NV

From: Wiley, Joe
To: Smith, Cory, EMNRD
Cc: Powell, Brandon, EMNRD; Griswold, Jim, EMNRD; "Varsa, Steve (steve.varsa@stantec.com)"
Subject: No Further Action Request for 3RP-194-0 - Jaquez Com C#1 and E#1
Date: Wednesday, December 18, 2019 4:23:19 PM
Attachments: 2019-12_Jaquez_2019_NFA_Request_(3RP-194).pdf

Cory,

El Paso CGP Company (EPCGP) has prepared the attached No Further Action Request for the Jaquez Com C#1 and E#1 site (3RP-194-0). Information summarized in the report includes soil and groundwater results for the area north of the 2011 excavation, which had been outlined as an area of concern in NMOCD's January 9, 2018 letter. Unfortunately, EPCGP was denied access to the Jaquez property to install a replacement monitoring well in the former location of MW-8 as requested by NMOCD. Despite prior notification of EPCGP's scheduled September 9, 2019 arrival to perform the work (email notification of the work on 8/20/19 and email transmittal of the Work Plan on 8/23/19), and despite a telephone conversation between myself and Mr. Jaquez on August 27, 2019, upon our arrival at the property on September 9th, Mr. Jaquez claimed he had no knowledge of our planned activities and denied access to the property. Mr. Jaquez' behavior was such that EPCGP no longer believes the property to be a safe work environment for personnel or contractors.

If you recall, I came to your office and notified you of the situation on September 9th after I had left the site.

Based on the results of investigation activities on the McCarty property north of the 2011 excavation (no detectable concentrations or concentrations below NMOCD limits), the very low benzene concentrations reported at well MW-8 prior to the 2016 excavation, the anticipated beneficial effect of the 2016 excavation, and the denial of access to the Jaquez property to confirm groundwater concentrations at the former MW-8 location, EPCGP respectfully requests that NMOCD grant a No Further Action determination for NMOCD Order # 3RP-194-0.

If you have any questions regarding this request for No Further Action, please do not hesitate to contact me.

Respectfully,

Joseph (Joe) Wiley, P.G.
Project Manager - Pipeline Remediation
Kinder Morgan, Inc.
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Houston, TX 77002
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NO FURTHER ACTION REQUEST
JAQUEZ Com C#1 AND E#1

SAN JUAN COUNTY, NEW MEXICO
NMOCD ORDER # 3RP-194-0

Prepared for:
El Paso CGP Company, LLC
1001 Louisiana Street
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Prepared by:

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December 2019
Stantec Project No.: 193707288

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1.0 INTRODUCTION

This No Further Action Request has been prepared by Stantec Consulting Services Inc. (Stantec) on behalf of El Paso CGP Company, LLC (EPCGP) for submittal to the New Mexico Oil Conservation Division (NMOCD) to document soil and groundwater sampling activities performed in 2019 associated with the Jaquez Com C#1 and E#1 Site in New Mexico (Site). Unless otherwise indicated, the soil and groundwater sampling activities were completed in accordance to the Monitoring Well Installation Work Plan dated August 23, 2019 (Work Plan). Based on the outcome and results obtained from the implementation of the Work Plan, and previous investigation and remediation activities conducted at the Site, EPCGP requests an NMOCD determination of No Further Action (NFA) for NMOCD Order # 3RP-194-0.

An overview of the release history at the Site, including previously completed assessment and remedial activities is presented in a Remedial Action Summary Report dated October 13, 2014. Additional assessment data was collected in 2015 and documented in an Assessment Report submitted in January 2016. Additional corrective action and sampling activities were conducted in 2016, as documented in the 2016 Annual Report submitted to the NMOCD in March 2017. Soil and groundwater data provided in this Report is to supplement data contained in the previously-submitted reports in support of the NFA request.

2.0 2019 SOIL AND GROUNDWATER SAMPLING ACTIVITIES

This section summarizes the soil boring, soil sampling, monitoring well installation, and groundwater sampling activities performed at the Site in 2019. The Site consists of parcels controlled by two entities: the Jaquez property, controlled by Mr. John Jaquez and family, and the McCarty Property, controlled by Ms. Glenda McCarty. EPCGP has access agreements in place to complete work on both properties.

A work plan summarizing the proposed locations and rationale of the 2019 sampling locations was submitted via electronic mail (e-mail) to the NMOCD on August 23, 2019. The NMOCD was also notified of the proposed start date of the activities in the subject e-mail, included for reference as Attachment A. The Jaquez and McCarty property owners were also notified of the upcoming work and were provided a copy of the Work Plan on August 23, 2019 via email, for review and comment. No comments were received by either party prior to beginning sampling activities.

2.1 SOIL BORING AND SAMPLING ACTIVITIES

Prior to completing the soil sampling activities, Stantec retained the services of Souder Miller and Associates (SMA) to flag the proposed soil boring and monitoring well locations on August 27, 2019. The soil boring and monitoring well installation activities were completed by Cascade Drilling (Cascade). Prior to initiating the sampling activities, Cascade completed a utility locate notification with New Mexico One Call, Inc. to mark the locations of member utilities in and near the work area. Permit SJ-4165 was modified by the New Mexico Office of the State Engineer on August 12, 2019, to include the proposed monitoring wells.

Soil boring and monitoring well installation activities were completed from September 5 through 9, 2019. During completion of these activities, the following deviations from the Work Plan were made:

- Although hydrocarbon impacts were not noted during advancement of the soil borings along the southern edge of the McCarty property, contingency soil boring SB-79 was advanced at the request of EPGCP. Pursuant to the Work Plan, contingency soil boring SB-81 was not advanced.

- As field-apparent groundwater was encountered at depths ranging from 11 to 14 feet bgs, the soil borings, with the exception of soil boring SB-78, were advanced to depths shallower than the anticipated depth 35 feet bgs as outlined in the Work Plan.

- Multiple soil samples were retained for laboratory analysis during advancement of MW-13, MW-14, SB-79 and SB-80 to confirm the absence of detectable petroleum concentrations in saturated zone soils. During the 2010-2011 soil excavation completed at the Jaquez site, discolored soils were described as being left-in-place along the north wall of the excavation with two soil samples, collected along the side wall at or below the field-apparent saturated zone, exceeding applicable NMOCD Soil Criteria for Total Petroleum Hydrocarbons (TPH). Several hand-auger borings were advanced as part of the 2010-2011 excavation effort to better assess and delineate these northern sidewall soil impacts; however, most of the hand auger borings were not advanced to the necessary depths (up to 17 feet bgs) to verify the presence or absence of these impacts.

- With the exception of the preparatory work described above, the soil boring, soil sampling, monitoring well installation and groundwater sampling work proposed on the Jaquez property was not completed. EPCGP and the owner of the Jaquez property met on September 9, 2019, and the owner would not allow the crews access to the property. EPCGP discussed the matter with the NMOCD District 3 staff in Aztec later in the day.

The locations of pertinent historical site features, existing monitoring wells, and soil borings completed in 2019 are depicted on Figure 1. The locations of historical sampling locations on or along the McCarty property are also depicted on Figure 2.

Prior to soil sampling, each borehole was manually hand-augured to cleared for shallow unmarked utilities or other obstructions manually hand-augured to a depth of 5 feet bgs. Once cleared, soil sampling activities proceeded to depth using a 5-foot rotosonic sample barrel equipped with disposable liners. The soil cores obtained from each soil boring were examined, and field screened using a properly calibrated photoionization detector (PID).

Recovered soil samples were examined for visual and olfactory indications of petroleum impact and general moisture content, measured to determine percent recovery, described according to general Unified Soil Classification System (USCS) methods. Samples were also retained for field screened and headspace analysis with a PID. Field screening was completed by opening the retrieved direct-push liner following its retrieval and recording PID readings at 1-foot intervals from the freshly-exposed soil core surface or sample as it was "notched" with a clean trowel. Headspace analysis was accomplished by placing a portion of the retrieved sample in a Whirl-Pak® bag, sealed, and allowed to stabilize for at least 10 minutes before screening the bag headspace with a PID. The lithological logging, field observations, field-screening measurements, and headspace measurements are documented on soil boring logs, included as Appendix B.

Based on field-screening results, a portion of the sample interval immediately above the field-apparent water table was retained from each boring for submittal for laboratory analysis. Additional soil samples below the field-apparent water table were retained from MW-14, MW-15, SB-79 and SB-80 to replicate or help assess deeper soil impacts. The soil cores were handled by field staff wearing Nitrile gloves, and gloves were changed between sampling intervals. The retained soil samples were placed in laboratory-provided containers, sealed, labeled, and placed in a cooler on ice. Prior to capping, the jar threads were wiped to remove excess soil. The soil sample containers retained for laboratory analysis were labeled with the Site name, date, sample designation, sample depth, project name, collector's name, time of collection, and parameters to be analyzed. The retained soil samples were handled according to chain-of-custody (COC) procedures and shipped on ice in insulated coolers to Eurofins-TestAmerica Laboratories, Inc. (TestAmerica) in Pensacola, Florida via overnight commercial courier.

The soil samples were submitted for analysis of gasoline range organics (GRO), diesel range organics (DRO), and oil range organics using USEPA SW-846 Method 8015B; benzene, toluene, ethylbenzene, and total xylenes (BTEX) and naphthalene using USEPA SW-846 Method 8260B; and chloride using EPA Method 300. Soil samples not selected for laboratory analysis were disposed with the drill cuttings.

Upon completion of each soil boring, the boring was sealed with bentonite granules, and the location re-marked with a flag to allow for SMA to verify its location and survey-in the ground surface elevation.

2.2 MONITORING WELL INSTALLATION ACTIVITIES

On September 5 and 6, 2019, two groundwater monitoring wells (MW-13 and MW-14) were installed to obtain groundwater samples near 2010/2011 soil excavation sidewall samples obtained on or along the McCarty property that exceeded applicable NMOCD Soil Criteria. As the subject 2010/2011 sidewall samples were obtained at or below the field-apparent saturated zone, the purpose of the monitoring wells to evaluate groundwater quality near the subject soil samples. As noted in the previous section, EPCGP was not allowed to install the wells proposed on the Jaquez property.

Following advancement of the sampling equipment, monitoring wells were installed through the rotosonic drill casing, and the drill casing was subsequently removed. The monitoring wells were constructed of 2-inch-diameter, Schedule 40 polyvinyl chloride (PVC), with 15 foot-long 0.010-inch slot, continuous, factory-slotted PVC screen. Each well was constructed for the screened interval to intersect the field-apparent water table. A minimum 1-foot seal of bentonite chips was placed above the sandpack and hydrated, and the remaining annular space was filled with bentonite grout to within 6-inches of the ground surface. The surface completion of each of the monitoring wells utilized a bolted, traffic rated steel well-box cover, a compression well cap, and a concrete surface completion sloped away from the well vault to shed precipitation. The monitoring well construction diagrams are provided in Appendix B, and the locations of the monitoring wells are depicted in Figures 1 and 2. Ground surface and well casing elevations and the locations of marked utilities were surveyed by SMA on September 20, 2019.

Following monitoring well installation, each well was developed using a swabbing method followed by pumping water from the well using a submersible pump or bailer. The extent of monitoring well development was determined in the field using indicators of improved water clarity and removed water volume. Following completion of the well development, HydraSleeves™ were installed in each monitoring well to facilitate groundwater sampling during a subsequent site visit.

2.3 GROUNDWATER SAMPLING ACTIVITIES

Groundwater samples were collected on September 11, 2019 from monitoring wells MW-13 and MW-14. Prior to groundwater sample collection, the water level in each well was measured using an electronic oil-water interface probe. Groundwater samples were collected using a previously-installed HydraSleeve™, a single-use, disposable, no-purge passive groundwater sampling device. Each HydraSleeve™ was set approximately 5 feet below the top of the water column in the monitoring well using a suspension tether and stainless-steel weights to collect a sample from the screened interval.

Recovered groundwater was carefully poured into laboratory-supplied sample containers, packed on ice in an insulated cooler, and shipped under standard chain-of-custody protocol to TestAmerica. The samples were analyzed for BTEX and naphthalene using EPA Method 8260B. One field duplicate and one laboratory-provided trip blank, which accompanied the sample containers from the laboratory, was also submitted for laboratory analyses for BTEX and naphthalene constituents using EPA Method 8260B.

Water remaining in the HydraSleeve™ was containerized for subsequent disposal off site. Following collection of each groundwater sample, new HydraSleeves™ were deployed in the monitoring wells to facilitate future groundwater sampling, if required.

2.4 GENERAL PROTOCOLS

This section presents a discussion of documentation procedures, location identification, sampling methods, and other procedures performed as part of the field work.

2.4.1 Documentation Procedures

The field environmental scientist/geologist maintained a field logbook including the following information:

- Date
- Name and location of the work activities
- Weather conditions
- Personnel and visitors on site
- Field screening results (separate sheets)
- Sample locations and methods (including sampling equipment), time of sample collection, and sample depths (separate sheets)
- Samples submitted to the laboratory for analyses (separate sheets)
- Schematic drawings of sample locations (separate sheets)
- Relevant observations as the field work progresses
- Problems and corrective actions

2.4.2 Sample Labeling, Handling, and Shipping

A sample label was placed on each sample container submitted for analysis and included the project name and location, sample designation (including depth interval, when appropriate), date and time of collection, preservative (when applicable), sampler's initials, and required analyses. Soil and groundwater sample containers were placed in clean protective foam or bubble pack sleeves.

A COC form was completed and accompanied each sample cooler. The COC form included project identification, project location, sample designation, analysis type, and shipping account information. The COC form was completed in duplicate. Sampling personnel inventoried the sample bottles from the Site prior to shipment to verify that all samples listed on the COC form were present. All laboratory samples were shipped in coolers containing bagged ice. Each cooler contained a sealed temperature blank and coolers containing groundwater samples intended for BTEX and naphthalene analyses also contained a Trip Blank sample. The originals of the COC forms were sealed in a waterproof plastic bag and placed inside the shipping cooler prior to sealing of the cooler. The cooler was taped shut and custody seals were placed across the cooler lid.

All samples were transported by field personnel and via a commercial carrier (e.g., FedEx Priority Service). Upon receipt, the laboratory recorded the temperature of the blank on the COC form.

2.4.3 Equipment Decontamination

Prior to collecting any sample and between sampling locations, small sampling tools (e.g., hand-auger, trowels, and oil-water level probe) were decontaminated using a non-phosphate detergent (e.g., Liquinox®) and distilled water wash followed by a distilled water rinse. Down-hole drilling equipment was decontaminated between locations using a high-pressure, hot water wash.

2.4.4 Investigation-Derived Waste

Investigation-derived wastes consisting of drill-cuttings and excess soil samples were containerized in labeled drums, and transported off site for landfarming at the Envirotech Land Farm. A copy of the drum disposal documentation is included as Appendix C. Decontamination, development, and purge water was containerized in a poly tank and removed from the site for treatment at Basin Disposal (Appendix D).

2.4.5 Field Equipment Calibration Procedures

Field personnel used a PID equipped with a 10.6 eV lamp for soil sample screening of organic vapors. The PID was calibrated daily using an isobutylene standard prior to use according to the manufacturer's procedures. Calibration information was recorded on the daily field notes.

3.0 2019 SOIL AND GROUNDWATER RESULTS

This section summarizes the results of soil sampling, and groundwater monitoring and sampling results performed at the Site by Stantec in 2019.

3.1 SOIL FIELD SCREENING RESULTS

As depicted in Appendix B, concentrations of vapor phase hydrocarbons were not detected above 0.0 parts per million vapor(ppm-v) using the calibrated PID in either the field screening or headspace analyses of soil samples collected during advancement of the soil borings. Furthermore, no visual indications of staining, discoloration, or olfactory evidence of hydrocarbons were noted in soil samples recovered during advancement. As noted in Appendix B, the rotosonic methods returned full (100%) recovery of the soil cores continuously sampled at each location, indicating with a high degree of certainty that no soil intervals were missed during the sampling activities.

3.2 SOIL ANALYTICAL RESULTS

A summary of the soil analytical results is presented in Table 1 and depicted on Figure 2. The laboratory analytical reports for the soil samples are included in Appendix E. The soil sample results were compared with Table I in Attachment A to the New Mexico Oil Conservation Commission Order Number R-13506-D, dated June 6, 2013 (NMOCD Standards). The applicable criteria for hydrocarbons at the Site are 10 milligram per kilogram (mg/kg), 50 mg/kg, and 100 mg/kg for benzene, total BTEX, and TPH, respectively. The samples analyzed for TPH underwent silica gel cleanup at the laboratory to remove nonhydrocarbon-related interferences.

The laboratory results of the nine soil samples analyzed indicate no detectable concentrations of BTEX, naphthalene, and TPH constituents reported, and below the applicable NMOCD Standards. This includes soil samples MW-13@12 feet and MW-13@17 feet, collected and analyzed to replicate sidewall soil samples Jaquez-113(12)-021011 and Jaquez-111(17)-021011, respectively, and soil sample MW-14@9 feet, collected and analyzed to replicate sidewall soil sample Jaquez-66(9)-010511.

Of the nine soil samples analyzed, five of the samples had detectable concentrations of chloride, ranging from 3.9 milligrams per kilogram (mg/kg), to 300 mg/kg. The concentrations of chloride were less than the applicable 2013 Pit Rule site closure criteria of 600 mg/kg.

3.3 GROUNDWATER GAUGING DATA

Table 2 summarizes monitoring well gauging data collected from monitoring wells MW-13 and MW-14 on September 11, 2019, and the elevation data is depicted on Figure 3. Light non-aqueous phase liquid was not detected in the monitoring wells. While there was an insufficient number of monitoring wells gauged during the September 11, 2019 gauging event to determine apparent groundwater flow direction, historical gauging data collected from monitoring wells installed across the Jaquez property indicate shallow groundwater flow is consistently to the south or southwest.

3.4 GROUNDWATER ANALYTICAL RESULTS

Groundwater samples were collected from the monitoring wells MW-13 and MW-14 on September 11, 2019 and analyzed for BTEX and naphthalene. A summary of the groundwater analytical results is presented in Table 3 and depicted in Figure 4. The laboratory analytical reports for the groundwater samples are included in Appendix F. The groundwater sample results were compared against the New Mexico Water Quality Control Commission (NMWQCC) Standards. The applicable NMWQCC standards for the Site are 10 micrograms per liter (µg/L), 750 µg/L, 750 µg/L, 620 µg/L, and 30 µg/L for benzene, toluene, ethylbenzene, total xylenes, and naphthalene, respectively.

As presented on Figure 4, the reported concentrations of each BTEX constituent and naphthalene were below the applicable method reporting limits, which were below the NMWQCC Standards. The concentration of BTEX constituents and naphthalene were also below reporting limits.

4.0 SUMMARY

A soil and groundwater assessment were conducted in September 2019 to better assess hydrocarbons on the McCarty property, pursuant to NMOCD comments to previous remedial and assessment efforts at the Jaquez site. Proposed soil and groundwater sampling on the Jaquez property was intended to confirm groundwater quality in the vicinity of former monitoring well MW-8, where benzene concentrations slightly exceeding the NMOCD standard of 10 ug/l were detected in April 2016, prior to the excavation activities conducted in late 2016. Access to the Jaquez property was denied by the property owner. Assessment activities on the McCarty property included the advancement of five soil borings, the collection of nine soil samples, and installation and sampling of two monitoring wells. Rotosonic methods used to advance the soil borings were successful in maximizing recovery of soil cores during advancement.

Detectable concentrations of BTEX, naphthalene and TPH constituents were not reported in the soil samples submitted for laboratory analysis, including samples retained to replicate TPH exceedances reported in excavation sidewall samples collected in 2011. Detectable concentrations of chloride were reported in five of the nine samples collected, but were below applicable NMOCD soil criteria. No detectable concentrations of BTEX and naphthalene were reported for the groundwater samples collected from MW-13 and MW-14, installed adjacent to the subject 2011 sidewall soil sample locations.

5.0 REQUEST FOR SITE CLOSURE

Based on the absence of detectable hydrocarbons on the McCarty property from the 2019 assessment activities, additional action on this property is not required. As documented in previously submitted reports, previously completed remediation activities on the Jaquez property have removed hydrocarbon impacted soils above the water table. In 2016, discolored soils around the former monitoring well MW-8, the remaining monitoring well on the Jaquez property exhibiting hydrocarbon concentrations exceeding applicable NMWQCC standards for benzene, were excavated and removed. While not all discolored soil beneath the water table was excavated, it is believed that the 2016 soil excavation activities would have had a beneficial effect on groundwater quality. Based on the very low benzene concentrations reported at well MW-8 prior to the 2016 excavation, anticipated beneficial effect of the 2016 excavation, the absence of remaining hydrocarbons in soil and groundwater on the McCarty property, and the denial of access to the Jaquez property to confirm groundwater concentrations at the former MW-8 location, , EPCGP requests that NMOCD grant a No Further Action determination for NMOCD Order # 3RP-194-0.

TABLES

Table 1 - 2019 Soil Analytical Data Summary

Jaquez Gas Com #C1 and E#1 (McCarty)														
Sample Identification	**Depth (feet bgs)**	**Field-Screening PID (ppm-V)**	**Date (dd-mm-yy)**	**Benzene (mg/kg)**	**Toluene (mg/kg)**	**Ethylbenzene (mg/kg)**	**Total Xylenes (mg/kg)**	**Total BTEX (mg/kg)**	**TPH (C6-C10) (mg/kg)**	**TPH (C10-C28) (mg/kg)**	**TPH (C28-C35) (mg/kg)**	**Total TPH (mg/kg)**	**Naphthalene (mg/kg)**	**Chloride (mg/kg)**
NMOCD Standard				10	NE	NE	NE	50	NE	NE	NE	100	NE	600
MW-13	12	0.0	09/06/19	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	260
MW-13	17	0.0	09/06/19	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	3.8 J
MW-14	9	0.0	09/05/19	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	69 J
MW-14	12	0.0	09/05/19	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
SB-78	12	0.0	09/06/19	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	300
SB-79	12	0.0	09/06/19	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	57
SB-79	18	0.0	09/07/19	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
SB-80	10.5	0.0	09/07/19	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
SB-80	18	0.0	09/07/19	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL

Notes:
bgs = Below ground surface.
mg/kg = Milligram(s) per kilogram.
ppm-V = Part per million - vapor. PID calibrated to 100 ppm isobutylene.
NE = New Mexico Oil Conservation Division (NMOCD) Standard Not Established.
BRL = Analyte not detected above the summed reporting limits of the compounds comprising the total (i.e. Total BTEX or Total TPH).
BTEX = Benzene, toluene, ethylbenzene, xylenes.
TPH = Total petroleum hydrocarbons.
Total BTEX = Sum of the detectable concentrations of individual BTEX constituents.
Total TPH = Sum of the detectable concentrations of TPH-GRO and individual TPH constituents.

NMOCD Standard — New Mexico Oil Conservation Division closure criteria for pits ≤50 feet below bottom of pit to groundwater less than 10,000 mg/L.
Results bolded and highlighted yellow exceed their respective NMOCD Standards.

TABLE 2 - 2019 GROUNDWATER ELEVATION DATA

Jaquez Gas Com #C1 and #E1						
Location	**Date**	**Depth to Water (ft.)**	**Depth to LNAPL (ft.)**	**LNAPL Thickness (ft.)**	**GW Elevation (ft.)**	**TOC**
MW-13	09/11/19	13.20	ND	ND	5588.79	5601.99
MW-14	09/11/19	12.59	ND	ND	5588.91	5601.50

Notes:
ft = feet
TOC = Top of casing
LNAPL = Light non-aqueous phase liquid
ND = LNAPL not detected
NR = Not recorded
NG = Not gauged (Well not found)

TABLE 3 - SUMMARY OF 2019 GROUNDWATER RESULTS

Jaquez Gas Com #C1 and #E1						
Location	**Date**	**Benzene (µg/L)**	**Toluene (µg/L)**	**Ethylbenzene (µg/L)**	**Total Xylenes (µg/L)**	**Naphthalene (µg/L)**
NMWQCC Standards:		10	750	750	620	30
MW-13	09/11/19	<1.0	<1.0	<1.0	<10	<1.0
DUP-1 (MW-13)	09/11/19	<1.0	<1.0	<1.0	<10	<1.0
MW-14	09/11/19	<1.0	<1.0	<1.0	<10	<1.0

Notes:

Results highlighted yellow exceed their respective New Mexico Water Quality Control Comission

µg/L = micrograms per liter

J = Result is less than the reporting limit but greater than or equal to the method detection limit and the result in an approximate value.

< = analyte was not detected at the indicated reporting limit (some historic data were reported at the detection limit).

NS = Monitoring well not sampled.

*Field Duplicate (DP) results presented immediately below primary sample result

FIGURES

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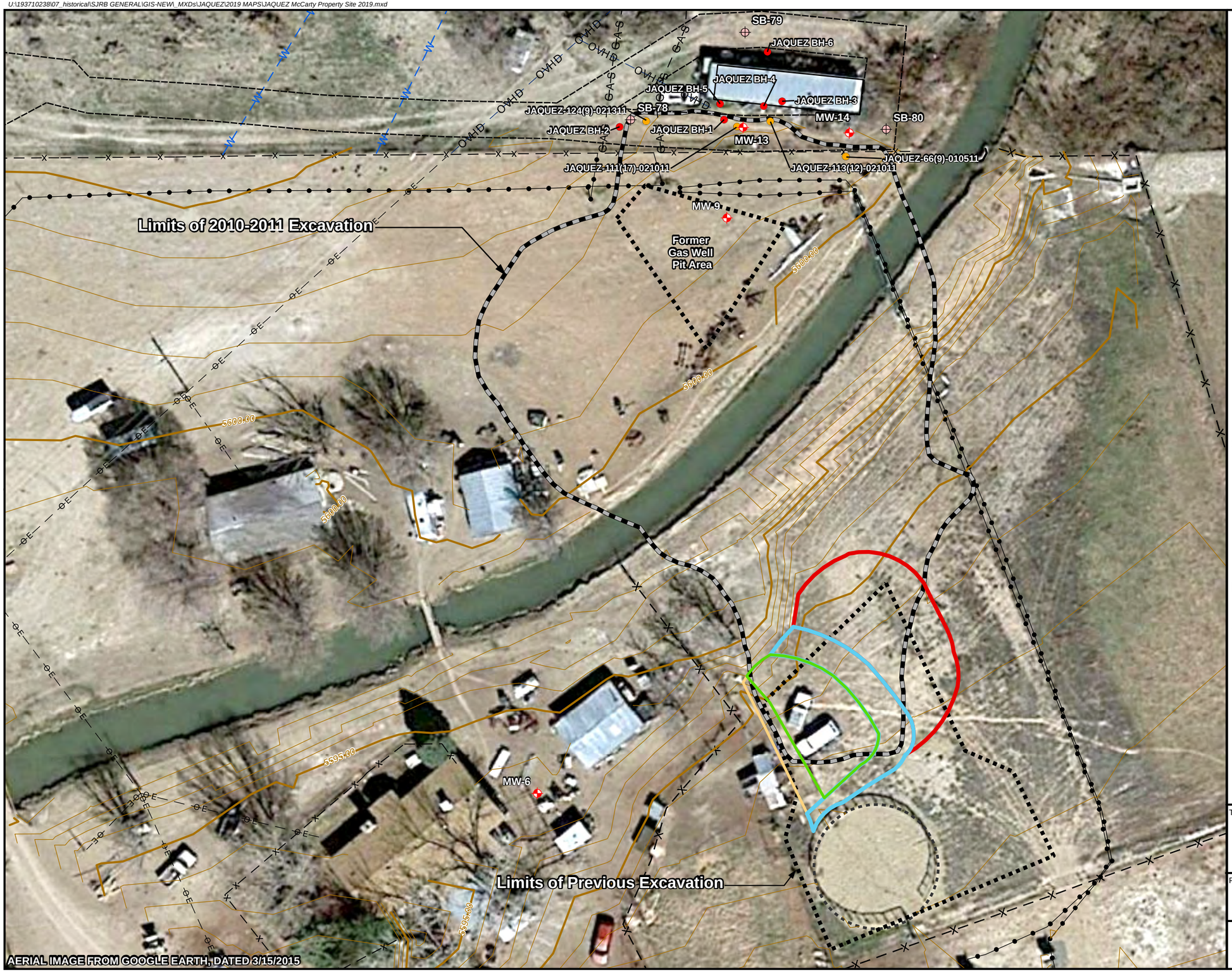

LEGEND:

SURVEYED FEATURES

- Monitoring Well
- Soil Boring
- Floor or Sidewall Soil Sample
- Borehole Soil Sample
- Approximate Ground Surface Contour
- Road
- Fence
- Gate
- Overhead Electric
- Natural Gas
- Pipeline
- Water

FORMER SITE FEATURES

- Former Pipeline
- Former Excavation Area (02/28/2011)

2016 EXCAVATION AREAS

- Excavated to Clean Floor at 17 to 18 feet
- Excavated to Clean Floor at 14 to 16 feet
- 0 to 4 feet Excavated
- 0 to 8 feet Excavated

NOTES:

Features shown based on survey conducted by Souder Miller and Associates (SMA) in October 2015 and September 2019. Former site features are approximate.

N

SCALE IN FEET

0 40 80

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
A	11/12/2019	SLG	SLG	SRV

TITLE:

SITE PLAN

PROJECT:

JAQUEZ E#1 & C#1
SAN JUAN COUNTY, NEW MEXICO

Stantec

Figure No.:

1

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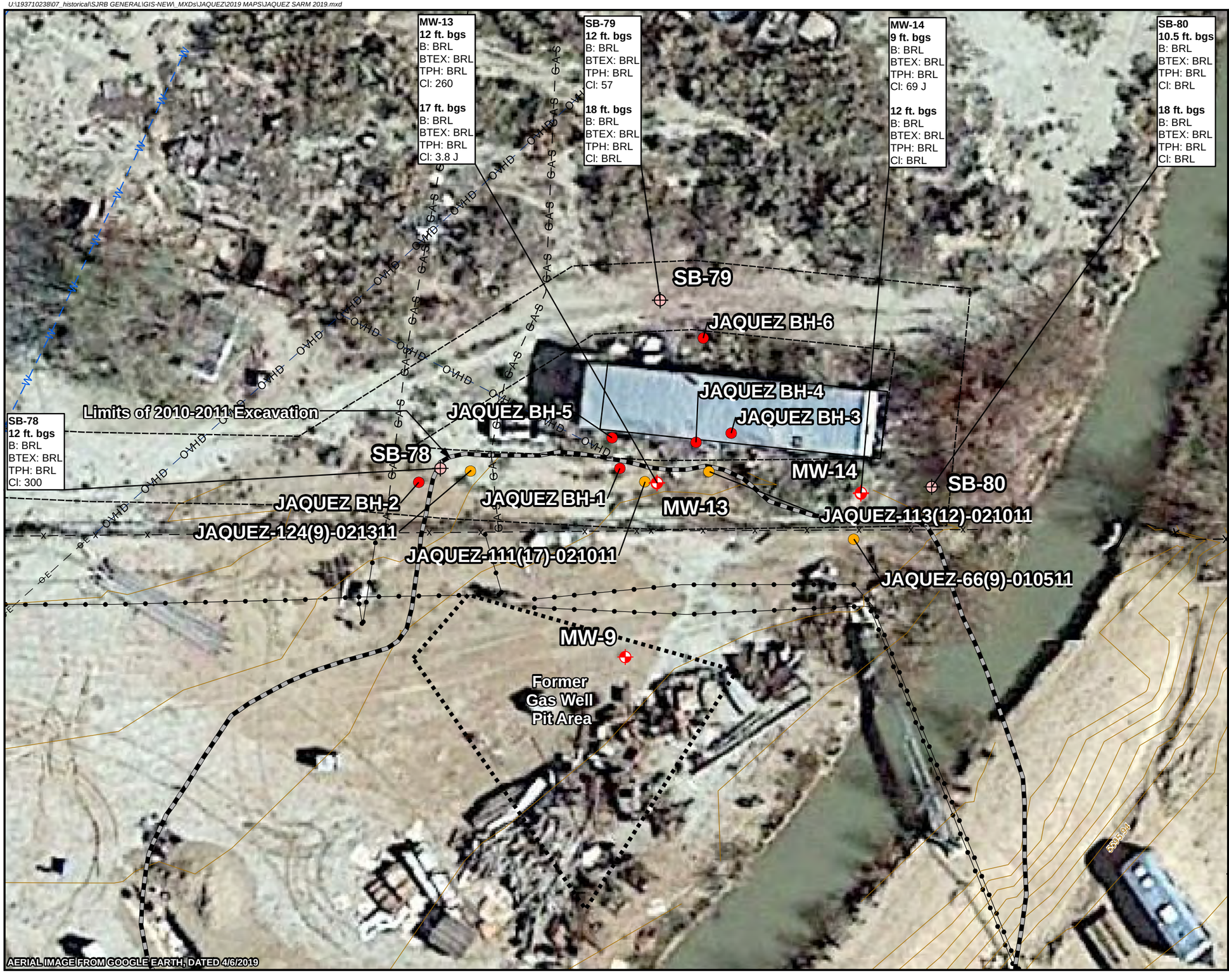

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- Monitoring Well
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NOTES:

Features shown based on survey conducted by Souder Miller and Associates (SMA) in October 2015 and September 2019. Former site features are approximate.

MW-14 samples collected 9/5/2019; MW-13, SB-78 and SB-79 9/6/2019; SB-80 9/7/2019.

ft. bgs = feet below ground surface
NS = not sampled
J = Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

EXPLANATION OF ANALYTES AND APPLICABLE STANDARDS:

RESULTS IN **BOLDFACE**/RED TYPE INDICATE CONCENTRATION IN EXCESS OF APPLICABLE NEW MEXICO OIL CONSERVATION DIVISION SOIL CRITERIA FOR THAT ANALYTE.
mg/kg = MILLIGRAM/KILOGRAM
BRL = BELOW REPORTING LIMITS

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 20 40

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
A	11/18/2019	SLG	SLG	SRV

TITLE:

SOIL ANALYTICAL RESULTS

PROJECT:

JAQUEZ E#1 & C#1
SAN JUAN COUNTY, NEW MEXICO

Stantec

Figure No.: **2**

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LEGEND:

SURVEYED FEATURES

- Monitoring Well
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- Former Pipeline
- Former Excavation Area (02/28/2011)

NOTES:

5739.86 GROUNDWATER ELEVATION CORRECTED FOR PRODUCT THICKNESS (FEET ABOVE MEAN SEA LEVEL).

NM = NOT MEASURED

Features shown based on survey conducted by Souder Miller and Associates (SMA) in October 2015 and September 2019. Former site features are approximate.

N

SCALE IN FEET

0 20 40

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
A	11/18/2019	SLG	SLG	SRV

TITLE:

GROUNDWATER ELEVATION MAP
SEPTEMBER 11, 2019

PROJECT:

JAQUEZ E#1 & C#1
SAN JUAN COUNTY, NEW MEXICO

Stantec

Figure No.: 3

U:\193710238\07_historical\SJRB GENERAL\GIS-NEW_MXDs\JAQUEZ\2019 MAPS\JAQUEZ GARM_3Q 2019.mxd

LEGEND:

SURVEYED FEATURES

- Monitoring Well
- Approximate Ground Surface Contour
- Road
- Fence
- Gate
- Overhead Electric
- Natural Gas
- Pipeline
- Water

FORMER SITE FEATURES

- Former Pipeline
- Former Excavation Area (02/28/2011)

NOTES:

DUP = FIELD DUPLICATE SAMPLE

Features shown based on survey conducted by Souder Miller and Associates (SMA) in October 2015 and September 2019. Former site features are approximate.

EXPLANATION OF ANALYTES AND APPLICABLE STANDARDS:

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

ANALYTE	NMWQCC STANDARDS
B = Benzene	10 µg/L
T = Toluene	750 µg/L
E = Ethylbenzene	750 µg/L
X = Total Xylenes	620 µg/L
N = Naphthalene	30 µg/L

N

SCALE IN FEET

0 20 40

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
A	11/26/2019	SLG	SLG	SRV

TITLE:

GROUNDWATER ANALYTICAL RESULTS
SEPTEMBER 11, 2019

PROJECT:

JAQUEZ E#1 & C#1
SAN JUAN COUNTY, NEW MEXICO

Stantec

Figure No.: 4

APPENDIX A

NMOCD Approval of 2019 Work Plan

From: Varsa, Steve
To: Smith, Cory, EMNRD
Cc: Griswold, Jim, EMNRD; Wiley, Joe
Subject: 3RP-194 - Jaquez E#1 & C#1 - Work Plan for 2019 Monitoring Well Installation Activities
Date: Tuesday, August 27, 2019 4:29:07 PM
Attachments: 2019 Monitoring Well Installation Workplan (Jaquez GC E#1 C#1).pdf

---

Hi Cory –

Please find attached the above-referenced work plan for your reference and files. Field activities are to begin on Thursday, September 5, 2019.

Please fell free to contact Joe Wiley, with El Paso CGP Company, of me, if you have any 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

Soil Boring and Monitoring Well Construction Logs

Stantec

Drilling Log

Stantec

Monitoring Well **MW-13**

Page: 1 of 2

Project *Jaquez E#1 & C#1* Client *EPCGPC*

Location *San Juan River Basin, New Mexico* Project Number *10507777*

Surface Elev. *5602.12 ft* North *2092491.51* East *2727438.55*

Top of Casing *5601.99 ft* Water Level Initial ▽ NA Static ▼ NA

Hole Depth *25.0 ft* Screen: Diameter *2 in* Length *15.0 ft* Type/Size *PVC/0.01 in*

Hole Diameter *6"* Casing: Diameter *2 in* Length *100.0 ft* Type *PVC*

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

Driller *Robert Rodriguez* Driller Reg. # *WD 1210* Log By *Chris Hiatt*

Start Date *9/6/2019* Completion Date *9/6/2019* Checked By *S. Varsa*

COMMENTS
Location cleared for utilities to 5 feet using soft digging techiques

Bentonite Grout | Bentonite Granules | Grout | Portland Cement | Sand Pack | Sand Pack

Depth (ft)	PID (ppm)	% Recovery	Headspace Screening	Sample ID	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
0	0.0	100%	0.0					0-5' excavated using soft digging techniques	
2	0.0		0.0						
4	0.0		0.0						
6	0.0	100%	0.0				SP	Sand, light olive-gray, loose, dry, fine-grained, some moderately cemented peds, silty to very silty with depth	
8	0.0		0.0						
10	0.0	100%	0.0	MW-13 @ 12'			CL CH	Clay, light olive-gray to 10', soft with a stiff section from 11-12', dry to slightly moist becoming very moist at 10', silty, slightly sandy	
12	0.0		0.0						
14	0.0		0.0				CL CH	Clay, very soft, wet at 12.5', very sandy, sand content decreases from 19-21' but increases from 21-22.5', trace fine rounded gravel at 14-15'	

Continued Next Page

Drilling Log JAQUEZ LOGS EL PASO - COPY.GPJ MWH IA.GDT 10/11/19

Drilling Log

Stantec

Monitoring Well **MW-13**

Page: 2 of 2

Project *Jaquez E#1 & C#1* Client *EPCGPC*

Location *San Juan River Basin, New Mexico* Project Number *10507777*

Depth (ft)	PID (ppm)	% Recovery	Headspace Screening	Sample ID	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
								Continued	
16	0.0	100%	0.0	MW-13 @ 17'					
	0.0		0.0						
	0.0		0.0						
18	0.0		0.0				CL CH		
	0.0		0.0						
20	0.0	100%	0.0						
	0.0		0.0						
22	0.0		0.0					Clay, soft to stiff, very little sand	
	0.0		0.0				CL CH		
24	0.0		0.0						
								End of boring = 25'	
26									
28									
30									
32									
34									

Drilling Log JAQUEZ LOGS EL PASO - COPY.GPJ MWH IA.GDT 10/11/19

Drilling Log

Stantec

Monitoring Well **MW-14**

Page: 1 of 2

Project *Jaquez E#1 & C#1* Client *EPCGPC*

Location *San Juan River Basin, New Mexico* Project Number *10507777*

Surface Elev. *5601.73 ft* North *2092489.26* East *2727482.81*

Top of Casing *5601.50 ft* Water Level Initial ▽ NA Static ▼ NA

Hole Depth *30.0 ft* Screen: Diameter *2 in* Length *15.0 ft* Type/Size *PVC/0.01 in*

Hole Diameter *6"* Casing: Diameter *2 in* Length *100.0 ft* Type *PVC*

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

Driller *Robert Rodriguez* Driller Reg. # *WD 1210* Log By *Chris Hiatt*

Start Date *9/5/2019* Completion Date *9/5/2019* Checked By *S. Varsa*

COMMENTS
Location cleared for utilities to 5 feet using soft digging techiques

Bentonite Grout | Bentonite Granules | Grout | Portland Cement | Sand Pack | Sand Pack

Depth (ft)	PID (ppm)	% Recovery	Headspace Screening	Sample ID	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
0	0.0	100%	0.0					0-5' excavated using soft digging techniques	
2	0.0		0.0						
4	0.0		0.0						
6	0.0	100%	0.0					Sand, buff to light brown, loose, dry, slightly silty with depth, fine-grained	
8	0.0		0.0	MW-14 @ 9'			SP		
10	0.0	100%	0.0				SM	Sand, olive-gray to gray at 10', loose, very silty, fine-grained	
12	0.0		0.0	MW-14 @ 12'			CL CH	Clay, gray, soft to very soft from 11-12', moist	
14	0.0		0.0				SM	Sand, gray, very loose, wet, very silty to sandy silt	

Continued Next Page

Drilling Log JAQUEZ LOGS EL PASO - COPY.GPJ MWH IA.GDT 10/11/19

Drilling Log

Stantec

Monitoring Well **MW-14**

Page: 2 of 2

Project *Jaquez E#1 & C#1* Client *EPCGPC*

Location *San Juan River Basin, New Mexico* Project Number *10507777*

Depth (ft)	PID (ppm)	% Recovery	Headspace Screening	Sample ID	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
								Continued	
16	0.0	100%	0.0				ML SP	Silt, gray, very soft, wet, very sandy	
	0.0		0.0						
	0.0		0.0						
18	0.0		0.0				SP	Sand, very loose, saturated	
	0.0		0.0						
20	0.0	100%	0.0					Clay, olive-brown, alternating soft and stiff sections, wet, high plasticity, very uniform	
	0.0		0.0						
22	0.0		0.0						
	0.0		0.0						
24	0.0		0.0				CH		
	0.0	100%	0.0						
26	0.0		0.0						
	0.0		0.0						
28	0.0		0.0						
	0.0		0.0						
30								End of boring = 30'	
32									
34									

Drilling Log JAQUEZ LOGS EL PASO - COPY.GPJ MWH IA.GDT 10/11/19

Drilling Log

Stantec

Soil Boring **SB-78**

Page: 1 of 2

Project *Jaquez E#1 & C#1* Client *EPCGPC*

Location *San Juan River Basin, New Mexico* Project Number *10507777*

Surface Elev. *5603.16 ft* North *2092494.74* East *2727391.56*

Top of Casing *NA* Water Level Initial ▽ *NA* NA Static ▼ *NA* NA

Hole Depth *35.0 ft* Screen: Diameter *NA* Length *NA* Type/Size *NA*

Hole Diameter *6"* Casing: Diameter *NA* Length *NA* Type *NA*

Drill Co. *Cascade Drilling* Drilling Method *Sonic* Sand Pack *NA*

Driller *Robert Rodriguez* Driller Reg. # *WD 1210* Log By *Chris Hiatt*

Start Date *9/6/2019* Completion Date *9/6/2019* Checked By *S. Varsa*

Bentonite Grout | Bentonite Granules | Grout | Portland Cement | Sand Pack | Sand Pack

COMMENTS
Location cleared for utilities to 5 feet using soft digging techiques

Depth (ft)	PID (ppm)	% Recovery	Headspace Screening	Sample ID	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.
0	0.0	100%	0.0					0-5' excavated using soft digging techniques
2	0.0		0.0					
4	0.0		0.0					
6	0.0	100%	0.0					Sand, buff to light grayish-brown, loose, dry, silty and increasing with depth, fine-grained, trace fine rounded gravel
8	0.0		0.0				SP	
10	0.0		0.0					
12	0.0	100%	0.0	SB-78 @ 12'				Clay, soft to stiff, moist, some silt at 12', sandy to very sandy
14	0.0		0.0				CL SC	Clay, very soft/loose, very moist to wet, very sandy to a clayey sand
16	0.0	100%	0.0				CL SC	Clay, light olive-brown, soft, saturated, silty, slightly sandy
18	0.0		0.0				CL CH	
20	0.0		0.0					

Continued Next Page

Drilling Log JAQUEZ LOGS EL PASO - COPY.GPJ MWH IA.GDT 10/11/19

Drilling Log

Stantec

Soil Boring **SB-78**

Page: 2 of 2

Project *Jaquez E#1 & C#1* Client *EPCGPC*

Location *San Juan River Basin, New Mexico* Project Number *10507777*

Depth (ft)	PID (ppm)	% Recovery	Headspace Screening	Sample ID	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.
								Continued
20	0.0	100%	0.0				CL CH	Clay, light olive-brown, soft, stiff from 22.5-25'and very stiff from 27.5-29', very moist, silty, slightly sandy
22	0.0		0.0					
	0.0		0.0					
24	0.0		0.0					
	0.0		0.0					
26	0.0	100%	0.0					
	0.0		0.0					
28	0.0		0.0					
	0.0		0.0					
30	0.0		0.0					
	0.0	100%	0.0				CL SC	Clay, light olive-brown, soft, very moist, very sandy - coarse-grained, some fine angular gravel at 35'
32	0.0		0.0					
	0.0		0.0					
34	0.0		0.0					
	0.0		0.0					
36								End of boring = 35'
38								
40								
42								
44								
46								

Drilling Log JAQUEZ LOGS EL PASO - COPY.GPJ MWH IA.GDT 10/11/19

Drilling Log

Stantec

Soil Boring **SB-79**

Page: 1 of 2

Project *Jaquez E#1 & C#1* Client *EPCGPC*

Location *San Juan River Basin, New Mexico* Project Number *10507777*

Surface Elev. *5602.56 ft* North *2092531.22* East *2727439.27*

Top of Casing *NA* Water Level Initial ▽ *NA* NA Static ▼ *NA* NA

Hole Depth *25.0 ft* Screen: Diameter *NA* Length *NA* Type/Size *NA*

Hole Diameter *6"* Casing: Diameter *NA* Length *NA* Type *NA*

Drill Co. *Cascade Drilling* Drilling Method *Sonic* Sand Pack *NA*

Driller *Robert Rodriguez* Driller Reg. # *WD 1210* Log By *Chris Hiatt*

Start Date *9/6/2019* Completion Date *9/6/2019* Checked By *S. Varsa*

Bentonite Grout | Bentonite Granules | Grout | Portland Cement | Sand Pack | Sand Pack

COMMENTS
Location cleared for utilities to 5 feet using soft digging techiques

Depth (ft)	PID (ppm)	% Recovery	Headspace Screening	Sample ID	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.
0	0.0	100%	0.0					0-5' excavated using soft digging techniques
2	0.0		0.0					
	0.0		0.0					
4	0.0		0.0					
	0.0		0.0					
6	0.0	100%	0.0				ML SP	Silt, grayish-buff, very soft/loose, dry to slightly moist, sandy, some clay at 9', CaCO3 at 6-7', trace rounded fine gravel
	0.0		0.0					
8	0.0		0.0					
	0.0		0.0					
10	0.0	100%	0.0	SB-79 @ 12'			CL SC	Clay, olive-brown, soft to 11' then stiff 11-12.5' then very soft, very moist to wet at 12.5', sandy, some silt
	0.0		0.0					
12	0.0		0.0					
	0.0		0.0					
14	0.0		0.0					

Continued Next Page

Drilling Log JAQUEZ LOGS EL PASO - COPY.GPJ MWH IA.GDT 10/11/19

Drilling Log

Stantec

Soil Boring **SB-79**

Page: 2 of 2

Project *Jaquez E#1 & C#1* Client *EPCGPC*

Location *San Juan River Basin, New Mexico* Project Number *10507777*

Depth (ft)	PID (ppm)	% Recovery	Headspace Screening	Sample ID	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.
								Continued
16	0.0	100%	0.0					
	0.0		0.0				CL SC	
	0.0		0.0	SB-79 @ 18'				
18	0.0		0.0					
	0.0		0.0					Sand, olive-brown, very clayey, wet
20	0.0	100%	0.0				SP	
	0.0		0.0					Clay, very moist to wet, soft to stiff, faintly mottled at 23'
22	0.0		0.0					
	0.0		0.0				CL CH	
24	0.0		0.0					
	0.0		0.0					
26								End of Boring = 25'
28								
30								
32								
34								

Drilling Log JAQUEZ LOGS EL PASO - COPY.GPJ MWH IA.GDT 10/11/19

Drilling Log

Stantec

Soil Boring **SB-80**

Page: 1 of 2

Project *Jaquez E#1 & C#1* Client *EPCGPC*

Location *San Juan River Basin, New Mexico* Project Number *10507777*

Surface Elev. *5601.43 ft* North *2092490.70* East *2727498.20*

Top of Casing *NA* Water Level Initial ▽ *NA* NA Static ▼ *NA* NA

Hole Depth *25.0 ft* Screen: Diameter *NA* Length *NA* Type/Size *NA*

Hole Diameter *6"* Casing: Diameter *NA* Length *NA* Type *NA*

Drill Co. *Cascade Drilling* Drilling Method *Sonic* Sand Pack *NA*

Driller *Robert Rodriguez* Driller Reg. # *WD 1210* Log By *Chris Hiatt*

Start Date *9/7/2019* Completion Date *9/7/2019* Checked By *S. Varsa*

Bentonite Grout | Bentonite Granules | Grout | Portland Cement | Sand Pack | Sand Pack

COMMENTS
Location cleared for utilities to 5 feet using soft digging techiques

Depth (ft)	PID (ppm)	% Recovery	Headspace Screening	Sample ID	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.
0	0.0	100%	0.0					0-5' excavated using soft digging techniques
2	0.0		0.0					
	0.0		0.0					
4	0.0		0.0					
	0.0		0.0					
6	0.0	100%	0.0					Sand, buff/light brown, very loose, dry, fine-grained, very silty, becoming clayey at 9', trace roots at 10', trace rounded fine gravel
	0.0		0.0					
8	0.0		0.0				SP	
	0.0		0.0					
10	0.0	100%	0.0	SB-80 @ 10.5'				Silt, light olive-brown, soft to stiff from 11-12' then very soft, moist to wet at 11', sandy increasing at 15'
	0.0		0.0					
12	0.0		0.0				ML SP	
	0.0		0.0					
14	0.0		0.0					

Continued Next Page

Drilling Log JAQUEZ LOGS EL PASO - COPY.GPJ MWH IA.GDT 10/11/19

Drilling Log

Stantec

Soil Boring **SB-80**

Page: 2 of 2

Project *Jaquez E#1 & C#1* Client *EPCGPC*

Location *San Juan River Basin, New Mexico* Project Number *10507777*

Depth (ft)	PID (ppm)	% Recovery	Headspace Screening	Sample ID	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.
								Continued
16	0.0	100%	0.0					Sand, light olive-brown, very loose, wet, very silty to 18', fine-grained, well sorted
	0.0		0.0					
	0.0		0.0	SB-80 @ 18'			SP	
18	0.0		0.0					
	0.0		0.0					
20	0.0	100%	0.0					Clay, light olive-gray becoming darker from 23-25', stiff to very stiff at 21' then soft at 23' to fluid at 24', saturated, high plasticity
	0.0		0.0					
22	0.0		0.0				CL CH	
	0.0		0.0					
24	0.0		0.0					
26								End of Boring = 25'
28								
30								
32								
34								

Drilling Log JAQUEZ LOGS EL PASO - COPY.GPJ MWH IA.GDT 10/11/19

APPENDIX C

Soil Drum Disposal Documentation

envirotech

Bill of Lading

MANIFEST # 65207
GENERATOR EL PASO
POINT OF ORIGIN JAQUEZ GC E#1 & CTB
TRANSPORTER SIERRA OIL FIELD
DATE 9-9-19 JOB # 14073-

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	CONT SOIL	L-29			4		06	11:20	
						4				

RESULTS			LANDFARM EMPLOYEE	NOTES
<274	CHLORIDE TEST	1	EL	
	CHLORIDE TEST		☐ Soil w/ Debris ☐ After Hours/Weekend Receival ☐ Scrape Out ☐ Wash Out	
	CHLORIDE TEST			
	PAINT FILTER TEST	1		

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

Generator Onsite Contact _____ Phone _____

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

SAN JUAN PRINTING 021971E

envirotech

BOL# 65207

CHLORIDE TESTING / PAINT FILTER TESTING

DATE 9-9-19 TIME 11:20 Attach test strip here

CUSTOMER El Paso

SITE Jaquez GC E #1 & C #1

DRIVER Vincent Nabors

SAMPLE (Soil) Straight _____ With Dirt _____

CHLORIDE TEST -274 mg/Kg

ACCEPTED YES ✓ NO _____

PAINT FILTER TEST Time started 11:20 Time completed 11:25

PASS YES ✓ NO _____

SAMPLER/ANALYST [signature]

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

APPENDIX D

Wastewater Disposal Documentation

(McCarty property drilling) csh

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. 774761
NMOCD PERMIT: NM -001-0005
Oil Field Waste Document, Form C138
INVOICE:

DATE 9-9-19
GENERATOR: Stevens Trucking
HAULING CO. Sierra
ORDERED BY: Joseph

DEL. TKT#.
BILL TO: Stevens Trucking
DRIVER: Lambert
(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	06	Jaquez Gas Com [H]	3	70			210	
2							'19SEP 9 12:11 PM	
3								
4								
5								

I, Herbert Newton representitive or authorized agent for the above generator and hauler hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination that the above described waste is RCRA Exempt Oil field wastes.

☐ Approved ☐ Denied ATTENDANT SIGNATURE

SAN JUAN PRINTING 0818018B

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. 774899
NMOCD PERMIT: NM -001-0005
Oil Field Waste Document, Form C138
INVOICE:

DATE: 9/11/19

DEL. TKT#:

GENERATOR:

BILL TO:

HAULING CO.

DRIVER:
(Print Full Name)

ORDERED BY:

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			1	20			20$	
2							'19 SEP 11	9:50
3								
4								
5								

I, ______________________ representitive or authorized agent for the above generator and hauler hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination that the above described waste is RCRA Exempt Oil field wastes.

☐ Approved ☐ Denied ATTENDANT SIGNATURE ______________________

SAN JUAN PRINTING 08180188

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 CGP Company L.L.C., 1001 Louisiana Street, Houston, TX 77002

2. **Originating Site(s):**
Jaquez Gas Com E#1 and C#1

3. **Location of Material (Street Address, City, State or ULSTR):**
Unit O, Sec. 6, T29N, R09W

4. **Source and Description of Waste:**
Historic releases occurred on the above-referenced properties. As part of environmental remediation activities, monitoring wells will be sampled and purged groundwater will be removed from the Site.

Estimated Volume 1 yd^3 / (bbls) Known Volume (to be entered by the operator at the end of the haul) _____ yd^3 / bbls

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

I, Joseph Wiley, representative or authorized agent for El Paso CGP Company 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, Sarah Gardner, representative for El Paso CGP 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: Oscar Cruz TITLE: Asst Manager DATE: 9-11-19

SIGNATURE: _____ TELEPHONE NO.: _____

Surface Waste Management Facility Authorized Agent

APPENDIX E

Soil Analytical Report

Stantec

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

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

Laboratory Job ID: 400-176031-1
Client Project/Site: ElPaso CGP Company, LLC-McCarty
Revision: 3

For:
Stantec Consulting Services Inc
1560 Broadway
Suite 1800
Denver, Colorado 80202

Attn: Ms. Sarah Gardner

John Cady

Authorized for release by:
11/6/2019 3:40:50 PM
John Cady, Manager of Project Management
(713)690-4444
john.cady@testamericainc.com

Designee for

Marty Edwards, Senior Project Manager
(850)471-6227
marty.edwards@testamericainc.com

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC-McCarty

Laboratory Job ID: 400-176031-1

Table of Contents

Definitions/Glossary

Client: Stantec Consulting Services Inc Job ID: 400-176031-1
Project/Site: ElPaso CGP Company, LLC-McCarty

Qualifiers

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.

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
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Case Narrative

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC-McCarty

Job ID: 400-176031-1

Job ID: 400-176031-1

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

400-176031-1

Comments
This is a revised report, replacing the 2nd revised report dated 10/23/2019. This reports corrects the MS/MSD results for Chloride.

This is a revised report, replacing the 1st revision dated 10/22/2019. The H flags were removed from the 300 method analysis as it does not apply to soils.

This is a revised report, replacing the original report dated 9/24/2019. The original report incorrectly quantified chloride using Method 325.2

Receipt
The samples were received on 9/10/2019 8:57 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.5º C.

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

GC VOA
Method 8015B: The following samples were diluted because the base dilution for methanol preserved soil analysis is 1:50: MW-14 @ 9' (400-176031-1), MW-14 @ 12' (400-176031-2), MW-13 @ 12' (400-176031-3), MW-13 @ 17' (400-176031-4), SB-78 @ 12' (400-176031-5), SB-79 @ 12' (400-176031-6), SB-79 @ 18' (400-176031-7), SB-80 @ 10.5' (400-176031-8) and SB-80 @ 18' (400-176031-9)

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

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

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

Organic Prep
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.

Lab Admin
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: ElPaso CGP Company, LLC-McCarty

Job ID: 400-176031-1

Client Sample ID: MW-14 @ 9' — Lab Sample ID: 400-176031-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Chloride	69	J	250		mg/Kg	10	☼	300.0	Soluble

Client Sample ID: MW-14 @ 12' — Lab Sample ID: 400-176031-2

No Detections.

Client Sample ID: MW-13 @ 12' — Lab Sample ID: 400-176031-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Chloride	260		240		mg/Kg	10	☼	300.0	Soluble

Client Sample ID: MW-13 @ 17' — Lab Sample ID: 400-176031-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Chloride	3.8	J	49		mg/Kg	2	☼	300.0	Soluble

Client Sample ID: SB-78 @ 12' — Lab Sample ID: 400-176031-5

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Chloride	300		260		mg/Kg	10	☼	300.0	Soluble

Client Sample ID: SB-79 @ 12' — Lab Sample ID: 400-176031-6

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Chloride	57		28		mg/Kg	1	☼	300.0	Soluble

Client Sample ID: SB-79 @ 18' — Lab Sample ID: 400-176031-7

No Detections.

Client Sample ID: SB-80 @ 10.5' — Lab Sample ID: 400-176031-8

No Detections.

Client Sample ID: SB-80 @ 18' — Lab Sample ID: 400-176031-9

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Pensacola

Sample Summary

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC-McCarty

Job ID: 400-176031-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
400-176031-1	MW-14 @ 9'	Solid	09/05/19 14:29	09/10/19 08:57	
400-176031-2	MW-14 @ 12'	Solid	09/05/19 13:58	09/10/19 08:57	
400-176031-3	MW-13 @ 12'	Solid	09/06/19 09:55	09/10/19 08:57	
400-176031-4	MW-13 @ 17'	Solid	09/06/19 09:46	09/10/19 08:57	
400-176031-5	SB-78 @ 12'	Solid	09/06/19 13:13	09/10/19 08:57	
400-176031-6	SB-79 @ 12'	Solid	09/06/19 16:36	09/10/19 08:57	
400-176031-7	SB-79 @ 18'	Solid	09/06/19 16:38	09/10/19 08:57	
400-176031-8	SB-80 @ 10.5'	Solid	09/07/19 09:47	09/10/19 08:57	
400-176031-9	SB-80 @ 18'	Solid	09/07/19 09:40	09/10/19 08:57	

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC-McCarty

Job ID: 400-176031-1

Client Sample ID: MW-14 @ 9'

Date Collected: 09/05/19 14:29
Date Received: 09/10/19 08:57

Lab Sample ID: 400-176031-1

Matrix: Solid
Percent Solids: 79.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00090		0.0067		mg/Kg	☼	09/16/19 14:44	09/16/19 18:36	1
Ethylbenzene	<0.00082		0.0067		mg/Kg	☼	09/16/19 14:44	09/16/19 18:36	1
Toluene	<0.0013		0.0067		mg/Kg	☼	09/16/19 14:44	09/16/19 18:36	1
Xylenes, Total	<0.0026		0.013		mg/Kg	☼	09/16/19 14:44	09/16/19 18:36	1
Naphthalene	<0.0027		0.0067		mg/Kg	☼	09/16/19 14:44	09/16/19 18:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*72 - 122*	*09/16/19 14:44*	*09/16/19 18:36*	*1*
Dibromofluoromethane	*95*		*79 - 123*	*09/16/19 14:44*	*09/16/19 18:36*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*	*09/16/19 14:44*	*09/16/19 18:36*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<7.0		7.0		mg/Kg	☼	09/12/19 11:40	09/12/19 14:29	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*98*		*65 - 125*	*09/12/19 11:40*	*09/12/19 14:29*	*50*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	<6.2		6.2		mg/Kg	☼	09/11/19 10:30	09/13/19 05:33	1
C28-C35	<6.2		6.2		mg/Kg	☼	09/11/19 10:30	09/13/19 05:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*78*		*27 - 151*	*09/11/19 10:30*	*09/13/19 05:33*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**69**	**J**	250		mg/Kg	☼		10/20/19 13:44	10

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC-McCarty

Job ID: 400-176031-1

Client Sample ID: MW-14 @ 12'

Lab Sample ID: 400-176031-2
Date Collected: 09/05/19 13:58
Matrix: Solid
Date Received: 09/10/19 08:57
Percent Solids: 76.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00091		0.0068		mg/Kg	☼	09/16/19 14:44	09/16/19 19:02	1
Ethylbenzene	<0.00083		0.0068		mg/Kg	☼	09/16/19 14:44	09/16/19 19:02	1
Toluene	<0.0014		0.0068		mg/Kg	☼	09/16/19 14:44	09/16/19 19:02	1
Xylenes, Total	<0.0026		0.014		mg/Kg	☼	09/16/19 14:44	09/16/19 19:02	1
Naphthalene	<0.0027		0.0068		mg/Kg	☼	09/16/19 14:44	09/16/19 19:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*72 - 122*	*09/16/19 14:44*	*09/16/19 19:02*	*1*
Dibromofluoromethane	*97*		*79 - 123*	*09/16/19 14:44*	*09/16/19 19:02*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*	*09/16/19 14:44*	*09/16/19 19:02*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<7.3		7.3		mg/Kg	☼	09/12/19 11:40	09/12/19 14:48	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*99*		*65 - 125*	*09/12/19 11:40*	*09/12/19 14:48*	*50*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	<6.5		6.5		mg/Kg	☼	09/11/19 10:30	09/13/19 05:46	1
C28-C35	<6.5		6.5		mg/Kg	☼	09/11/19 10:30	09/13/19 05:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*74*		*27 - 151*	*09/11/19 10:30*	*09/13/19 05:46*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<16		250		mg/Kg	☼		10/20/19 14:53	10

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC-McCarty

Job ID: 400-176031-1

Client Sample ID: MW-13 @ 12'

Date Collected: 09/06/19 09:55
Date Received: 09/10/19 08:57

Lab Sample ID: 400-176031-3

Matrix: Solid
Percent Solids: 83.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00083		0.0062		mg/Kg	☼	09/16/19 14:44	09/16/19 19:29	1
Ethylbenzene	<0.00076		0.0062		mg/Kg	☼	09/16/19 14:44	09/16/19 19:29	1
Toluene	<0.0012		0.0062		mg/Kg	☼	09/16/19 14:44	09/16/19 19:29	1
Xylenes, Total	<0.0024		0.012		mg/Kg	☼	09/16/19 14:44	09/16/19 19:29	1
Naphthalene	<0.0025		0.0062		mg/Kg	☼	09/16/19 14:44	09/16/19 19:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*72 - 122*	*09/16/19 14:44*	*09/16/19 19:29*	*1*
Dibromofluoromethane	*97*		*79 - 123*	*09/16/19 14:44*	*09/16/19 19:29*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*	*09/16/19 14:44*	*09/16/19 19:29*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<6.8		6.8		mg/Kg	☼	09/12/19 11:40	09/12/19 15:13	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*101*		*65 - 125*	*09/12/19 11:40*	*09/12/19 15:13*	*50*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	<5.8		5.8		mg/Kg	☼	09/11/19 10:30	09/13/19 05:59	1
C28-C35	<5.8		5.8		mg/Kg	☼	09/11/19 10:30	09/13/19 05:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*86*		*27 - 151*	*09/11/19 10:30*	*09/13/19 05:59*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**260**		240		mg/Kg	☼		10/20/19 15:16	10

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC-McCarty

Job ID: 400-176031-1

Client Sample ID: MW-13 @ 17'

Date Collected: 09/06/19 09:46
Date Received: 09/10/19 08:57

Lab Sample ID: 400-176031-4

Matrix: Solid
Percent Solids: 80.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00077		0.0058		mg/Kg	☼	09/16/19 14:44	09/16/19 19:55	1
Ethylbenzene	<0.00071		0.0058		mg/Kg	☼	09/16/19 14:44	09/16/19 19:55	1
Toluene	<0.0012		0.0058		mg/Kg	☼	09/16/19 14:44	09/16/19 19:55	1
Xylenes, Total	<0.0022		0.012		mg/Kg	☼	09/16/19 14:44	09/16/19 19:55	1
Naphthalene	<0.0023		0.0058		mg/Kg	☼	09/16/19 14:44	09/16/19 19:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*72 - 122*	*09/16/19 14:44*	*09/16/19 19:55*	*1*
Dibromofluoromethane	*97*		*79 - 123*	*09/16/19 14:44*	*09/16/19 19:55*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*	*09/16/19 14:44*	*09/16/19 19:55*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<6.6		6.6		mg/Kg	☼	09/12/19 11:40	09/12/19 15:40	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*103*		*65 - 125*	*09/12/19 11:40*	*09/12/19 15:40*	*50*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	<6.1		6.1		mg/Kg	☼	09/11/19 10:30	09/13/19 06:11	1
C28-C35	<6.1		6.1		mg/Kg	☼	09/11/19 10:30	09/13/19 06:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*27*		*27 - 151*	*09/11/19 10:30*	*09/13/19 06:11*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3.8**	**J**	49		mg/Kg	☼		10/20/19 15:38	2

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC-McCarty

Job ID: 400-176031-1

Client Sample ID: SB-78 @ 12'

Date Collected: 09/06/19 13:13
Date Received: 09/10/19 08:57

Lab Sample ID: 400-176031-5

Matrix: Solid
Percent Solids: 78.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00094		0.0070		mg/Kg	☼	09/16/19 14:44	09/16/19 20:22	1
Ethylbenzene	<0.00085		0.0070		mg/Kg	☼	09/16/19 14:44	09/16/19 20:22	1
Toluene	<0.0014		0.0070		mg/Kg	☼	09/16/19 14:44	09/16/19 20:22	1
Xylenes, Total	<0.0027		0.014		mg/Kg	☼	09/16/19 14:44	09/16/19 20:22	1
Naphthalene	<0.0028		0.0070		mg/Kg	☼	09/16/19 14:44	09/16/19 20:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*72 - 122*	*09/16/19 14:44*	*09/16/19 20:22*	*1*
Dibromofluoromethane	*101*		*79 - 123*	*09/16/19 14:44*	*09/16/19 20:22*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*	*09/16/19 14:44*	*09/16/19 20:22*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<7.4		7.4		mg/Kg	☼	09/12/19 11:40	09/12/19 16:41	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*101*		*65 - 125*	*09/12/19 11:40*	*09/12/19 16:41*	*50*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	<6.3		6.3		mg/Kg	☼	09/11/19 10:30	09/13/19 06:24	1
C28-C35	<6.3		6.3		mg/Kg	☼	09/11/19 10:30	09/13/19 06:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*79*		*27 - 151*	*09/11/19 10:30*	*09/13/19 06:24*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**300**		260		mg/Kg	☼		10/20/19 16:01	10

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC-McCarty

Job ID: 400-176031-1

Client Sample ID: SB-79 @ 12'

Date Collected: 09/06/19 16:36
Date Received: 09/10/19 08:57

Lab Sample ID: 400-176031-6

Matrix: Solid
Percent Solids: 72.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00088		0.0066		mg/Kg	☼	09/16/19 14:44	09/16/19 20:48	1
Ethylbenzene	<0.00080		0.0066		mg/Kg	☼	09/16/19 14:44	09/16/19 20:48	1
Toluene	<0.0013		0.0066		mg/Kg	☼	09/16/19 14:44	09/16/19 20:48	1
Xylenes, Total	<0.0025		0.013		mg/Kg	☼	09/16/19 14:44	09/16/19 20:48	1
Naphthalene	<0.0026		0.0066		mg/Kg	☼	09/16/19 14:44	09/16/19 20:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*72 - 122*	*09/16/19 14:44*	*09/16/19 20:48*	*1*
Dibromofluoromethane	*98*		*79 - 123*	*09/16/19 14:44*	*09/16/19 20:48*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*	*09/16/19 14:44*	*09/16/19 20:48*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<8.0		8.0		mg/Kg	☼	09/12/19 11:40	09/12/19 16:55	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*102*		*65 - 125*	*09/12/19 11:40*	*09/12/19 16:55*	*50*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	<6.8		6.8		mg/Kg	☼	09/11/19 10:30	09/13/19 06:36	1
C28-C35	<6.8		6.8		mg/Kg	☼	09/11/19 10:30	09/13/19 06:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*87*		*27 - 151*	*09/11/19 10:30*	*09/13/19 06:36*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**57**		28		mg/Kg	☼		10/20/19 17:10	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC-McCarty

Job ID: 400-176031-1

Client Sample ID: SB-79 @ 18'

Date Collected: 09/06/19 16:38
Date Received: 09/10/19 08:57

Lab Sample ID: 400-176031-7

Matrix: Solid
Percent Solids: 76.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00080		0.0060		mg/Kg	☼	09/16/19 14:44	09/16/19 21:15	1
Ethylbenzene	<0.00073		0.0060		mg/Kg	☼	09/16/19 14:44	09/16/19 21:15	1
Toluene	<0.0012		0.0060		mg/Kg	☼	09/16/19 14:44	09/16/19 21:15	1
Xylenes, Total	<0.0023		0.012		mg/Kg	☼	09/16/19 14:44	09/16/19 21:15	1
Naphthalene	<0.0024		0.0060		mg/Kg	☼	09/16/19 14:44	09/16/19 21:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*72 - 122*	*09/16/19 14:44*	*09/16/19 21:15*	*1*
Dibromofluoromethane	*97*		*79 - 123*	*09/16/19 14:44*	*09/16/19 21:15*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*	*09/16/19 14:44*	*09/16/19 21:15*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<7.6		7.6		mg/Kg	☼	09/12/19 11:40	09/12/19 19:07	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*100*		*65 - 125*	*09/12/19 11:40*	*09/12/19 19:07*	*50*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	<6.3		6.3		mg/Kg	☼	09/11/19 10:30	09/13/19 07:02	1
C28-C35	<6.3		6.3		mg/Kg	☼	09/11/19 10:30	09/13/19 07:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*64*		*27 - 151*	*09/11/19 10:30*	*09/13/19 07:02*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<8.1		120		mg/Kg	☼		10/20/19 17:32	5

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC-McCarty

Job ID: 400-176031-1

Client Sample ID: SB-80 @ 10.5'

Date Collected: 09/07/19 09:47
Date Received: 09/10/19 08:57

Lab Sample ID: 400-176031-8

Matrix: Solid
Percent Solids: 81.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00087		0.0065		mg/Kg	☼	09/16/19 14:44	09/16/19 21:41	1
Ethylbenzene	<0.00080		0.0065		mg/Kg	☼	09/16/19 14:44	09/16/19 21:41	1
Toluene	<0.0013		0.0065		mg/Kg	☼	09/16/19 14:44	09/16/19 21:41	1
Xylenes, Total	<0.0025		0.013		mg/Kg	☼	09/16/19 14:44	09/16/19 21:41	1
Naphthalene	<0.0026		0.0065		mg/Kg	☼	09/16/19 14:44	09/16/19 21:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*72 - 122*	*09/16/19 14:44*	*09/16/19 21:41*	*1*
Dibromofluoromethane	*99*		*79 - 123*	*09/16/19 14:44*	*09/16/19 21:41*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*	*09/16/19 14:44*	*09/16/19 21:41*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<6.6		6.6		mg/Kg	☼	09/12/19 11:40	09/12/19 19:32	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*103*		*65 - 125*	*09/12/19 11:40*	*09/12/19 19:32*	*50*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	<5.9		5.9		mg/Kg	☼	09/11/19 10:30	09/13/19 07:14	1
C28-C35	<5.9		5.9		mg/Kg	☼	09/11/19 10:30	09/13/19 07:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*90*		*27 - 151*	*09/11/19 10:30*	*09/13/19 07:14*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<16		240		mg/Kg	☼		10/20/19 17:55	10

Client Sample Results

Client: Stantec Consulting Services Inc
Job ID: 400-176031-1
Project/Site: ElPaso CGP Company, LLC-McCarty

Client Sample ID: SB-80 @ 18'
Lab Sample ID: 400-176031-9
Date Collected: 09/07/19 09:40
Matrix: Solid
Date Received: 09/10/19 08:57
Percent Solids: 85.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00079		0.0059		mg/Kg	☼	09/16/19 14:44	09/16/19 22:08	1
Ethylbenzene	<0.00072		0.0059		mg/Kg	☼	09/16/19 14:44	09/16/19 22:08	1
Toluene	<0.0012		0.0059		mg/Kg	☼	09/16/19 14:44	09/16/19 22:08	1
Xylenes, Total	<0.0022		0.012		mg/Kg	☼	09/16/19 14:44	09/16/19 22:08	1
Naphthalene	<0.0023		0.0059		mg/Kg	☼	09/16/19 14:44	09/16/19 22:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*72 - 122*	*09/16/19 14:44*	*09/16/19 22:08*	*1*
Dibromofluoromethane	*98*		*79 - 123*	*09/16/19 14:44*	*09/16/19 22:08*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*	*09/16/19 14:44*	*09/16/19 22:08*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<5.6		5.6		mg/Kg	☼	09/12/19 11:40	09/12/19 19:59	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*103*		*65 - 125*	*09/12/19 11:40*	*09/12/19 19:59*	*50*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	<5.8		5.8		mg/Kg	☼	09/11/19 10:30	09/13/19 07:27	1
C28-C35	<5.8		5.8		mg/Kg	☼	09/11/19 10:30	09/13/19 07:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*79*		*27 - 151*	*09/11/19 10:30*	*09/13/19 07:27*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<7.6		120		mg/Kg	☼		10/20/19 18:18	5

QC Association Summary

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC-McCarty

Job ID: 400-176031-1

GC/MS VOA

Analysis Batch: 457080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-176031-1	MW-14 @ 9'	Total/NA	Solid	8260B	457143
400-176031-2	MW-14 @ 12'	Total/NA	Solid	8260B	457143
400-176031-3	MW-13 @ 12'	Total/NA	Solid	8260B	457143
400-176031-4	MW-13 @ 17'	Total/NA	Solid	8260B	457143
400-176031-5	SB-78 @ 12'	Total/NA	Solid	8260B	457143
400-176031-6	SB-79 @ 12'	Total/NA	Solid	8260B	457143
400-176031-7	SB-79 @ 18'	Total/NA	Solid	8260B	457143
400-176031-8	SB-80 @ 10.5'	Total/NA	Solid	8260B	457143
400-176031-9	SB-80 @ 18'	Total/NA	Solid	8260B	457143
MB 400-457143/1-A	Method Blank	Total/NA	Solid	8260B	457143
LCS 400-457143/2-A	Lab Control Sample	Total/NA	Solid	8260B	457143
400-175869-A-1-B MS	Matrix Spike	Total/NA	Solid	8260B	457143
400-175869-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	457143

Prep Batch: 457143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-176031-1	MW-14 @ 9'	Total/NA	Solid	5035	
400-176031-2	MW-14 @ 12'	Total/NA	Solid	5035	
400-176031-3	MW-13 @ 12'	Total/NA	Solid	5035	
400-176031-4	MW-13 @ 17'	Total/NA	Solid	5035	
400-176031-5	SB-78 @ 12'	Total/NA	Solid	5035	
400-176031-6	SB-79 @ 12'	Total/NA	Solid	5035	
400-176031-7	SB-79 @ 18'	Total/NA	Solid	5035	
400-176031-8	SB-80 @ 10.5'	Total/NA	Solid	5035	
400-176031-9	SB-80 @ 18'	Total/NA	Solid	5035	
MB 400-457143/1-A	Method Blank	Total/NA	Solid	5035	
LCS 400-457143/2-A	Lab Control Sample	Total/NA	Solid	5035	
400-175869-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
400-175869-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

GC VOA

Analysis Batch: 456640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-176031-1	MW-14 @ 9'	Total/NA	Solid	8015B	456702
400-176031-2	MW-14 @ 12'	Total/NA	Solid	8015B	456702
400-176031-3	MW-13 @ 12'	Total/NA	Solid	8015B	456702
400-176031-4	MW-13 @ 17'	Total/NA	Solid	8015B	456702
400-176031-5	SB-78 @ 12'	Total/NA	Solid	8015B	456702
400-176031-6	SB-79 @ 12'	Total/NA	Solid	8015B	456702
400-176031-7	SB-79 @ 18'	Total/NA	Solid	8015B	456702
400-176031-8	SB-80 @ 10.5'	Total/NA	Solid	8015B	456702
400-176031-9	SB-80 @ 18'	Total/NA	Solid	8015B	456702
MB 400-456702/2-A	Method Blank	Total/NA	Solid	8015B	456702
LCS 400-456702/1-A	Lab Control Sample	Total/NA	Solid	8015B	456702
400-176031-1 MS	MW-14 @ 9'	Total/NA	Solid	8015B	456702
400-176031-1 MSD	MW-14 @ 9'	Total/NA	Solid	8015B	456702

Prep Batch: 456702

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-176031-1	MW-14 @ 9'	Total/NA	Solid	5035	

QC Association Summary

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC-McCarty

Job ID: 400-176031-1

GC VOA (Continued)

Prep Batch: 456702 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-176031-2	MW-14 @ 12'	Total/NA	Solid	5035	
400-176031-3	MW-13 @ 12'	Total/NA	Solid	5035	
400-176031-4	MW-13 @ 17'	Total/NA	Solid	5035	
400-176031-5	SB-78 @ 12'	Total/NA	Solid	5035	
400-176031-6	SB-79 @ 12'	Total/NA	Solid	5035	
400-176031-7	SB-79 @ 18'	Total/NA	Solid	5035	
400-176031-8	SB-80 @ 10.5'	Total/NA	Solid	5035	
400-176031-9	SB-80 @ 18'	Total/NA	Solid	5035	
MB 400-456702/2-A	Method Blank	Total/NA	Solid	5035	
LCS 400-456702/1-A	Lab Control Sample	Total/NA	Solid	5035	
400-176031-1 MS	MW-14 @ 9'	Total/NA	Solid	5035	
400-176031-1 MSD	MW-14 @ 9'	Total/NA	Solid	5035	

GC Semi VOA

Prep Batch: 456398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-176031-1	MW-14 @ 9'	Total/NA	Solid	3546	
400-176031-2	MW-14 @ 12'	Total/NA	Solid	3546	
400-176031-3	MW-13 @ 12'	Total/NA	Solid	3546	
400-176031-4	MW-13 @ 17'	Total/NA	Solid	3546	
400-176031-5	SB-78 @ 12'	Total/NA	Solid	3546	
400-176031-6	SB-79 @ 12'	Total/NA	Solid	3546	
400-176031-7	SB-79 @ 18'	Total/NA	Solid	3546	
400-176031-8	SB-80 @ 10.5'	Total/NA	Solid	3546	
400-176031-9	SB-80 @ 18'	Total/NA	Solid	3546	
MB 400-456398/1-A	Method Blank	Total/NA	Solid	3546	
LCS 400-456398/2-A	Lab Control Sample	Total/NA	Solid	3546	
400-176031-1 MS	MW-14 @ 9'	Total/NA	Solid	3546	
400-176031-1 MSD	MW-14 @ 9'	Total/NA	Solid	3546	

Analysis Batch: 456733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-176031-1	MW-14 @ 9'	Total/NA	Solid	8015B	456398
400-176031-2	MW-14 @ 12'	Total/NA	Solid	8015B	456398
400-176031-3	MW-13 @ 12'	Total/NA	Solid	8015B	456398
400-176031-4	MW-13 @ 17'	Total/NA	Solid	8015B	456398
400-176031-5	SB-78 @ 12'	Total/NA	Solid	8015B	456398
400-176031-6	SB-79 @ 12'	Total/NA	Solid	8015B	456398
400-176031-7	SB-79 @ 18'	Total/NA	Solid	8015B	456398
400-176031-8	SB-80 @ 10.5'	Total/NA	Solid	8015B	456398
400-176031-9	SB-80 @ 18'	Total/NA	Solid	8015B	456398
MB 400-456398/1-A	Method Blank	Total/NA	Solid	8015B	456398
LCS 400-456398/2-A	Lab Control Sample	Total/NA	Solid	8015B	456398
400-176031-1 MS	MW-14 @ 9'	Total/NA	Solid	8015B	456398
400-176031-1 MSD	MW-14 @ 9'	Total/NA	Solid	8015B	456398

HPLC/IC

Leach Batch: 461980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-176031-1	MW-14 @ 9'	Soluble	Solid	DI Leach	

QC Association Summary

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC-McCarty

Job ID: 400-176031-1

HPLC/IC (Continued)

Leach Batch: 461980 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-176031-2	MW-14 @ 12'	Soluble	Solid	DI Leach	
400-176031-3	MW-13 @ 12'	Soluble	Solid	DI Leach	
400-176031-4	MW-13 @ 17'	Soluble	Solid	DI Leach	
400-176031-5	SB-78 @ 12'	Soluble	Solid	DI Leach	
400-176031-6	SB-79 @ 12'	Soluble	Solid	DI Leach	
400-176031-7	SB-79 @ 18'	Soluble	Solid	DI Leach	
400-176031-8	SB-80 @ 10.5'	Soluble	Solid	DI Leach	
400-176031-9	SB-80 @ 18'	Soluble	Solid	DI Leach	
MB 400-461980/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 400-461980/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 400-461980/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
400-176031-1 MS	MW-14 @ 9'	Soluble	Solid	DI Leach	
400-176031-1 MSD	MW-14 @ 9'	Soluble	Solid	DI Leach	

Analysis Batch: 462036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-461980/1-A	Method Blank	Soluble	Solid	300.0	461980
LCS 400-461980/2-A	Lab Control Sample	Soluble	Solid	300.0	461980
LCSD 400-461980/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	461980

Analysis Batch: 462343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-176031-1	MW-14 @ 9'	Soluble	Solid	300.0	461980
400-176031-2	MW-14 @ 12'	Soluble	Solid	300.0	461980
400-176031-3	MW-13 @ 12'	Soluble	Solid	300.0	461980
400-176031-4	MW-13 @ 17'	Soluble	Solid	300.0	461980
400-176031-5	SB-78 @ 12'	Soluble	Solid	300.0	461980
400-176031-6	SB-79 @ 12'	Soluble	Solid	300.0	461980
400-176031-7	SB-79 @ 18'	Soluble	Solid	300.0	461980
400-176031-8	SB-80 @ 10.5'	Soluble	Solid	300.0	461980
400-176031-9	SB-80 @ 18'	Soluble	Solid	300.0	461980
MRL 400-462343/5	Lab Control Sample	Total/NA	Solid	300.0	
400-176031-1 MS	MW-14 @ 9'	Soluble	Solid	300.0	461980
400-176031-1 MSD	MW-14 @ 9'	Soluble	Solid	300.0	461980

General Chemistry

Analysis Batch: 456394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-176031-1	MW-14 @ 9'	Total/NA	Solid	Moisture	
400-176031-2	MW-14 @ 12'	Total/NA	Solid	Moisture	
400-176031-3	MW-13 @ 12'	Total/NA	Solid	Moisture	
400-176031-4	MW-13 @ 17'	Total/NA	Solid	Moisture	
400-176031-5	SB-78 @ 12'	Total/NA	Solid	Moisture	
400-176031-6	SB-79 @ 12'	Total/NA	Solid	Moisture	
400-176031-7	SB-79 @ 18'	Total/NA	Solid	Moisture	
400-176031-8	SB-80 @ 10.5'	Total/NA	Solid	Moisture	
400-176031-9	SB-80 @ 18'	Total/NA	Solid	Moisture	
400-176031-9 DU	SB-80 @ 18'	Total/NA	Solid	Moisture	

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC-McCarty

Job ID: 400-176031-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-457143/1-A
Matrix: Solid
Analysis Batch: 457080

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 457143

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00067		0.0050		mg/Kg		09/16/19 14:44	09/16/19 16:24	1
Ethylbenzene	<0.00061		0.0050		mg/Kg		09/16/19 14:44	09/16/19 16:24	1
Toluene	<0.0010		0.0050		mg/Kg		09/16/19 14:44	09/16/19 16:24	1
Xylenes, Total	<0.0019		0.010		mg/Kg		09/16/19 14:44	09/16/19 16:24	1
Naphthalene	<0.0020		0.0050		mg/Kg		09/16/19 14:44	09/16/19 16:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*72 - 122*	*09/16/19 14:44*	*09/16/19 16:24*	*1*
Dibromofluoromethane	*97*		*79 - 123*	*09/16/19 14:44*	*09/16/19 16:24*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*	*09/16/19 14:44*	*09/16/19 16:24*	*1*

Lab Sample ID: LCS 400-457143/2-A
Matrix: Solid
Analysis Batch: 457080

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 457143

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.0500	0.0463		mg/Kg		93	65 - 130		
Ethylbenzene			0.0500	0.0549		mg/Kg		110	70 - 130		
Toluene			0.0500	0.0533		mg/Kg		107	70 - 130		
Xylenes, Total			0.100	0.106		mg/Kg		106	70 - 130		
Naphthalene			0.0500	0.0390		mg/Kg		78	45 - 144		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*95*		*72 - 122*
Dibromofluoromethane	*96*		*79 - 123*
Toluene-d8 (Surr)	*103*		*80 - 120*

Lab Sample ID: 400-175869-A-1-B MS
Matrix: Solid
Analysis Batch: 457080

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 457143

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<0.00074		0.0587	0.0545		mg/Kg	☼	93	38 - 131		
Ethylbenzene	<0.00068		0.0587	0.0625		mg/Kg	☼	106	35 - 130		
Toluene	<0.0011		0.0587	0.0618		mg/Kg	☼	105	42 - 130		
Xylenes, Total	<0.0021		0.117	0.122		mg/Kg	☼	104	35 - 130		
Naphthalene	<0.0022		0.0587	0.0386		mg/Kg	☼	66	10 - 150		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*98*		*72 - 122*
Dibromofluoromethane	*96*		*79 - 123*
Toluene-d8 (Surr)	*102*		*80 - 120*

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC-McCarty

Job ID: 400-176031-1

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

Lab Sample ID: 400-175869-A-1-C MSD
Matrix: Solid
Analysis Batch: 457080

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 457143

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00074		0.0593	0.0514		mg/Kg	☼	87	38 - 131	6	36
Ethylbenzene	<0.00068		0.0593	0.0576		mg/Kg	☼	97	35 - 130	8	46
Toluene	<0.0011		0.0593	0.0565		mg/Kg	☼	95	42 - 130	9	37
Xylenes, Total	<0.0021		0.119	0.112		mg/Kg	☼	95	35 - 130	8	39
Naphthalene	<0.0022		0.0593	0.0405		mg/Kg	☼	68	10 - 150	5	49

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*72 - 122*
Dibromofluoromethane	*99*		*79 - 123*
Toluene-d8 (Surr)	*101*		*80 - 120*

Method: 8015B - Gasoline Range Organics - (GC)

Lab Sample ID: MB 400-456702/2-A
Matrix: Solid
Analysis Batch: 456640

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 456702

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<0.10		0.10		mg/Kg		09/12/19 11:40	09/12/19 13:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*102*		*65 - 125*	*09/12/19 11:40*	*09/12/19 13:02*	*1*

Lab Sample ID: LCS 400-456702/1-A
Matrix: Solid
Analysis Batch: 456640

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 456702

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
C6-C10			1.00	1.01		mg/Kg		101	62 - 141		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*99*		*65 - 125*

Lab Sample ID: 400-176031-1 MS
Matrix: Solid
Analysis Batch: 456640

Client Sample ID: MW-14 @ 9'
Prep Type: Total/NA
Prep Batch: 456702

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
C6-C10	<7.0		69.7	66.8		mg/Kg	☼	96	10 - 150		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*101*		*65 - 125*

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC-McCarty

Job ID: 400-176031-1

Method: 8015B - Gasoline Range Organics - (GC) (Continued)

Lab Sample ID: 400-176031-1 MSD — **Client Sample ID: MW-14 @ 9'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 456640 — **Prep Batch: 456702**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C6-C10	<7.0		69.7	70.4		mg/Kg	☼	101	10 - 150	5	32

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*102*		*65 - 125*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 400-456398/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 456733 — **Prep Batch: 456398**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	<5.0		5.0		mg/Kg		09/11/19 10:30	09/13/19 04:30	1
C28-C35	<5.0		5.0		mg/Kg		09/11/19 10:30	09/13/19 04:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*75*		*27 - 151*	*09/11/19 10:30*	*09/13/19 04:30*	*1*

Lab Sample ID: LCS 400-456398/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 456733 — **Prep Batch: 456398**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
C10-C28			281	272		mg/Kg		97	63 - 153		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*90*		*27 - 151*

Lab Sample ID: 400-176031-1 MS — **Client Sample ID: MW-14 @ 9'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 456733 — **Prep Batch: 456398**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
C10-C28	<6.2		353	293		mg/Kg	☼	83	62 - 204		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
o-Terphenyl	*87*		*27 - 151*

Lab Sample ID: 400-176031-1 MSD — **Client Sample ID: MW-14 @ 9'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 456733 — **Prep Batch: 456398**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C10-C28	<6.2		353	299		mg/Kg	☼	85	62 - 204	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl	*83*		*27 - 151*

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC-McCarty

Job ID: 400-176031-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MRL 400-462343/5
Matrix: Solid
Analysis Batch: 462343

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	0.934	J	mg/Kg		93			

Lab Sample ID: MB 400-461980/1-A
Matrix: Solid
Analysis Batch: 462036

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.3		20		mg/Kg			10/18/19 08:13	1

Lab Sample ID: LCS 400-461980/2-A
Matrix: Solid
Analysis Batch: 462036

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			97.5	94.9		mg/Kg		97	80 - 120		

Lab Sample ID: LCSD 400-461980/3-A
Matrix: Solid
Analysis Batch: 462036

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			98.4	98.5		mg/Kg		100	80 - 120	4	15

Lab Sample ID: 400-176031-1 MS
Matrix: Solid
Analysis Batch: 462343

Client Sample ID: MW-14 @ 9'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	69	J	124	178	J	mg/Kg	☼	88	80 - 120		

Lab Sample ID: 400-176031-1 MSD
Matrix: Solid
Analysis Batch: 462343

Client Sample ID: MW-14 @ 9'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	69	J	125	174	J	mg/Kg	☼	84	80 - 120	2	15

Lab Chronicle

Client: Stantec Consulting Services Inc
Job ID: 400-176031-1
Project/Site: ElPaso CGP Company, LLC-McCarty

Client Sample ID: MW-14 @ 9'
Lab Sample ID: 400-176031-1
Date Collected: 09/05/19 14:29
Matrix: Solid
Date Received: 09/10/19 08:57

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			456394	09/11/19 10:44	BKG	TAL PEN
	Instrument ID: NOEQUIP									

Client Sample ID: MW-14 @ 9'
Lab Sample ID: 400-176031-1
Date Collected: 09/05/19 14:29
Matrix: Solid
Date Received: 09/10/19 08:57
Percent Solids: 79.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.67 g	5.00 g	457143	09/16/19 14:44	RS	TAL PEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	457080	09/16/19 18:36	RS	TAL PEN
	Instrument ID: CH_TAN									
Total/NA	Prep	5035			5.54 g	5.0 g	456702	09/12/19 11:40	GRK	TAL PEN
Total/NA	Analysis	8015B		50	5 mL	5 mL	456640	09/12/19 14:29	GRK	TAL PEN
	Instrument ID: CH_RITA									
Total/NA	Prep	3546			15.32 g	1 mL	456398	09/11/19 10:30	SHB	TAL PEN
Total/NA	Analysis	8015B		1			456733	09/13/19 05:33	JAW	TAL PEN
	Instrument ID: Eva									
Soluble	Leach	DI Leach			2.542 g	50 mL	461980	10/17/19 13:19	CAC	TAL PEN
Soluble	Analysis	300.0		10			462343	10/20/19 13:44	CAC	TAL PEN
	Instrument ID: IC2									

Client Sample ID: MW-14 @ 12'
Lab Sample ID: 400-176031-2
Date Collected: 09/05/19 13:58
Matrix: Solid
Date Received: 09/10/19 08:57

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			456394	09/11/19 10:44	BKG	TAL PEN
	Instrument ID: NOEQUIP									

Client Sample ID: MW-14 @ 12'
Lab Sample ID: 400-176031-2
Date Collected: 09/05/19 13:58
Matrix: Solid
Date Received: 09/10/19 08:57
Percent Solids: 76.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.8 g	5.00 g	457143	09/16/19 14:44	RS	TAL PEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	457080	09/16/19 19:02	RS	TAL PEN
	Instrument ID: CH_TAN									
Total/NA	Prep	5035			5.73 g	5.0 g	456702	09/12/19 11:40	GRK	TAL PEN
Total/NA	Analysis	8015B		50	5 mL	5 mL	456640	09/12/19 14:48	GRK	TAL PEN
	Instrument ID: CH_RITA									
Total/NA	Prep	3546			15.05 g	1 mL	456398	09/11/19 10:30	SHB	TAL PEN
Total/NA	Analysis	8015B		1			456733	09/13/19 05:46	JAW	TAL PEN
	Instrument ID: Eva									
Soluble	Leach	DI Leach			2.616 g	50 mL	461980	10/17/19 13:19	CAC	TAL PEN
Soluble	Analysis	300.0		10			462343	10/20/19 14:53	CAC	TAL PEN
	Instrument ID: IC2									

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC-McCarty

Job ID: 400-176031-1

Client Sample ID: MW-13 @ 12'
Lab Sample ID: 400-176031-3
Date Collected: 09/06/19 09:55
Matrix: Solid
Date Received: 09/10/19 08:57

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			456394	09/11/19 10:44	BKG	TAL PEN
	Instrument ID: NOEQUIP									

Client Sample ID: MW-13 @ 12'
Lab Sample ID: 400-176031-3
Date Collected: 09/06/19 09:55
Matrix: Solid
Date Received: 09/10/19 08:57
Percent Solids: 83.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.82 g	5.00 g	457143	09/16/19 14:44	RS	TAL PEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	457080	09/16/19 19:29	RS	TAL PEN
	Instrument ID: CH_TAN									
Total/NA	Prep	5035			5.18 g	5.0 g	456702	09/12/19 11:40	GRK	TAL PEN
Total/NA	Analysis	8015B		50	5 mL	5 mL	456640	09/12/19 15:13	GRK	TAL PEN
	Instrument ID: CH_RITA									
Total/NA	Prep	3546			15.56 g	1 mL	456398	09/11/19 10:30	SHB	TAL PEN
Total/NA	Analysis	8015B		1			456733	09/13/19 05:59	JAW	TAL PEN
	Instrument ID: Eva									
Soluble	Leach	DI Leach			2.514 g	50 mL	461980	10/17/19 13:19	CAC	TAL PEN
Soluble	Analysis	300.0		10			462343	10/20/19 15:16	CAC	TAL PEN
	Instrument ID: IC2									

Client Sample ID: MW-13 @ 17'
Lab Sample ID: 400-176031-4
Date Collected: 09/06/19 09:46
Matrix: Solid
Date Received: 09/10/19 08:57

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			456394	09/11/19 10:44	BKG	TAL PEN
	Instrument ID: NOEQUIP									

Client Sample ID: MW-13 @ 17'
Lab Sample ID: 400-176031-4
Date Collected: 09/06/19 09:46
Matrix: Solid
Date Received: 09/10/19 08:57
Percent Solids: 80.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.35 g	5.00 g	457143	09/16/19 14:44	RS	TAL PEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	457080	09/16/19 19:55	RS	TAL PEN
	Instrument ID: CH_TAN									
Total/NA	Prep	5035			5.73 g	5.0 g	456702	09/12/19 11:40	GRK	TAL PEN
Total/NA	Analysis	8015B		50	5 mL	5 mL	456640	09/12/19 15:40	GRK	TAL PEN
	Instrument ID: CH_RITA									
Total/NA	Prep	3546			15.19 g	1 mL	456398	09/11/19 10:30	SHB	TAL PEN
Total/NA	Analysis	8015B		1			456733	09/13/19 06:11	JAW	TAL PEN
	Instrument ID: Eva									
Soluble	Leach	DI Leach			2.550 g	50 mL	461980	10/17/19 13:19	CAC	TAL PEN
Soluble	Analysis	300.0		2			462343	10/20/19 15:38	CAC	TAL PEN
	Instrument ID: IC2									

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC-McCarty

Job ID: 400-176031-1

Client Sample ID: SB-78 @ 12'
Date Collected: 09/06/19 13:13
Date Received: 09/10/19 08:57

Lab Sample ID: 400-176031-5
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			456394	09/11/19 10:44	BKG	TAL PEN
	Instrument ID: NOEQUIP									

Client Sample ID: SB-78 @ 12'
Date Collected: 09/06/19 13:13
Date Received: 09/10/19 08:57

Lab Sample ID: 400-176031-5
Matrix: Solid
Percent Solids: 78.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.57 g	5.00 g	457143	09/16/19 14:44	RS	TAL PEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	457080	09/16/19 20:22	RS	TAL PEN
	Instrument ID: CH_TAN									
Total/NA	Prep	5035			5.29 g	5.0 g	456702	09/12/19 11:40	GRK	TAL PEN
Total/NA	Analysis	8015B		50	5 mL	5 mL	456640	09/12/19 16:41	GRK	TAL PEN
	Instrument ID: CH_RITA									
Total/NA	Prep	3546			15.19 g	1 mL	456398	09/11/19 10:30	SHB	TAL PEN
Total/NA	Analysis	8015B		1			456733	09/13/19 06:24	JAW	TAL PEN
	Instrument ID: Eva									
Soluble	Leach	DI Leach			2.496 g	50 mL	461980	10/17/19 13:19	CAC	TAL PEN
Soluble	Analysis	300.0		10			462343	10/20/19 16:01	CAC	TAL PEN
	Instrument ID: IC2									

Client Sample ID: SB-79 @ 12'
Date Collected: 09/06/19 16:36
Date Received: 09/10/19 08:57

Lab Sample ID: 400-176031-6
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			456394	09/11/19 10:44	BKG	TAL PEN
	Instrument ID: NOEQUIP									

Client Sample ID: SB-79 @ 12'
Date Collected: 09/06/19 16:36
Date Received: 09/10/19 08:57

Lab Sample ID: 400-176031-6
Matrix: Solid
Percent Solids: 72.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.27 g	5.00 g	457143	09/16/19 14:44	RS	TAL PEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	457080	09/16/19 20:48	RS	TAL PEN
	Instrument ID: CH_TAN									
Total/NA	Prep	5035			5.71 g	5.0 g	456702	09/12/19 11:40	GRK	TAL PEN
Total/NA	Analysis	8015B		50	5 mL	5 mL	456640	09/12/19 16:55	GRK	TAL PEN
	Instrument ID: CH_RITA									
Total/NA	Prep	3546			15.18 g	1 mL	456398	09/11/19 10:30	SHB	TAL PEN
Total/NA	Analysis	8015B		1			456733	09/13/19 06:36	JAW	TAL PEN
	Instrument ID: Eva									
Soluble	Leach	DI Leach			2.493 g	50 mL	461980	10/17/19 13:19	CAC	TAL PEN
Soluble	Analysis	300.0		1			462343	10/20/19 17:10	CAC	TAL PEN
	Instrument ID: IC2									

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC-McCarty

Job ID: 400-176031-1

Client Sample ID: SB-79 @ 18'
Lab Sample ID: 400-176031-7
Date Collected: 09/06/19 16:38
Matrix: Solid
Date Received: 09/10/19 08:57

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			456394	09/11/19 10:44	BKG	TAL PEN
	Instrument ID: NOEQUIP									

Client Sample ID: SB-79 @ 18'
Lab Sample ID: 400-176031-7
Date Collected: 09/06/19 16:38
Matrix: Solid
Date Received: 09/10/19 08:57
Percent Solids: 76.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.44 g	5.00 g	457143	09/16/19 14:44	RS	TAL PEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	457080	09/16/19 21:15	RS	TAL PEN
	Instrument ID: CH_TAN									
Total/NA	Prep	5035			5.35 g	5.0 g	456702	09/12/19 11:40	GRK	TAL PEN
Total/NA	Analysis	8015B		50	5 mL	5 mL	456640	09/12/19 19:07	GRK	TAL PEN
	Instrument ID: CH_RITA									
Total/NA	Prep	3546			15.51 g	1 mL	456398	09/11/19 10:30	SHB	TAL PEN
Total/NA	Analysis	8015B		1			456733	09/13/19 07:02	JAW	TAL PEN
	Instrument ID: Eva									
Soluble	Leach	DI Leach			2.613 g	50 mL	461980	10/17/19 13:19	CAC	TAL PEN
Soluble	Analysis	300.0		5			462343	10/20/19 17:32	CAC	TAL PEN
	Instrument ID: IC2									

Client Sample ID: SB-80 @ 10.5'
Lab Sample ID: 400-176031-8
Date Collected: 09/07/19 09:47
Matrix: Solid
Date Received: 09/10/19 08:57

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			456394	09/11/19 10:44	BKG	TAL PEN
	Instrument ID: NOEQUIP									

Client Sample ID: SB-80 @ 10.5'
Lab Sample ID: 400-176031-8
Date Collected: 09/07/19 09:47
Matrix: Solid
Date Received: 09/10/19 08:57
Percent Solids: 81.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.68 g	5.00 g	457143	09/16/19 14:44	RS	TAL PEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	457080	09/16/19 21:41	RS	TAL PEN
	Instrument ID: CH_TAN									
Total/NA	Prep	5035			5.59 g	5.0 g	456702	09/12/19 11:40	GRK	TAL PEN
Total/NA	Analysis	8015B		50	5 mL	5 mL	456640	09/12/19 19:32	GRK	TAL PEN
	Instrument ID: CH_RITA									
Total/NA	Prep	3546			15.55 g	1 mL	456398	09/11/19 10:30	SHB	TAL PEN
Total/NA	Analysis	8015B		1			456733	09/13/19 07:14	JAW	TAL PEN
	Instrument ID: Eva									
Soluble	Leach	DI Leach			2.498 g	50 mL	461980	10/17/19 13:19	CAC	TAL PEN
Soluble	Analysis	300.0		10			462343	10/20/19 17:55	CAC	TAL PEN
	Instrument ID: IC2									

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC-McCarty

Job ID: 400-176031-1

Client Sample ID: SB-80 @ 18'

Date Collected: 09/07/19 09:40
Date Received: 09/10/19 08:57

Lab Sample ID: 400-176031-9
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			456394	09/11/19 10:44	BKG	TAL PEN
	Instrument ID: NOEQUIP									

Client Sample ID: SB-80 @ 18'

Date Collected: 09/07/19 09:40
Date Received: 09/10/19 08:57

Lab Sample ID: 400-176031-9
Matrix: Solid
Percent Solids: 85.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5.00 g	457143	09/16/19 14:44	RS	TAL PEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	457080	09/16/19 22:08	RS	TAL PEN
	Instrument ID: CH_TAN									
Total/NA	Prep	5035			6.18 g	5.0 g	456702	09/12/19 11:40	GRK	TAL PEN
Total/NA	Analysis	8015B		50	5 mL	5 mL	456640	09/12/19 19:59	GRK	TAL PEN
	Instrument ID: CH_RITA									
Total/NA	Prep	3546			15.10 g	1 mL	456398	09/11/19 10:30	SHB	TAL PEN
Total/NA	Analysis	8015B		1			456733	09/13/19 07:27	JAW	TAL PEN
	Instrument ID: Eva									
Soluble	Leach	DI Leach			2.510 g	50 mL	461980	10/17/19 13:19	CAC	TAL PEN
Soluble	Analysis	300.0		5			462343	10/20/19 18:18	CAC	TAL PEN
	Instrument ID: IC2									

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: 400-176031-1
Project/Site: ElPaso CGP Company, LLC-McCarty

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	07-01-20
ANAB	ISO/IEC 17025	L2471	02-22-20
Arizona	State	AZ0710	01-12-20
Arkansas DEQ	State	88-0689	09-01-20
California	State	2510	07-01-20
Florida	NELAP	E81010	06-30-20
Georgia	State	E81010(FL)	06-30-20
Iowa	State	367	08-01-20
Iowa	State Program	367	08-01-20
Kansas	NELAP	E-10253	08-16-20
Kentucky (UST)	State	53	06-30-20
Kentucky (UST)	State Program	53	06-30-20
Kentucky (WW)	State	KY98030	12-30-19
Louisiana	NELAP	30976	06-30-20
Louisiana	NELAP	30976	06-30-20
Louisiana (DW)	NELAP	LA017	12-31-19
Louisiana (DW)	State	<cert No.>	12-31-19
Maryland	State	233	09-30-20
Massachusetts	State	M-FL094	06-30-20
Michigan	State	9912	05-06-20
Minnesota	NELAP	012-999-481	12-31-19
New Jersey	NELAP	FL006	07-30-20
North Carolina (WW/SW)	State	314	12-31-19
North Carolina (WW/SW)	State Program	314	12-31-19
Oklahoma	State	9810-186	08-31-20
Pennsylvania	NELAP	68-00467	01-31-20
Rhode Island	State	LAO00307	12-30-19
Rhode Island	State Program	LAO00307	12-30-19
South Carolina	State	96026002	06-30-20
South Carolina	State Program	96026	06-30-20
Tennessee	State	TN02907	06-30-20
Texas	NELAP	T104704286	09-30-20
US Fish & Wildlife	Federal	LE058448-0	07-31-20
US Fish & Wildlife	US Federal Programs	LE058448	06-07-20
USDA	Federal	P330-18-00148	05-17-21
USDA	US Federal Programs	P330-18-00148	05-17-21
Virginia	NELAP	460166	06-14-20
Washington	State	C915	05-15-20
West Virginia DEP	State	136	06-30-20

Method Summary

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC-McCarty

Job ID: 400-176031-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PEN
8015B	Gasoline Range Organics - (GC)	SW846	TAL PEN
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PEN
300.0	Anions, Ion Chromatography	MCAWW	TAL PEN
Moisture	Percent Moisture	EPA	TAL PEN
3546	Microwave Extraction	SW846	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

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

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: C. HIATT	Lab PM: Webb, Carol M	Carrier Tracking No(s):	COC No: 400-86535-32368.1
Client Contact: Ms. Sarah Gardner	Phone: 915-707-3276	E-Mail: carol.webb@testamericainc.com		Page: Page 1 of 2 OF 1
Company: Stantec Consulting Services Inc				Job #: 193707083
Address: 1560 Broadway Suite 1800	Due Date Requested:			
City: Denver	TAT Requested (days): STANDARD			
State, Zip: CO, 80202				
Phone: 303-291-2239(Tel)	PO #: See Project Notes			
Email: sarah.gardner@stantec.com	WO #:			
Project Name: Jaquez.00- Soil	Project #: 40005479			
Site: JAQUEZ - MCCARTY RESIDENCE	SSOW#:			

Analysis Requested

400-176031 COC

Preservation Codes:

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

Other:

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)	8015B_DRO - DRO, ORO	325.2 - Chloride	8260B - BTEXN	8015B_GRO - GRO	8260C - BTEX 8260	8015B_DRO - DRO C10-C28 / ORO (SGT)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N	N	N		
MW-14 @ 9'	9/5/19	1429	G	Solid			X	X	X	X	X	X	2	
MW-14 @ 12'	9/5/19	1358		Solid			X	X	X	X	X	X	2	
MW-13 @ 12'	9/6/19	0955		Solid			X	X	X	X	X	X	2	
MW-13 @ 17'	9/6/19	0946		Solid			X	X	X	X	X	X	2	
SB-78 @ 12'	9/6/19	1313		Solid			X	X	X	X	X	X	2	
SB-79 @ 12'	9/6/19	1636		Water			X	X	X	X	X	X	2	
SB-79 @ 18'	9/6/19	1638		Soil			X	X	X	X	X	X	2	
SB-80 @ 10.5'	9/7/19	0947		Soil			X	X	X	X	X	X	2	
SB-80 @ 18'	9/7/19	0940		Solid			X	X	X	X	X	X	2	
				Solid										
				Solid										

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
[signature] / STANTEC	9/8/19 2123	STANTEC	[signature]	9-10-19 857	FTA PEW
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: △ Yes △ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 0.5°C IR8

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc Job Number: 400-176031-1

Login Number: 176031 **List Source: Eurofins TestAmerica, Pensacola**
List Number: 1
Creator: Hinrichsen, Megan E

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	0.5°C IR-8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	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").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

APPENDIX F

Groundwater Analytical Report

Stantec

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

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

Laboratory Job ID: 400-176198-1
Client Project/Site: El Paso CGP Company LLC - Jaquez

For:
Stantec Consulting Services Inc
1560 Broadway
Suite 1800
Denver, Colorado 80202

Attn: Ms. Sarah Gardner

Carol M Webb

Authorized for release by:
9/25/2019 4:33:51 PM

Carol Webb, Project Manager II
(850)471-6250
carol.webb@testamericainc.com

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company LLC - Jaquez

Laboratory Job ID: 400-176198-1

Table of Contents

Definitions/Glossary

Client: Stantec Consulting Services Inc Job ID: 400-176198-1
Project/Site: El Paso CGP Company LLC - Jaquez

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Case Narrative

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company LLC - Jaquez

Job ID: 400-176198-1

Job ID: 400-176198-1

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

Job Narrative
400-176198-1

Comments
No additional comments.

Receipt
The samples were received on 9/12/2019 9:17 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.8º C.

GC/MS VOA
Method 8260C: Surrogate recovery for the following sample was outside the upper control limit: MW-13 (400-176198-1). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

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

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

Detection Summary

Client: Stantec Consulting Services Inc Job ID: 400-176198-1
Project/Site: El Paso CGP Company LLC - Jaquez

Client Sample ID: MW-13 Lab Sample ID: 400-176198-1

No Detections.

Client Sample ID: MW-14 Lab Sample ID: 400-176198-2

No Detections.

Client Sample ID: DUP-1 Lab Sample ID: 400-176198-3

No Detections.

Client Sample ID: TRIP BLANK Lab Sample ID: 400-176198-4

No Detections.

This Detection Summary does not include radiochemical test results.

Sample Summary

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company LLC - Jaquez

Job ID: 400-176198-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
400-176198-1	MW-13	Water	09/11/19 08:30	09/12/19 09:17	
400-176198-2	MW-14	Water	09/11/19 08:45	09/12/19 09:17	
400-176198-3	DUP-1	Water	09/11/19 08:00	09/12/19 09:17	
400-176198-4	TRIP BLANK	Water	09/11/19 08:15	09/12/19 09:17	

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company LLC - Jaquez

Job ID: 400-176198-1

Client Sample ID: MW-13
Date Collected: 09/11/19 08:30
Date Received: 09/12/19 09:17

Lab Sample ID: 400-176198-1
Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			09/22/19 19:50	1
Toluene	<1.0		1.0		ug/L			09/22/19 19:50	1
Ethylbenzene	<1.0		1.0		ug/L			09/22/19 19:50	1
Xylenes, Total	<10		10		ug/L			09/22/19 19:50	1
Naphthalene	<1.0		1.0		ug/L			09/22/19 19:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*89*		*78 - 118*		*09/22/19 19:50*	*1*
Dibromofluoromethane	*123*	*X*	*81 - 121*		*09/22/19 19:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*118*		*67 - 134*		*09/22/19 19:50*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company LLC - Jaquez

Job ID: 400-176198-1

Client Sample ID: MW-14
Date Collected: 09/11/19 08:45
Date Received: 09/12/19 09:17

Lab Sample ID: 400-176198-2
Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			09/22/19 20:12	1
Toluene	<1.0		1.0		ug/L			09/22/19 20:12	1
Ethylbenzene	<1.0		1.0		ug/L			09/22/19 20:12	1
Xylenes, Total	<10		10		ug/L			09/22/19 20:12	1
Naphthalene	<1.0		1.0		ug/L			09/22/19 20:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*88*		*78 - 118*		*09/22/19 20:12*	*1*
Dibromofluoromethane	*121*		*81 - 121*		*09/22/19 20:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*122*		*67 - 134*		*09/22/19 20:12*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Job ID: 400-176198-1
Project/Site: El Paso CGP Company LLC - Jaquez

Client Sample ID: DUP-1
Lab Sample ID: 400-176198-3
Date Collected: 09/11/19 08:00
Matrix: Water
Date Received: 09/12/19 09:17

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			09/22/19 20:34	1
Toluene	<1.0		1.0		ug/L			09/22/19 20:34	1
Ethylbenzene	<1.0		1.0		ug/L			09/22/19 20:34	1
Xylenes, Total	<10		10		ug/L			09/22/19 20:34	1
Naphthalene	<1.0		1.0		ug/L			09/22/19 20:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*87*		*78 - 118*		*09/22/19 20:34*	*1*
Dibromofluoromethane	*118*		*81 - 121*		*09/22/19 20:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*118*		*67 - 134*		*09/22/19 20:34*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company LLC - Jaquez

Job ID: 400-176198-1

Client Sample ID: TRIP BLANK

Date Collected: 09/11/19 08:15
Date Received: 09/12/19 09:17

Lab Sample ID: 400-176198-4

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			09/22/19 16:32	1
Toluene	<1.0		1.0		ug/L			09/22/19 16:32	1
Ethylbenzene	<1.0		1.0		ug/L			09/22/19 16:32	1
Xylenes, Total	<10		10		ug/L			09/22/19 16:32	1
Naphthalene	<1.0		1.0		ug/L			09/22/19 16:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*78 - 118*		*09/22/19 16:32*	*1*
Dibromofluoromethane	*121*		*81 - 121*		*09/22/19 16:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*117*		*67 - 134*		*09/22/19 16:32*	*1*

QC Association Summary

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company LLC - Jaquez

Job ID: 400-176198-1

GC/MS VOA

Analysis Batch: 458102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-176198-1	MW-13	Total/NA	Water	8260C	
400-176198-2	MW-14	Total/NA	Water	8260C	
400-176198-3	DUP-1	Total/NA	Water	8260C	
400-176198-4	TRIP BLANK	Total/NA	Water	8260C	
MB 400-458102/23	Method Blank	Total/NA	Water	8260C	
LCS 400-458102/1002	Lab Control Sample	Total/NA	Water	8260C	
400-176698-A-1 MS	Matrix Spike	Total/NA	Water	8260C	
400-176698-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260C	

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company LLC - Jaquez

Job ID: 400-176198-1

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

Lab Sample ID: MB 400-458102/23
Matrix: Water
Analysis Batch: 458102

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			09/22/19 14:42	1
Toluene	<1.0		1.0		ug/L			09/22/19 14:42	1
Ethylbenzene	<1.0		1.0		ug/L			09/22/19 14:42	1
Xylenes, Total	<10		10		ug/L			09/22/19 14:42	1
Naphthalene	<1.0		1.0		ug/L			09/22/19 14:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*78 - 118*		*09/22/19 14:42*	*1*
Dibromofluoromethane	*119*		*81 - 121*		*09/22/19 14:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*119*		*67 - 134*		*09/22/19 14:42*	*1*

Lab Sample ID: LCS 400-458102/1002
Matrix: Water
Analysis Batch: 458102

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			50.0	40.6		ug/L		81	70 - 130		
Toluene			50.0	40.0		ug/L		80	70 - 130		
Ethylbenzene			50.0	42.5		ug/L		85	70 - 130		
Xylenes, Total			100	88.7		ug/L		89	70 - 130		
Naphthalene			50.0	42.0		ug/L		84	47 - 149		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*89*		*78 - 118*
Dibromofluoromethane	*117*		*81 - 121*
1,2-Dichloroethane-d4 (Surr)	*113*		*67 - 134*

Lab Sample ID: 400-176698-A-1 MS
Matrix: Water
Analysis Batch: 458102

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	0.000		50.0	47.6		ug/L		95	56 - 142		
Toluene	0.000		50.0	45.5		ug/L		91	65 - 130		
Ethylbenzene	0.000		50.0	49.3		ug/L		99	58 - 131		
Xylenes, Total	0.000		100	103		ug/L		103	59 - 130		
Naphthalene	0.514		50.0	41.7		ug/L		83	25 - 150		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*88*		*78 - 118*
Dibromofluoromethane	*119*		*81 - 121*
1,2-Dichloroethane-d4 (Surr)	*112*		*67 - 134*

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company LLC - Jaquez

Job ID: 400-176198-1

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

Lab Sample ID: 400-176698-A-1 MSD
Matrix: Water
Analysis Batch: 458102

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.000		50.0	45.1		ug/L		90	56 - 142	6	30
Toluene	0.000		50.0	42.6		ug/L		85	65 - 130	6	30
Ethylbenzene	0.000		50.0	44.9		ug/L		90	58 - 131	9	30
Xylenes, Total	0.000		100	93.8		ug/L		94	59 - 130	10	30
Naphthalene	0.514		50.0	40.7		ug/L		81	25 - 150	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*86*		*78 - 118*
Dibromofluoromethane	*121*		*81 - 121*
1,2-Dichloroethane-d4 (Surr)	*118*		*67 - 134*

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company LLC - Jaquez

Job ID: 400-176198-1

Client Sample ID: MW-13
Date Collected: 09/11/19 08:30
Date Received: 09/12/19 09:17

Lab Sample ID: 400-176198-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	458102	09/22/19 19:50	BSW	TAL PEN
	Instrument ID: CH_LARS									

Client Sample ID: MW-14
Date Collected: 09/11/19 08:45
Date Received: 09/12/19 09:17

Lab Sample ID: 400-176198-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	458102	09/22/19 20:12	BSW	TAL PEN
	Instrument ID: CH_LARS									

Client Sample ID: DUP-1
Date Collected: 09/11/19 08:00
Date Received: 09/12/19 09:17

Lab Sample ID: 400-176198-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	458102	09/22/19 20:34	BSW	TAL PEN
	Instrument ID: CH_LARS									

Client Sample ID: TRIP BLANK
Date Collected: 09/11/19 08:15
Date Received: 09/12/19 09:17

Lab Sample ID: 400-176198-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	458102	09/22/19 16:32	BSW	TAL PEN
	Instrument ID: CH_LARS									

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

Accreditation/Certification Summary

Client: Stantec Consulting Services Inc
Job ID: 400-176198-1
Project/Site: El Paso CGP Company LLC - Jaquez

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	07-01-20
Alabama	State Program	40150	06-30-20
ANAB	ISO/IEC 17025	L2471	02-22-20
ANAB	ISO/IEC 17025	L2471	02-22-20
Arizona	State	AZ0710	01-12-20
Arizona	State Program	AZ0710	01-12-20
Arkansas DEQ	State	88-0689	09-01-20
Arkansas DEQ	State Program	88-0689	09-01-20
California	State	2510	07-01-20
California	State Program	2510	06-30-20
Florida	NELAP	E81010	06-30-20
Florida	NELAP	E81010	06-30-20
Georgia	State	E81010(FL)	06-30-20
Georgia	State Program	E81010 (FL)	06-30-20
Illinois	NELAP	200041	10-09-19
Illinois	NELAP	004586	10-09-19
Iowa	State Program	367	08-01-20
Kansas	NELAP	E-10253	10-31-19
Kansas	NELAP	E-10253	08-16-20
Kentucky (UST)	State Program	53	06-30-20
Kentucky (WW)	State	93030	12-30-19
Kentucky (WW)	State Program	98030	12-31-19
Louisiana	NELAP	30976	06-30-20
Louisiana (DW)	NELAP	LA017	12-31-19
Maryland	State	233	09-30-20
Maryland	State Program	233	09-30-20
Massachusetts	State	M-FL094	06-30-20
Massachusetts	State Program	M-FL094	06-30-20
Michigan	State	9912	05-06-20
Michigan	State Program	9912	05-06-20
Minnesota	NELAP	012-999-481	12-31-19
Minnesota	NELAP	012-999-481	12-31-19
New Jersey	NELAP	FL006	06-30-20
New Jersey	NELAP	FL006	07-30-20
North Carolina (WW/SW)	State Program	314	12-31-19
Oklahoma	State	9810-186	08-31-20
Oklahoma	State Program	9810	08-31-20
Pennsylvania	NELAP	68-00467	01-31-20
Pennsylvania	NELAP	68-00467	01-31-20
Rhode Island	State Program	LAO00307	12-30-19
South Carolina	State Program	96026	06-30-20
Tennessee	State	TN02907	06-30-20
Tennessee	State Program	TN02907	06-30-20
Texas	NELAP	T104704286-18-15	09-30-20
Texas	NELAP	T104704286	09-30-19
US Fish & Wildlife	Federal	LE058448-0	07-31-20
USDA	Federal	P330-18-00148	05-17-21
Virginia	NELAP	460166	06-14-20
Virginia	NELAP	460166	06-14-20
Washington	State	C915	05-15-20

Accreditation/Certification Summary

Client: Stantec Consulting Services Inc Job ID: 400-176198-1
Project/Site: El Paso CGP Company LLC - Jaquez

Laboratory: Eurofins TestAmerica, Pensacola (Continued)

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

Authority	Program	Identification Number	Expiration Date
Washington	State Program	C915	05-15-20
West Virginia DEP	State	136	09-30-19
West Virginia DEP	State Program	136	09-30-19

Method Summary

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company LLC - Jaquez

Job ID: 400-176198-1

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

Protocol References:

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

Laboratory References:

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

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

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: Sarah Gardner	Lab PM: Webb, Carol M	Carrier Tracking No(s):	COC No: 400-86536-32370.1
Client Contact: Ms. Sarah Gardner	Phone: 303 291 2239	E-Mail: carol.webb@testamericainc.com		Page: Page 1 of 1
Company: Stantec Consulting Services Inc				Job #:

Address: 1560 Broadway Suite 1800	Due Date Requested:	Analysis Requested	Preservation Codes:
City: Denver	TAT Requested (days): Standard		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)
State, Zip: CO, 80202	PO #: See Project Notes		
Phone: 303-291-2239(Tel)	WO #:		Other:
Email: sarah.gardner@stantec.com	Project #: 40005479		
Project Name: Jaquez.00- Water	SSOW#:		
Site: Jaquez			

400-176198 COC

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - BTEXN 8260	8260C - BTEX 8260	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	A		
MW-13	9/11/19	830	G	Water	N	N	3	3		
MW-14	9/11/19	845	G	Water	N	N	3	3		
DUP-1	9/11/19	800	G	Water	N	N	3	3		
Trip Blank	9/11/19	815	—	Water	N	N	3	3		
				~~Water~~						
				~~Water~~						

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

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

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

Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time: 9/11/19 1315	Company Stantec	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 9.12.19 9:17	Company

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

Cooler Temperature(s) °C and Other Remarks: 3.8° IR

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc Job Number: 400-176198-1

Login Number: 176198 **List Source: Eurofins TestAmerica, Pensacola**
List Number: 1
Creator: Hinrichsen, Megan E

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.8°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)	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	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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

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

CONDITIONS

Action 24369

CONDITIONS

Operator:	OGRID:
El Paso Natural Gas Company, L.L.C 1001 Louisiana Street Houston, TX 77002	7046
	Action Number: 24369
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Accepted for the record. Please see App ID 94956 for most updated status.	5/18/2023