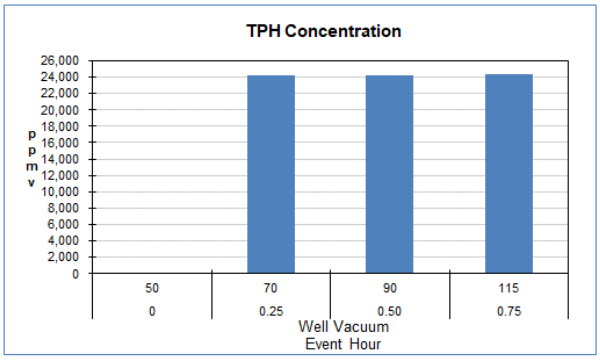
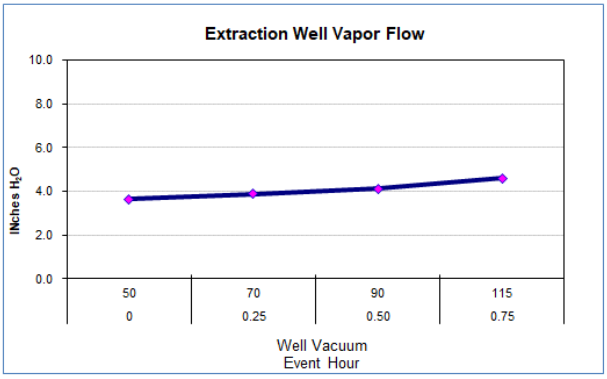


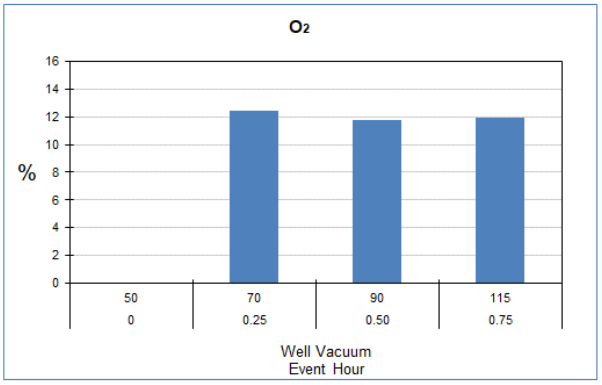
TABLE #8 SVE QUICK TEST #8 EXTRACTION WELL MW-45										
TIME		**12:45**	**13:00**	**13:15**	**13:30**	**13:30**	**14:00**	**14:15**		
TEST HOUR		**0**	**0.25**	**0.50**	**0.75**	**1.00**	**1.25**	**1.50**	**AVG**	**MAX**
EXTRACTION WELL #6										
Extraction Well Vacuum	In H_2O	50.00	70.00	90.00	115.00				**81.25**	**115.00**
Well Flow	scfm	3.63	3.89	4.11	4.61				**4.06**	**4.61**
VAPOR CONCENTRATIONS										
TPH	ppmv	-	24,240	24,270	24,380				**24,297**	**24,380**
CO_2	%	-	6.06	5.95	5.86				**5.96**	**6.06**
O_2	%	-	12.4	11.8	11.9				**12.0**	**12.4**
H_2S	ppm	-	100.0	100.0	100.0				**100.0**	**100.0**
ATMOSPHERIC CONDITIONS										
Ambient Temperature	ft	86	86	88	89				**87.3**	**89.0**
Influent Temperature	ft	96	96	96	96				**96.0**	**96.0**
Baromteric Pressure	ft	30.90	30.89	30.89	30.89				**30.19**	**30.90**
Absolute Pressure	ft	24.65	24.64	24.64	24.64				**24.64**	**24.64**
GROUNDWATER UPWELLING										
Data Logger Position	ft	98.20	98.20	98.20	98.20				**98.20**	**98.20**
Water Column Above Data Logger	ft	23.19	23.18	25.38	26.76				**24.63**	**26.76**
Groundw ater Upw elling	ft	0.00	(0.01)	2.19	3.57				**1.44**	**3.57**
AVAILABLE WELL SCREEN										
Depth to Groundw ater- BTOC	ft	75.01	75.02	72.82	71.44				**73.57**	**75.02**
Top of Well Screen	ft	50.60	50.60	50.60	50.60				**50.60**	**50.60**
Available Well Screen	ft	24.41	24.42	22.22	20.84				**22.97**	**24.42**
OBSERVED OW VACUUM\(PRESSURE)										
TW-4 10.1 ft	In H_2O	0.00	(0.02)	0.00	0.00				**(0.01)**	**0.00**
MP-3 19.5 ft	In H_2O	(0.03)	0.03	0.14	0.25				**0.10**	**0.25**
MW-49 122.5 ft	In H_2O	0.00	0.00	0.00	0.00				**0.00**	**0.00**
MW-50 179.4 ft	In H_2O	0.03	0.00	0.00	0.00				**0.01**	**0.03**
OBSERVED OW VACUUM\(PRESSURE)										
TW-4 10.1 ft	%	0.00	(0.03)	0.00	0.00				**(0.01)**	**0.00**
MP-3 19.5 ft	%	(0.06)	0.04	0.16	0.22				**0.09**	**0.22**
MW-49 122.5 ft	%	0.00	0.00	0.00	0.00				**0.00**	**0.00**
MW-50 179.4 ft	%	0.06	0.00	0.00	0.00				**0.02**	**0.06**

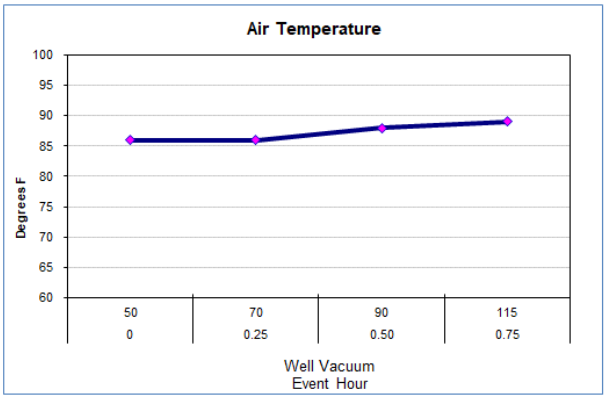
Summary of SVE Quick Test #8
Extraction Well Data
Extraction Well MW-45

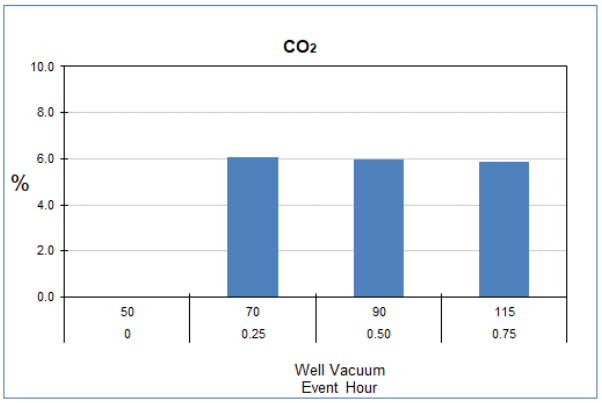


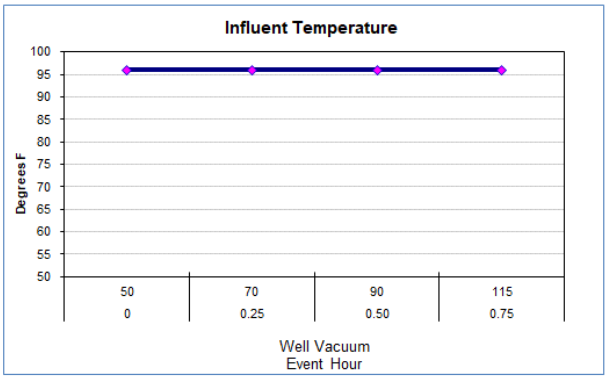












APPENDIX G

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 400-206425-1
Client Project/Site: Blanco Gas Plant – North Flare Pit

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

Attn: Steve Varsa

Marty Edwards

Authorized for release by:
8/16/2021 3:48:35 PM

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

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Laboratory Job ID: 400-206425-1

Table of Contents

Case Narrative

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Job ID: 400-206425-1

Job ID: 400-206425-1

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

Job Narrative
400-206425-1

Comments
No additional comments.

Receipt
The samples were received on 7/27/2021 10:52 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice.

GC/MS VOA
Method 8260C: Due to the high concentration of Ethylbenzene and m-Xylene & p-Xylene, the matrix spike (MS) for preparation batch 860-16655 and analytical batch 860-16784 could not be evaluated for accuracy and precision. The associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) met acceptance criteria.

Method 8260C: The matrix spike (MS) recoveries for preparation batch 860-16211 and analytical batch 860-16816 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8260C: Due to the high concentration of o-Xylene, m-Xylene & p-Xylene, and Toluene, the matrix spike (MS) for preparation batch 860-16854 and analytical batch 860-16975 could not be evaluated for accuracy and precision. The associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) met acceptance criteria.

Method 8260C: Internal standard (ISTD) response for 1,4-Dichlorobenzene-d4 for the following sample was outside acceptance criteria: (840-382-A-1-A). This ISTD does not correspond to any of the requested target compounds; therefore, the data have been reported.

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: MP1 29-31 FT. (400-206425-1), MP1 51-53 FT. (400-206425-3) and TW2 31-33.5 FT. (400-206425-4). Elevated reporting limits (RLs) are provided.

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for 17171 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: TW3 48-50 FT. (400-206425-7) and MP2 49-51 FT. (400-206425-9). Elevated reporting limits (RLs) are provided.

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

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

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

Detection Summary

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Job ID: 400-206425-1

Client Sample ID: MP1 29-31 FT. — Lab Sample ID: 400-206425-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.021	J	0.029	0.0060	mg/Kg	25	☼	8260C	Total/NA
Toluene	0.043	J	0.15	0.029	mg/Kg	25	☼	8260C	Total/NA
Ethylbenzene	0.48		0.029	0.0098	mg/Kg	25	☼	8260C	Total/NA
Xylenes, Total	2.4		0.058	0.029	mg/Kg	25	☼	8260C	Total/NA

Client Sample ID: MP1 39-41 FT. — Lab Sample ID: 400-206425-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.0012	J	0.0054	0.0011	mg/Kg	1	☼	8260C	Total/NA
Xylenes, Total	0.0021	J	0.0022	0.0011	mg/Kg	1	☼	8260C	Total/NA

Client Sample ID: MP1 51-53 FT. — Lab Sample ID: 400-206425-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.0066	J	0.027	0.0056	mg/Kg	25	☼	8260C	Total/NA
Toluene	0.36		0.13	0.027	mg/Kg	25	☼	8260C	Total/NA
Ethylbenzene	0.18		0.027	0.0091	mg/Kg	25	☼	8260C	Total/NA
Xylenes, Total	2.8		0.054	0.027	mg/Kg	25	☼	8260C	Total/NA

Client Sample ID: TW2 31-33.5 FT. — Lab Sample ID: 400-206425-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.029	J	0.056	0.012	mg/Kg	50	☼	8260C	Total/NA
Toluene	0.77		0.28	0.056	mg/Kg	50	☼	8260C	Total/NA
Ethylbenzene	0.36		0.056	0.019	mg/Kg	50	☼	8260C	Total/NA
Xylenes, Total	6.2		0.11	0.056	mg/Kg	50	☼	8260C	Total/NA

Client Sample ID: TW2 37.5-40 FT. — Lab Sample ID: 400-206425-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.0019		0.0011	0.00022	mg/Kg	1	☼	8260C	Total/NA
Toluene	0.025		0.0054	0.0011	mg/Kg	1	☼	8260C	Total/NA
Ethylbenzene	0.0070		0.0011	0.00036	mg/Kg	1	☼	8260C	Total/NA
Xylenes, Total	0.12		0.0022	0.0011	mg/Kg	1	☼	8260C	Total/NA

Client Sample ID: TW3 44-46 FT. — Lab Sample ID: 400-206425-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.00090	J	0.0011	0.00024	mg/Kg	1	☼	8260C	Total/NA
Toluene	0.0065		0.0057	0.0011	mg/Kg	1	☼	8260C	Total/NA
Ethylbenzene	0.00070	J	0.0011	0.00038	mg/Kg	1	☼	8260C	Total/NA
Xylenes, Total	0.022		0.0023	0.0011	mg/Kg	1	☼	8260C	Total/NA

Client Sample ID: TW3 48-50 FT. — Lab Sample ID: 400-206425-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.025	J	0.063	0.013	mg/Kg	50	☼	8260C	Total/NA
Toluene	0.62		0.31	0.063	mg/Kg	50	☼	8260C	Total/NA
Ethylbenzene	0.14		0.063	0.021	mg/Kg	50	☼	8260C	Total/NA
Xylenes, Total	3.5		0.13	0.062	mg/Kg	50	☼	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Pensacola

Detection Summary

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Job ID: 400-206425-1

Client Sample ID: MP2 35-37.5 FT. — Lab Sample ID: 400-206425-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.0026	J	0.0055	0.0011	mg/Kg	1	☼	8260C	Total/NA
Ethylbenzene	0.00065	J	0.0011	0.00037	mg/Kg	1	☼	8260C	Total/NA
Xylenes, Total	0.017		0.0022	0.0011	mg/Kg	1	☼	8260C	Total/NA

Client Sample ID: MP2 49-51 FT. — Lab Sample ID: 400-206425-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.0054		0.0012	0.00025	mg/Kg	1	☼	8260C	Total/NA
Ethylbenzene	0.13		0.0012	0.00041	mg/Kg	1	☼	8260C	Total/NA
Toluene - DL	1.8		0.60	0.12	mg/Kg	100	☼	8260C	Total/NA
Xylenes, Total - DL	14		0.24	0.12	mg/Kg	100	☼	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Pensacola

Sample Summary

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Job ID: 400-206425-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-206425-1	MP1 29-31 FT.	Solid	07/19/21 10:18	07/27/21 10:52
400-206425-2	MP1 39-41 FT.	Solid	07/19/21 10:30	07/27/21 10:52
400-206425-3	MP1 51-53 FT.	Solid	07/19/21 11:50	07/27/21 10:52
400-206425-4	TW2 31-33.5 FT.	Solid	07/20/21 10:18	07/27/21 10:52
400-206425-5	TW2 37.5-40 FT.	Solid	07/20/21 10:55	07/27/21 10:52
400-206425-6	TW3 44-46 FT.	Solid	07/18/21 11:38	07/27/21 10:52
400-206425-7	TW3 48-50 FT.	Solid	07/18/21 11:58	07/27/21 10:52
400-206425-8	MP2 35-37.5 FT.	Solid	07/18/21 15:39	07/27/21 10:52
400-206425-9	MP2 49-51 FT.	Solid	07/18/21 15:58	07/27/21 10:52

Client Sample Results

Client: Stantec Consulting Services Inc
Job ID: 400-206425-1
Project/Site: Blanco Gas Plant – North Flare Pit

Client Sample ID: MP1 29-31 FT.
Lab Sample ID: 400-206425-1
Date Collected: 07/19/21 10:18
Matrix: Solid
Date Received: 07/27/21 10:52
Percent Solids: 85.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.021	J	0.029	0.0060	mg/Kg	☼	07/28/21 15:30	07/30/21 18:34	25
Toluene	0.043	J	0.15	0.029	mg/Kg	☼	07/28/21 15:30	07/30/21 18:34	25
Ethylbenzene	0.48		0.029	0.0098	mg/Kg	☼	07/28/21 15:30	07/30/21 18:34	25
Xylenes, Total	2.4		0.058	0.029	mg/Kg	☼	07/28/21 15:30	07/30/21 18:34	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*56 - 150*	*07/28/21 15:30*	*07/30/21 18:34*	*25*
4-Bromofluorobenzene (Surr)	*132*		*68 - 152*	*07/28/21 15:30*	*07/30/21 18:34*	*25*
Dibromofluoromethane (Surr)	*98*		*53 - 142*	*07/28/21 15:30*	*07/30/21 18:34*	*25*
Toluene-d8 (Surr)	*101*		*70 - 130*	*07/28/21 15:30*	*07/30/21 18:34*	*25*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14				%			08/04/21 10:11	1
Percent Solids	86				%			08/04/21 10:11	1

Client Sample Results

Client: Stantec Consulting Services Inc
Job ID: 400-206425-1
Project/Site: Blanco Gas Plant – North Flare Pit

Client Sample ID: MP1 39-41 FT.
Lab Sample ID: 400-206425-2
Date Collected: 07/19/21 10:30
Matrix: Solid
Date Received: 07/27/21 10:52
Percent Solids: 92.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00022	U	0.0011	0.00022	mg/Kg	☼	07/30/21 10:10	07/30/21 17:53	1
Toluene	**0.0012**	**J**	0.0054	0.0011	mg/Kg	☼	07/30/21 10:10	07/30/21 17:53	1
Ethylbenzene	0.00036	U	0.0011	0.00036	mg/Kg	☼	07/30/21 10:10	07/30/21 17:53	1
Xylenes, Total	**0.0021**	**J**	0.0022	0.0011	mg/Kg	☼	07/30/21 10:10	07/30/21 17:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*56 - 150*	*07/30/21 10:10*	*07/30/21 17:53*	*1*
4-Bromofluorobenzene (Surr)	*100*		*68 - 152*	*07/30/21 10:10*	*07/30/21 17:53*	*1*
Dibromofluoromethane (Surr)	*100*		*53 - 142*	*07/30/21 10:10*	*07/30/21 17:53*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*	*07/30/21 10:10*	*07/30/21 17:53*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.8**				%			08/04/21 10:11	1
Percent Solids	**92**				%			08/04/21 10:11	1

Client Sample Results

Client: Stantec Consulting Services Inc
Job ID: 400-206425-1
Project/Site: Blanco Gas Plant – North Flare Pit

Client Sample ID: MP1 51-53 FT.
Lab Sample ID: 400-206425-3
Date Collected: 07/19/21 11:50
Matrix: Solid
Date Received: 07/27/21 10:52
Percent Solids: 91.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0066	J	0.027	0.0056	mg/Kg	☼	07/28/21 15:30	07/30/21 18:54	25
Toluene	0.36		0.13	0.027	mg/Kg	☼	07/28/21 15:30	07/30/21 18:54	25
Ethylbenzene	0.18		0.027	0.0091	mg/Kg	☼	07/28/21 15:30	07/30/21 18:54	25
Xylenes, Total	2.8		0.054	0.027	mg/Kg	☼	07/28/21 15:30	07/30/21 18:54	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*56 - 150*	*07/28/21 15:30*	*07/30/21 18:54*	*25*
4-Bromofluorobenzene (Surr)	*116*		*68 - 152*	*07/28/21 15:30*	*07/30/21 18:54*	*25*
Dibromofluoromethane (Surr)	*96*		*53 - 142*	*07/28/21 15:30*	*07/30/21 18:54*	*25*
Toluene-d8 (Surr)	*102*		*70 - 130*	*07/28/21 15:30*	*07/30/21 18:54*	*25*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.3				%			08/04/21 10:11	1
Percent Solids	92				%			08/04/21 10:11	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Job ID: 400-206425-1

Client Sample ID: TW2 31-33.5 FT.
Date Collected: 07/20/21 10:18
Date Received: 07/27/21 10:52

Lab Sample ID: 400-206425-4
Matrix: Solid
Percent Solids: 88.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.029	J	0.056	0.012	mg/Kg	☼	07/28/21 15:30	07/30/21 19:15	50
Toluene	0.77		0.28	0.056	mg/Kg	☼	07/28/21 15:30	07/30/21 19:15	50
Ethylbenzene	0.36		0.056	0.019	mg/Kg	☼	07/28/21 15:30	07/30/21 19:15	50
Xylenes, Total	6.2		0.11	0.056	mg/Kg	☼	07/28/21 15:30	07/30/21 19:15	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*56 - 150*	*07/28/21 15:30*	*07/30/21 19:15*	*50*
4-Bromofluorobenzene (Surr)	*103*		*68 - 152*	*07/28/21 15:30*	*07/30/21 19:15*	*50*
Dibromofluoromethane (Surr)	*99*		*53 - 142*	*07/28/21 15:30*	*07/30/21 19:15*	*50*
Toluene-d8 (Surr)	*102*		*70 - 130*	*07/28/21 15:30*	*07/30/21 19:15*	*50*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12				%			08/04/21 10:11	1
Percent Solids	88				%			08/04/21 10:11	1

Client Sample Results

Client: Stantec Consulting Services Inc
Job ID: 400-206425-1
Project/Site: Blanco Gas Plant – North Flare Pit

Client Sample ID: TW2 37.5-40 FT.
Lab Sample ID: 400-206425-5
Date Collected: 07/20/21 10:55
Matrix: Solid
Date Received: 07/27/21 10:52
Percent Solids: 91.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0019		0.0011	0.00022	mg/Kg	☼	07/30/21 10:10	07/30/21 18:13	1
Toluene	0.025		0.0054	0.0011	mg/Kg	☼	07/30/21 10:10	07/30/21 18:13	1
Ethylbenzene	0.0070		0.0011	0.00036	mg/Kg	☼	07/30/21 10:10	07/30/21 18:13	1
Xylenes, Total	0.12		0.0022	0.0011	mg/Kg	☼	07/30/21 10:10	07/30/21 18:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*56 - 150*	*07/30/21 10:10*	*07/30/21 18:13*	*1*
4-Bromofluorobenzene (Surr)	*114*		*68 - 152*	*07/30/21 10:10*	*07/30/21 18:13*	*1*
Dibromofluoromethane (Surr)	*104*		*53 - 142*	*07/30/21 10:10*	*07/30/21 18:13*	*1*
Toluene-d8 (Surr)	*108*		*70 - 130*	*07/30/21 10:10*	*07/30/21 18:13*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.1				%			08/04/21 10:11	1
Percent Solids	92				%			08/04/21 10:11	1

Client Sample Results

Client: Stantec Consulting Services Inc
Job ID: 400-206425-1
Project/Site: Blanco Gas Plant – North Flare Pit

Client Sample ID: TW3 44-46 FT.
Lab Sample ID: 400-206425-6
Date Collected: 07/18/21 11:38
Matrix: Solid
Date Received: 07/27/21 10:52
Percent Solids: 87.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00090	J	0.0011	0.00024	mg/Kg	☼	07/28/21 15:30	07/28/21 16:34	1
Toluene	0.0065		0.0057	0.0011	mg/Kg	☼	07/28/21 15:30	07/28/21 16:34	1
Ethylbenzene	0.00070	J	0.0011	0.00038	mg/Kg	☼	07/28/21 15:30	07/28/21 16:34	1
Xylenes, Total	0.022		0.0023	0.0011	mg/Kg	☼	07/28/21 15:30	07/28/21 16:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*56 - 150*	*07/28/21 15:30*	*07/28/21 16:34*	*1*
4-Bromofluorobenzene (Surr)	*105*		*68 - 152*	*07/28/21 15:30*	*07/28/21 16:34*	*1*
Dibromofluoromethane (Surr)	*99*		*53 - 142*	*07/28/21 15:30*	*07/28/21 16:34*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*	*07/28/21 15:30*	*07/28/21 16:34*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13				%			08/04/21 10:11	1
Percent Solids	87				%			08/04/21 10:11	1

Client Sample Results

Client: Stantec Consulting Services Inc
Job ID: 400-206425-1
Project/Site: Blanco Gas Plant – North Flare Pit

Client Sample ID: TW3 48-50 FT.
Lab Sample ID: 400-206425-7
Date Collected: 07/18/21 11:58
Matrix: Solid
Date Received: 07/27/21 10:52
Percent Solids: 79.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.025	J	0.063	0.013	mg/Kg	☼	07/28/21 15:30	07/29/21 15:20	50
Toluene	0.62		0.31	0.063	mg/Kg	☼	07/28/21 15:30	07/29/21 15:20	50
Ethylbenzene	0.14		0.063	0.021	mg/Kg	☼	07/28/21 15:30	07/29/21 15:20	50
Xylenes, Total	3.5		0.13	0.062	mg/Kg	☼	07/28/21 15:30	07/29/21 15:20	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*56 - 150*	*07/28/21 15:30*	*07/29/21 15:20*	*50*
4-Bromofluorobenzene (Surr)	*105*		*68 - 152*	*07/28/21 15:30*	*07/29/21 15:20*	*50*
Dibromofluoromethane (Surr)	*96*		*53 - 142*	*07/28/21 15:30*	*07/29/21 15:20*	*50*
Toluene-d8 (Surr)	*103*		*70 - 130*	*07/28/21 15:30*	*07/29/21 15:20*	*50*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	21				%			08/04/21 10:11	1
Percent Solids	79				%			08/04/21 10:11	1

Client Sample Results

Client: Stantec Consulting Services Inc
Job ID: 400-206425-1
Project/Site: Blanco Gas Plant – North Flare Pit

Client Sample ID: MP2 35-37.5 FT.
Lab Sample ID: 400-206425-8
Date Collected: 07/18/21 15:39
Matrix: Solid
Date Received: 07/27/21 10:52
Percent Solids: 90.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00023	U	0.0011	0.00023	mg/Kg	☼	07/29/21 12:06	07/29/21 16:41	1
Toluene	**0.0026**	**J**	0.0055	0.0011	mg/Kg	☼	07/29/21 12:06	07/29/21 16:41	1
Ethylbenzene	**0.00065**	**J**	0.0011	0.00037	mg/Kg	☼	07/29/21 12:06	07/29/21 16:41	1
Xylenes, Total	**0.017**		0.0022	0.0011	mg/Kg	☼	07/29/21 12:06	07/29/21 16:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*56 - 150*	*07/29/21 12:06*	*07/29/21 16:41*	*1*
4-Bromofluorobenzene (Surr)	*103*		*68 - 152*	*07/29/21 12:06*	*07/29/21 16:41*	*1*
Dibromofluoromethane (Surr)	*98*		*53 - 142*	*07/29/21 12:06*	*07/29/21 16:41*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*07/29/21 12:06*	*07/29/21 16:41*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.4**				%			08/04/21 10:11	1
Percent Solids	**91**				%			08/04/21 10:11	1

Client Sample Results

Client: Stantec Consulting Services Inc
Job ID: 400-206425-1
Project/Site: Blanco Gas Plant – North Flare Pit

Client Sample ID: MP2 49-51 FT.
Lab Sample ID: 400-206425-9
Date Collected: 07/18/21 15:58
Matrix: Solid
Date Received: 07/27/21 10:52
Percent Solids: 82.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0054		0.0012	0.00025	mg/Kg	☼	07/28/21 15:30	07/28/21 17:36	1
Ethylbenzene	0.13		0.0012	0.00041	mg/Kg	☼	07/28/21 15:30	07/28/21 17:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*56 - 150*	*07/28/21 15:30*	*07/28/21 17:36*	*1*
4-Bromofluorobenzene (Surr)	*128*		*68 - 152*	*07/28/21 15:30*	*07/28/21 17:36*	*1*
Dibromofluoromethane (Surr)	*100*		*53 - 142*	*07/28/21 15:30*	*07/28/21 17:36*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*	*07/28/21 15:30*	*07/28/21 17:36*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	1.8		0.60	0.12	mg/Kg	☼	07/28/21 15:30	07/29/21 15:40	100
Xylenes, Total	14		0.24	0.12	mg/Kg	☼	07/28/21 15:30	07/29/21 15:40	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*56 - 150*	*07/28/21 15:30*	*07/29/21 15:40*	*100*
4-Bromofluorobenzene (Surr)	*110*		*68 - 152*	*07/28/21 15:30*	*07/29/21 15:40*	*100*
Dibromofluoromethane (Surr)	*94*		*53 - 142*	*07/28/21 15:30*	*07/29/21 15:40*	*100*
Toluene-d8 (Surr)	*101*		*70 - 130*	*07/28/21 15:30*	*07/29/21 15:40*	*100*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	18				%			08/04/21 10:11	1
Percent Solids	82				%			08/04/21 10:11	1

Definitions/Glossary

Client: Stantec Consulting Services Inc Job ID: 400-206425-1
Project/Site: Blanco Gas Plant – North Flare Pit

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

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

Surrogate Summary

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Job ID: 400-206425-1

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(56-150)	(68-152)	(53-142)	(70-130)
400-206425-1	MP1 29-31 FT.	97	132	98	101
400-206425-2	MP1 39-41 FT.	106	100	100	100
400-206425-3	MP1 51-53 FT.	100	116	96	102
400-206425-4	TW2 31-33.5 FT.	99	103	99	102
400-206425-5	TW2 37.5-40 FT.	107	114	104	108
400-206425-6	TW3 44-46 FT.	101	105	99	100
400-206425-7	TW3 48-50 FT.	90	105	96	103
400-206425-8	MP2 35-37.5 FT.	106	103	98	102
400-206425-9	MP2 49-51 FT.	103	128	100	98
400-206425-9 - DL	MP2 49-51 FT.	97	110	94	101
840-381-A-2-B MSD	Matrix Spike Duplicate	125	99	114	95
840-381-B-2-A MS	Matrix Spike	123	119	106	101
840-382-A-1-A MS	Matrix Spike	96	99	97	103
860-8503-G-2-A MS	Matrix Spike	99	94	100	95
LCS 860-16784/3	Lab Control Sample	93	96	102	97
LCS 860-16975/3	Lab Control Sample	95	101	99	105
LCS 860-17171/3	Lab Control Sample	107	100	103	100
LCSD 860-16784/4	Lab Control Sample Dup	100	99	104	100
LCSD 860-16975/4	Lab Control Sample Dup	94	101	101	100
LCSD 860-17171/4	Lab Control Sample Dup	102	97	101	101
MB 860-16784/8	Method Blank	101	96	100	99
MB 860-16975/8	Method Blank	103	98	98	103
MB 860-17171/9	Method Blank	97	98	96	103

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

QC Association Summary

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Job ID: 400-206425-1

GC/MS VOA

Analysis Batch: 16784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-206425-6	TW3 44-46 FT.	Total/NA	Solid	8260C	16881
400-206425-9	MP2 49-51 FT.	Total/NA	Solid	8260C	16881
MB 860-16784/8	Method Blank	Total/NA	Solid	8260C	
LCS 860-16784/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-16784/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

Prep Batch: 16881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-206425-1	MP1 29-31 FT.	Total/NA	Solid	5030C	
400-206425-3	MP1 51-53 FT.	Total/NA	Solid	5030C	
400-206425-4	TW2 31-33.5 FT.	Total/NA	Solid	5030C	
400-206425-6	TW3 44-46 FT.	Total/NA	Solid	5030C	
400-206425-7	TW3 48-50 FT.	Total/NA	Solid	5030C	
400-206425-9	MP2 49-51 FT.	Total/NA	Solid	5030C	
400-206425-9 - DL	MP2 49-51 FT.	Total/NA	Solid	5030C	

Analysis Batch: 16975

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-206425-7	TW3 48-50 FT.	Total/NA	Solid	8260C	16881
400-206425-8	MP2 35-37.5 FT.	Total/NA	Solid	8260C	17023
400-206425-9 - DL	MP2 49-51 FT.	Total/NA	Solid	8260C	16881
MB 860-16975/8	Method Blank	Total/NA	Solid	8260C	
LCS 860-16975/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-16975/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

Prep Batch: 17023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-206425-8	MP2 35-37.5 FT.	Total/NA	Solid	5030C	

Analysis Batch: 17171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-206425-1	MP1 29-31 FT.	Total/NA	Solid	8260C	16881
400-206425-2	MP1 39-41 FT.	Total/NA	Solid	8260C	17181
400-206425-3	MP1 51-53 FT.	Total/NA	Solid	8260C	16881
400-206425-4	TW2 31-33.5 FT.	Total/NA	Solid	8260C	16881
400-206425-5	TW2 37.5-40 FT.	Total/NA	Solid	8260C	17181
MB 860-17171/9	Method Blank	Total/NA	Solid	8260C	
LCS 860-17171/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-17171/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

Prep Batch: 17181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-206425-2	MP1 39-41 FT.	Total/NA	Solid	5030C	
400-206425-5	TW2 37.5-40 FT.	Total/NA	Solid	5030C	

General Chemistry

Analysis Batch: 17701

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-206425-1	MP1 29-31 FT.	Total/NA	Solid	Moisture - 2540	
400-206425-2	MP1 39-41 FT.	Total/NA	Solid	Moisture - 2540	

QC Association Summary

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Job ID: 400-206425-1

General Chemistry (Continued)

Analysis Batch: 17701 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-206425-3	MP1 51-53 FT.	Total/NA	Solid	Moisture - 2540	
400-206425-4	TW2 31-33.5 FT.	Total/NA	Solid	Moisture - 2540	
400-206425-5	TW2 37.5-40 FT.	Total/NA	Solid	Moisture - 2540	
400-206425-6	TW3 44-46 FT.	Total/NA	Solid	Moisture - 2540	
400-206425-7	TW3 48-50 FT.	Total/NA	Solid	Moisture - 2540	
400-206425-8	MP2 35-37.5 FT.	Total/NA	Solid	Moisture - 2540	
400-206425-9	MP2 49-51 FT.	Total/NA	Solid	Moisture - 2540	
MB 860-17701/1	Method Blank	Total/NA	Solid	Moisture - 2540	
400-206425-1 DU	MP1 29-31 FT.	Total/NA	Solid	Moisture - 2540	

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Job ID: 400-206425-1

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

Lab Sample ID: MB 860-16784/8
Matrix: Solid
Analysis Batch: 16784

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00021	U	0.0010	0.00021	mg/Kg			07/28/21 12:03	1
Toluene	0.0010	U	0.0050	0.0010	mg/Kg			07/28/21 12:03	1
Ethylbenzene	0.00034	U	0.0010	0.00034	mg/Kg			07/28/21 12:03	1
Xylenes, Total	0.00099	U	0.0020	0.00099	mg/Kg			07/28/21 12:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*56 - 150*		*07/28/21 12:03*	*1*
4-Bromofluorobenzene (Surr)	*96*		*68 - 152*		*07/28/21 12:03*	*1*
Dibromofluoromethane (Surr)	*100*		*53 - 142*		*07/28/21 12:03*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*07/28/21 12:03*	*1*

Lab Sample ID: LCS 860-16784/3
Matrix: Solid
Analysis Batch: 16784

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.0500	0.0491		mg/Kg		98	66 - 142		
Toluene			0.0500	0.0454		mg/Kg		91	74 - 130		
Ethylbenzene			0.0500	0.0472		mg/Kg		94	80 - 130		
m,p-Xylenes			0.0500	0.0491		mg/Kg		98	78 - 130		
o-Xylene			0.0500	0.0483		mg/Kg		97	79 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*56 - 150*
4-Bromofluorobenzene (Surr)	*96*		*68 - 152*
Dibromofluoromethane (Surr)	*102*		*53 - 142*
Toluene-d8 (Surr)	*97*		*70 - 130*

Lab Sample ID: LCSD 860-16784/4
Matrix: Solid
Analysis Batch: 16784

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.0500	0.0497		mg/Kg		99	66 - 142	1	25
Toluene			0.0500	0.0471		mg/Kg		94	74 - 130	4	25
Ethylbenzene			0.0500	0.0483		mg/Kg		97	80 - 130	2	25
m,p-Xylenes			0.0500	0.0465		mg/Kg		93	78 - 130	5	25
o-Xylene			0.0500	0.0496		mg/Kg		99	79 - 130	3	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*56 - 150*
4-Bromofluorobenzene (Surr)	*99*		*68 - 152*
Dibromofluoromethane (Surr)	*104*		*53 - 142*
Toluene-d8 (Surr)	*100*		*70 - 130*

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Job ID: 400-206425-1

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

Lab Sample ID: MB 860-16975/8
Matrix: Solid
Analysis Batch: 16975

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00021	U	0.0010	0.00021	mg/Kg			07/29/21 12:44	1
Toluene	0.0010	U	0.0050	0.0010	mg/Kg			07/29/21 12:44	1
Ethylbenzene	0.00034	U	0.0010	0.00034	mg/Kg			07/29/21 12:44	1
Xylenes, Total	0.00099	U	0.0020	0.00099	mg/Kg			07/29/21 12:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*56 - 150*		*07/29/21 12:44*	*1*
4-Bromofluorobenzene (Surr)	*98*		*68 - 152*		*07/29/21 12:44*	*1*
Dibromofluoromethane (Surr)	*98*		*53 - 142*		*07/29/21 12:44*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*07/29/21 12:44*	*1*

Lab Sample ID: LCS 860-16975/3
Matrix: Solid
Analysis Batch: 16975

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.0500	0.0425		mg/Kg		85	66 - 142		
Toluene			0.0500	0.0418		mg/Kg		84	74 - 130		
Ethylbenzene			0.0500	0.0422		mg/Kg		84	80 - 130		
m,p-Xylenes			0.0500	0.0401		mg/Kg		80	78 - 130		
o-Xylene			0.0500	0.0439		mg/Kg		88	79 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*56 - 150*
4-Bromofluorobenzene (Surr)	*101*		*68 - 152*
Dibromofluoromethane (Surr)	*99*		*53 - 142*
Toluene-d8 (Surr)	*105*		*70 - 130*

Lab Sample ID: LCSD 860-16975/4
Matrix: Solid
Analysis Batch: 16975

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.0500	0.0483		mg/Kg		97	66 - 142	13	25
Toluene			0.0500	0.0473		mg/Kg		95	74 - 130	12	25
Ethylbenzene			0.0500	0.0501		mg/Kg		100	80 - 130	17	25
m,p-Xylenes			0.0500	0.0490		mg/Kg		98	78 - 130	20	25
o-Xylene			0.0500	0.0509		mg/Kg		102	79 - 130	15	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*56 - 150*
4-Bromofluorobenzene (Surr)	*101*		*68 - 152*
Dibromofluoromethane (Surr)	*101*		*53 - 142*
Toluene-d8 (Surr)	*100*		*70 - 130*

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Job ID: 400-206425-1

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

Lab Sample ID: MB 860-17171/9
Matrix: Solid
Analysis Batch: 17171

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00021	U	0.0010	0.00021	mg/Kg			07/30/21 12:06	1
Toluene	0.0010	U	0.0050	0.0010	mg/Kg			07/30/21 12:06	1
Ethylbenzene	0.00034	U	0.0010	0.00034	mg/Kg			07/30/21 12:06	1
Xylenes, Total	0.00099	U	0.0020	0.00099	mg/Kg			07/30/21 12:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*56 - 150*		*07/30/21 12:06*	*1*
4-Bromofluorobenzene (Surr)	*98*		*68 - 152*		*07/30/21 12:06*	*1*
Dibromofluoromethane (Surr)	*96*		*53 - 142*		*07/30/21 12:06*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*07/30/21 12:06*	*1*

Lab Sample ID: LCS 860-17171/3
Matrix: Solid
Analysis Batch: 17171

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.0500	0.0475		mg/Kg		95	66 - 142		
Toluene			0.0500	0.0453		mg/Kg		91	74 - 130		
Ethylbenzene			0.0500	0.0473		mg/Kg		95	80 - 130		
m,p-Xylenes			0.0500	0.0467		mg/Kg		93	78 - 130		
o-Xylene			0.0500	0.0498		mg/Kg		100	79 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*56 - 150*
4-Bromofluorobenzene (Surr)	*100*		*68 - 152*
Dibromofluoromethane (Surr)	*103*		*53 - 142*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 860-17171/4
Matrix: Solid
Analysis Batch: 17171

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.0500	0.0462		mg/Kg		92	66 - 142	3	25
Toluene			0.0500	0.0439		mg/Kg		88	74 - 130	3	25
Ethylbenzene			0.0500	0.0465		mg/Kg		93	80 - 130	2	25
m,p-Xylenes			0.0500	0.0452		mg/Kg		90	78 - 130	3	25
o-Xylene			0.0500	0.0481		mg/Kg		96	79 - 130	3	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*56 - 150*
4-Bromofluorobenzene (Surr)	*97*		*68 - 152*
Dibromofluoromethane (Surr)	*101*		*53 - 142*
Toluene-d8 (Surr)	*101*		*70 - 130*

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Job ID: 400-206425-1

Method: Moisture - 2540 - Percent Moisture

Lab Sample ID: MB 860-17701/1
Matrix: Solid
Analysis Batch: 17701

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	-0.69				%			08/04/21 10:11	1
Percent Solids	100				%			08/04/21 10:11	1

Lab Sample ID: 400-206425-1 DU
Matrix: Solid
Analysis Batch: 17701

Client Sample ID: MP1 29-31 FT.
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	14			15		%				3	10
Percent Solids	86			85		%				0.5	10

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Job ID: 400-206425-1

Client Sample ID: MP1 29-31 FT. — **Lab Sample ID: 400-206425-1**
Date Collected: 07/19/21 10:18 — **Matrix: Solid**
Date Received: 07/27/21 10:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture - 2540		1			17701	08/04/21 10:11	LER	XEN STF

Client Sample ID: MP1 29-31 FT. — **Lab Sample ID: 400-206425-1**
Date Collected: 07/19/21 10:18 — **Matrix: Solid**
Date Received: 07/27/21 10:52 — **Percent Solids: 85.8**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.00 g	5 mL	16881	07/28/21 15:30	CSP	XEN STF
Total/NA	Analysis	8260C		25	5 mL	5 mL	17171	07/30/21 18:34	CSP	XEN STF

Client Sample ID: MP1 39-41 FT. — **Lab Sample ID: 400-206425-2**
Date Collected: 07/19/21 10:30 — **Matrix: Solid**
Date Received: 07/27/21 10:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture - 2540		1			17701	08/04/21 10:11	LER	XEN STF

Client Sample ID: MP1 39-41 FT. — **Lab Sample ID: 400-206425-2**
Date Collected: 07/19/21 10:30 — **Matrix: Solid**
Date Received: 07/27/21 10:52 — **Percent Solids: 92.2**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.00 g	5 mL	17181	07/30/21 10:10	CSP	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	17171	07/30/21 17:53	CSP	XEN STF

Client Sample ID: MP1 51-53 FT. — **Lab Sample ID: 400-206425-3**
Date Collected: 07/19/21 11:50 — **Matrix: Solid**
Date Received: 07/27/21 10:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture - 2540		1			17701	08/04/21 10:11	LER	XEN STF

Client Sample ID: MP1 51-53 FT. — **Lab Sample ID: 400-206425-3**
Date Collected: 07/19/21 11:50 — **Matrix: Solid**
Date Received: 07/27/21 10:52 — **Percent Solids: 91.7**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.05 g	5 mL	16881	07/28/21 15:30	CSP	XEN STF
Total/NA	Analysis	8260C		25	5 mL	5 mL	17171	07/30/21 18:54	CSP	XEN STF

Client Sample ID: TW2 31-33.5 FT. — **Lab Sample ID: 400-206425-4**
Date Collected: 07/20/21 10:18 — **Matrix: Solid**
Date Received: 07/27/21 10:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture - 2540		1			17701	08/04/21 10:11	LER	XEN STF

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Job ID: 400-206425-1

Client Sample ID: TW2 31-33.5 FT. — **Lab Sample ID: 400-206425-4**
Date Collected: 07/20/21 10:18 — **Matrix: Solid**
Date Received: 07/27/21 10:52 — **Percent Solids: 88.2**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.02 g	5 mL	16881	07/28/21 15:30	CSP	XEN STF
Total/NA	Analysis	8260C		50	5 mL	5 mL	17171	07/30/21 19:15	CSP	XEN STF

Client Sample ID: TW2 37.5-40 FT. — **Lab Sample ID: 400-206425-5**
Date Collected: 07/20/21 10:55 — **Matrix: Solid**
Date Received: 07/27/21 10:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture - 2540		1			17701	08/04/21 10:11	LER	XEN STF

Client Sample ID: TW2 37.5-40 FT. — **Lab Sample ID: 400-206425-5**
Date Collected: 07/20/21 10:55 — **Matrix: Solid**
Date Received: 07/27/21 10:52 — **Percent Solids: 91.9**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.05 g	5 mL	17181	07/30/21 10:10	CSP	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	17171	07/30/21 18:13	CSP	XEN STF

Client Sample ID: TW3 44-46 FT. — **Lab Sample ID: 400-206425-6**
Date Collected: 07/18/21 11:38 — **Matrix: Solid**
Date Received: 07/27/21 10:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture - 2540		1			17701	08/04/21 10:11	LER	XEN STF

Client Sample ID: TW3 44-46 FT. — **Lab Sample ID: 400-206425-6**
Date Collected: 07/18/21 11:38 — **Matrix: Solid**
Date Received: 07/27/21 10:52 — **Percent Solids: 87.2**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.02 g	5 mL	16881	07/28/21 15:30	CSP	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	16784	07/28/21 16:34	CSP	XEN STF

Client Sample ID: TW3 48-50 FT. — **Lab Sample ID: 400-206425-7**
Date Collected: 07/18/21 11:58 — **Matrix: Solid**
Date Received: 07/27/21 10:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture - 2540		1			17701	08/04/21 10:11	LER	XEN STF

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Job ID: 400-206425-1

Client Sample ID: TW3 48-50 FT.

Lab Sample ID: 400-206425-7
Date Collected: 07/18/21 11:58
Matrix: Solid
Date Received: 07/27/21 10:52
Percent Solids: 79.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.02 g	5 mL	16881	07/28/21 15:30	CSP	XEN STF
Total/NA	Analysis	8260C		50	5 mL	5 mL	16975	07/29/21 15:20	CSP	XEN STF

Client Sample ID: MP2 35-37.5 FT.

Lab Sample ID: 400-206425-8
Date Collected: 07/18/21 15:39
Matrix: Solid
Date Received: 07/27/21 10:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture - 2540		1			17701	08/04/21 10:11	LER	XEN STF

Client Sample ID: MP2 35-37.5 FT.

Lab Sample ID: 400-206425-8
Date Collected: 07/18/21 15:39
Matrix: Solid
Date Received: 07/27/21 10:52
Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.01 g	5 mL	17023	07/29/21 12:06	CSP	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	16975	07/29/21 16:41	CSP	XEN STF

Client Sample ID: MP2 49-51 FT.

Lab Sample ID: 400-206425-9
Date Collected: 07/18/21 15:58
Matrix: Solid
Date Received: 07/27/21 10:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture - 2540		1			17701	08/04/21 10:11	LER	XEN STF

Client Sample ID: MP2 49-51 FT.

Lab Sample ID: 400-206425-9
Date Collected: 07/18/21 15:58
Matrix: Solid
Date Received: 07/27/21 10:52
Percent Solids: 82.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.01 g	5 mL	16881	07/28/21 15:30	CSP	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	16784	07/28/21 17:36	CSP	XEN STF
Total/NA	Prep	5030C	DL		5.04 g	5 mL	16881	07/28/21 15:30	CSP	XEN STF
Total/NA	Analysis	8260C	DL	100	5 mL	5 mL	16975	07/29/21 15:40	CSP	XEN STF

Client Sample ID: Method Blank

Lab Sample ID: MB 860-16784/8
Date Collected: N/A
Matrix: Solid
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	16784	07/28/21 12:03	CSP	XEN STF

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Job ID: 400-206425-1

Client Sample ID: Method Blank — Lab Sample ID: MB 860-16975/8

Date Collected: N/A
Date Received: N/A
Matrix: Solid

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	16975	07/29/21 12:44	CSP	XEN STF

Client Sample ID: Method Blank — Lab Sample ID: MB 860-17171/9

Date Collected: N/A
Date Received: N/A
Matrix: Solid

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	17171	07/30/21 12:06	CSP	XEN STF

Client Sample ID: Method Blank — Lab Sample ID: MB 860-17701/1

Date Collected: N/A
Date Received: N/A
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture - 2540		1			17701	08/04/21 10:11	LER	XEN STF

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 860-16784/3

Date Collected: N/A
Date Received: N/A
Matrix: Solid

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	16784	07/28/21 10:20	CSP	XEN STF

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 860-16975/3

Date Collected: N/A
Date Received: N/A
Matrix: Solid

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	16975	07/29/21 10:50	CSP	XEN STF

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 860-17171/3

Date Collected: N/A
Date Received: N/A
Matrix: Solid

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	17171	07/30/21 09:54	CSP	XEN STF

Client Sample ID: Lab Control Sample Dup — Lab Sample ID: LCSD 860-16784/4

Date Collected: N/A
Date Received: N/A
Matrix: Solid

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	16784	07/28/21 10:40	CSP	XEN STF

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Job ID: 400-206425-1

Client Sample ID: Lab Control Sample Dup
Lab Sample ID: LCSD 860-16975/4
Date Collected: N/A
Matrix: Solid
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	16975	07/29/21 11:11	CSP	XEN STF

Client Sample ID: Lab Control Sample Dup
Lab Sample ID: LCSD 860-17171/4
Date Collected: N/A
Matrix: Solid
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	17171	07/30/21 10:15	CSP	XEN STF

Client Sample ID: MP1 29-31 FT.
Lab Sample ID: 400-206425-1 DU
Date Collected: 07/19/21 10:18
Matrix: Solid
Date Received: 07/27/21 10:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture - 2540		1			17701	08/04/21 10:11	LER	XEN STF

Laboratory References:

XEN STF = Eurofins Xenco, Stafford, 4147 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Method Summary

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Job ID: 400-206425-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	XEN STF
Moisture - 2540	Percent Moisture	SM	XEN STF
5030C	Purge and Trap	SW846	XEN STF

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

XEN STF = Eurofins Xenco, Stafford, 4147 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: Stantec Consulting Services Inc Job ID: 400-206425-1
Project/Site: Blanco Gas Plant – North Flare Pit

Laboratory: Eurofins Xenco, Stafford

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	20-025-0	08-04-21
Florida	NELAP	E871002	06-30-22
Louisiana	NELAP	03054	06-30-22
Oklahoma	State	1306	08-31-21
Texas	NELAP	T104704215-21-44	06-30-22
USDA	US Federal Programs	P330-19-00137	04-24-22

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

Chain of Custody Record

400-206425 COC

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Client Information	Sampler: Rob Malcomson	Lab PM: Edwards, Marty P	Carrier Tracking No(s):	COC No: 400-103825-36959.2
Client Contact: Steve Varsa	Phone: 575 710 9815	E-Mail: Marty.Edwards@Eurofinset.com	State of Origin:	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):			
State, Zip: IA, 50322-7904	Compliance Project: Δ Yes Δ No			
Phone	PO #: WD801905			
Email: steve.varsa@stantec.com	WO #:			
Project Name: CMI KM Blanco North Flare Pit	Project #: 40012762			
Site:	SSOW#:			

Analysis Requested

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

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)	8260B - (MOD) BTEXM 8260	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N		
MP1 29-31 ft.	7/19/21	1015	Grab	Solid			X		
MP1 39-41 ft.	7/19/21	1030	Grab	Solid			X		
MP1 51-53 ft.	7/19/21	1150	Grab	Solid			X		
TW2 31-33.5 ft.	7/20/21	1018	Grab	Solid			X		
TW2 37.5-40 ft.	7/20/21	1055	Grab	Solid			X		
TW3 44-46 ft.	7/18/21	1138	Grab	Solid			X		
TW3 48-50 ft.	7/18/21	1158	Grab	Solid			X		
MP2 35-37.5 ft.	7/18/21	1539	Grab	Solid			X		
MP2 49-51 ft.	7/18/21	1558	Grab	Solid			X		

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

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

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

Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Rob Malcomson	7/26/21	Stantec	FedEx	7/26/21	
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:

Ver: 11/01/2020

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

Chain of Custody Record

eurofins Environment Testing America

8/16/2021

Client Information	Sampler: Rob Malcomson	Lab PM: Edwards, Marty P	Carrier Tracking No(s):	COC No: 400-103825-36959.2
Client Contact: Steve Varsa	Phone: 575 710 9815	E-Mail: Marty.Edwards@Eurofinset.com	State of Origin:	Page: Page 2 of 2
Company: Stantec Consulting Services Inc	PWSID:	Analysis Requested		Job #:
Address: 11311 Aurora Avenue	Due Date Requested:			Preservation Codes.
City: Des Moines	TAT Requested (days):			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:
State, Zip: IA, 50322-7904	Compliance Project: Δ Yes Δ No			
Phone:	PO #: WD801905			
Email: steve.varsa@stantec.com	WO #:			
Project Name: CMI KM Blanco North Flare Pit	Project #: 40012762			
Site:	SSOW#:			

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)	8260B (MOD) BTEXM 8260	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N		
MP1 29-31 ft	7/19/21	1018	Grab	Solid			X		
MP1 39-41 ft	7/19/21	1030	Grab	Solid			X		
MP1 51-53 ft	7/19/21	1150	Grab	Solid			X		
TW2 31-33.5 ft	7/20/21	1018	Grab	Solid			X		
TW2 375-40 ft	7/20/21	1055	Grab	Solid			X		
TW3 44-46 ft	7/18/21	1138	Grab	Solid			X		
TW3 48-50 ft	7/18/21	1158	Grab	Solid			X		
MPZ 35-37.5 ft	7/18/21	1539	Grab	Solid			X		
MPZ 49-51 ft	7/18/21	1558	Grab	Solid			X		

400-206425 Chain of Custody

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	Rob Malcomson	7/26/21	Stantec	FedEx	7/26/21	
2						
3						

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

Ver: 11/01/2020

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc Job Number: 400-206425-1

Login Number: 206425 **List Source: Eurofins TestAmerica, Pensacola**
List Number: 1
Creator: Perez, Trina M

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

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc

Job Number: 400-206425-1

Login Number: 206425
List Number: 2
Creator: Rubio, Yuri

List Source: Eurofins Xenco, Stafford
List Creation: 07/28/21 09:53 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
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.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
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.	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	

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ANALYTICAL REPORT

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

Laboratory Job ID: 400-206166-1
Client Project/Site: Blanco Gas Plant – North Flare Pit
Revision: 2

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

Attn: Steve Varsa

Marty Edwards

Authorized for release by:
8/23/2021 6:09:04 PM

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

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Laboratory Job ID: 400-206166-1

Table of Contents

Case Narrative

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Job ID: 400-206166-1

Job ID: 400-206166-1

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

Job Narrative
400-206166-1

Comments
No additional comments.

Revised Report
Rev01: The deliverable was revised to correct the 8260 analyte list.
Rev02: The deliverable was revised to report the 8260 analytes in mg/kg.

Receipt
The samples were received on 7/21/2021 9:54 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.4º C.

Receipt Exceptions
Project name change and analysis (EPA 300) added.

GC/MS VOA
Method 8260B: The following samples were diluted to bring the concentration of target analytes within the calibration range: MP3 30-32.5 ft (400-206166-4), MP3 47.5-50 ft (400-206166-5), MP3 58.5-61 ft (400-206166-6), TW4 44-46 ft (400-206166-8) and TW4 66-68.5 ft (400-206166-9). Elevated reporting limits (RLs) are provided.

Method 8260B: The matrix spike duplicate (MSD) recoveries for preparation batch 400-540814 and analytical batch 400-540806 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

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

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

Detection Summary

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Job ID: 400-206166-1

Client Sample ID: MW 57 30-32.5 ft — Lab Sample ID: 400-206166-1

No Detections.

Client Sample ID: MW 57 43.5-46 ft — Lab Sample ID: 400-206166-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.0	J	25	2.8	mg/Kg	1	☼	300.0	Soluble

Client Sample ID: MW 57 58.5-61 ft — Lab Sample ID: 400-206166-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	6.6	J	21	2.4	mg/Kg	1	☼	300.0	Soluble

Client Sample ID: MP3 30-32.5 ft — Lab Sample ID: 400-206166-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.22	J	0.67	0.090	mg/Kg	100	☼	8260B	Total/NA
Toluene	0.27	J	0.67	0.13	mg/Kg	100	☼	8260B	Total/NA
Ethylbenzene	1.5		0.67	0.082	mg/Kg	100	☼	8260B	Total/NA
Xylenes, Total	14		1.3	0.26	mg/Kg	100	☼	8260B	Total/NA

Client Sample ID: MP3 47.5-50 ft — Lab Sample ID: 400-206166-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	5.2		2.8	0.38	mg/Kg	500	☼	8260B	Total/NA
Toluene	19		2.8	0.57	mg/Kg	500	☼	8260B	Total/NA
Ethylbenzene	9.6		2.8	0.35	mg/Kg	500	☼	8260B	Total/NA
Xylenes, Total	93		5.7	1.1	mg/Kg	500	☼	8260B	Total/NA

Client Sample ID: MP3 58.5-61 ft — Lab Sample ID: 400-206166-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.3		0.71	0.095	mg/Kg	100	☼	8260B	Total/NA
Toluene	0.69	J	0.71	0.14	mg/Kg	100	☼	8260B	Total/NA
Ethylbenzene	1.8		0.71	0.086	mg/Kg	100	☼	8260B	Total/NA
Xylenes, Total	16		1.4	0.27	mg/Kg	100	☼	8260B	Total/NA

Client Sample ID: MP3 70.5-73 ft — Lab Sample ID: 400-206166-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.0011	J	0.0055	0.00074	mg/Kg	1	☼	8260B	Total/NA
Toluene	0.0026	J	0.0055	0.0011	mg/Kg	1	☼	8260B	Total/NA
Ethylbenzene	0.013		0.0055	0.00067	mg/Kg	1	☼	8260B	Total/NA
Xylenes, Total	0.11		0.011	0.0021	mg/Kg	1	☼	8260B	Total/NA

Client Sample ID: TW4 44-46 ft — Lab Sample ID: 400-206166-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.5		0.56	0.075	mg/Kg	100	☼	8260B	Total/NA
Toluene	1.4		0.56	0.11	mg/Kg	100	☼	8260B	Total/NA
Ethylbenzene	2.7		0.56	0.069	mg/Kg	100	☼	8260B	Total/NA
Xylenes, Total	27		1.1	0.21	mg/Kg	100	☼	8260B	Total/NA

Client Sample ID: TW4 66-68.5 ft — Lab Sample ID: 400-206166-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.55		0.53	0.071	mg/Kg	100	☼	8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Pensacola

Detection Summary

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Job ID: 400-206166-1

Client Sample ID: TW4 66-68.5 ft (Continued) Lab Sample ID: 400-206166-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	1.2		0.53	0.11	mg/Kg	100	☼	8260B	Total/NA
Ethylbenzene	2.1		0.53	0.064	mg/Kg	100	☼	8260B	Total/NA
Xylenes, Total	19		1.1	0.20	mg/Kg	100	☼	8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Sample Summary

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Job ID: 400-206166-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-206166-1	MW 57 30-32.5 ft	Solid	07/15/21 14:40	07/21/21 09:54
400-206166-2	MW 57 43.5-46 ft	Solid	07/15/21 15:05	07/21/21 09:54
400-206166-3	MW 57 58.5-61 ft	Solid	07/15/21 16:40	07/21/21 09:54
400-206166-4	MP3 30-32.5 ft	Solid	07/17/21 13:30	07/21/21 09:54
400-206166-5	MP3 47.5-50 ft	Solid	07/17/21 13:55	07/21/21 09:54
400-206166-6	MP3 58.5-61 ft	Solid	07/17/21 14:15	07/21/21 09:54
400-206166-7	MP3 70.5-73 ft	Solid	07/17/21 15:00	07/21/21 09:54
400-206166-8	TW4 44-46 ft	Solid	07/16/21 13:55	07/21/21 09:54
400-206166-9	TW4 66-68.5 ft	Solid	07/16/21 14:45	07/21/21 09:54

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Job ID: 400-206166-1

Client Sample ID: MW 57 30-32.5 ft
Date Collected: 07/15/21 14:40
Date Received: 07/21/21 09:54

Lab Sample ID: 400-206166-1
Matrix: Solid
Percent Solids: 85.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00079	U	0.0059	0.00079	mg/Kg	☼	07/25/21 08:58	07/25/21 13:41	1
Toluene	0.0012	U	0.0059	0.0012	mg/Kg	☼	07/25/21 08:58	07/25/21 13:41	1
Ethylbenzene	0.00072	U	0.0059	0.00072	mg/Kg	☼	07/25/21 08:58	07/25/21 13:41	1
Xylenes, Total	0.0022	U	0.012	0.0022	mg/Kg	☼	07/25/21 08:58	07/25/21 13:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*75*		*67 - 130*	*07/25/21 08:58*	*07/25/21 13:41*	*1*
Dibromofluoromethane	*96*		*77 - 127*	*07/25/21 08:58*	*07/25/21 13:41*	*1*
Toluene-d8 (Surr)	*78*		*76 - 127*	*07/25/21 08:58*	*07/25/21 13:41*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.6	U	23	2.6	mg/Kg	☼		07/28/21 01:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**85.5**		0.01	0.01	%			07/24/21 12:43	1
Percent Moisture	**14.5**		0.01	0.01	%			07/24/21 12:43	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Job ID: 400-206166-1

Client Sample ID: MW 57 43.5-46 ft
Date Collected: 07/15/21 15:05
Date Received: 07/21/21 09:54

Lab Sample ID: 400-206166-2
Matrix: Solid
Percent Solids: 79.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00086	U	0.0064	0.00086	mg/Kg	☼	07/26/21 09:48	07/26/21 16:27	1
Toluene	0.0013	U	0.0064	0.0013	mg/Kg	☼	07/26/21 09:48	07/26/21 16:27	1
Ethylbenzene	0.00078	U	0.0064	0.00078	mg/Kg	☼	07/26/21 09:48	07/26/21 16:27	1
Xylenes, Total	0.0024	U	0.013	0.0024	mg/Kg	☼	07/26/21 09:48	07/26/21 16:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*77*		*67 - 130*	*07/26/21 09:48*	*07/26/21 16:27*	*1*
Dibromofluoromethane	*98*		*77 - 127*	*07/26/21 09:48*	*07/26/21 16:27*	*1*
Toluene-d8 (Surr)	*76*		*76 - 127*	*07/26/21 09:48*	*07/26/21 16:27*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7.0**	**J**	25	2.8	mg/Kg	☼		07/28/21 01:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**79.9**		0.01	0.01	%			07/24/21 12:43	1
Percent Moisture	**20.1**		0.01	0.01	%			07/24/21 12:43	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Job ID: 400-206166-1

Client Sample ID: MW 57 58.5-61 ft

Date Collected: 07/15/21 16:40
Date Received: 07/21/21 09:54

Lab Sample ID: 400-206166-3

Matrix: Solid
Percent Solids: 94.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00070	U	0.0052	0.00070	mg/Kg	☼	07/25/21 08:58	07/25/21 14:40	1
Toluene	0.0010	U	0.0052	0.0010	mg/Kg	☼	07/25/21 08:58	07/25/21 14:40	1
Ethylbenzene	0.00064	U	0.0052	0.00064	mg/Kg	☼	07/25/21 08:58	07/25/21 14:40	1
Xylenes, Total	0.0020	U	0.010	0.0020	mg/Kg	☼	07/25/21 08:58	07/25/21 14:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*77*		*67 - 130*	*07/25/21 08:58*	*07/25/21 14:40*	*1*
Dibromofluoromethane	*95*		*77 - 127*	*07/25/21 08:58*	*07/25/21 14:40*	*1*
Toluene-d8 (Surr)	*78*		*76 - 127*	*07/25/21 08:58*	*07/25/21 14:40*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.6**	**J**	21	2.4	mg/Kg	☼		07/28/21 02:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**94.1**		0.01	0.01	%			07/24/21 12:43	1
Percent Moisture	**5.9**		0.01	0.01	%			07/24/21 12:43	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Job ID: 400-206166-1

Client Sample ID: MP3 30-32.5 ft
Date Collected: 07/17/21 13:30
Date Received: 07/21/21 09:54

Lab Sample ID: 400-206166-4
Matrix: Solid
Percent Solids: 87.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.22	J	0.67	0.090	mg/Kg	☼	07/25/21 08:58	07/25/21 18:09	100
Toluene	0.27	J	0.67	0.13	mg/Kg	☼	07/25/21 08:58	07/25/21 18:09	100
Ethylbenzene	1.5		0.67	0.082	mg/Kg	☼	07/25/21 08:58	07/25/21 18:09	100
Xylenes, Total	14		1.3	0.26	mg/Kg	☼	07/25/21 08:58	07/25/21 18:09	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*78*		*67 - 130*	*07/25/21 08:58*	*07/25/21 18:09*	*100*
Dibromofluoromethane	*103*		*77 - 127*	*07/25/21 08:58*	*07/25/21 18:09*	*100*
Toluene-d8 (Surr)	*92*		*76 - 127*	*07/25/21 08:58*	*07/25/21 18:09*	*100*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	87.0		0.01	0.01	%			07/24/21 12:43	1
Percent Moisture	13.0		0.01	0.01	%			07/24/21 12:43	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Job ID: 400-206166-1

Client Sample ID: MP3 47.5-50 ft

Date Collected: 07/17/21 13:55
Date Received: 07/21/21 09:54

Lab Sample ID: 400-206166-5

Matrix: Solid
Percent Solids: 92.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	5.2		2.8	0.38	mg/Kg	☼	07/25/21 08:58	07/25/21 20:38	500
Toluene	19		2.8	0.57	mg/Kg	☼	07/25/21 08:58	07/25/21 20:38	500
Ethylbenzene	9.6		2.8	0.35	mg/Kg	☼	07/25/21 08:58	07/25/21 20:38	500
Xylenes, Total	93		5.7	1.1	mg/Kg	☼	07/25/21 08:58	07/25/21 20:38	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*78*		*67 - 130*	*07/25/21 08:58*	*07/25/21 20:38*	*500*
Dibromofluoromethane	*107*		*77 - 127*	*07/25/21 08:58*	*07/25/21 20:38*	*500*
Toluene-d8 (Surr)	*101*		*76 - 127*	*07/25/21 08:58*	*07/25/21 20:38*	*500*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	92.9		0.01	0.01	%			07/24/21 12:43	1
Percent Moisture	7.1		0.01	0.01	%			07/24/21 12:43	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Job ID: 400-206166-1

Client Sample ID: MP3 58.5-61 ft

Date Collected: 07/17/21 14:15
Date Received: 07/21/21 09:54

Lab Sample ID: 400-206166-6

Matrix: Solid
Percent Solids: 87.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.3		0.71	0.095	mg/Kg	☼	07/25/21 08:58	07/25/21 18:39	100
Toluene	0.69	J	0.71	0.14	mg/Kg	☼	07/25/21 08:58	07/25/21 18:39	100
Ethylbenzene	1.8		0.71	0.086	mg/Kg	☼	07/25/21 08:58	07/25/21 18:39	100
Xylenes, Total	16		1.4	0.27	mg/Kg	☼	07/25/21 08:58	07/25/21 18:39	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*77*		*67 - 130*	*07/25/21 08:58*	*07/25/21 18:39*	*100*
Dibromofluoromethane	*101*		*77 - 127*	*07/25/21 08:58*	*07/25/21 18:39*	*100*
Toluene-d8 (Surr)	*94*		*76 - 127*	*07/25/21 08:58*	*07/25/21 18:39*	*100*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	87.3		0.01	0.01	%			07/24/21 12:43	1
Percent Moisture	12.7		0.01	0.01	%			07/24/21 12:43	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Job ID: 400-206166-1

Client Sample ID: MP3 70.5-73 ft
Date Collected: 07/17/21 15:00
Date Received: 07/21/21 09:54

Lab Sample ID: 400-206166-7
Matrix: Solid
Percent Solids: 93.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0011	J	0.0055	0.00074	mg/Kg	☼	07/26/21 09:48	07/26/21 13:58	1
Toluene	0.0026	J	0.0055	0.0011	mg/Kg	☼	07/26/21 09:48	07/26/21 13:58	1
Ethylbenzene	0.013		0.0055	0.00067	mg/Kg	☼	07/26/21 09:48	07/26/21 13:58	1
Xylenes, Total	0.11		0.011	0.0021	mg/Kg	☼	07/26/21 09:48	07/26/21 13:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*91*		*67 - 130*	*07/26/21 09:48*	*07/26/21 13:58*	*1*
Dibromofluoromethane	*105*		*77 - 127*	*07/26/21 09:48*	*07/26/21 13:58*	*1*
Toluene-d8 (Surr)	*90*		*76 - 127*	*07/26/21 09:48*	*07/26/21 13:58*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	93.3		0.01	0.01	%			07/24/21 13:21	1
Percent Moisture	6.7		0.01	0.01	%			07/24/21 13:21	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Job ID: 400-206166-1

Client Sample ID: TW4 44-46 ft
Date Collected: 07/16/21 13:55
Date Received: 07/21/21 09:54

Lab Sample ID: 400-206166-8
Matrix: Solid
Percent Solids: 96.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.5		0.56	0.075	mg/Kg	☼	07/25/21 08:58	07/25/21 19:09	100
Toluene	1.4		0.56	0.11	mg/Kg	☼	07/25/21 08:58	07/25/21 19:09	100
Ethylbenzene	2.7		0.56	0.069	mg/Kg	☼	07/25/21 08:58	07/25/21 19:09	100
Xylenes, Total	27		1.1	0.21	mg/Kg	☼	07/25/21 08:58	07/25/21 19:09	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*80*		*67 - 130*	*07/25/21 08:58*	*07/25/21 19:09*	*100*
Dibromofluoromethane	*106*		*77 - 127*	*07/25/21 08:58*	*07/25/21 19:09*	*100*
Toluene-d8 (Surr)	*121*		*76 - 127*	*07/25/21 08:58*	*07/25/21 19:09*	*100*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	96.5		0.01	0.01	%			07/24/21 13:21	1
Percent Moisture	3.5		0.01	0.01	%			07/24/21 13:21	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Job ID: 400-206166-1

Client Sample ID: TW4 66-68.5 ft

Date Collected: 07/16/21 14:45
Date Received: 07/21/21 09:54

Lab Sample ID: 400-206166-9

Matrix: Solid
Percent Solids: 95.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.55		0.53	0.071	mg/Kg	☼	07/25/21 08:58	07/25/21 19:39	100
Toluene	1.2		0.53	0.11	mg/Kg	☼	07/25/21 08:58	07/25/21 19:39	100
Ethylbenzene	2.1		0.53	0.064	mg/Kg	☼	07/25/21 08:58	07/25/21 19:39	100
Xylenes, Total	19		1.1	0.20	mg/Kg	☼	07/25/21 08:58	07/25/21 19:39	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*82*		*67 - 130*	*07/25/21 08:58*	*07/25/21 19:39*	*100*
Dibromofluoromethane	*100*		*77 - 127*	*07/25/21 08:58*	*07/25/21 19:39*	*100*
Toluene-d8 (Surr)	*101*		*76 - 127*	*07/25/21 08:58*	*07/25/21 19:39*	*100*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	95.2		0.01	0.01	%			07/24/21 13:21	1
Percent Moisture	4.8		0.01	0.01	%			07/24/21 13:21	1

Definitions/Glossary

Client: Stantec Consulting Services Inc Job ID: 400-206166-1
Project/Site: Blanco Gas Plant – North Flare Pit

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

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

Surrogate Summary

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Job ID: 400-206166-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(67-130)	(77-127)	(76-127)
400-206166-1	MW 57 30-32.5 ft	75	96	78
400-206166-2	MW 57 43.5-46 ft	77	98	76
400-206166-3	MW 57 58.5-61 ft	77	95	78
400-206166-4	MP3 30-32.5 ft	78	103	92
400-206166-5	MP3 47.5-50 ft	78	107	101
400-206166-6	MP3 58.5-61 ft	77	101	94
400-206166-7	MP3 70.5-73 ft	91	105	90
400-206166-8	TW4 44-46 ft	80	106	121
400-206166-9	TW4 66-68.5 ft	82	100	101
400-206280-A-1-B MS	Matrix Spike	81	98	83
400-206280-A-1-C MSD	Matrix Spike Duplicate	80	108	82
400-206294-A-11-C MS	Matrix Spike	83	98	83
400-206294-A-11-F MSD	Matrix Spike Duplicate	81	98	85
LCS 400-540814/1-A	Lab Control Sample	84	99	83
LCS 400-540907/1-A	Lab Control Sample	82	100	83
MB 400-540814/2-A	Method Blank	75	96	77
MB 400-540907/2-A	Method Blank	74	98	77

Surrogate Legend

BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

QC Association Summary

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Job ID: 400-206166-1

GC/MS VOA

Analysis Batch: 540806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-206166-1	MW 57 30-32.5 ft	Total/NA	Solid	8260B	540814
400-206166-3	MW 57 58.5-61 ft	Total/NA	Solid	8260B	540814
400-206166-4	MP3 30-32.5 ft	Total/NA	Solid	8260B	540814
400-206166-5	MP3 47.5-50 ft	Total/NA	Solid	8260B	540814
400-206166-6	MP3 58.5-61 ft	Total/NA	Solid	8260B	540814
400-206166-8	TW4 44-46 ft	Total/NA	Solid	8260B	540814
400-206166-9	TW4 66-68.5 ft	Total/NA	Solid	8260B	540814
MB 400-540814/2-A	Method Blank	Total/NA	Solid	8260B	540814
LCS 400-540814/1-A	Lab Control Sample	Total/NA	Solid	8260B	540814

Prep Batch: 540814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-206166-1	MW 57 30-32.5 ft	Total/NA	Solid	5035	
400-206166-3	MW 57 58.5-61 ft	Total/NA	Solid	5035	
400-206166-4	MP3 30-32.5 ft	Total/NA	Solid	5035	
400-206166-5	MP3 47.5-50 ft	Total/NA	Solid	5035	
400-206166-6	MP3 58.5-61 ft	Total/NA	Solid	5035	
400-206166-8	TW4 44-46 ft	Total/NA	Solid	5035	
400-206166-9	TW4 66-68.5 ft	Total/NA	Solid	5035	
MB 400-540814/2-A	Method Blank	Total/NA	Solid	5035	
LCS 400-540814/1-A	Lab Control Sample	Total/NA	Solid	5035	

Analysis Batch: 540843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-206166-2	MW 57 43.5-46 ft	Total/NA	Solid	8260B	540907
400-206166-7	MP3 70.5-73 ft	Total/NA	Solid	8260B	540907
MB 400-540907/2-A	Method Blank	Total/NA	Solid	8260B	540907
LCS 400-540907/1-A	Lab Control Sample	Total/NA	Solid	8260B	540907

Prep Batch: 540907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-206166-2	MW 57 43.5-46 ft	Total/NA	Solid	5035	
400-206166-7	MP3 70.5-73 ft	Total/NA	Solid	5035	
MB 400-540907/2-A	Method Blank	Total/NA	Solid	5035	
LCS 400-540907/1-A	Lab Control Sample	Total/NA	Solid	5035	

HPLC/IC

Leach Batch: 541100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-206166-1	MW 57 30-32.5 ft	Soluble	Solid	DI Leach	
400-206166-2	MW 57 43.5-46 ft	Soluble	Solid	DI Leach	
400-206166-3	MW 57 58.5-61 ft	Soluble	Solid	DI Leach	
MB 400-541100/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 400-541100/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 400-541100/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 541152

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-206166-1	MW 57 30-32.5 ft	Soluble	Solid	300.0	541100
400-206166-2	MW 57 43.5-46 ft	Soluble	Solid	300.0	541100

QC Association Summary

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Job ID: 400-206166-1

HPLC/IC (Continued)

Analysis Batch: 541152 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-206166-3	MW 57 58.5-61 ft	Soluble	Solid	300.0	541100
MB 400-541100/1-A	Method Blank	Soluble	Solid	300.0	541100
LCS 400-541100/2-A	Lab Control Sample	Soluble	Solid	300.0	541100
LCSD 400-541100/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	541100
MRL 400-541152/5	Lab Control Sample	Total/NA	Solid	300.0	

General Chemistry

Analysis Batch: 540757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-206166-1	MW 57 30-32.5 ft	Total/NA	Solid	Moisture	
400-206166-2	MW 57 43.5-46 ft	Total/NA	Solid	Moisture	
400-206166-3	MW 57 58.5-61 ft	Total/NA	Solid	Moisture	
400-206166-4	MP3 30-32.5 ft	Total/NA	Solid	Moisture	
400-206166-5	MP3 47.5-50 ft	Total/NA	Solid	Moisture	
400-206166-6	MP3 58.5-61 ft	Total/NA	Solid	Moisture	
400-206166-7	MP3 70.5-73 ft	Total/NA	Solid	Moisture	
400-206166-8	TW4 44-46 ft	Total/NA	Solid	Moisture	
400-206166-9	TW4 66-68.5 ft	Total/NA	Solid	Moisture	
400-206166-6 DU	MP3 58.5-61 ft	Total/NA	Solid	Moisture	

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Job ID: 400-206166-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-540814/2-A
Matrix: Solid
Analysis Batch: 540806

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 540814

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00067	U	0.0050	0.00067	mg/Kg		07/25/21 08:58	07/25/21 11:12	1
Toluene	0.0010	U	0.0050	0.0010	mg/Kg		07/25/21 08:58	07/25/21 11:12	1
Ethylbenzene	0.00061	U	0.0050	0.00061	mg/Kg		07/25/21 08:58	07/25/21 11:12	1
Xylenes, Total	0.0019	U	0.010	0.0019	mg/Kg		07/25/21 08:58	07/25/21 11:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*75*		*67 - 130*	*07/25/21 08:58*	*07/25/21 11:12*	*1*
Dibromofluoromethane	*96*		*77 - 127*	*07/25/21 08:58*	*07/25/21 11:12*	*1*
Toluene-d8 (Surr)	*77*		*76 - 127*	*07/25/21 08:58*	*07/25/21 11:12*	*1*

Lab Sample ID: LCS 400-540814/1-A
Matrix: Solid
Analysis Batch: 540806

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 540814

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.0498		mg/Kg		100	65 - 130
Toluene	0.0500	0.0396		mg/Kg		79	70 - 130
Ethylbenzene	0.0500	0.0381		mg/Kg		76	70 - 130
Xylenes, Total	0.100	0.0765		mg/Kg		77	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*84*		*67 - 130*
Dibromofluoromethane	*99*		*77 - 127*
Toluene-d8 (Surr)	*83*		*76 - 127*

Lab Sample ID: MB 400-540907/2-A
Matrix: Solid
Analysis Batch: 540843

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 540907

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00067	U	0.0050	0.00067	mg/Kg		07/26/21 09:48	07/26/21 18:01	1
Toluene	0.0010	U	0.0050	0.0010	mg/Kg		07/26/21 09:48	07/26/21 18:01	1
Ethylbenzene	0.00061	U	0.0050	0.00061	mg/Kg		07/26/21 09:48	07/26/21 18:01	1
Xylenes, Total	0.0019	U	0.010	0.0019	mg/Kg		07/26/21 09:48	07/26/21 18:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*74*		*67 - 130*	*07/26/21 09:48*	*07/26/21 18:01*	*1*
Dibromofluoromethane	*98*		*77 - 127*	*07/26/21 09:48*	*07/26/21 18:01*	*1*
Toluene-d8 (Surr)	*77*		*76 - 127*	*07/26/21 09:48*	*07/26/21 18:01*	*1*

Lab Sample ID: LCS 400-540907/1-A
Matrix: Solid
Analysis Batch: 540843

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 540907

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.0569		mg/Kg		114	65 - 130
Toluene	0.0500	0.0437		mg/Kg		87	70 - 130
Ethylbenzene	0.0500	0.0411		mg/Kg		82	70 - 130

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Job ID: 400-206166-1

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

Lab Sample ID: LCS 400-540907/1-A
Matrix: Solid
Analysis Batch: 540843

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 540907

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Xylenes, Total			0.100	0.0827		mg/Kg		83	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*82*		*67 - 130*
Dibromofluoromethane	*100*		*77 - 127*
Toluene-d8 (Surr)	*83*		*76 - 127*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MRL 400-541152/5
Matrix: Solid
Analysis Batch: 541152

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			1.00	0.936	J	mg/Kg		94	50 - 150		

Lab Sample ID: MB 400-541100/1-A
Matrix: Solid
Analysis Batch: 541152

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.3	U	20	2.3	mg/Kg			07/27/21 16:20	1

Lab Sample ID: LCS 400-541100/2-A
Matrix: Solid
Analysis Batch: 541152

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			100	100		mg/Kg		100	80 - 120		

Lab Sample ID: LCSD 400-541100/3-A
Matrix: Solid
Analysis Batch: 541152

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			100	98.5		mg/Kg		98	80 - 120	2	15

Method: Moisture - Percent Moisture

Lab Sample ID: 400-206166-6 DU
Matrix: Solid
Analysis Batch: 540757

Client Sample ID: MP3 58.5-61 ft
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Solids	87.3			86.5		%				0.9	10
Percent Moisture	12.7			13.5		%				6	

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Job ID: 400-206166-1

Client Sample ID: MW 57 30-32.5 ft
Lab Sample ID: 400-206166-1
Date Collected: 07/15/21 14:40
Matrix: Solid
Date Received: 07/21/21 09:54

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			540757	07/24/21 12:43	JHA	TAL PEN

Client Sample ID: MW 57 30-32.5 ft
Lab Sample ID: 400-206166-1
Date Collected: 07/15/21 14:40
Matrix: Solid
Date Received: 07/21/21 09:54
Percent Solids: 85.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5.00 g	540814	07/25/21 08:58	BEP	TAL PEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	540806	07/25/21 13:41	BEP	TAL PEN
Soluble	Leach	DI Leach			2.590 g	50 mL	541100	07/27/21 12:25	TAJ	TAL PEN
Soluble	Analysis	300.0		1			541152	07/28/21 01:26	TAJ	TAL PEN

Client Sample ID: MW 57 43.5-46 ft
Lab Sample ID: 400-206166-2
Date Collected: 07/15/21 15:05
Matrix: Solid
Date Received: 07/21/21 09:54

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			540757	07/24/21 12:43	JHA	TAL PEN

Client Sample ID: MW 57 43.5-46 ft
Lab Sample ID: 400-206166-2
Date Collected: 07/15/21 15:05
Matrix: Solid
Date Received: 07/21/21 09:54
Percent Solids: 79.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.88 g	5.00 g	540907	07/26/21 09:48	BEP	TAL PEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	540843	07/26/21 16:27	BEP	TAL PEN
Soluble	Leach	DI Leach			2.528 g	50 mL	541100	07/27/21 12:25	TAJ	TAL PEN
Soluble	Analysis	300.0		1			541152	07/28/21 01:51	TAJ	TAL PEN

Client Sample ID: MW 57 58.5-61 ft
Lab Sample ID: 400-206166-3
Date Collected: 07/15/21 16:40
Matrix: Solid
Date Received: 07/21/21 09:54

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			540757	07/24/21 12:43	JHA	TAL PEN

Client Sample ID: MW 57 58.5-61 ft
Lab Sample ID: 400-206166-3
Date Collected: 07/15/21 16:40
Matrix: Solid
Date Received: 07/21/21 09:54
Percent Solids: 94.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.08 g	5.00 g	540814	07/25/21 08:58	BEP	TAL PEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	540806	07/25/21 14:40	BEP	TAL PEN
Soluble	Leach	DI Leach			2.561 g	50 mL	541100	07/27/21 12:25	TAJ	TAL PEN
Soluble	Analysis	300.0		1			541152	07/28/21 02:16	TAJ	TAL PEN

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Job ID: 400-206166-1

Client Sample ID: MP3 30-32.5 ft
Date Collected: 07/17/21 13:30
Date Received: 07/21/21 09:54

Lab Sample ID: 400-206166-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			540757	07/24/21 12:43	JHA	TAL PEN

Client Sample ID: MP3 30-32.5 ft
Date Collected: 07/17/21 13:30
Date Received: 07/21/21 09:54

Lab Sample ID: 400-206166-4
Matrix: Solid
Percent Solids: 87.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.80 g	5.00 g	540814	07/25/21 08:58	BEP	TAL PEN
Total/NA	Analysis	8260B		100	5 mL	5 mL	540806	07/25/21 18:09	BEP	TAL PEN

Client Sample ID: MP3 47.5-50 ft
Date Collected: 07/17/21 13:55
Date Received: 07/21/21 09:54

Lab Sample ID: 400-206166-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			540757	07/24/21 12:43	JHA	TAL PEN

Client Sample ID: MP3 47.5-50 ft
Date Collected: 07/17/21 13:55
Date Received: 07/21/21 09:54

Lab Sample ID: 400-206166-5
Matrix: Solid
Percent Solids: 92.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.09 g	5.00 g	540814	07/25/21 08:58	BEP	TAL PEN
Total/NA	Analysis	8260B		500	5 mL	5 mL	540806	07/25/21 20:38	BEP	TAL PEN

Client Sample ID: MP3 58.5-61 ft
Date Collected: 07/17/21 14:15
Date Received: 07/21/21 09:54

Lab Sample ID: 400-206166-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			540757	07/24/21 12:43	JHA	TAL PEN

Client Sample ID: MP3 58.5-61 ft
Date Collected: 07/17/21 14:15
Date Received: 07/21/21 09:54

Lab Sample ID: 400-206166-6
Matrix: Solid
Percent Solids: 87.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.52 g	5.00 g	540814	07/25/21 08:58	BEP	TAL PEN
Total/NA	Analysis	8260B		100	5 mL	5 mL	540806	07/25/21 18:39	BEP	TAL PEN

Client Sample ID: MP3 70.5-73 ft
Date Collected: 07/17/21 15:00
Date Received: 07/21/21 09:54

Lab Sample ID: 400-206166-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			540757	07/24/21 13:21	JHA	TAL PEN

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Job ID: 400-206166-1

Client Sample ID: MP3 70.5-73 ft
Lab Sample ID: 400-206166-7
Date Collected: 07/17/21 15:00
Matrix: Solid
Date Received: 07/21/21 09:54
Percent Solids: 93.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.88 g	5.00 g	540907	07/26/21 09:48	BEP	TAL PEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	540843	07/26/21 13:58	BEP	TAL PEN

Client Sample ID: TW4 44-46 ft
Lab Sample ID: 400-206166-8
Date Collected: 07/16/21 13:55
Matrix: Solid
Date Received: 07/21/21 09:54

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			540757	07/24/21 13:21	JHA	TAL PEN

Client Sample ID: TW4 44-46 ft
Lab Sample ID: 400-206166-8
Date Collected: 07/16/21 13:55
Matrix: Solid
Date Received: 07/21/21 09:54
Percent Solids: 96.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.76 g	5.00 g	540814	07/25/21 08:58	BEP	TAL PEN
Total/NA	Analysis	8260B		100	5 mL	5 mL	540806	07/25/21 19:09	BEP	TAL PEN

Client Sample ID: TW4 66-68.5 ft
Lab Sample ID: 400-206166-9
Date Collected: 07/16/21 14:45
Matrix: Solid
Date Received: 07/21/21 09:54

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			540757	07/24/21 13:21	JHA	TAL PEN

Client Sample ID: TW4 66-68.5 ft
Lab Sample ID: 400-206166-9
Date Collected: 07/16/21 14:45
Matrix: Solid
Date Received: 07/21/21 09:54
Percent Solids: 95.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.22 g	5.00 g	540814	07/25/21 08:58	BEP	TAL PEN
Total/NA	Analysis	8260B		100	5 mL	5 mL	540806	07/25/21 19:39	BEP	TAL PEN

Client Sample ID: Method Blank
Lab Sample ID: MB 400-540814/2-A
Date Collected: N/A
Matrix: Solid
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5.00 g	540814	07/25/21 08:58	BEP	TAL PEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	540806	07/25/21 11:12	BEP	TAL PEN

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Job ID: 400-206166-1

Client Sample ID: Method Blank — Lab Sample ID: MB 400-540907/2-A

Date Collected: N/A — **Matrix: Solid**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5.00 g	540907	07/26/21 09:48	BEP	TAL PEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	540843	07/26/21 18:01	BEP	TAL PEN

Client Sample ID: Method Blank — Lab Sample ID: MB 400-541100/1-A

Date Collected: N/A — **Matrix: Solid**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			2.500 g	50 mL	541100	07/27/21 12:25	TAJ	TAL PEN
Soluble	Analysis	300.0		1			541152	07/27/21 16:20	TAJ	TAL PEN

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 400-540814/1-A

Date Collected: N/A — **Matrix: Solid**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5.00 g	540814	07/25/21 08:58	BEP	TAL PEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	540806	07/25/21 10:13	BEP	TAL PEN

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 400-540907/1-A

Date Collected: N/A — **Matrix: Solid**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5.00 g	540907	07/26/21 09:48	BEP	TAL PEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	540843	07/26/21 16:57	BEP	TAL PEN

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 400-541100/2-A

Date Collected: N/A — **Matrix: Solid**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			2.500 g	50 mL	541100	07/27/21 12:25	TAJ	TAL PEN
Soluble	Analysis	300.0		1			541152	07/27/21 16:45	TAJ	TAL PEN

Client Sample ID: Lab Control Sample Dup — Lab Sample ID: LCSD 400-541100/3-A

Date Collected: N/A — **Matrix: Solid**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			2.500 g	50 mL	541100	07/27/21 12:25	TAJ	TAL PEN
Soluble	Analysis	300.0		1			541152	07/27/21 17:10	TAJ	TAL PEN

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Job ID: 400-206166-1

Client Sample ID: Lab Control Sample

Date Collected: N/A
Date Received: N/A

Lab Sample ID: MRL 400-541152/5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			541152	07/27/21 15:06	TAJ	TAL PEN

Client Sample ID: MP3 58.5-61 ft

Date Collected: 07/17/21 14:15
Date Received: 07/21/21 09:54

Lab Sample ID: 400-206166-6 DU

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			540757	07/24/21 12:43	JHA	TAL PEN

Laboratory References:

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

Method Summary

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Job ID: 400-206166-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PEN
300.0	Anions, Ion Chromatography	MCAWW	TAL PEN
Moisture	Percent Moisture	EPA	TAL PEN
5035	Closed System Purge and Trap	SW846	TAL PEN
DI Leach	Deionized Water Leaching Procedure	ASTM	TAL PEN

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

Laboratory References:

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

Accreditation/Certification Summary

Client: Stantec Consulting Services Inc
Job ID: 400-206166-1
Project/Site: Blanco Gas Plant – North Flare Pit

Laboratory: Eurofins TestAmerica, Pensacola

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

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

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information			
Client Contact: Steve Varsa	Sampler: Rob Malcomson	Lab PM: Edwards, Marty P	Carrier Tracking No(s):
Company: Stantec Consulting Services Inc	Phone: 515 251 1019	E-Mail: Marty.Edwards@Eurofinset.com	State of Origin: NM
Address: 11311 Aurora Avenue	PWSID:		COC No: 400-103825-36959.2
City: Des Moines	Due Date Requested:		Page: Page 2 of 2
State, Zip: IA, 50322-7904	TAT Requested (days):		Job #:
Phone:	Compliance Project: Δ Yes Δ No		
Email: steve.varsa@stantec.com	PO #: WD801905		
Project Name: CMI KM Blanco North Flare Pit	WO #:		
Site:	Project #: 40012762		
	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA

M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

400-206166 COC

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - (MOD) BTEXM 8260	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW57 30-32.5 ft	7/15/21	1440	G	Solid			X		
MW57 43.5-46 ft.	7/15/21	1505	G	Solid			X		
MW57 58.5-61 ft.	7/15/21	1640	G	Solid			X		
MP3 30-32.5 ft.	7/17/21	1330	G	Solid			X		
MP3 47.5-50 ft.	7/17/21	1355	G	Solid			X		
MP3 58.5-61 ft.	7/17/21	1415	G	Solid			X		
MP3 70.5-73 ft.	7/17/21	1500	G	Solid			X		
TW4 44-46 ft.	7/16/21	1355	G	Solid			X		
TW4 66-68.5 ft.	7/16/21	~~1445~~ 1545 GTCSM	G	Solid			X		

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: [signature]	Date/Time: 7/19/21 1500	Company: Stantec	Received by: FedEx	Date/Time: 7/19/21 1500	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: [signature]	Date/Time: 7-21-21 9:54	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.4 ≤ IR8

Ver: 11/01/2020

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc Job Number: 400-206166-1

Login Number: 206166 **List Source: Eurofins TestAmerica, Pensacola**
List Number: 1
Creator: Waite, Brandon K

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

APPENDIX H

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 400-203705-1
Client Project/Site: CMI Kinder Morgan Blanco NFP

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

Attn: Steve Varsa

Marty Edwards

Authorized for release by:
6/7/2021 3:18:18 PM

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

Client: Stantec Consulting Services Inc
Project/Site: CMI Kinder Morgan Blanco NFP

Laboratory Job ID: 400-203705-1

Table of Contents

Case Narrative

Client: Stantec Consulting Services Inc
Project/Site: CMI Kinder Morgan Blanco NFP

Job ID: 400-203705-1

Job ID: 400-203705-1

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

Job Narrative
400-203705-1

Comments
No additional comments.

Receipt
The samples were received on 5/22/2021 8:45 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.0º C and 0.4º C.

Receipt Exceptions
Method 300.0: The following samples were received outside of holding time: MW-40 (400-203705-14), MW-41 (400-203705-15), MW-42 (400-203705-16) and MW-46 (400-203705-17).

GC/MS VOA
Method 8260B: The following samples were diluted to bring the concentration of target analytes within the calibration range: DUP-01 (400-203705-1), DUP-02 (400-203705-2), MW-23 (400-203705-3), MW-44 (400-203705-6), MW-45 (400-203705-7), MW-48 (400-203705-8) and MW-52 (400-203705-10). Elevated reporting limits (RLs) are provided.

Method 8260B: The following sample(s) was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The samples were analyzed within the 7-day holding time specified for unpreserved samples: DUP-02 (400-203705-2), MW-23 (400-203705-3), MW-44 (400-203705-6) and MW-52 (400-203705-10).

Method 8260B: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-51 (400-203705-9). Elevated reporting limits (RLs) are provided.

Method 8260B: The matrix spike duplicate (MSD) recoveries for analytical batch 400-534019 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) precision for analytical batch 400-534019 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected.

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

HPLC/IC
Method 300.0: The following samples were diluted due to the nature of the sample matrix: DUP-02 (400-203705-2), MW-23 (400-203705-3), MW-33 (400-203705-4), MW-33 (400-203705-4[MS]), MW-33 (400-203705-4[MSD]), MW-43 (400-203705-5), MW-44 (400-203705-6), MW-45 (400-203705-7), MW-51 (400-203705-9), MW-51 (400-203705-9[MS]), MW-51 (400-203705-9[MSD]) and MW-55 (400-203705-13). Elevated reporting limits (RLs) are provided.

Method 300.0: The following samples were received outside of holding time: MW-40 (400-203705-14), MW-41 (400-203705-15), MW-42 (400-203705-16) and MW-46 (400-203705-17).

Method 300.0: The following samples were diluted due to the nature of the sample matrix: MW-40 (400-203705-14), MW-41 (400-203705-15), MW-42 (400-203705-16) and MW-46 (400-203705-17). Elevated reporting limits (RLs) are provided.

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

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: CMI Kinder Morgan Blanco NFP

Job ID: 400-203705-1

Client Sample ID: DUP-01 — Lab Sample ID: 400-203705-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	2.4		0.010	0.0038	mg/L	10		8260B	Total/NA
Ethylbenzene	0.052		0.010	0.0050	mg/L	10		8260B	Total/NA

Client Sample ID: DUP-02 — Lab Sample ID: 400-203705-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.35		0.0020	0.00076	mg/L	2		8260B	Total/NA
Ethylbenzene	0.010		0.0020	0.0010	mg/L	2		8260B	Total/NA

Client Sample ID: MW-23 — Lab Sample ID: 400-203705-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	9.0		0.050	0.019	mg/L	50		8260B	Total/NA
Ethylbenzene	0.25		0.050	0.025	mg/L	50		8260B	Total/NA
Xylenes, Total	1.4		0.50	0.080	mg/L	50		8260B	Total/NA

Client Sample ID: MW-33 — Lab Sample ID: 400-203705-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as N	57		1.0	0.33	mg/L	10		300.0	Total/NA
Nitrate Nitrite as N	57		1.0	0.33	mg/L	10		300.0	Total/NA
Nitrite as N	0.28	J	1.0	0.26	mg/L	10		300.0	Total/NA

Client Sample ID: MW-43 — Lab Sample ID: 400-203705-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.00051	J	0.0010	0.00038	mg/L	1		8260B	Total/NA

Client Sample ID: MW-44 — Lab Sample ID: 400-203705-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.34		0.0020	0.00076	mg/L	2		8260B	Total/NA
Ethylbenzene	0.0093		0.0020	0.0010	mg/L	2		8260B	Total/NA

Client Sample ID: MW-45 — Lab Sample ID: 400-203705-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.6		0.010	0.0038	mg/L	10		8260B	Total/NA
Ethylbenzene	0.047		0.010	0.0050	mg/L	10		8260B	Total/NA
Toluene	0.084		0.010	0.0041	mg/L	10		8260B	Total/NA
Xylenes, Total	0.31		0.10	0.016	mg/L	10		8260B	Total/NA

Client Sample ID: MW-48 — Lab Sample ID: 400-203705-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	3.1		0.020	0.0076	mg/L	20		8260B	Total/NA
Ethylbenzene	0.056		0.020	0.010	mg/L	20		8260B	Total/NA

Client Sample ID: MW-51 — Lab Sample ID: 400-203705-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.66	F1	0.0050	0.0019	mg/L	5		8260B	Total/NA
Ethylbenzene	0.027	F1 F2	0.0050	0.0025	mg/L	5		8260B	Total/NA
Toluene	0.0025	J	0.0050	0.0021	mg/L	5		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Pensacola

Detection Summary

Client: Stantec Consulting Services Inc
Project/Site: CMI Kinder Morgan Blanco NFP

Job ID: 400-203705-1

Client Sample ID: MW-52 — Lab Sample ID: 400-203705-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.30		0.0020	0.00076	mg/L	2		8260B	Total/NA
Ethylbenzene	0.0092		0.0020	0.0010	mg/L	2		8260B	Total/NA

Client Sample ID: MW-53 — Lab Sample ID: 400-203705-11

No Detections.

Client Sample ID: MW-54 — Lab Sample ID: 400-203705-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as N	8.6		0.10	0.033	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	8.6		0.10	0.033	mg/L	1		300.0	Total/NA

Client Sample ID: MW-55 — Lab Sample ID: 400-203705-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.0051		0.0010	0.00038	mg/L	1		8260B	Total/NA
Toluene	0.0011		0.0010	0.00041	mg/L	1		8260B	Total/NA

Client Sample ID: MW-40 — Lab Sample ID: 400-203705-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as N	51	H	1.0	0.33	mg/L	10		300.0	Total/NA
Nitrate Nitrite as N	52	H	1.0	0.33	mg/L	10		300.0	Total/NA
Nitrite as N	0.60	J H	1.0	0.26	mg/L	10		300.0	Total/NA

Client Sample ID: MW-41 — Lab Sample ID: 400-203705-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as N	5.1	H	1.0	0.33	mg/L	10		300.0	Total/NA
Nitrate Nitrite as N	5.4	H	1.0	0.33	mg/L	10		300.0	Total/NA
Nitrite as N	0.26	J H	1.0	0.26	mg/L	10		300.0	Total/NA

Client Sample ID: MW-42 — Lab Sample ID: 400-203705-16

No Detections.

Client Sample ID: MW-46 — Lab Sample ID: 400-203705-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as N	0.39	J H	1.0	0.33	mg/L	10		300.0	Total/NA
Nitrate Nitrite as N	0.39	J H	1.0	0.33	mg/L	10		300.0	Total/NA

Client Sample ID: TB-01 — Lab Sample ID: 400-203705-18

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Pensacola

Sample Summary

Client: Stantec Consulting Services Inc
Project/Site: CMI Kinder Morgan Blanco NFP

Job ID: 400-203705-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
400-203705-1	DUP-01	Water	05/20/21 10:20	05/21/21 09:07	
400-203705-2	DUP-02	Water	05/20/21 12:42	05/21/21 09:07	
400-203705-3	MW-23	Water	05/20/21 10:45	05/21/21 09:07	
400-203705-4	MW-33	Water	05/20/21 12:20	05/21/21 09:07	
400-203705-5	MW-43	Water	05/20/21 12:07	05/21/21 09:07	
400-203705-6	MW-44	Water	05/20/21 11:42	05/21/21 09:07	
400-203705-7	MW-45	Water	05/20/21 10:58	05/21/21 09:07	
400-203705-8	MW-48	Water	05/20/21 09:20	05/21/21 09:07	
400-203705-9	MW-51	Water	05/20/21 10:25	05/21/21 09:07	
400-203705-10	MW-52	Water	05/20/21 09:55	05/21/21 09:07	
400-203705-11	MW-53	Water	05/20/21 09:38	05/21/21 09:07	
400-203705-12	MW-54	Water	05/20/21 09:00	05/21/21 09:07	
400-203705-13	MW-55	Water	05/20/21 12:53	05/21/21 09:07	
400-203705-14	MW-40	Water	05/20/21 07:52	05/22/21 08:45	
400-203705-15	MW-41	Water	05/20/21 08:14	05/22/21 08:45	
400-203705-16	MW-42	Water	05/20/21 08:28	05/22/21 08:45	
400-203705-17	MW-46	Water	05/20/21 08:50	05/22/21 08:45	
400-203705-18	TB-01	Water	05/20/21 00:00	05/21/21 09:07	

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: CMI Kinder Morgan Blanco NFP

Job ID: 400-203705-1

Client Sample ID: DUP-01

Date Collected: 05/20/21 10:20
Date Received: 05/21/21 09:07

Lab Sample ID: 400-203705-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**2.4**		0.010	0.0038	mg/L			05/27/21 17:42	10
Ethylbenzene	**0.052**		0.010	0.0050	mg/L			05/27/21 17:42	10
Toluene	0.0041	U	0.010	0.0041	mg/L			05/27/21 17:42	10
Xylenes, Total	0.016	U	0.10	0.016	mg/L			05/27/21 17:42	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*90*		*78 - 118*		*05/27/21 17:42*	*10*
Dibromofluoromethane	*94*		*81 - 121*		*05/27/21 17:42*	*10*
Toluene-d8 (Surr)	*89*		*80 - 120*		*05/27/21 17:42*	*10*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.033	U	0.10	0.033	mg/L			05/21/21 14:57	1
Nitrate Nitrite as N	0.033	U	0.10	0.033	mg/L			05/21/21 14:57	1
Nitrite as N	0.026	U	0.10	0.026	mg/L			05/21/21 14:57	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: CMI Kinder Morgan Blanco NFP

Job ID: 400-203705-1

Client Sample ID: DUP-02

Date Collected: 05/20/21 12:42
Date Received: 05/21/21 09:07

Lab Sample ID: 400-203705-2

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.35**		0.0020	0.00076	mg/L			05/27/21 10:12	2
Ethylbenzene	**0.010**		0.0020	0.0010	mg/L			05/27/21 10:12	2
Toluene	0.00082	U	0.0020	0.00082	mg/L			05/27/21 10:12	2
Xylenes, Total	0.0032	U	0.020	0.0032	mg/L			05/27/21 10:12	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*87*		*78 - 118*		*05/27/21 10:12*	*2*
Dibromofluoromethane	*93*		*81 - 121*		*05/27/21 10:12*	*2*
Toluene-d8 (Surr)	*96*		*80 - 120*		*05/27/21 10:12*	*2*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.33	U	1.0	0.33	mg/L			05/21/21 16:36	10
Nitrate Nitrite as N	0.33	U	1.0	0.33	mg/L			05/21/21 16:36	10
Nitrite as N	0.26	U	1.0	0.26	mg/L			05/21/21 16:36	10

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: CMI Kinder Morgan Blanco NFP

Job ID: 400-203705-1

Client Sample ID: MW-23

Date Collected: 05/20/21 10:45
Date Received: 05/21/21 09:07

Lab Sample ID: 400-203705-3

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**9.0**		0.050	0.019	mg/L			05/27/21 11:35	50
Ethylbenzene	**0.25**		0.050	0.025	mg/L			05/27/21 11:35	50
Toluene	0.021	U	0.050	0.021	mg/L			05/27/21 11:35	50
Xylenes, Total	**1.4**		0.50	0.080	mg/L			05/27/21 11:35	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*88*		*78 - 118*		*05/27/21 11:35*	*50*
Dibromofluoromethane	*94*		*81 - 121*		*05/27/21 11:35*	*50*
Toluene-d8 (Surr)	*89*		*80 - 120*		*05/27/21 11:35*	*50*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.33	U	1.0	0.33	mg/L			05/21/21 17:51	10
Nitrate Nitrite as N	0.33	U	1.0	0.33	mg/L			05/21/21 17:51	10
Nitrite as N	0.26	U	1.0	0.26	mg/L			05/21/21 17:51	10

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: CMI Kinder Morgan Blanco NFP

Job ID: 400-203705-1

Client Sample ID: MW-33
Date Collected: 05/20/21 12:20
Date Received: 05/21/21 09:07

Lab Sample ID: 400-203705-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00038	U	0.0010	0.00038	mg/L			06/02/21 12:41	1
Ethylbenzene	0.00050	U	0.0010	0.00050	mg/L			06/02/21 12:41	1
Toluene	0.00041	U	0.0010	0.00041	mg/L			06/02/21 12:41	1
Xylenes, Total	0.0016	U	0.010	0.0016	mg/L			06/02/21 12:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*104*		*78 - 118*		*06/02/21 12:41*	*1*
Dibromofluoromethane	*90*		*81 - 121*		*06/02/21 12:41*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*06/02/21 12:41*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**57**		1.0	0.33	mg/L			05/21/21 19:30	10
Nitrate Nitrite as N	**57**		1.0	0.33	mg/L			05/21/21 19:30	10
Nitrite as N	**0.28**	**J**	1.0	0.26	mg/L			05/21/21 19:30	10

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: CMI Kinder Morgan Blanco NFP

Job ID: 400-203705-1

Client Sample ID: MW-43

Date Collected: 05/20/21 12:07
Date Received: 05/21/21 09:07

Lab Sample ID: 400-203705-5

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00051**	**J**	0.0010	0.00038	mg/L			06/02/21 16:53	1
Ethylbenzene	0.00050	U	0.0010	0.00050	mg/L			06/02/21 16:53	1
Toluene	0.00041	U	0.0010	0.00041	mg/L			06/02/21 16:53	1
Xylenes, Total	0.0016	U	0.010	0.0016	mg/L			06/02/21 16:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*106*		*78 - 118*		*06/02/21 16:53*	*1*
Dibromofluoromethane	*90*		*81 - 121*		*06/02/21 16:53*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*06/02/21 16:53*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.33	U	1.0	0.33	mg/L			05/21/21 19:05	10
Nitrate Nitrite as N	0.33	U	1.0	0.33	mg/L			05/21/21 19:05	10
Nitrite as N	0.26	U	1.0	0.26	mg/L			05/21/21 19:05	10

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: CMI Kinder Morgan Blanco NFP

Job ID: 400-203705-1

Client Sample ID: MW-44

Date Collected: 05/20/21 11:42
Date Received: 05/21/21 09:07

Lab Sample ID: 400-203705-6

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.34**		0.0020	0.00076	mg/L			05/27/21 10:40	2
Ethylbenzene	**0.0093**		0.0020	0.0010	mg/L			05/27/21 10:40	2
Toluene	0.00082	U	0.0020	0.00082	mg/L			05/27/21 10:40	2
Xylenes, Total	0.0032	U	0.020	0.0032	mg/L			05/27/21 10:40	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*89*		*78 - 118*		*05/27/21 10:40*	*2*
Dibromofluoromethane	*99*		*81 - 121*		*05/27/21 10:40*	*2*
Toluene-d8 (Surr)	*95*		*80 - 120*		*05/27/21 10:40*	*2*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.33	U	1.0	0.33	mg/L			05/21/21 18:40	10
Nitrate Nitrite as N	0.33	U	1.0	0.33	mg/L			05/21/21 18:40	10
Nitrite as N	0.26	U	1.0	0.26	mg/L			05/21/21 18:40	10

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: CMI Kinder Morgan Blanco NFP

Job ID: 400-203705-1

Client Sample ID: MW-45

Date Collected: 05/20/21 10:58
Date Received: 05/21/21 09:07

Lab Sample ID: 400-203705-7

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.6**		0.010	0.0038	mg/L			05/27/21 18:11	10
Ethylbenzene	**0.047**		0.010	0.0050	mg/L			05/27/21 18:11	10
Toluene	**0.084**		0.010	0.0041	mg/L			05/27/21 18:11	10
Xylenes, Total	**0.31**		0.10	0.016	mg/L			05/27/21 18:11	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*90*		*78 - 118*		*05/27/21 18:11*	*10*
Dibromofluoromethane	*98*		*81 - 121*		*05/27/21 18:11*	*10*
Toluene-d8 (Surr)	*89*		*80 - 120*		*05/27/21 18:11*	*10*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.33	U	1.0	0.33	mg/L			05/21/21 18:16	10
Nitrate Nitrite as N	0.33	U	1.0	0.33	mg/L			05/21/21 18:16	10
Nitrite as N	0.26	U	1.0	0.26	mg/L			05/21/21 18:16	10

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: CMI Kinder Morgan Blanco NFP

Job ID: 400-203705-1

Client Sample ID: MW-48

Date Collected: 05/20/21 09:20
Date Received: 05/21/21 09:07

Lab Sample ID: 400-203705-8

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**3.1**		0.020	0.0076	mg/L			05/27/21 18:40	20
Ethylbenzene	**0.056**		0.020	0.010	mg/L			05/27/21 18:40	20
Toluene	0.0082	U	0.020	0.0082	mg/L			05/27/21 18:40	20
Xylenes, Total	0.032	U	0.20	0.032	mg/L			05/27/21 18:40	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*88*		*78 - 118*		*05/27/21 18:40*	*20*
Dibromofluoromethane	*99*		*81 - 121*		*05/27/21 18:40*	*20*
Toluene-d8 (Surr)	*88*		*80 - 120*		*05/27/21 18:40*	*20*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.033	U	0.10	0.033	mg/L			05/21/21 13:43	1
Nitrate Nitrite as N	0.033	U	0.10	0.033	mg/L			05/21/21 13:43	1
Nitrite as N	0.026	U	0.10	0.026	mg/L			05/21/21 13:43	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: CMI Kinder Morgan Blanco NFP

Job ID: 400-203705-1

Client Sample ID: MW-51

Date Collected: 05/20/21 10:25
Date Received: 05/21/21 09:07

Lab Sample ID: 400-203705-9

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.66**	**F1**	0.0050	0.0019	mg/L			06/02/21 13:07	5
Ethylbenzene	**0.027**	**F1 F2**	0.0050	0.0025	mg/L			06/02/21 13:07	5
Toluene	**0.0025**	**J**	0.0050	0.0021	mg/L			06/02/21 13:07	5
Xylenes, Total	0.0080	U F1 F2	0.050	0.0080	mg/L			06/02/21 13:07	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*107*		*78 - 118*		*06/02/21 13:07*	*5*
Dibromofluoromethane	*92*		*81 - 121*		*06/02/21 13:07*	*5*
Toluene-d8 (Surr)	*103*		*80 - 120*		*06/02/21 13:07*	*5*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.33	U	1.0	0.33	mg/L			05/21/21 15:22	10
Nitrate Nitrite as N	0.33	U	1.0	0.33	mg/L			05/21/21 15:22	10
Nitrite as N	0.26	U	1.0	0.26	mg/L			05/21/21 15:22	10

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: CMI Kinder Morgan Blanco NFP

Job ID: 400-203705-1

Client Sample ID: MW-52

Date Collected: 05/20/21 09:55
Date Received: 05/21/21 09:07

Lab Sample ID: 400-203705-10

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.30**		0.0020	0.00076	mg/L			05/27/21 11:09	2
Ethylbenzene	**0.0092**		0.0020	0.0010	mg/L			05/27/21 11:09	2
Toluene	0.00082	U	0.0020	0.00082	mg/L			05/27/21 11:09	2
Xylenes, Total	0.0032	U	0.020	0.0032	mg/L			05/27/21 11:09	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*89*		*78 - 118*		*05/27/21 11:09*	*2*
Dibromofluoromethane	*95*		*81 - 121*		*05/27/21 11:09*	*2*
Toluene-d8 (Surr)	*88*		*80 - 120*		*05/27/21 11:09*	*2*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.033	U	0.10	0.033	mg/L			05/21/21 14:32	1
Nitrate Nitrite as N	0.033	U	0.10	0.033	mg/L			05/21/21 14:32	1
Nitrite as N	0.026	U	0.10	0.026	mg/L			05/21/21 14:32	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: CMI Kinder Morgan Blanco NFP

Job ID: 400-203705-1

Client Sample ID: MW-53

Date Collected: 05/20/21 09:38
Date Received: 05/21/21 09:07

Lab Sample ID: 400-203705-11

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00038	U	0.0010	0.00038	mg/L			06/02/21 17:18	1
Ethylbenzene	0.00050	U	0.0010	0.00050	mg/L			06/02/21 17:18	1
Toluene	0.00041	U	0.0010	0.00041	mg/L			06/02/21 17:18	1
Xylenes, Total	0.0016	U	0.010	0.0016	mg/L			06/02/21 17:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*106*		*78 - 118*		*06/02/21 17:18*	*1*
Dibromofluoromethane	*90*		*81 - 121*		*06/02/21 17:18*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*06/02/21 17:18*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.033	U	0.10	0.033	mg/L			05/21/21 14:07	1
Nitrate Nitrite as N	0.033	U	0.10	0.033	mg/L			05/21/21 14:07	1
Nitrite as N	0.026	U	0.10	0.026	mg/L			05/21/21 14:07	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: CMI Kinder Morgan Blanco NFP

Job ID: 400-203705-1

Client Sample ID: MW-54

Date Collected: 05/20/21 09:00
Date Received: 05/21/21 09:07

Lab Sample ID: 400-203705-12

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00038	U	0.0010	0.00038	mg/L			06/02/21 17:43	1
Ethylbenzene	0.00050	U	0.0010	0.00050	mg/L			06/02/21 17:43	1
Toluene	0.00041	U	0.0010	0.00041	mg/L			06/02/21 17:43	1
Xylenes, Total	0.0016	U	0.010	0.0016	mg/L			06/02/21 17:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*105*		*78 - 118*		*06/02/21 17:43*	*1*
Dibromofluoromethane	*91*		*81 - 121*		*06/02/21 17:43*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*06/02/21 17:43*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**8.6**		0.10	0.033	mg/L			05/21/21 13:18	1
Nitrate Nitrite as N	**8.6**		0.10	0.033	mg/L			05/21/21 13:18	1
Nitrite as N	0.026	U	0.10	0.026	mg/L			05/21/21 13:18	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: CMI Kinder Morgan Blanco NFP

Job ID: 400-203705-1

Client Sample ID: MW-55

Date Collected: 05/20/21 12:53
Date Received: 05/21/21 09:07

Lab Sample ID: 400-203705-13

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.0051**		0.0010	0.00038	mg/L			06/02/21 18:08	1
Ethylbenzene	0.00050	U	0.0010	0.00050	mg/L			06/02/21 18:08	1
Toluene	**0.0011**		0.0010	0.00041	mg/L			06/02/21 18:08	1
Xylenes, Total	0.0016	U	0.010	0.0016	mg/L			06/02/21 18:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*107*		*78 - 118*		*06/02/21 18:08*	*1*
Dibromofluoromethane	*94*		*81 - 121*		*06/02/21 18:08*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*06/02/21 18:08*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.33	U	1.0	0.33	mg/L			05/21/21 20:44	10
Nitrate Nitrite as N	0.33	U	1.0	0.33	mg/L			05/21/21 20:44	10
Nitrite as N	0.26	U	1.0	0.26	mg/L			05/21/21 20:44	10

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: CMI Kinder Morgan Blanco NFP

Job ID: 400-203705-1

Client Sample ID: MW-40
Date Collected: 05/20/21 07:52
Date Received: 05/22/21 08:45

Lab Sample ID: 400-203705-14
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00038	U	0.0010	0.00038	mg/L			06/02/21 18:34	1
Ethylbenzene	0.00050	U	0.0010	0.00050	mg/L			06/02/21 18:34	1
Toluene	0.00041	U	0.0010	0.00041	mg/L			06/02/21 18:34	1
Xylenes, Total	0.0016	U	0.010	0.0016	mg/L			06/02/21 18:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*105*		*78 - 118*		*06/02/21 18:34*	*1*
Dibromofluoromethane	*91*		*81 - 121*		*06/02/21 18:34*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*06/02/21 18:34*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**51**	**H**	1.0	0.33	mg/L			05/22/21 13:16	10
Nitrate Nitrite as N	**52**	**H**	1.0	0.33	mg/L			05/22/21 13:16	10
Nitrite as N	**0.60**	**J H**	1.0	0.26	mg/L			05/22/21 13:16	10

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: CMI Kinder Morgan Blanco NFP

Job ID: 400-203705-1

Client Sample ID: MW-41

Date Collected: 05/20/21 08:14
Date Received: 05/22/21 08:45

Lab Sample ID: 400-203705-15

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00038	U	0.0010	0.00038	mg/L			06/02/21 18:59	1
Ethylbenzene	0.00050	U	0.0010	0.00050	mg/L			06/02/21 18:59	1
Toluene	0.00041	U	0.0010	0.00041	mg/L			06/02/21 18:59	1
Xylenes, Total	0.0016	U	0.010	0.0016	mg/L			06/02/21 18:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*78 - 118*		*06/02/21 18:59*	*1*
Dibromofluoromethane	*99*		*81 - 121*		*06/02/21 18:59*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*06/02/21 18:59*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**5.1**	**H**	1.0	0.33	mg/L			05/22/21 14:31	10
Nitrate Nitrite as N	**5.4**	**H**	1.0	0.33	mg/L			05/22/21 14:31	10
Nitrite as N	**0.26**	**J H**	1.0	0.26	mg/L			05/22/21 14:31	10

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: CMI Kinder Morgan Blanco NFP

Job ID: 400-203705-1

Client Sample ID: MW-42

Date Collected: 05/20/21 08:28
Date Received: 05/22/21 08:45

Lab Sample ID: 400-203705-16

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00038	U	0.0010	0.00038	mg/L			06/02/21 19:24	1
Ethylbenzene	0.00050	U	0.0010	0.00050	mg/L			06/02/21 19:24	1
Toluene	0.00041	U	0.0010	0.00041	mg/L			06/02/21 19:24	1
Xylenes, Total	0.0016	U	0.010	0.0016	mg/L			06/02/21 19:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*78 - 118*		*06/02/21 19:24*	*1*
Dibromofluoromethane	*97*		*81 - 121*		*06/02/21 19:24*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*06/02/21 19:24*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.33	U H	1.0	0.33	mg/L			05/22/21 14:56	10
Nitrate Nitrite as N	0.33	U H	1.0	0.33	mg/L			05/22/21 14:56	10
Nitrite as N	0.26	U H	1.0	0.26	mg/L			05/22/21 14:56	10

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: CMI Kinder Morgan Blanco NFP

Job ID: 400-203705-1

Client Sample ID: MW-46

Date Collected: 05/20/21 08:50
Date Received: 05/22/21 08:45

Lab Sample ID: 400-203705-17

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00038	U	0.0010	0.00038	mg/L			06/02/21 19:49	1
Ethylbenzene	0.00050	U	0.0010	0.00050	mg/L			06/02/21 19:49	1
Toluene	0.00041	U	0.0010	0.00041	mg/L			06/02/21 19:49	1
Xylenes, Total	0.0016	U	0.010	0.0016	mg/L			06/02/21 19:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*78 - 118*		*06/02/21 19:49*	*1*
Dibromofluoromethane	*98*		*81 - 121*		*06/02/21 19:49*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*06/02/21 19:49*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**0.39**	**J H**	1.0	0.33	mg/L			05/22/21 15:20	10
Nitrate Nitrite as N	**0.39**	**J H**	1.0	0.33	mg/L			05/22/21 15:20	10
Nitrite as N	0.26	U H	1.0	0.26	mg/L			05/22/21 15:20	10

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: CMI Kinder Morgan Blanco NFP

Job ID: 400-203705-1

Client Sample ID: TB-01

Lab Sample ID: 400-203705-18

Date Collected: 05/20/21 00:00
Matrix: Water
Date Received: 05/21/21 09:07

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00038	U	0.0010	0.00038	mg/L			06/02/21 16:28	1
Ethylbenzene	0.00050	U	0.0010	0.00050	mg/L			06/02/21 16:28	1
Toluene	0.00041	U	0.0010	0.00041	mg/L			06/02/21 16:28	1
Xylenes, Total	0.0016	U	0.010	0.0016	mg/L			06/02/21 16:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*107*		*78 - 118*		*06/02/21 16:28*	*1*
Dibromofluoromethane	*89*		*81 - 121*		*06/02/21 16:28*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*06/02/21 16:28*	*1*

Definitions/Glossary

Client: Stantec Consulting Services Inc
Job ID: 400-203705-1
Project/Site: CMI Kinder Morgan Blanco NFP

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

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

Surrogate Summary

Client: Stantec Consulting Services Inc
Project/Site: CMI Kinder Morgan Blanco NFP

Job ID: 400-203705-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(78-118)	(81-121)	(80-120)
400-203705-1	DUP-01	90	94	89
400-203705-2	DUP-02	87	93	96
400-203705-3	MW-23	88	94	89
400-203705-4	MW-33	104	90	104
400-203705-4 MS	MW-33	105	93	103
400-203705-4 MSD	MW-33	107	93	103
400-203705-5	MW-43	106	90	103
400-203705-6	MW-44	89	99	95
400-203705-7	MW-45	90	98	89
400-203705-8	MW-48	88	99	88
400-203705-9	MW-51	107	92	103
400-203705-9 MS	MW-51	106	97	104
400-203705-9 MSD	MW-51	106	100	103
400-203705-10	MW-52	89	95	88
400-203705-11	MW-53	106	90	103
400-203705-12	MW-54	105	91	102
400-203705-13	MW-55	107	94	103
400-203705-14	MW-40	105	91	102
400-203705-15	MW-41	95	99	98
400-203705-16	MW-42	99	97	100
400-203705-17	MW-46	99	98	97
400-203705-18	TB-01	107	89	104
400-203763-A-2 MS	Matrix Spike	100	94	96
400-203763-A-2 MSD	Matrix Spike Duplicate	96	99	96
LCS 400-533431/1002	Lab Control Sample	97	95	96
LCS 400-534019/1002	Lab Control Sample	106	91	104
MB 400-533431/4	Method Blank	89	99	88
MB 400-534019/5	Method Blank	103	88	104

Surrogate Legend

BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

QC Association Summary

Client: Stantec Consulting Services Inc
Project/Site: CMI Kinder Morgan Blanco NFP

Job ID: 400-203705-1

GC/MS VOA

Analysis Batch: 533431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-203705-1	DUP-01	Total/NA	Water	8260B	
400-203705-2	DUP-02	Total/NA	Water	8260B	
400-203705-3	MW-23	Total/NA	Water	8260B	
400-203705-6	MW-44	Total/NA	Water	8260B	
400-203705-7	MW-45	Total/NA	Water	8260B	
400-203705-8	MW-48	Total/NA	Water	8260B	
400-203705-10	MW-52	Total/NA	Water	8260B	
MB 400-533431/4	Method Blank	Total/NA	Water	8260B	
LCS 400-533431/1002	Lab Control Sample	Total/NA	Water	8260B	

Analysis Batch: 534019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-203705-4	MW-33	Total/NA	Water	8260B	
400-203705-5	MW-43	Total/NA	Water	8260B	
400-203705-9	MW-51	Total/NA	Water	8260B	
400-203705-11	MW-53	Total/NA	Water	8260B	
400-203705-12	MW-54	Total/NA	Water	8260B	
400-203705-13	MW-55	Total/NA	Water	8260B	
400-203705-14	MW-40	Total/NA	Water	8260B	
400-203705-15	MW-41	Total/NA	Water	8260B	
400-203705-16	MW-42	Total/NA	Water	8260B	
400-203705-17	MW-46	Total/NA	Water	8260B	
400-203705-18	TB-01	Total/NA	Water	8260B	
MB 400-534019/5	Method Blank	Total/NA	Water	8260B	
LCS 400-534019/1002	Lab Control Sample	Total/NA	Water	8260B	
400-203705-4 MS	MW-33	Total/NA	Water	8260B	
400-203705-4 MSD	MW-33	Total/NA	Water	8260B	
400-203705-9 MS	MW-51	Total/NA	Water	8260B	
400-203705-9 MSD	MW-51	Total/NA	Water	8260B	

HPLC/IC

Analysis Batch: 532814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-203705-1	DUP-01	Total/NA	Water	300.0	
400-203705-2	DUP-02	Total/NA	Water	300.0	
400-203705-3	MW-23	Total/NA	Water	300.0	
400-203705-4	MW-33	Total/NA	Water	300.0	
400-203705-5	MW-43	Total/NA	Water	300.0	
400-203705-6	MW-44	Total/NA	Water	300.0	
400-203705-7	MW-45	Total/NA	Water	300.0	
400-203705-8	MW-48	Total/NA	Water	300.0	
400-203705-9	MW-51	Total/NA	Water	300.0	
400-203705-10	MW-52	Total/NA	Water	300.0	
400-203705-11	MW-53	Total/NA	Water	300.0	
400-203705-12	MW-54	Total/NA	Water	300.0	
400-203705-13	MW-55	Total/NA	Water	300.0	
MB 400-532814/4	Method Blank	Total/NA	Water	300.0	
LCS 400-532814/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 400-532814/7	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 400-532814/5	Lab Control Sample	Total/NA	Water	300.0	

QC Association Summary

Client: Stantec Consulting Services Inc
Project/Site: CMI Kinder Morgan Blanco NFP

Job ID: 400-203705-1

HPLC/IC (Continued)

Analysis Batch: 532814 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-203705-4 MS	MW-33	Total/NA	Water	300.0	
400-203705-4 MSD	MW-33	Total/NA	Water	300.0	
400-203705-9 MS	MW-51	Total/NA	Water	300.0	
400-203705-9 MSD	MW-51	Total/NA	Water	300.0	

Analysis Batch: 533048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-203705-14	MW-40	Total/NA	Water	300.0	
400-203705-15	MW-41	Total/NA	Water	300.0	
400-203705-16	MW-42	Total/NA	Water	300.0	
400-203705-17	MW-46	Total/NA	Water	300.0	
MB 400-533048/4	Method Blank	Total/NA	Water	300.0	
LCS 400-533048/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 400-533048/7	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 400-533048/5	Lab Control Sample	Total/NA	Water	300.0	
400-203705-14 MS	MW-40	Total/NA	Water	300.0	
400-203705-14 MSD	MW-40	Total/NA	Water	300.0	

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: CMI Kinder Morgan Blanco NFP

Job ID: 400-203705-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-533431/4
Matrix: Water
Analysis Batch: 533431

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00038	U	0.0010	0.00038	mg/L			05/27/21 08:20	1
Ethylbenzene	0.00050	U	0.0010	0.00050	mg/L			05/27/21 08:20	1
Toluene	0.00041	U	0.0010	0.00041	mg/L			05/27/21 08:20	1
Xylenes, Total	0.0016	U	0.010	0.0016	mg/L			05/27/21 08:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*89*		*78 - 118*		*05/27/21 08:20*	*1*
Dibromofluoromethane	*99*		*81 - 121*		*05/27/21 08:20*	*1*
Toluene-d8 (Surr)	*88*		*80 - 120*		*05/27/21 08:20*	*1*

Lab Sample ID: LCS 400-533431/1002
Matrix: Water
Analysis Batch: 533431

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.0516		mg/L		103	70 - 130
Ethylbenzene	0.0500	0.0497		mg/L		99	70 - 130
Toluene	0.0500	0.0508		mg/L		102	70 - 130
Xylenes, Total	0.100	0.101		mg/L		101	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*97*		*78 - 118*
Dibromofluoromethane	*95*		*81 - 121*
Toluene-d8 (Surr)	*96*		*80 - 120*

Lab Sample ID: MB 400-534019/5
Matrix: Water
Analysis Batch: 534019

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00038	U	0.0010	0.00038	mg/L			06/02/21 12:16	1
Ethylbenzene	0.00050	U	0.0010	0.00050	mg/L			06/02/21 12:16	1
Toluene	0.00041	U	0.0010	0.00041	mg/L			06/02/21 12:16	1
Xylenes, Total	0.0016	U	0.010	0.0016	mg/L			06/02/21 12:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*103*		*78 - 118*		*06/02/21 12:16*	*1*
Dibromofluoromethane	*88*		*81 - 121*		*06/02/21 12:16*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*06/02/21 12:16*	*1*

Lab Sample ID: LCS 400-534019/1002
Matrix: Water
Analysis Batch: 534019

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.0480		mg/L		96	70 - 130
Ethylbenzene	0.0500	0.0471		mg/L		94	70 - 130
Toluene	0.0500	0.0468		mg/L		94	70 - 130

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: CMI Kinder Morgan Blanco NFP

Job ID: 400-203705-1

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

Lab Sample ID: LCS 400-534019/1002
Matrix: Water
Analysis Batch: 534019

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Xylenes, Total			0.100	0.0898		mg/L		90	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*106*		*78 - 118*
Dibromofluoromethane	*91*		*81 - 121*
Toluene-d8 (Surr)	*104*		*80 - 120*

Lab Sample ID: 400-203705-4 MS
Matrix: Water
Analysis Batch: 534019

Client Sample ID: MW-33
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	0.00038	U	0.0500	0.0448		mg/L		90	56 - 142		
Ethylbenzene	0.00050	U	0.0500	0.0411		mg/L		82	58 - 131		
Toluene	0.00041	U	0.0500	0.0429		mg/L		86	65 - 130		
Xylenes, Total	0.0016	U	0.100	0.0785		mg/L		78	59 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*105*		*78 - 118*
Dibromofluoromethane	*93*		*81 - 121*
Toluene-d8 (Surr)	*103*		*80 - 120*

Lab Sample ID: 400-203705-4 MSD
Matrix: Water
Analysis Batch: 534019

Client Sample ID: MW-33
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.00038	U	0.0500	0.0449		mg/L		90	56 - 142	0	30
Ethylbenzene	0.00050	U	0.0500	0.0404		mg/L		81	58 - 131	2	30
Toluene	0.00041	U	0.0500	0.0429		mg/L		86	65 - 130	0	30
Xylenes, Total	0.0016	U	0.100	0.0768		mg/L		77	59 - 130	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*107*		*78 - 118*
Dibromofluoromethane	*93*		*81 - 121*
Toluene-d8 (Surr)	*103*		*80 - 120*

Lab Sample ID: 400-203705-9 MS
Matrix: Water
Analysis Batch: 534019

Client Sample ID: MW-51
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	0.66	F1	0.250	0.872		mg/L		86	56 - 142		
Ethylbenzene	0.027	F1 F2	0.250	0.222		mg/L		78	58 - 131		
Toluene	0.0025	J	0.250	0.217		mg/L		86	65 - 130		
Xylenes, Total	0.0080	U F1 F2	0.500	0.395		mg/L		79	59 - 130		

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: CMI Kinder Morgan Blanco NFP

Job ID: 400-203705-1

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

Lab Sample ID: 400-203705-9 MS
Matrix: Water
Analysis Batch: 534019

Client Sample ID: MW-51
Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene	106		78 - 118
Dibromofluoromethane	97		81 - 121
Toluene-d8 (Surr)	104		80 - 120

Lab Sample ID: 400-203705-9 MSD
Matrix: Water
Analysis Batch: 534019

Client Sample ID: MW-51
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.66	F1	0.250	0.783	F1	mg/L		50	56 - 142	11	30
Ethylbenzene	0.027	F1 F2	0.250	0.163	F1 F2	mg/L		55	58 - 131	31	30
Toluene	0.0025	J	0.250	0.173		mg/L		68	65 - 130	23	30
Xylenes, Total	0.0080	U F1 F2	0.500	0.286	F1 F2	mg/L		57	59 - 130	32	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene	106		78 - 118
Dibromofluoromethane	100		81 - 121
Toluene-d8 (Surr)	103		80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 400-532814/4
Matrix: Water
Analysis Batch: 532814

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.033	U	0.10	0.033	mg/L			05/21/21 21:09	1
Nitrate Nitrite as N	0.033	U	0.10	0.033	mg/L			05/21/21 21:09	1
Nitrite as N	0.026	U	0.10	0.026	mg/L			05/21/21 21:09	1

Lab Sample ID: LCS 400-532814/6
Matrix: Water
Analysis Batch: 532814

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	2.26	2.32		mg/L		103	90 - 110
Nitrate Nitrite as N	5.30	5.53		mg/L		104	90 - 110
Nitrite as N	3.04	3.21		mg/L		106	90 - 110

Lab Sample ID: LCSD 400-532814/7
Matrix: Water
Analysis Batch: 532814

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	2.26	2.33		mg/L		103	90 - 110	0	15
Nitrate Nitrite as N	5.30	5.57		mg/L		105	90 - 110	1	15
Nitrite as N	3.04	3.24		mg/L		107	90 - 110	1	15

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: CMI Kinder Morgan Blanco NFP

Job ID: 400-203705-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MRL 400-532814/5
Matrix: Water
Analysis Batch: 532814

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrate as N			0.226	0.171		mg/L		76	50 - 150		
Nitrate Nitrite as N			0.530	0.414		mg/L		78	50 - 150		
Nitrite as N			0.304	0.243		mg/L		80	50 - 150		

Lab Sample ID: 400-203705-4 MS
Matrix: Water
Analysis Batch: 532814

Client Sample ID: MW-33
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrate as N	57		22.6	78.7		mg/L		98	80 - 120		
Nitrate Nitrite as N	57		53.0	110		mg/L		99	80 - 120		
Nitrite as N	0.28	J	30.4	31.2		mg/L		102	80 - 120		

Lab Sample ID: 400-203705-4 MSD
Matrix: Water
Analysis Batch: 532814

Client Sample ID: MW-33
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	57		22.6	79.6		mg/L		102	80 - 120	1	20
Nitrate Nitrite as N	57		53.0	111		mg/L		101	80 - 120	1	20
Nitrite as N	0.28	J	30.4	31.3		mg/L		102	80 - 120	0	20

Lab Sample ID: 400-203705-9 MS
Matrix: Water
Analysis Batch: 532814

Client Sample ID: MW-51
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrate as N	0.33	U	22.6	20.6		mg/L		91	80 - 120		
Nitrate Nitrite as N	0.33	U	53.0	49.6		mg/L		94	80 - 120		
Nitrite as N	0.26	U	30.4	29.0		mg/L		95	80 - 120		

Lab Sample ID: 400-203705-9 MSD
Matrix: Water
Analysis Batch: 532814

Client Sample ID: MW-51
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	0.33	U	22.6	22.7		mg/L		100	80 - 120	9	20
Nitrate Nitrite as N	0.33	U	53.0	54.1		mg/L		102	80 - 120	9	20
Nitrite as N	0.26	U	30.4	31.4		mg/L		103	80 - 120	8	20

Lab Sample ID: MB 400-533048/4
Matrix: Water
Analysis Batch: 533048

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.033	U	0.10	0.033	mg/L			05/22/21 11:37	1
Nitrate Nitrite as N	0.033	U	0.10	0.033	mg/L			05/22/21 11:37	1
Nitrite as N	0.026	U	0.10	0.026	mg/L			05/22/21 11:37	1

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: CMI Kinder Morgan Blanco NFP

Job ID: 400-203705-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 400-533048/6
Matrix: Water
Analysis Batch: 533048

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	2.26	2.31		mg/L		102	90 - 110
Nitrate Nitrite as N	5.30	5.50		mg/L		104	90 - 110
Nitrite as N	3.04	3.19		mg/L		105	90 - 110

Lab Sample ID: LCSD 400-533048/7
Matrix: Water
Analysis Batch: 533048

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	2.26	2.32		mg/L		103	90 - 110	1	15
Nitrate Nitrite as N	5.30	5.50		mg/L		104	90 - 110	0	15
Nitrite as N	3.04	3.18		mg/L		104	90 - 110	0	15

Lab Sample ID: MRL 400-533048/5
Matrix: Water
Analysis Batch: 533048

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	0.226	0.170		mg/L		75	50 - 150
Nitrate Nitrite as N	0.530	0.414		mg/L		78	50 - 150
Nitrite as N	0.304	0.244		mg/L		80	50 - 150

Lab Sample ID: 400-203705-14 MS
Matrix: Water
Analysis Batch: 533048

Client Sample ID: MW-40
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	51	H	22.6	71.6		mg/L		92	80 - 120
Nitrate Nitrite as N	52	H	53.0	102		mg/L		96	80 - 120
Nitrite as N	0.60	J H	30.4	30.7		mg/L		99	80 - 120

Lab Sample ID: 400-203705-14 MSD
Matrix: Water
Analysis Batch: 533048

Client Sample ID: MW-40
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	51	H	22.6	72.1		mg/L		94	80 - 120	1	20
Nitrate Nitrite as N	52	H	53.0	103		mg/L		97	80 - 120	1	20
Nitrite as N	0.60	J H	30.4	31.1		mg/L		100	80 - 120	1	20

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: CMI Kinder Morgan Blanco NFP

Job ID: 400-203705-1

Client Sample ID: DUP-01
Date Collected: 05/20/21 10:20
Date Received: 05/21/21 09:07

Lab Sample ID: 400-203705-1
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	8260B		10	5 mL	5 mL	533431	05/27/21 17:42	WPD	TAL PEN
Total/NA	Analysis	300.0		1			532814	05/21/21 14:57	TAJ	TAL PEN

Client Sample ID: DUP-02
Date Collected: 05/20/21 12:42
Date Received: 05/21/21 09:07

Lab Sample ID: 400-203705-2
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	8260B		2	5 mL	5 mL	533431	05/27/21 10:12	WPD	TAL PEN
Total/NA	Analysis	300.0		10			532814	05/21/21 16:36	TAJ	TAL PEN

Client Sample ID: MW-23
Date Collected: 05/20/21 10:45
Date Received: 05/21/21 09:07

Lab Sample ID: 400-203705-3
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	8260B		50	5 mL	5 mL	533431	05/27/21 11:35	WPD	TAL PEN
Total/NA	Analysis	300.0		10			532814	05/21/21 17:51	TAJ	TAL PEN

Client Sample ID: MW-33
Date Collected: 05/20/21 12:20
Date Received: 05/21/21 09:07

Lab Sample ID: 400-203705-4
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	8260B		1	5 mL	5 mL	534019	06/02/21 12:41	BEP	TAL PEN
Total/NA	Analysis	300.0		10			532814	05/21/21 19:30	TAJ	TAL PEN

Client Sample ID: MW-43
Date Collected: 05/20/21 12:07
Date Received: 05/21/21 09:07

Lab Sample ID: 400-203705-5
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	8260B		1	5 mL	5 mL	534019	06/02/21 16:53	BEP	TAL PEN
Total/NA	Analysis	300.0		10			532814	05/21/21 19:05	TAJ	TAL PEN

Client Sample ID: MW-44
Date Collected: 05/20/21 11:42
Date Received: 05/21/21 09:07

Lab Sample ID: 400-203705-6
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	8260B		2	5 mL	5 mL	533431	05/27/21 10:40	WPD	TAL PEN
Total/NA	Analysis	300.0		10			532814	05/21/21 18:40	TAJ	TAL PEN

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: CMI Kinder Morgan Blanco NFP

Job ID: 400-203705-1

Client Sample ID: MW-45
Date Collected: 05/20/21 10:58
Date Received: 05/21/21 09:07

Lab Sample ID: 400-203705-7
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	8260B		10	5 mL	5 mL	533431	05/27/21 18:11	WPD	TAL PEN
Total/NA	Analysis	300.0		10			532814	05/21/21 18:16	TAJ	TAL PEN

Client Sample ID: MW-48
Date Collected: 05/20/21 09:20
Date Received: 05/21/21 09:07

Lab Sample ID: 400-203705-8
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	8260B		20	5 mL	5 mL	533431	05/27/21 18:40	WPD	TAL PEN
Total/NA	Analysis	300.0		1			532814	05/21/21 13:43	TAJ	TAL PEN

Client Sample ID: MW-51
Date Collected: 05/20/21 10:25
Date Received: 05/21/21 09:07

Lab Sample ID: 400-203705-9
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	8260B		5	5 mL	5 mL	534019	06/02/21 13:07	BEP	TAL PEN
Total/NA	Analysis	300.0		10			532814	05/21/21 15:22	TAJ	TAL PEN

Client Sample ID: MW-52
Date Collected: 05/20/21 09:55
Date Received: 05/21/21 09:07

Lab Sample ID: 400-203705-10
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	8260B		2	5 mL	5 mL	533431	05/27/21 11:09	WPD	TAL PEN
Total/NA	Analysis	300.0		1			532814	05/21/21 14:32	TAJ	TAL PEN

Client Sample ID: MW-53
Date Collected: 05/20/21 09:38
Date Received: 05/21/21 09:07

Lab Sample ID: 400-203705-11
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	8260B		1	5 mL	5 mL	534019	06/02/21 17:18	BEP	TAL PEN
Total/NA	Analysis	300.0		1			532814	05/21/21 14:07	TAJ	TAL PEN

Client Sample ID: MW-54
Date Collected: 05/20/21 09:00
Date Received: 05/21/21 09:07

Lab Sample ID: 400-203705-12
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	8260B		1	5 mL	5 mL	534019	06/02/21 17:43	BEP	TAL PEN
Total/NA	Analysis	300.0		1			532814	05/21/21 13:18	TAJ	TAL PEN

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: CMI Kinder Morgan Blanco NFP

Job ID: 400-203705-1

Client Sample ID: MW-55
Date Collected: 05/20/21 12:53
Date Received: 05/21/21 09:07

Lab Sample ID: 400-203705-13
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	8260B		1	5 mL	5 mL	534019	06/02/21 18:08	BEP	TAL PEN
Total/NA	Analysis	300.0		10			532814	05/21/21 20:44	TAJ	TAL PEN

Client Sample ID: MW-40
Date Collected: 05/20/21 07:52
Date Received: 05/22/21 08:45

Lab Sample ID: 400-203705-14
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	8260B		1	5 mL	5 mL	534019	06/02/21 18:34	BEP	TAL PEN
Total/NA	Analysis	300.0		10			533048	05/22/21 13:16	TAJ	TAL PEN

Client Sample ID: MW-41
Date Collected: 05/20/21 08:14
Date Received: 05/22/21 08:45

Lab Sample ID: 400-203705-15
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	8260B		1	5 mL	5 mL	534019	06/02/21 18:59	BEP	TAL PEN
Total/NA	Analysis	300.0		10			533048	05/22/21 14:31	TAJ	TAL PEN

Client Sample ID: MW-42
Date Collected: 05/20/21 08:28
Date Received: 05/22/21 08:45

Lab Sample ID: 400-203705-16
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	8260B		1	5 mL	5 mL	534019	06/02/21 19:24	BEP	TAL PEN
Total/NA	Analysis	300.0		10			533048	05/22/21 14:56	TAJ	TAL PEN

Client Sample ID: MW-46
Date Collected: 05/20/21 08:50
Date Received: 05/22/21 08:45

Lab Sample ID: 400-203705-17
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	8260B		1	5 mL	5 mL	534019	06/02/21 19:49	BEP	TAL PEN
Total/NA	Analysis	300.0		10			533048	05/22/21 15:20	TAJ	TAL PEN

Client Sample ID: TB-01
Date Collected: 05/20/21 00:00
Date Received: 05/21/21 09:07

Lab Sample ID: 400-203705-18
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	8260B		1	5 mL	5 mL	534019	06/02/21 16:28	BEP	TAL PEN

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: CMI Kinder Morgan Blanco NFP

Job ID: 400-203705-1

Client Sample ID: Method Blank — Lab Sample ID: MB 400-532814/4

Date Collected: N/A
Date Received: N/A
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	300.0		1			532814	05/21/21 21:09	TAJ	TAL PEN

Client Sample ID: Method Blank — Lab Sample ID: MB 400-533048/4

Date Collected: N/A
Date Received: N/A
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	300.0		1			533048	05/22/21 11:37	TAJ	TAL PEN

Client Sample ID: Method Blank — Lab Sample ID: MB 400-533431/4

Date Collected: N/A
Date Received: N/A
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	8260B		1	5 mL	5 mL	533431	05/27/21 08:20	WPD	TAL PEN

Client Sample ID: Method Blank — Lab Sample ID: MB 400-534019/5

Date Collected: N/A
Date Received: N/A
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	8260B		1	5 mL	5 mL	534019	06/02/21 12:16	BEP	TAL PEN

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 400-532814/6

Date Collected: N/A
Date Received: N/A
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	300.0		1			532814	05/21/21 21:34	TAJ	TAL PEN

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 400-533048/6

Date Collected: N/A
Date Received: N/A
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	300.0		1			533048	05/22/21 12:27	TAJ	TAL PEN

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 400-533431/1002

Date Collected: N/A
Date Received: N/A
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	8260B		1	5 mL	5 mL	533431	05/27/21 07:20	WPD	TAL PEN

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: CMI Kinder Morgan Blanco NFP

Job ID: 400-203705-1

Client Sample ID: Lab Control Sample
Lab Sample ID: LCS 400-534019/1002
Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	534019	06/02/21 11:16	BEP	TAL PEN

Client Sample ID: Lab Control Sample Dup
Lab Sample ID: LCSD 400-532814/7
Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			532814	05/21/21 23:14	TAJ	TAL PEN

Client Sample ID: Lab Control Sample Dup
Lab Sample ID: LCSD 400-533048/7
Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			533048	05/22/21 12:51	TAJ	TAL PEN

Client Sample ID: Lab Control Sample
Lab Sample ID: MRL 400-532814/5
Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			532814	05/21/21 22:49	TAJ	TAL PEN

Client Sample ID: Lab Control Sample
Lab Sample ID: MRL 400-533048/5
Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			533048	05/22/21 12:02	TAJ	TAL PEN

Client Sample ID: MW-33
Lab Sample ID: 400-203705-4 MS
Date Collected: 05/20/21 12:20
Matrix: Water
Date Received: 05/21/21 09:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	534019	06/02/21 13:32	BEP	TAL PEN
Total/NA	Analysis	300.0		10			532814	05/21/21 19:55	TAJ	TAL PEN

Client Sample ID: MW-33
Lab Sample ID: 400-203705-4 MSD
Date Collected: 05/20/21 12:20
Matrix: Water
Date Received: 05/21/21 09:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	534019	06/02/21 13:57	BEP	TAL PEN
Total/NA	Analysis	300.0		10			532814	05/21/21 20:20	TAJ	TAL PEN

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: CMI Kinder Morgan Blanco NFP

Job ID: 400-203705-1

Client Sample ID: MW-51
Date Collected: 05/20/21 10:25
Date Received: 05/21/21 09:07

Lab Sample ID: 400-203705-9 MS
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	8260B		5	5 mL	5 mL	534019	06/02/21 14:22	BEP	TAL PEN
Total/NA	Analysis	300.0		10			532814	05/21/21 15:47	TAJ	TAL PEN

Client Sample ID: MW-51
Date Collected: 05/20/21 10:25
Date Received: 05/21/21 09:07

Lab Sample ID: 400-203705-9 MSD
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	8260B		5	5 mL	5 mL	534019	06/02/21 14:47	BEP	TAL PEN
Total/NA	Analysis	300.0		10			532814	05/21/21 16:11	TAJ	TAL PEN

Client Sample ID: MW-40
Date Collected: 05/20/21 07:52
Date Received: 05/22/21 08:45

Lab Sample ID: 400-203705-14 MS
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	300.0		10			533048	05/22/21 13:41	TAJ	TAL PEN

Client Sample ID: MW-40
Date Collected: 05/20/21 07:52
Date Received: 05/22/21 08:45

Lab Sample ID: 400-203705-14 MSD
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	300.0		10			533048	05/22/21 14:06	TAJ	TAL PEN

Laboratory References:

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

Method Summary

Client: Stantec Consulting Services Inc
Project/Site: CMI Kinder Morgan Blanco NFP

Job ID: 400-203705-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PEN
300.0	Anions, Ion Chromatography	MCAWW	TAL PEN
5030B	Purge and Trap	SW846	TAL PEN

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

Laboratory References:

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

Accreditation/Certification Summary

Client: Stantec Consulting Services Inc
Project/Site: CMI Kinder Morgan Blanco NFP

Job ID: 400-203705-1

Laboratory: Eurofins TestAmerica, Pensacola

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

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

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

Chain of Custody Record

eurofins | Environment Testing America

400-203705 COC

Client Information	Sampler: SRL, MW	Lab PM: Edwards, Marty P	Carrier Tracking No(s):	COC No: 400-102806-36541.1
Client Contact: Steve Varsa	Phone: 913 980 0281	E-Mail: Marty.Edwards@Eurofinset.com	State of Origin:	Page: Page 1 of 3
Company: Stantec Consulting Services Inc	PWSID:			Job #:
Address: 11153 Aurora Avenue	Due Date Requested:			
City: Des Moines	TAT Requested (days): STD			
State, Zip: IA, 50322-7904	Compliance Project: Δ Yes Δ No			
Phone:	PO #: See Project Notes			
Email: steve.varsa@stantec.com	WO #:			
Project Name: CMI Kinder Morgan Blanco North	Project #: 40012762			
Site: Blanco NFP	SSOW#:			

Analysis Requested

Preservation Codes:

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

Other:

W-ERH-05-06-21-SRL-16

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Y or N)	300_ORGFMS - Nitrate & Nitrite	8260B - BTEX 8260	Total Number of containers	Special Instructions/Note:
			Preservation Code:			N	A			
TB-01	5/20/2021		G	Water				2		Trip Blank
DUP-01	5/20/2021	1020	G	Water			1	3		Duplicate
DUP-02	5/20/2021	1242	G	Water			1	3		Duplicate
MW-23	5/20/2021	1045	G	Water			1	3		
MW-33	5/20/2021	1220	G	Water			2	6		MS/MSD
MW-40	5/20/2021	0752	G	Water			1	3		
MW-41	5/20/2021	0814	G	Water			1	3		
MW-42	5/20/2021	0828	G	Water			1	3		
MW-43	5/20/2021	1207	G	Water			1	3		
MW-44	5/20/2021	1142	G	Water			1	3		
MW-45	5/20/2021	1058	G	Water			1	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: 5/20/2021 1400	Company: STV	Received by: Fedex	Date/Time: 5/20/2021 1400	Company: Fedex		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 5/21/21 907	Company: STAFF		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 5-22-21 / 0845	Company: EDA		
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 0.7°C, 0.6°C (R9 5/22/21 5/21/21				

Ver: 11/01/2020

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: SRL	Lab PM: Edwards, Marty P	Carrier Tracking No(s):	COC No: 400-102806-36541.2
Client Contact: Steve Varsa	Phone: 913 9800291	E-Mail: Marty.Edwards@Eurofinset.com	State of Origin:	Page: Page 2 of 3
Company: Stantec Consulting Services Inc	PWSID:			Job #:
Address: 11153 Aurora Avenue	Due Date Requested:			
City: Des Moines	TAT Requested (days): STD			
State, Zip: IA, 50322-7904	Compliance Project: Δ Yes Δ No			
Phone:	PO #: See Project Notes			
Email: steve.varsa@stantec.com	WO #:			
Project Name: CMI Kinder Morgan Blanco North	Project #: 40012762			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

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

Other:

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	300_ORGFMS - Nitrate & Nitrite	8260B - BTEX 8260	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
MW-46	5/20/2021	0850	G	Water			1	3	4	
MW-48	5/20/2021	0920	G	Water			1	3	4	
MW-51	5/20/2021	1025	G	Water		Y	2	6	4	MSMSD
MW-52	5/20/2021	0955	G	Water			1	3	4	
MW-53	5/20/2021	0938	G	Water			1	3	4	
MW-54	5/20/2021	0900	G	Water			1	3	4	
MW-55	5/20/2021	1253	G	Water			1	3	4	
				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
1	Jon R Clay	5/20/2021 1400	STN	Fedex	5/20/2021	Fedex
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 5/21/21 907	Company STANTEC
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 5-22-21 / 0845	Company EDT

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

Ver: 11/01/2020

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc Job Number: 400-203705-1

Login Number: 203705 **List Source: Eurofins TestAmerica, Pensacola**
List Number: 1
Creator: Perez, Trina M

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.0°C IR-7
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)	False	Refer to Job Narrative for details.
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").	False	Refer to Job Narrative for details.
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

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

Laboratory Job ID: 400-211019-1
Client Project/Site: Blanco Gas Plant – North Flare Pit

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

Attn: Steve Varsa

Authorized for release by:
11/30/2021 6:38:30 PM

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

Table of Contents

Case Narrative

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Job ID: 400-211019-1

Job ID: 400-211019-1

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

Job Narrative
400-211019-1

Comments
No additional comments.

Receipt
The samples were received on 11/11/2021 8:40 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.6º C and 1.4º C.

GC/MS VOA
Method 8260B: The following samples were collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The samples were analyzed within the 7-day holding time specified for unpreserved samples: MW-23 (400-211019-12) and MW-44 (400-211019-14).

Method 8260B: The following samples were diluted to bring the concentration of target analytes within the calibration range: DUP-01 (400-211019-2), MW-48 (400-211019-9), MW-52 (400-211019-10), MW-51 (400-211019-11), MW-23 (400-211019-12), 45 (400-211019-13) and MW-44 (400-211019-14). Elevated reporting limits (RLs) are provided.

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

HPLC/IC
Method 300.0: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-40 (400-211019-3) and MW-54 (400-211019-8). Elevated reporting limits (RLs) are provided.

Method 300.0: Reanalysis of the following sample(s) was performed outside of the analytical holding time in order to bring the target analyte within calibration range. Initial, in hold data is reported as primary : MW-40 (400-211019-3) and MW-54 (400-211019-8).

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: Blanco Gas Plant – North Flare Pit

Job ID: 400-211019-1

Client Sample ID: TB-01 — Lab Sample ID: 400-211019-1

No Detections.

Client Sample ID: DUP-01 — Lab Sample ID: 400-211019-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	2.2		0.020	0.0026	mg/L	20		8260B	Total/NA
Ethylbenzene	0.022		0.020	0.010	mg/L	20		8260B	Total/NA

Client Sample ID: MW-40 — Lab Sample ID: 400-211019-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as N	46	E	0.10	0.063	mg/L	1		300.0	Total/NA
Nitrate as N	54	H	1.0	0.63	mg/L	10		300.0	Total/NA
Nitrate Nitrite as N	47	E	0.10	0.063	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	54	H	1.0	0.63	mg/L	10		300.0	Total/NA
Nitrite as N	0.55		0.10	0.083	mg/L	1		300.0	Total/NA

Client Sample ID: MW-41 — Lab Sample ID: 400-211019-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as N	6.6		0.10	0.063	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	7.0		0.10	0.063	mg/L	1		300.0	Total/NA
Nitrite as N	0.35		0.10	0.083	mg/L	1		300.0	Total/NA

Client Sample ID: MW-42 — Lab Sample ID: 400-211019-5

No Detections.

Client Sample ID: MW-55 — Lab Sample ID: 400-211019-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.0040		0.0010	0.00013	mg/L	1		8260B	Total/NA
Toluene	0.0023		0.0010	0.00041	mg/L	1		8260B	Total/NA

Client Sample ID: MW-46 — Lab Sample ID: 400-211019-7

No Detections.

Client Sample ID: MW-54 — Lab Sample ID: 400-211019-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as N	14	E	0.10	0.063	mg/L	1		300.0	Total/NA
Nitrate as N	14	H	0.20	0.13	mg/L	2		300.0	Total/NA
Nitrate Nitrite as N	14	E	0.10	0.063	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	14	H	0.20	0.13	mg/L	2		300.0	Total/NA

Client Sample ID: MW-48 — Lab Sample ID: 400-211019-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	2.2		0.010	0.0013	mg/L	10		8260B	Total/NA
Ethylbenzene	0.033		0.010	0.0050	mg/L	10		8260B	Total/NA

Client Sample ID: MW-52 — Lab Sample ID: 400-211019-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.32		0.0020	0.00026	mg/L	2		8260B	Total/NA
Toluene	0.0011	J	0.0020	0.00082	mg/L	2		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Pensacola

Detection Summary

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Job ID: 400-211019-1

Client Sample ID: MW-52 (Continued) — Lab Sample ID: 400-211019-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	0.0041		0.0020	0.0010	mg/L	2		8260B	Total/NA
Xylenes, Total	0.0058	J	0.020	0.0032	mg/L	2		8260B	Total/NA

Client Sample ID: MW-51 — Lab Sample ID: 400-211019-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.51		0.0020	0.00026	mg/L	2		8260B	Total/NA
Toluene	0.0020		0.0020	0.00082	mg/L	2		8260B	Total/NA
Ethylbenzene	0.016		0.0020	0.0010	mg/L	2		8260B	Total/NA
Xylenes, Total	0.0052	J	0.020	0.0032	mg/L	2		8260B	Total/NA

Client Sample ID: MW-23 — Lab Sample ID: 400-211019-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	7.7		0.050	0.0065	mg/L	50		8260B	Total/NA
Ethylbenzene	0.13		0.050	0.025	mg/L	50		8260B	Total/NA
Xylenes, Total	0.75		0.50	0.080	mg/L	50		8260B	Total/NA

Client Sample ID: MW-45 — Lab Sample ID: 400-211019-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.26		0.0020	0.00026	mg/L	2		8260B	Total/NA
Ethylbenzene	0.0045		0.0020	0.0010	mg/L	2		8260B	Total/NA
Xylenes, Total	0.0038	J	0.020	0.0032	mg/L	2		8260B	Total/NA
Nitrate as N	0.27		0.10	0.063	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	0.27		0.10	0.063	mg/L	1		300.0	Total/NA

Client Sample ID: MW-44 — Lab Sample ID: 400-211019-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.57		0.0050	0.00065	mg/L	5		8260B	Total/NA
Ethylbenzene	0.016		0.0050	0.0025	mg/L	5		8260B	Total/NA

Client Sample ID: MW-43 — Lab Sample ID: 400-211019-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.00044	J	0.0010	0.00013	mg/L	1		8260B	Total/NA

Client Sample ID: MW-57 — Lab Sample ID: 400-211019-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as N	4.9		0.10	0.063	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	5.6		0.10	0.063	mg/L	1		300.0	Total/NA
Nitrite as N	0.74		0.10	0.083	mg/L	1		300.0	Total/NA

Client Sample ID: MW-53 — Lab Sample ID: 400-211019-17

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Pensacola

Sample Summary

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Job ID: 400-211019-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-211019-1	TB-01	Water	11/10/21 07:00	11/11/21 08:40
400-211019-2	DUP-01	Water	11/10/21 10:50	11/11/21 08:40
400-211019-3	MW-40	Water	11/10/21 08:24	11/11/21 08:40
400-211019-4	MW-41	Water	11/10/21 08:40	11/11/21 08:40
400-211019-5	MW-42	Water	11/10/21 08:52	11/11/21 08:40
400-211019-6	MW-55	Water	11/10/21 09:06	11/11/21 08:40
400-211019-7	MW-46	Water	11/10/21 09:18	11/11/21 08:40
400-211019-8	MW-54	Water	11/10/21 09:34	11/11/21 08:40
400-211019-9	MW-48	Water	11/10/21 09:50	11/11/21 08:40
400-211019-10	MW-52	Water	11/10/21 10:08	11/11/21 08:40
400-211019-11	MW-51	Water	11/10/21 10:26	11/11/21 08:40
400-211019-12	MW-23	Water	11/10/21 10:52	11/11/21 08:40
400-211019-13	MW-45	Water	11/10/21 11:03	11/11/21 08:40
400-211019-14	MW-44	Water	11/10/21 11:18	11/11/21 08:40
400-211019-15	MW-43	Water	11/10/21 11:37	11/11/21 08:40
400-211019-16	MW-57	Water	11/10/21 11:52	11/11/21 08:40
400-211019-17	MW-53	Water	11/10/21 12:10	11/11/21 08:40

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Job ID: 400-211019-1

Client Sample ID: TB-01
Date Collected: 11/10/21 07:00
Date Received: 11/11/21 08:40

Lab Sample ID: 400-211019-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00013	U	0.0010	0.00013	mg/L			11/14/21 20:51	1
Toluene	0.00041	U	0.0010	0.00041	mg/L			11/14/21 20:51	1
Ethylbenzene	0.00050	U	0.0010	0.00050	mg/L			11/14/21 20:51	1
Xylenes, Total	0.0016	U	0.010	0.0016	mg/L			11/14/21 20:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*72 - 119*		*11/14/21 20:51*	*1*
Dibromofluoromethane	*91*		*75 - 126*		*11/14/21 20:51*	*1*
Toluene-d8 (Surr)	*100*		*64 - 132*		*11/14/21 20:51*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Job ID: 400-211019-1

Client Sample ID: DUP-01

Date Collected: 11/10/21 10:50
Date Received: 11/11/21 08:40

Lab Sample ID: 400-211019-2

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**2.2**		0.020	0.0026	mg/L			11/15/21 00:05	20
Toluene	0.0082	U	0.020	0.0082	mg/L			11/15/21 00:05	20
Ethylbenzene	**0.022**		0.020	0.010	mg/L			11/15/21 00:05	20
Xylenes, Total	0.032	U	0.20	0.032	mg/L			11/15/21 00:05	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*72 - 119*		*11/15/21 00:05*	*20*
Dibromofluoromethane	*89*		*75 - 126*		*11/15/21 00:05*	*20*
Toluene-d8 (Surr)	*100*		*64 - 132*		*11/15/21 00:05*	*20*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.063	U	0.10	0.063	mg/L			11/11/21 23:09	1
Nitrate Nitrite as N	0.063	U	0.10	0.063	mg/L			11/11/21 23:09	1
Nitrite as N	0.083	U	0.10	0.083	mg/L			11/11/21 23:09	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Job ID: 400-211019-1

Client Sample ID: MW-40

Date Collected: 11/10/21 08:24
Date Received: 11/11/21 08:40

Lab Sample ID: 400-211019-3

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00013	U	0.0010	0.00013	mg/L			11/14/21 22:04	1
Toluene	0.00041	U	0.0010	0.00041	mg/L			11/14/21 22:04	1
Ethylbenzene	0.00050	U	0.0010	0.00050	mg/L			11/14/21 22:04	1
Xylenes, Total	0.0016	U	0.010	0.0016	mg/L			11/14/21 22:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*72 - 119*		*11/14/21 22:04*	*1*
Dibromofluoromethane	*91*		*75 - 126*		*11/14/21 22:04*	*1*
Toluene-d8 (Surr)	*99*		*64 - 132*		*11/14/21 22:04*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**46**	**E**	0.10	0.063	mg/L			11/11/21 17:21	1
Nitrate as N	**54**	**H**	1.0	0.63	mg/L			11/16/21 00:56	10
Nitrate Nitrite as N	**47**	**E**	0.10	0.063	mg/L			11/11/21 17:21	1
Nitrate Nitrite as N	**54**	**H**	1.0	0.63	mg/L			11/16/21 00:56	10
Nitrite as N	**0.55**		0.10	0.083	mg/L			11/11/21 17:21	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Job ID: 400-211019-1

Client Sample ID: MW-41

Date Collected: 11/10/21 08:40
Date Received: 11/11/21 08:40

Lab Sample ID: 400-211019-4

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00013	U	0.0010	0.00013	mg/L			11/14/21 22:28	1
Toluene	0.00041	U	0.0010	0.00041	mg/L			11/14/21 22:28	1
Ethylbenzene	0.00050	U	0.0010	0.00050	mg/L			11/14/21 22:28	1
Xylenes, Total	0.0016	U	0.010	0.0016	mg/L			11/14/21 22:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*105*		*72 - 119*		*11/14/21 22:28*	*1*
Dibromofluoromethane	*89*		*75 - 126*		*11/14/21 22:28*	*1*
Toluene-d8 (Surr)	*98*		*64 - 132*		*11/14/21 22:28*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**6.6**		0.10	0.063	mg/L			11/11/21 17:46	1
Nitrate Nitrite as N	**7.0**		0.10	0.063	mg/L			11/11/21 17:46	1
Nitrite as N	**0.35**		0.10	0.083	mg/L			11/11/21 17:46	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Job ID: 400-211019-1

Client Sample ID: MW-42

Date Collected: 11/10/21 08:52
Date Received: 11/11/21 08:40

Lab Sample ID: 400-211019-5

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00013	U	0.0010	0.00013	mg/L			11/14/21 22:52	1
Toluene	0.00041	U	0.0010	0.00041	mg/L			11/14/21 22:52	1
Ethylbenzene	0.00050	U	0.0010	0.00050	mg/L			11/14/21 22:52	1
Xylenes, Total	0.0016	U	0.010	0.0016	mg/L			11/14/21 22:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*72 - 119*		*11/14/21 22:52*	*1*
Dibromofluoromethane	*92*		*75 - 126*		*11/14/21 22:52*	*1*
Toluene-d8 (Surr)	*102*		*64 - 132*		*11/14/21 22:52*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.063	U	0.10	0.063	mg/L			11/11/21 18:11	1
Nitrate Nitrite as N	0.063	U	0.10	0.063	mg/L			11/11/21 18:11	1
Nitrite as N	0.083	U	0.10	0.083	mg/L			11/11/21 18:11	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Job ID: 400-211019-1

Client Sample ID: MW-55

Date Collected: 11/10/21 09:06
Date Received: 11/11/21 08:40

Lab Sample ID: 400-211019-6

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.0040**		0.0010	0.00013	mg/L			11/14/21 23:16	1
Toluene	**0.0023**		0.0010	0.00041	mg/L			11/14/21 23:16	1
Ethylbenzene	0.00050	U	0.0010	0.00050	mg/L			11/14/21 23:16	1
Xylenes, Total	0.0016	U	0.010	0.0016	mg/L			11/14/21 23:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*103*		*72 - 119*		*11/14/21 23:16*	*1*
Dibromofluoromethane	*90*		*75 - 126*		*11/14/21 23:16*	*1*
Toluene-d8 (Surr)	*98*		*64 - 132*		*11/14/21 23:16*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.063	U	0.10	0.063	mg/L			11/11/21 18:36	1
Nitrate Nitrite as N	0.063	U	0.10	0.063	mg/L			11/11/21 18:36	1
Nitrite as N	0.083	U	0.10	0.083	mg/L			11/11/21 18:36	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Job ID: 400-211019-1

Client Sample ID: MW-46

Date Collected: 11/10/21 09:18
Date Received: 11/11/21 08:40

Lab Sample ID: 400-211019-7

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00013	U	0.0010	0.00013	mg/L			11/15/21 17:39	1
Toluene	0.00041	U	0.0010	0.00041	mg/L			11/15/21 17:39	1
Ethylbenzene	0.00050	U	0.0010	0.00050	mg/L			11/15/21 17:39	1
Xylenes, Total	0.0016	U	0.010	0.0016	mg/L			11/15/21 17:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*72 - 119*		*11/15/21 17:39*	*1*
Dibromofluoromethane	*91*		*75 - 126*		*11/15/21 17:39*	*1*
Toluene-d8 (Surr)	*100*		*64 - 132*		*11/15/21 17:39*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.063	U	0.10	0.063	mg/L			11/11/21 19:50	1
Nitrate Nitrite as N	0.063	U	0.10	0.063	mg/L			11/11/21 19:50	1
Nitrite as N	0.083	U	0.10	0.083	mg/L			11/11/21 19:50	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Job ID: 400-211019-1

Client Sample ID: MW-54

Date Collected: 11/10/21 09:34
Date Received: 11/11/21 08:40

Lab Sample ID: 400-211019-8

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00013	U	0.0010	0.00013	mg/L			11/15/21 18:03	1
Toluene	0.00041	U	0.0010	0.00041	mg/L			11/15/21 18:03	1
Ethylbenzene	0.00050	U	0.0010	0.00050	mg/L			11/15/21 18:03	1
Xylenes, Total	0.0016	U	0.010	0.0016	mg/L			11/15/21 18:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*72 - 119*		*11/15/21 18:03*	*1*
Dibromofluoromethane	*93*		*75 - 126*		*11/15/21 18:03*	*1*
Toluene-d8 (Surr)	*104*		*64 - 132*		*11/15/21 18:03*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**14**	**E**	0.10	0.063	mg/L			11/11/21 20:15	1
Nitrate as N	**14**	**H**	0.20	0.13	mg/L			11/16/21 01:45	2
Nitrate Nitrite as N	**14**	**E**	0.10	0.063	mg/L			11/11/21 20:15	1
Nitrate Nitrite as N	**14**	**H**	0.20	0.13	mg/L			11/16/21 01:45	2
Nitrite as N	0.083	U	0.10	0.083	mg/L			11/11/21 20:15	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Job ID: 400-211019-1

Client Sample ID: MW-48

Date Collected: 11/10/21 09:50
Date Received: 11/11/21 08:40

Lab Sample ID: 400-211019-9

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**2.2**		0.010	0.0013	mg/L			11/16/21 17:01	10
Toluene	0.0041	U	0.010	0.0041	mg/L			11/16/21 17:01	10
Ethylbenzene	**0.033**		0.010	0.0050	mg/L			11/16/21 17:01	10
Xylenes, Total	0.016	U	0.10	0.016	mg/L			11/16/21 17:01	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*72 - 119*		*11/16/21 17:01*	*10*
Dibromofluoromethane	*94*		*75 - 126*		*11/16/21 17:01*	*10*
Toluene-d8 (Surr)	*99*		*64 - 132*		*11/16/21 17:01*	*10*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.063	U	0.10	0.063	mg/L			11/11/21 20:40	1
Nitrate Nitrite as N	0.063	U	0.10	0.063	mg/L			11/11/21 20:40	1
Nitrite as N	0.083	U	0.10	0.083	mg/L			11/11/21 20:40	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Job ID: 400-211019-1

Client Sample ID: MW-52

Date Collected: 11/10/21 10:08
Date Received: 11/11/21 08:40

Lab Sample ID: 400-211019-10

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.32**		0.0020	0.00026	mg/L			11/16/21 16:11	2
Toluene	**0.0011**	**J**	0.0020	0.00082	mg/L			11/16/21 16:11	2
Ethylbenzene	**0.0041**		0.0020	0.0010	mg/L			11/16/21 16:11	2
Xylenes, Total	**0.0058**	**J**	0.020	0.0032	mg/L			11/16/21 16:11	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*72 - 119*		*11/16/21 16:11*	*2*
Dibromofluoromethane	*95*		*75 - 126*		*11/16/21 16:11*	*2*
Toluene-d8 (Surr)	*100*		*64 - 132*		*11/16/21 16:11*	*2*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.063	U	0.10	0.063	mg/L			11/11/21 21:54	1
Nitrate Nitrite as N	0.063	U	0.10	0.063	mg/L			11/11/21 21:54	1
Nitrite as N	0.083	U	0.10	0.083	mg/L			11/11/21 21:54	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Job ID: 400-211019-1

Client Sample ID: MW-51
Date Collected: 11/10/21 10:26
Date Received: 11/11/21 08:40

Lab Sample ID: 400-211019-11
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.51		0.0020	0.00026	mg/L			11/15/21 10:43	2
Toluene	0.0020		0.0020	0.00082	mg/L			11/15/21 10:43	2
Ethylbenzene	0.016		0.0020	0.0010	mg/L			11/15/21 10:43	2
Xylenes, Total	0.0052	J	0.020	0.0032	mg/L			11/15/21 10:43	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*72 - 119*		*11/15/21 10:43*	*2*
Dibromofluoromethane	*90*		*75 - 126*		*11/15/21 10:43*	*2*
Toluene-d8 (Surr)	*100*		*64 - 132*		*11/15/21 10:43*	*2*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.063	U	0.10	0.063	mg/L			11/11/21 22:19	1
Nitrate Nitrite as N	0.063	U	0.10	0.063	mg/L			11/11/21 22:19	1
Nitrite as N	0.083	U	0.10	0.083	mg/L			11/11/21 22:19	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Job ID: 400-211019-1

Client Sample ID: MW-23
Date Collected: 11/10/21 10:52
Date Received: 11/11/21 08:40

Lab Sample ID: 400-211019-12
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**7.7**		0.050	0.0065	mg/L			11/15/21 00:29	50
Toluene	0.021	U	0.050	0.021	mg/L			11/15/21 00:29	50
Ethylbenzene	**0.13**		0.050	0.025	mg/L			11/15/21 00:29	50
Xylenes, Total	**0.75**		0.50	0.080	mg/L			11/15/21 00:29	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*72 - 119*		*11/15/21 00:29*	*50*
Dibromofluoromethane	*91*		*75 - 126*		*11/15/21 00:29*	*50*
Toluene-d8 (Surr)	*101*		*64 - 132*		*11/15/21 00:29*	*50*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.063	U	0.10	0.063	mg/L			11/12/21 05:21	1
Nitrate Nitrite as N	0.063	U	0.10	0.063	mg/L			11/12/21 05:21	1
Nitrite as N	0.083	U	0.10	0.083	mg/L			11/12/21 05:21	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Job ID: 400-211019-1

Client Sample ID: MW-45
Date Collected: 11/10/21 11:03
Date Received: 11/11/21 08:40

Lab Sample ID: 400-211019-13
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.26**		0.0020	0.00026	mg/L			11/16/21 16:35	2
Toluene	0.00082	U	0.0020	0.00082	mg/L			11/16/21 16:35	2
Ethylbenzene	**0.0045**		0.0020	0.0010	mg/L			11/16/21 16:35	2
Xylenes, Total	**0.0038**	**J**	0.020	0.0032	mg/L			11/16/21 16:35	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*72 - 119*		*11/16/21 16:35*	*2*
Dibromofluoromethane	*97*		*75 - 126*		*11/16/21 16:35*	*2*
Toluene-d8 (Surr)	*97*		*64 - 132*		*11/16/21 16:35*	*2*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**0.27**		0.10	0.063	mg/L			11/12/21 05:46	1
Nitrate Nitrite as N	**0.27**		0.10	0.063	mg/L			11/12/21 05:46	1
Nitrite as N	0.083	U	0.10	0.083	mg/L			11/12/21 05:46	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Job ID: 400-211019-1

Client Sample ID: MW-44
Date Collected: 11/10/21 11:18
Date Received: 11/11/21 08:40

Lab Sample ID: 400-211019-14
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.57**		0.0050	0.00065	mg/L			11/14/21 23:41	5
Toluene	0.0021	U	0.0050	0.0021	mg/L			11/14/21 23:41	5
Ethylbenzene	**0.016**		0.0050	0.0025	mg/L			11/14/21 23:41	5
Xylenes, Total	0.0080	U	0.050	0.0080	mg/L			11/14/21 23:41	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*72 - 119*		*11/14/21 23:41*	*5*
Dibromofluoromethane	*90*		*75 - 126*		*11/14/21 23:41*	*5*
Toluene-d8 (Surr)	*98*		*64 - 132*		*11/14/21 23:41*	*5*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.063	U	0.10	0.063	mg/L			11/12/21 06:11	1
Nitrate Nitrite as N	0.063	U	0.10	0.063	mg/L			11/12/21 06:11	1
Nitrite as N	0.083	U	0.10	0.083	mg/L			11/12/21 06:11	1

Client Sample Results

Client: Stantec Consulting Services Inc
Job ID: 400-211019-1
Project/Site: Blanco Gas Plant – North Flare Pit

Client Sample ID: MW-43
Date Collected: 11/10/21 11:37
Date Received: 11/11/21 08:40

Lab Sample ID: 400-211019-15
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00044**	**J**	0.0010	0.00013	mg/L			11/15/21 18:28	1
Toluene	0.00041	U	0.0010	0.00041	mg/L			11/15/21 18:28	1
Ethylbenzene	0.00050	U	0.0010	0.00050	mg/L			11/15/21 18:28	1
Xylenes, Total	0.0016	U	0.010	0.0016	mg/L			11/15/21 18:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*72 - 119*		*11/15/21 18:28*	*1*
Dibromofluoromethane	*92*		*75 - 126*		*11/15/21 18:28*	*1*
Toluene-d8 (Surr)	*99*		*64 - 132*		*11/15/21 18:28*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.063	U	0.10	0.063	mg/L			11/12/21 06:36	1
Nitrate Nitrite as N	0.063	U	0.10	0.063	mg/L			11/12/21 06:36	1
Nitrite as N	0.083	U	0.10	0.083	mg/L			11/12/21 06:36	1

Client Sample Results

Client: Stantec Consulting Services Inc
Job ID: 400-211019-1
Project/Site: Blanco Gas Plant – North Flare Pit

Client Sample ID: MW-57
Lab Sample ID: 400-211019-16
Date Collected: 11/10/21 11:52
Matrix: Water
Date Received: 11/11/21 08:40

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00013	U	0.0010	0.00013	mg/L			11/15/21 18:52	1
Toluene	0.00041	U	0.0010	0.00041	mg/L			11/15/21 18:52	1
Ethylbenzene	0.00050	U	0.0010	0.00050	mg/L			11/15/21 18:52	1
Xylenes, Total	0.0016	U	0.010	0.0016	mg/L			11/15/21 18:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*72 - 119*		*11/15/21 18:52*	*1*
Dibromofluoromethane	*92*		*75 - 126*		*11/15/21 18:52*	*1*
Toluene-d8 (Surr)	*98*		*64 - 132*		*11/15/21 18:52*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**4.9**		0.10	0.063	mg/L			11/12/21 07:01	1
Nitrate Nitrite as N	**5.6**		0.10	0.063	mg/L			11/12/21 07:01	1
Nitrite as N	**0.74**		0.10	0.083	mg/L			11/12/21 07:01	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Job ID: 400-211019-1

Client Sample ID: MW-53
Date Collected: 11/10/21 12:10
Date Received: 11/11/21 08:40

Lab Sample ID: 400-211019-17
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00013	U	0.0010	0.00013	mg/L			11/15/21 19:16	1
Toluene	0.00041	U	0.0010	0.00041	mg/L			11/15/21 19:16	1
Ethylbenzene	0.00050	U	0.0010	0.00050	mg/L			11/15/21 19:16	1
Xylenes, Total	0.0016	U	0.010	0.0016	mg/L			11/15/21 19:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*72 - 119*		*11/15/21 19:16*	*1*
Dibromofluoromethane	*92*		*75 - 126*		*11/15/21 19:16*	*1*
Toluene-d8 (Surr)	*102*		*64 - 132*		*11/15/21 19:16*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.063	U	0.10	0.063	mg/L			11/12/21 07:25	1
Nitrate Nitrite as N	0.063	U	0.10	0.063	mg/L			11/12/21 07:25	1
Nitrite as N	0.083	U	0.10	0.083	mg/L			11/12/21 07:25	1

Definitions/Glossary

Client: Stantec Consulting Services Inc Job ID: 400-211019-1
Project/Site: Blanco Gas Plant – North Flare Pit

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
E	Result exceeded calibration range.
H	Sample was prepped or analyzed beyond the specified holding time
U	Indicates the analyte was analyzed for but not detected.

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

Surrogate Summary

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Job ID: 400-211019-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(72-119)	(75-126)	(64-132)
400-210789-A-10 MS	Matrix Spike	103	95	104
400-210789-A-10 MSD	Matrix Spike Duplicate	102	88	102
400-211015-A-11 MS	Matrix Spike	98	103	93
400-211015-A-11 MSD	Matrix Spike Duplicate	96	99	97
400-211019-1	TB-01	100	91	100
400-211019-2	DUP-01	96	89	100
400-211019-3	MW-40	99	91	99
400-211019-4	MW-41	105	89	98
400-211019-5	MW-42	98	92	102
400-211019-6	MW-55	103	90	98
400-211019-7	MW-46	101	91	100
400-211019-8	MW-54	101	93	104
400-211019-9	MW-48	97	94	99
400-211019-10	MW-52	99	95	100
400-211019-11	MW-51	101	90	100
400-211019-11 MS	MW-51	97	89	102
400-211019-11 MSD	MW-51	103	91	99
400-211019-12	MW-23	101	91	101
400-211019-13	MW-45	97	97	97
400-211019-14	MW-44	102	90	98
400-211019-15	MW-43	101	92	99
400-211019-16	MW-57	98	92	98
400-211019-17	MW-53	97	92	102
LCS 400-555827/1002	Lab Control Sample	98	91	103
LCS 400-555868/1002	Lab Control Sample	102	90	102
LCS 400-556002/1002	Lab Control Sample	96	100	95
MB 400-555827/4	Method Blank	100	91	96
MB 400-555868/4	Method Blank	100	89	100
MB 400-556002/4	Method Blank	98	99	96

Surrogate Legend

BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

QC Association Summary

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Job ID: 400-211019-1

GC/MS VOA

Analysis Batch: 555827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-211019-1	TB-01	Total/NA	Water	8260B	
400-211019-2	DUP-01	Total/NA	Water	8260B	
400-211019-3	MW-40	Total/NA	Water	8260B	
400-211019-4	MW-41	Total/NA	Water	8260B	
400-211019-5	MW-42	Total/NA	Water	8260B	
400-211019-6	MW-55	Total/NA	Water	8260B	
400-211019-12	MW-23	Total/NA	Water	8260B	
400-211019-14	MW-44	Total/NA	Water	8260B	
MB 400-555827/4	Method Blank	Total/NA	Water	8260B	
LCS 400-555827/1002	Lab Control Sample	Total/NA	Water	8260B	

Analysis Batch: 555868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-211019-7	MW-46	Total/NA	Water	8260B	
400-211019-8	MW-54	Total/NA	Water	8260B	
400-211019-11	MW-51	Total/NA	Water	8260B	
400-211019-15	MW-43	Total/NA	Water	8260B	
400-211019-16	MW-57	Total/NA	Water	8260B	
400-211019-17	MW-53	Total/NA	Water	8260B	
MB 400-555868/4	Method Blank	Total/NA	Water	8260B	
LCS 400-555868/1002	Lab Control Sample	Total/NA	Water	8260B	
400-211019-11 MS	MW-51	Total/NA	Water	8260B	
400-211019-11 MSD	MW-51	Total/NA	Water	8260B	

Analysis Batch: 556002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-211019-9	MW-48	Total/NA	Water	8260B	
400-211019-10	MW-52	Total/NA	Water	8260B	
400-211019-13	MW-45	Total/NA	Water	8260B	
MB 400-556002/4	Method Blank	Total/NA	Water	8260B	
LCS 400-556002/1002	Lab Control Sample	Total/NA	Water	8260B	

HPLC/IC

Analysis Batch: 555556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-211019-2	DUP-01	Total/NA	Water	300.0	
400-211019-3	MW-40	Total/NA	Water	300.0	
400-211019-4	MW-41	Total/NA	Water	300.0	
400-211019-5	MW-42	Total/NA	Water	300.0	
400-211019-6	MW-55	Total/NA	Water	300.0	
400-211019-7	MW-46	Total/NA	Water	300.0	
400-211019-8	MW-54	Total/NA	Water	300.0	
400-211019-9	MW-48	Total/NA	Water	300.0	
400-211019-10	MW-52	Total/NA	Water	300.0	
400-211019-11	MW-51	Total/NA	Water	300.0	
400-211019-12	MW-23	Total/NA	Water	300.0	
400-211019-13	MW-45	Total/NA	Water	300.0	
400-211019-14	MW-44	Total/NA	Water	300.0	
400-211019-15	MW-43	Total/NA	Water	300.0	
400-211019-16	MW-57	Total/NA	Water	300.0	

QC Association Summary

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Job ID: 400-211019-1

HPLC/IC (Continued)

Analysis Batch: 555556 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-211019-17	MW-53	Total/NA	Water	300.0	
MB 400-555556/6	Method Blank	Total/NA	Water	300.0	
LCS 400-555556/117	Lab Control Sample	Total/NA	Water	300.0	
LCS 400-555556/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 400-555556/118	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 400-555556/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 400-555556/123	Lab Control Sample	Total/NA	Water	300.0	
MRL 400-555556/7	Lab Control Sample	Total/NA	Water	300.0	
400-211019-11 MS	MW-51	Total/NA	Water	300.0	
400-211019-11 MSD	MW-51	Total/NA	Water	300.0	
400-211019-17 MS	MW-53	Total/NA	Water	300.0	
400-211019-17 MSD	MW-53	Total/NA	Water	300.0	

Analysis Batch: 555989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-211019-3	MW-40	Total/NA	Water	300.0	
400-211019-8	MW-54	Total/NA	Water	300.0	

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Job ID: 400-211019-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-555827/4
Matrix: Water
Analysis Batch: 555827

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00013	U	0.0010	0.00013	mg/L			11/14/21 15:12	1
Toluene	0.00041	U	0.0010	0.00041	mg/L			11/14/21 15:12	1
Ethylbenzene	0.00050	U	0.0010	0.00050	mg/L			11/14/21 15:12	1
Xylenes, Total	0.0016	U	0.010	0.0016	mg/L			11/14/21 15:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*72 - 119*		*11/14/21 15:12*	*1*
Dibromofluoromethane	*91*		*75 - 126*		*11/14/21 15:12*	*1*
Toluene-d8 (Surr)	*96*		*64 - 132*		*11/14/21 15:12*	*1*

Lab Sample ID: LCS 400-555827/1002
Matrix: Water
Analysis Batch: 555827

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.0502		mg/L		100	70 - 130
Toluene	0.0500	0.0567		mg/L		113	70 - 130
Ethylbenzene	0.0500	0.0565		mg/L		113	70 - 130
Xylenes, Total	0.100	0.109		mg/L		109	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*98*		*72 - 119*
Dibromofluoromethane	*91*		*75 - 126*
Toluene-d8 (Surr)	*103*		*64 - 132*

Lab Sample ID: MB 400-555868/4
Matrix: Water
Analysis Batch: 555868

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00013	U	0.0010	0.00013	mg/L			11/15/21 10:19	1
Toluene	0.00041	U	0.0010	0.00041	mg/L			11/15/21 10:19	1
Ethylbenzene	0.00050	U	0.0010	0.00050	mg/L			11/15/21 10:19	1
Xylenes, Total	0.0016	U	0.010	0.0016	mg/L			11/15/21 10:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*72 - 119*		*11/15/21 10:19*	*1*
Dibromofluoromethane	*89*		*75 - 126*		*11/15/21 10:19*	*1*
Toluene-d8 (Surr)	*100*		*64 - 132*		*11/15/21 10:19*	*1*

Lab Sample ID: LCS 400-555868/1002
Matrix: Water
Analysis Batch: 555868

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.0442		mg/L		88	70 - 130
Toluene	0.0500	0.0507		mg/L		101	70 - 130
Ethylbenzene	0.0500	0.0497		mg/L		99	70 - 130

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Job ID: 400-211019-1

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

Lab Sample ID: LCS 400-555868/1002
Matrix: Water
Analysis Batch: 555868

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Xylenes, Total			0.100	0.0962		mg/L		96	70 - 130		

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

Lab Sample ID: 400-211019-11 MS
Matrix: Water
Analysis Batch: 555868

Client Sample ID: MW-51
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	0.51		0.100	0.577	4	mg/L		66	56 - 142		
Toluene	0.0020		0.100	0.0936		mg/L		92	65 - 130		
Ethylbenzene	0.016		0.100	0.101		mg/L		85	58 - 131		
Xylenes, Total	0.0052	J	0.200	0.167		mg/L		81	59 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*97*		*72 - 119*
Dibromofluoromethane	*89*		*75 - 126*
Toluene-d8 (Surr)	*102*		*64 - 132*

Lab Sample ID: 400-211019-11 MSD
Matrix: Water
Analysis Batch: 555868

Client Sample ID: MW-51
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.51		0.100	0.584	4	mg/L		73	56 - 142	1	30
Toluene	0.0020		0.100	0.0981		mg/L		96	65 - 130	5	30
Ethylbenzene	0.016		0.100	0.105		mg/L		90	58 - 131	4	30
Xylenes, Total	0.0052	J	0.200	0.179		mg/L		87	59 - 130	7	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*103*		*72 - 119*
Dibromofluoromethane	*91*		*75 - 126*
Toluene-d8 (Surr)	*99*		*64 - 132*

Lab Sample ID: MB 400-556002/4
Matrix: Water
Analysis Batch: 556002

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00013	U	0.0010	0.00013	mg/L			11/16/21 09:49	1
Toluene	0.00041	U	0.0010	0.00041	mg/L			11/16/21 09:49	1
Ethylbenzene	0.00050	U	0.0010	0.00050	mg/L			11/16/21 09:49	1
Xylenes, Total	0.0016	U	0.010	0.0016	mg/L			11/16/21 09:49	1

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Job ID: 400-211019-1

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

Lab Sample ID: MB 400-556002/4
Matrix: Water
Analysis Batch: 556002

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	98		72 - 119		11/16/21 09:49	1
Dibromofluoromethane	99		75 - 126		11/16/21 09:49	1
Toluene-d8 (Surr)	96		64 - 132		11/16/21 09:49	1

Lab Sample ID: LCS 400-556002/1002
Matrix: Water
Analysis Batch: 556002

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.0517		mg/L		103	70 - 130
Toluene	0.0500	0.0471		mg/L		94	70 - 130
Ethylbenzene	0.0500	0.0501		mg/L		100	70 - 130
Xylenes, Total	0.100	0.101		mg/L		101	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	96		72 - 119
Dibromofluoromethane	100		75 - 126
Toluene-d8 (Surr)	95		64 - 132

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 400-555556/6
Matrix: Water
Analysis Batch: 555556

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.063	U	0.10	0.063	mg/L			11/12/21 03:42	1
Nitrate Nitrite as N	0.063	U	0.10	0.063	mg/L			11/12/21 03:42	1
Nitrite as N	0.083	U	0.10	0.083	mg/L			11/12/21 03:42	1

Lab Sample ID: LCS 400-555556/117
Matrix: Water
Analysis Batch: 555556

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	2.26	2.18		mg/L		97	90 - 110
Nitrate Nitrite as N	5.30	5.26		mg/L		99	90 - 110
Nitrite as N	3.04	3.08		mg/L		101	90 - 110

Lab Sample ID: LCS 400-555556/4
Matrix: Water
Analysis Batch: 555556

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	2.26	2.09		mg/L		93	90 - 110
Nitrate Nitrite as N	5.30	5.12		mg/L		97	90 - 110
Nitrite as N	3.04	3.03		mg/L		100	90 - 110

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Job ID: 400-211019-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 400-555556/118
Matrix: Water
Analysis Batch: 555556

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	2.26	2.20		mg/L		97	90 - 110	1	15
Nitrate Nitrite as N	5.30	5.29		mg/L		100	90 - 110	1	15
Nitrite as N	3.04	3.09		mg/L		102	90 - 110	0	15

Lab Sample ID: LCSD 400-555556/5
Matrix: Water
Analysis Batch: 555556

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	2.26	2.20		mg/L		97	90 - 110	5	15
Nitrate Nitrite as N	5.30	5.30		mg/L		100	90 - 110	3	15
Nitrite as N	3.04	3.10		mg/L		102	90 - 110	2	15

Lab Sample ID: MRL 400-555556/123
Matrix: Water
Analysis Batch: 555556

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	0.226	0.180		mg/L		80	50 - 150
Nitrate Nitrite as N	0.530	0.434		mg/L		82	50 - 150
Nitrite as N	0.304	0.254		mg/L		83	50 - 150

Lab Sample ID: MRL 400-555556/7
Matrix: Water
Analysis Batch: 555556

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	0.226	0.218		mg/L		97	50 - 150
Nitrate Nitrite as N	0.530	0.474		mg/L		89	50 - 150
Nitrite as N	0.304	0.256		mg/L		84	50 - 150

Lab Sample ID: 400-211019-11 MS
Matrix: Water
Analysis Batch: 555556

Client Sample ID: MW-51
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	0.063	U	2.26	2.18		mg/L		96	80 - 120
Nitrate Nitrite as N	0.063	U	5.30	5.55		mg/L		105	80 - 120
Nitrite as N	0.083	U	3.04	3.37		mg/L		111	80 - 120

Lab Sample ID: 400-211019-11 MSD
Matrix: Water
Analysis Batch: 555556

Client Sample ID: MW-51
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	0.063	U	2.26	2.16		mg/L		96	80 - 120	1	20
Nitrate Nitrite as N	0.063	U	5.30	5.67		mg/L		107	80 - 120	2	20
Nitrite as N	0.083	U	3.04	3.51		mg/L		115	80 - 120	4	20

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Job ID: 400-211019-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 400-211019-17 MS
Matrix: Water
Analysis Batch: 555556

Client Sample ID: MW-53
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrate as N	0.063	U	2.26	2.19		mg/L		97	80 - 120		
Nitrate Nitrite as N	0.063	U	5.30	5.34		mg/L		101	80 - 120		
Nitrite as N	0.083	U	3.04	3.15		mg/L		104	80 - 120		

Lab Sample ID: 400-211019-17 MSD
Matrix: Water
Analysis Batch: 555556

Client Sample ID: MW-53
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	0.063	U	2.26	2.20		mg/L		98	80 - 120	0	20
Nitrate Nitrite as N	0.063	U	5.30	5.39		mg/L		102	80 - 120	1	20
Nitrite as N	0.083	U	3.04	3.19		mg/L		105	80 - 120	1	20

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Job ID: 400-211019-1

Client Sample ID: TB-01
Date Collected: 11/10/21 07:00
Date Received: 11/11/21 08:40

Lab Sample ID: 400-211019-1
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	8260B		1	5 mL	5 mL	555827	11/14/21 20:51	HML	TAL PEN

Client Sample ID: DUP-01
Date Collected: 11/10/21 10:50
Date Received: 11/11/21 08:40

Lab Sample ID: 400-211019-2
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	8260B		20	5 mL	5 mL	555827	11/15/21 00:05	HML	TAL PEN
Total/NA	Analysis	300.0		1			555556	11/11/21 23:09	KIS	TAL PEN

Client Sample ID: MW-40
Date Collected: 11/10/21 08:24
Date Received: 11/11/21 08:40

Lab Sample ID: 400-211019-3
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	8260B		1	5 mL	5 mL	555827	11/14/21 22:04	HML	TAL PEN
Total/NA	Analysis	300.0		1			555556	11/11/21 17:21	KIS	TAL PEN
Total/NA	Analysis	300.0		10			555989	11/16/21 00:56	KIS	TAL PEN

Client Sample ID: MW-41
Date Collected: 11/10/21 08:40
Date Received: 11/11/21 08:40

Lab Sample ID: 400-211019-4
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	8260B		1	5 mL	5 mL	555827	11/14/21 22:28	HML	TAL PEN
Total/NA	Analysis	300.0		1			555556	11/11/21 17:46	KIS	TAL PEN

Client Sample ID: MW-42
Date Collected: 11/10/21 08:52
Date Received: 11/11/21 08:40

Lab Sample ID: 400-211019-5
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	8260B		1	5 mL	5 mL	555827	11/14/21 22:52	HML	TAL PEN
Total/NA	Analysis	300.0		1			555556	11/11/21 18:11	KIS	TAL PEN

Client Sample ID: MW-55
Date Collected: 11/10/21 09:06
Date Received: 11/11/21 08:40

Lab Sample ID: 400-211019-6
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	8260B		1	5 mL	5 mL	555827	11/14/21 23:16	HML	TAL PEN
Total/NA	Analysis	300.0		1			555556	11/11/21 18:36	KIS	TAL PEN

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Job ID: 400-211019-1

Client Sample ID: MW-46
Date Collected: 11/10/21 09:18
Date Received: 11/11/21 08:40

Lab Sample ID: 400-211019-7
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	8260B		1	5 mL	5 mL	555868	11/15/21 17:39	EEH	TAL PEN
Total/NA	Analysis	300.0		1			555556	11/11/21 19:50	KIS	TAL PEN

Client Sample ID: MW-54
Date Collected: 11/10/21 09:34
Date Received: 11/11/21 08:40

Lab Sample ID: 400-211019-8
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	8260B		1	5 mL	5 mL	555868	11/15/21 18:03	EEH	TAL PEN
Total/NA	Analysis	300.0		1			555556	11/11/21 20:15	KIS	TAL PEN
Total/NA	Analysis	300.0		2			555989	11/16/21 01:45	KIS	TAL PEN

Client Sample ID: MW-48
Date Collected: 11/10/21 09:50
Date Received: 11/11/21 08:40

Lab Sample ID: 400-211019-9
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	8260B		10	5 mL	5 mL	556002	11/16/21 17:01	WPD	TAL PEN
Total/NA	Analysis	300.0		1			555556	11/11/21 20:40	KIS	TAL PEN

Client Sample ID: MW-52
Date Collected: 11/10/21 10:08
Date Received: 11/11/21 08:40

Lab Sample ID: 400-211019-10
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	8260B		2	5 mL	5 mL	556002	11/16/21 16:11	WPD	TAL PEN
Total/NA	Analysis	300.0		1			555556	11/11/21 21:54	KIS	TAL PEN

Client Sample ID: MW-51
Date Collected: 11/10/21 10:26
Date Received: 11/11/21 08:40

Lab Sample ID: 400-211019-11
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	8260B		2	5 mL	5 mL	555868	11/15/21 10:43	EEH	TAL PEN
Total/NA	Analysis	300.0		1			555556	11/11/21 22:19	KIS	TAL PEN

Client Sample ID: MW-23
Date Collected: 11/10/21 10:52
Date Received: 11/11/21 08:40

Lab Sample ID: 400-211019-12
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	8260B		50	5 mL	5 mL	555827	11/15/21 00:29	HML	TAL PEN
Total/NA	Analysis	300.0		1			555556	11/12/21 05:21	KIS	TAL PEN

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Job ID: 400-211019-1

Client Sample ID: MW-45
Date Collected: 11/10/21 11:03
Date Received: 11/11/21 08:40

Lab Sample ID: 400-211019-13
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	8260B		2	5 mL	5 mL	556002	11/16/21 16:35	WPD	TAL PEN
Total/NA	Analysis	300.0		1			555556	11/12/21 05:46	KIS	TAL PEN

Client Sample ID: MW-44
Date Collected: 11/10/21 11:18
Date Received: 11/11/21 08:40

Lab Sample ID: 400-211019-14
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	8260B		5	5 mL	5 mL	555827	11/14/21 23:41	HML	TAL PEN
Total/NA	Analysis	300.0		1			555556	11/12/21 06:11	KIS	TAL PEN

Client Sample ID: MW-43
Date Collected: 11/10/21 11:37
Date Received: 11/11/21 08:40

Lab Sample ID: 400-211019-15
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	8260B		1	5 mL	5 mL	555868	11/15/21 18:28	EEH	TAL PEN
Total/NA	Analysis	300.0		1			555556	11/12/21 06:36	KIS	TAL PEN

Client Sample ID: MW-57
Date Collected: 11/10/21 11:52
Date Received: 11/11/21 08:40

Lab Sample ID: 400-211019-16
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	8260B		1	5 mL	5 mL	555868	11/15/21 18:52	EEH	TAL PEN
Total/NA	Analysis	300.0		1			555556	11/12/21 07:01	KIS	TAL PEN

Client Sample ID: MW-53
Date Collected: 11/10/21 12:10
Date Received: 11/11/21 08:40

Lab Sample ID: 400-211019-17
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	8260B		1	5 mL	5 mL	555868	11/15/21 19:16	EEH	TAL PEN
Total/NA	Analysis	300.0		1			555556	11/12/21 07:25	KIS	TAL PEN

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

Lab Sample ID: MB 400-555556/6
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	300.0		1			555556	11/12/21 03:42	KIS	TAL PEN

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Job ID: 400-211019-1

Client Sample ID: Method Blank — Lab Sample ID: MB 400-555827/4

Date Collected: N/A
Date Received: N/A
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	8260B		1	5 mL	5 mL	555827	11/14/21 15:12	HML	TAL PEN

Client Sample ID: Method Blank — Lab Sample ID: MB 400-555868/4

Date Collected: N/A
Date Received: N/A
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	8260B		1	5 mL	5 mL	555868	11/15/21 10:19	EEH	TAL PEN

Client Sample ID: Method Blank — Lab Sample ID: MB 400-556002/4

Date Collected: N/A
Date Received: N/A
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	8260B		1	5 mL	5 mL	556002	11/16/21 09:49	WPD	TAL PEN

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 400-555556/117

Date Collected: N/A
Date Received: N/A
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	300.0		1			555556	11/12/21 08:40	KIS	TAL PEN

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 400-555556/4

Date Collected: N/A
Date Received: N/A
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	300.0		1			555556	11/12/21 02:52	KIS	TAL PEN

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 400-555827/1002

Date Collected: N/A
Date Received: N/A
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	8260B		1	5 mL	5 mL	555827	11/14/21 14:07	HML	TAL PEN

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 400-555868/1002

Date Collected: N/A
Date Received: N/A
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	8260B		1	5 mL	5 mL	555868	11/15/21 09:19	EEH	TAL PEN

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Job ID: 400-211019-1

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

Lab Sample ID: LCS 400-556002/1002
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	556002	11/16/21 08:47	WPD	TAL PEN

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

Lab Sample ID: LCSD 400-555556/118
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	300.0		1			555556	11/12/21 09:05	KIS	TAL PEN

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

Lab Sample ID: LCSD 400-555556/5
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	300.0		1			555556	11/12/21 03:17	KIS	TAL PEN

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

Lab Sample ID: MRL 400-555556/123
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	300.0		1			555556	11/12/21 10:44	KIS	TAL PEN

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

Lab Sample ID: MRL 400-555556/7
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	300.0		1			555556	11/12/21 04:07	KIS	TAL PEN

Client Sample ID: MW-51
Date Collected: 11/10/21 10:26
Date Received: 11/11/21 08:40

Lab Sample ID: 400-211019-11 MS
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	8260B		2	5 mL	5 mL	555868	11/15/21 11:07	EEH	TAL PEN
Total/NA	Analysis	300.0		1			555556	11/12/21 00:48	KIS	TAL PEN

Client Sample ID: MW-51
Date Collected: 11/10/21 10:26
Date Received: 11/11/21 08:40

Lab Sample ID: 400-211019-11 MSD
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	8260B		2	5 mL	5 mL	555868	11/15/21 11:31	EEH	TAL PEN
Total/NA	Analysis	300.0		1			555556	11/12/21 01:13	KIS	TAL PEN

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Job ID: 400-211019-1

Client Sample ID: MW-53
Date Collected: 11/10/21 12:10
Date Received: 11/11/21 08:40

Lab Sample ID: 400-211019-17 MS
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	300.0		1			555556	11/12/21 07:50	KIS	TAL PEN

Client Sample ID: MW-53
Date Collected: 11/10/21 12:10
Date Received: 11/11/21 08:40

Lab Sample ID: 400-211019-17 MSD
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	300.0		1			555556	11/12/21 08:15	KIS	TAL PEN

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

Method Summary

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant – North Flare Pit

Job ID: 400-211019-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PEN
300.0	Anions, Ion Chromatography	MCAWW	TAL PEN
5030B	Purge and Trap	SW846	TAL PEN

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Accreditation/Certification Summary

Client: Stantec Consulting Services Inc Job ID: 400-211019-1
Project/Site: Blanco Gas Plant – North Flare Pit

Laboratory: Eurofins TestAmerica, Pensacola

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

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

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: SRC	Lab PM: Edwards, Marty P	Carrier Tracking No(s):	COC No: 400-105808-37683.1
Client Contact: Steve Varsa	Phone: 913 980 0291	E-Mail: Marty.Edwards@Eurofinset.com	State of Origin:	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):			
State, Zip: IA, 50322-7904	Compliance Project: Δ Yes Δ No			
Phone:	PO #: WD801905			
Email: steve.varsa@stantec.com	WO #:			
Project Name: CMI Kinder Morgan Blanco North	Project #: 40012762			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

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

Other:

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	300_ORGFMS - Nitrate & Nitrite	8260B - BTEX 8260	8260B - BTEX 8260	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	A	N		
TB-01	11/10/21	0700	G	Water	N	N		2		2	Trip Blank
DUP-01	11/10/21	1050	G	Water	N	N	1	3		4	Blind Dup
MW-40	11/10/21	0824	G	Water	N	N	1	3		4	
MW-41	11/10/21	0840	G	Water	N	N	1	3		4	
MW-42	11/10/21	0852	G	Water	N	N	1	3		4	
MW-55	11/10/21	0906	G	Water	N	N	1	3		4	
MW-46	11/10/21	0918	G	Water	N	N	1	3		4	
MW-54	11/10/21	0934	G	Water	N	N	1	3		4	
MW-48	11/10/21	0950	G	Water	N	N	1	3		4	
MW-52	11/10/21	1008	G	Water	N	N	1	3		4	
MW-51	11/10/21	1026	G	Water	N	Y	3	9		12	msmsd

400-211019 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: 11/10/21 1310	Company STN	Received by:
Relinquished by:	Date/Time:	Company	Received by:
Relinquished by:	Date/Time:	Company	Received by:

Date/Time:	Company
11.11.21	

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

Cooler Temperature(s) °C and Other Remarks: 1.4°C 0.5°C IR9 08:40

Ver: 06/08/2021

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: SRE	Lab PM: Edwards, Marty P	Carrier Tracking No(s):	COC No: 400-105808-37683.2
Client Contact: Steve Varsa	Phone: 913-980-0281	E-Mail: Marty.Edwards@Eurofinset.com	State of Origin:	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):			
State, Zip: IA, 50322-7904	Compliance Project: Δ Yes Δ No			
Phone:	PO #: WD801905			
Email: steve.varsa@stantec.com	WO #:			
Project Name: CMI Kinder Morgan Blanco North	Project #: 40012762			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

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

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD	300_ORGFMS - Nitrate & Nitrite	8260B - BTEX 8260	8260B - BTEX 8260	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	A	N		
MW-23	11/10/21	1052	G	Water	N	N	1	3		4	
MW-45	11/10/21	1103	G	Water	N	N	1	3		4	
MW-44	11/10/21	1118	G	Water	N	N	1	3		4	
MW-43	11/10/21	1137	G	Water	N	N	1	3		4	
MW-57	11/10/21	1152	G	Water	N	N	1	3		4	
MW-53	11/10/21	1210	G	Water	N	N	1	3		4	
				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: 11/10/21 1310	Company STN	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 11.11.21 08:40	Company

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

Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc Job Number: 400-211019-1

Login Number: 211019 **List Source: Eurofins TestAmerica, Pensacola**
List Number: 1
Creator: Whitley, Adrian

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.4, 0.6°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	

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

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

CONDITIONS

Operator:	OGRID:
El Paso Natural Gas Company, L.L.C 1001 Louisiana Street Houston, TX 77002	7046
	Action Number: 94607
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Review of 2021 annual report: Content satisfactory 1. Continue bi-annual groundwater monitoring in 2022. 2. Continue collection of groundwater samples from monitoring wells not containing LNAPL. 3. If encountered, LNAPL to be hand-bailed, and recovered fluids properly disposed & documented. 4. The groundwater samples will be submitted for laboratory analysis of BTEX constituents using EPA Method 8260 and nitrate using EPA Method 300.0. 5. Continue monitoring for LNAPL from MW-32, MW-47, MP-1, and TW-2 on a quarterly basis in 2022. 6. Complete further delineation or assessment of hydrocarbons in the vicinity of the former EPNG evaporation pond. 7. Submit 2022 Annual Report summarizing activities completed and their results no later than March 31, 2023.	10/26/2022