

2020 ANNUAL GROUNDWATER REPORT

Johnston Fed #4
Incident Number: nAUTOfAB000305
NMOCD Case #: 3RP-201-0
Meter Code: 70194
T31N, R09W, Sec 27, Unit N

SITE DETAILS

Site Location: Latitude: 36.862800 N, Longitude: -107.771983 W
Land Type: Private/Fee
Operator: Hilcorp Energy

SITE BACKGROUND

Environmental Remediation activities at Johnston Fed #4 (Site) are managed pursuant to the procedures set forth in the document entitled, "*Remediation Plan for Groundwater Encountered During Pit Closure Activities*" (Remediation Plan, El Paso Natural Gas Company / El Paso Field Services Company, 1995). This Remediation Plan was conditionally approved by the New Mexico Oil Conservation Division (NMOCD) in correspondence dated November 30, 1995; and the NMOCD approval conditions were adopted into El Paso CGP Company (EPCGP's) program methods. Currently, the Site is operated by Hilcorp Energy and is active.

The Site is located on Private/Fee land. An initial site assessment was completed in August 1994, and an excavation of 60 cubic yards (cy) to a depth of approximately 12 feet below ground surface (bgs) was completed in September 1994. Monitoring wells were installed in 1995 (MW-1, MW-2, MW-3), 2006 (MW-4, TMW-5), 2013 (MW-6 through MW-12) and 2014 (MW-13 through MW-20). Test wells were installed in 2018 (TW-1, TW-2, and SVE-1). Temporary monitoring well TMW-5 was plugged and abandoned in 2014. The location of the Site is depicted on Figure 1. A Site Plan map depicting the locations of monitoring wells and current and historical site features is provided as Figure 2. Free product has been observed at the site and is periodically recovered. Mobile dual-phase extraction (MDPE) events to enhance free product recovery were conducted in 2016 and 2018 to help abate free product. Currently, groundwater sampling is conducted from selected monitoring wells on a semi-annual basis.

WELL INSTALLATION ACTIVITIES

Monitoring and remediation well installation activities were conducted from April 13 to May 10, 2020 in accordance with the April 8, 2020 *Well Installation Activities Workplan*. NMOCD was notified of the planned start of these activities via email on April 8, 2020 (Appendix A). The proposed well locations were staked during a previous mobilization prior to completion of New Mexico 811 locates. Prior to advancement of drill augers, each well location was also cleared to a depth of up to 8 feet bgs using hydro-vacuum methods to confirm the absence of subsurface utilities or other obstructions.

Three monitoring wells (MW-21 through MW-23) were installed to better characterize the dissolved-phase hydrocarbons at the site. Seven soil vapor extraction (SVE) wells (SVE-2 through SVE-8) and twenty air sparge (AS) wells (AS-3 through AS-22) were installed to facilitate future active remediation through AS and SVE methods. Following completion, the ground surface and top-of-casing (TOC) elevations for the new monitoring wells were surveyed by Stantec.

Monitoring wells MW-21 through MW-23 were constructed of 2-inch-diameter, Schedule 40, 0.010-slot polyvinyl chloride (PVC) screen and 2-inch-diameter, Schedule 40 PVC riser casing. For each monitoring well, a 20-foot screen was installed to intersect the groundwater surface and provide sufficient water column for sample collection. Total depths of the monitoring wells ranged from 59 feet bgs

1. Complete groundwater monitoring events on a semi-annual basis
2. OCD approves the planned air sparge and soil vapor extraction piping to be used as part of an AS/SVE system in 2021.
3. Submit the work plan detailing the aforementioned activities
4. Complete a survey of the final well locations and system layout
5. Until the remediation system is operating, manual recovery of free product is to be continued on a quarterly basis from monitoring wells where measurable free product is present

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(MW-22) to 61 feet bgs (MW-21). The riser casing for each monitoring well was installed from the top of the screen to approximately 2.5 feet above the ground surface. The annular space adjacent to the well screen was filled with silica sand from the bottom of the borehole to 2 feet above the top of the screen. Three feet of hydrated bentonite chips were placed above the sand pack to prevent downward migration of surface water. Bentonite grout was placed above the bentonite chips to 6 inches below the bottom of the well vault. Lockable, stick-up completions were installed over each monitoring well and at least 3 concrete-filled bollards were installed around each monitoring well to prevent vehicular damage.

Each SVE well was constructed to a maximum depth of 49-feet bgs. SVE well SVE-2 was completed with 13 feet of screen, while the remaining SVE wells were completed with 10 feet of PVC screen. Each SVE screen was constructed with 4-inch diameter, schedule 40 PVC, with 0.02-inch slots. The annular space adjacent to each screen was filled with silica sand from the bottom of the borehole to 1 foot above the top of the screen. A three-foot layer of hydrated bentonite chips was placed above the top of the sand. Bentonite grout was placed above the chips to approximately 3 feet bgs. The remaining annular space was filled with sand and native fill. A lockable compression cap was placed on the top of each well casing. With the exception of SVE-2, newly installed SVE wells are located within wire fencing south of the Hilcorp operations, pending connection to conveyance piping during future system installation activities. SVE-2 was installed below grade, buried with a steel plate over the stickup for protection, and staked for location during future system installation activities.

Each AS well was constructed up to 65-feet bgs, with up to 5 feet of 2-inch diameter, Schedule 40, 0.02-slot PVC screen. The annular space adjacent to each AS screen was filled with silica sand from the bottom of the borehole to 3 feet above the top of the screen. Five feet of hydrated bentonite chips were placed above the sand to provide a seal prior to placing grout. Bentonite grout was placed above the seal to approximately 3-feet bgs. The remaining annular space was filled with sand and native fill. A lockable compression cap was placed on the top of each well casing. With the exception of AS-3 through AS-7, the newly constructed AS wells are located within wire fencing installed south of the Hilcorp operations, pending connection to conveyance piping during future system installation activities. AS-3 through AS-7 were installed below grade, buried with a steel plate over each stickup for protection, and staked for location during future system installation activities.

During advancement of each monitoring well, soil sampling was conducted continuously to the termination depth of the soil boring to assess potential hydrocarbon impacts at each location. One soil sample per boring, selected by highest photoionization detector (PID) response (or directly above field-apparent water table) was collected and placed in laboratory-provided 4-ounce jars and shipped on ice under standard chain-of-custody protocol to Eurofins Test America (Eurofins) in Pensacola, Florida. The samples were analyzed for the presence of benzene, toluene, ethylbenzene, and total xylenes (BTEX) by United States Environmental Protection Agency (EPA) Method SW846 8021B; gasoline-range organics, diesel-range organics, and oil-range organics by EPA Method 8015M; and chlorides by EPA Method 300.

During advancement of each AS well, each borehole was blind drilled to a depth of 45 feet bgs, at which point continuous soil sampling was completed to the termination of the boring. This soil sampling was completed to log lithology and field screen soil samples between the expected field-apparent water table to the screened intervals. No soil samples were retained for laboratory analysis.

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During advancement of each SVE well, each borehole was blind drilled to a depth of 24 feet bgs, at which point continuous soil sampling was completed to the termination depth of the boring. This soil sampling was completed to log lithology and field screen soil samples immediately above and within the planned screened intervals. No soil samples were retained for laboratory analysis.

The borehole logs and well construction diagrams for the monitoring wells are provided in Appendix B. Monitoring well development was performed using well swab surging and pumping until sediment had been removed and visibly clear water was observed. Following development activities, HydraSleeve™ (HydraSleeve) sampling bags were set in the well approximately 5 feet below the water table. The well swab and down-hole pump were decontaminated between wells.

The borehole logs and well construction diagrams for each of the newly completed AS and SVE well are provided in Appendix B. No development was completed on the SVE wells. AS well development was performed using a well swab and down-hole pump for at least one well volume to confirm grout was not present in the screened interval.

Development and decontamination water were containerized and transported to Basin Disposal, Inc. (Basin) in Bloomfield, New Mexico for disposal. A copy of the wastewater disposal documentation is included in Appendix C. Soil cuttings were loaded into lined roll-offs staged at the Site, which were removed as filled and disposed of at Envirotech, Inc. (Envirotech), located south of Bloomfield, New Mexico. Envirotech's soil disposal documentation is contained in Appendix D.

GROUNDWATER SAMPLING ACTIVITIES

Pursuant to the Remediation Plan, Stantec provided field work notifications via electronic mail (email) to the NMOCD on May 5, 2020 and November 5, 2020, prior to initiating groundwater sampling activities at the Site. Copies of the 2020 NMOCD notifications are provided in Appendix A.

Groundwater monitoring and sampling was completed on May 17 and November 13, 2020. Water levels were gauged at monitoring wells MW-1 through MW-4, and MW-6 through MW-23, during both events. During both sampling events, monitoring wells MW-6, MW-9, MW-13 through MW-20 and MW-23 were sampled. In May 2020, a groundwater sample was also collected from MW-21. In November 2020, MW-2, MW-4, MW-10, and MW-12 were also sampled. Groundwater samples were not collected from MW-1, MW-3, MW-7, MW-8, MW-11, MW-21 (November only), and MW-22 in 2020 due to the presence of free product. Groundwater samples were collected from selected monitoring wells using HydraSleeve no-purge groundwater sampling devices. The HydraSleeves were set during the previous sampling event using a suspension tether and stainless-steel weights. The HydraSleeves were positioned to collect a sample from the screened interval by setting the bottom of the sleeve approximately 0.5 foot above the bottom of the well screen.

Groundwater samples were placed into laboratory-supplied sample containers, packed on ice, and shipped under standard chain-of-custody protocols to Eurofins where they were analyzed for BTEX using EPA Method 8260. One laboratory-supplied trip blank and one blind field duplicate were also collected during each groundwater sampling event.

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The unused sample water was combined in a waste container and transported to Basin in Bloomfield, New Mexico for disposal. Waste disposal documentation is included in Appendix C.

FREE PRODUCT RECOVERY

As documented in EPCGP's letter dated January 5, 2021, EPCGP initiated quarterly free product recovery activities beginning in the second calendar quarter of 2020. Documentation of NMOCD notification of site activities is provided in Appendix A.

Free product was observed and recovered in monitoring wells MW-1, MW-3, MW-7, MW-8, MW-11, and MW-22 during all three events in 2020. In November 2020, free product was also observed in MW-21.

In May 2020, the measured free product thicknesses and recovered free product volumes were as follows: 0.02 feet at MW-1 and < 0.01 gallons recovered, 0.16 feet at MW-3 and 0.11 gallons recovered, 0.88 feet at MW-7 and 0.39 gallons recovered, 1.18 feet at MW-8 and 0.82 gallons recovered, 0.77 feet at MW-11 and 0.42 gallons recovered and 0.01 feet at MW-22 and < 0.01 gallons recovered. In August 2020, the measured free products thicknesses and recovered free product volumes were as follows: 0.01 feet at MW-1 and < 0.01 gallons recovered, 0.10 feet at MW-3 and 0.03 gallons recovered, 0.88 feet at MW-7 and 0.31 gallons recovered, 1.23 feet at MW-8 and 0.77 gallons recovered, 0.08 feet at MW-11 and 0.06 gallons recovered and 0.39 feet at MW-22 and 0.03 gallons recovered. In November 2020, the measured free products thicknesses and recovered free product volumes were as follows: 0.01 feet at MW-1 and < 0.01 gallons recovered, 0.02 feet at MW-3 and < 0.01 gallons recovered, 0.91 feet at MW-7 and 0.28 gallons recovered, 1.17 feet at MW-8 and 0.69 gallons recovered, 0.01 feet at MW-11 and < 0.01 gallons recovered, 0.45 feet at MW-21 and 0.59 gallons recovered and 0.16 feet at MW-22 and 0.05 gallons recovered.

Free product was recovered by hand-bailing. During the groundwater sampling site visits, the recovered free product was disposed of with wastewater generated during the monitoring well sampling activities. Recovered free product from the August site visit was also transported for disposal at Basin Disposal, Inc. (Basin) in Bloomfield, New Mexico. (Appendix C).

SUMMARY TABLES

Historic groundwater analytical results and well gauging data are summarized in Tables 1 and 2, respectively. Free product recovery data is summarized on Table 3. Historical soil analytical results are summarized on Table 4.

SITE MAPS

Groundwater analytical maps (Figures 3 and 5) and groundwater elevation contour maps (Figures 4 and 6) summarize results of the 2020 groundwater sampling and gauging events. A summary of site soil analytical data is included as Figure 7.

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ANALYTICAL LAB REPORTS

The groundwater analytical lab reports are included as Appendix E. The soil analytical report is included as Appendix F.

GROUNDWATER RESULTS

- Groundwater elevations indicate the groundwater flow direction at the Site was generally to the east-southeast during 2020 (see Figures 4 and 6).
- Free product was observed in MW-1, MW-3, MW-7, MW-8, MW-11, and MW-22 in 2020; therefore, no groundwater samples were collected at these locations. A groundwater sample was also not collected from monitoring well MW-21 in November 2020 due to the presence of measurable free product.
- One or more groundwater samples collected in 2020 from MW-2, MW-9, MW-10, MW-13, MW-14, MW-15, MW-16, MW-18, MW-19, MW-20, and MW-21 exceeded the New Mexico Water Quality Control Commission (NMWQCC) standard (10 micrograms per liter [$\mu\text{g/L}$]) for benzene in groundwater.
- The concentration of toluene detected in the May 2020 sample collected from MW-21 exceeded the NMWQCC standard (750 $\mu\text{g/L}$) for toluene in groundwater. Concentrations of toluene in the remaining samples collected from Site monitoring wells in 2020 were either below the NMWQCC standard or not detected.
- Concentrations of ethylbenzene were either below the NMWQCC standard (750 $\mu\text{g/L}$) or not detected in the Site monitoring wells sampled in 2020.
- The concentration of total xylenes detected in the May 2020 sample collected from MW-21 exceeded the NMWQCC standard (620 $\mu\text{g/L}$) for total xylenes in groundwater. Concentrations of total xylenes in the remaining samples collected from Site monitoring wells in 2020 were either below the NMWQCC standard or not detected.
- A field duplicate was collected from monitoring well MW-18 in May 2020 and from MW-19 and MW-23 in November 2020. The relative percent difference for benzene, toluene, and total xylenes in the May 2020 primary/duplicate pair collected from MW-18 was greater than 50%. A review of the laboratory analytical report and field notes did not reveal a potential cause of this discrepancy in results, and there have not been field duplicates collected from this well in the past. Field staff will continue to collect field duplicates from MW-18 to evaluate this location. There were no significant differences between the primary and duplicate samples collected in November 2020.
- Detectable concentrations of BTEX constituents were not reported in the trip blanks collected and analyzed as part of the 2020 groundwater monitoring events.

SOIL RESULTS

- Soil samples were collected from the soil borings for monitoring wells MW-21, MW-22, and MW-23. Results are shown in tabular format in Table 4 and graphically in Figure 7.

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- Concentrations of benzene were not detected above the RLs in soil samples collected from MW-21 through MW-23.
- Concentrations of total BTEX were either not detected above the RLs or detected at concentrations below the applicable NMOCD Soil Criteria (50 mg/kg) in soil samples collected from MW-21 through MW-23.
- The concentration of Total Petroleum Hydrocarbons in the soil sample collected from MW-22 (interval 47-48 feet bgs) exceeded the applicable NMOCD Soil Criteria (100 mg/kg). The concentrations of Total Petroleum Hydrocarbons in the soil samples collected from MW-21 and MW-23 were below the applicable NMOCD Soil Criteria.
- Concentrations of chloride were not detected in soil samples collected from MW-21 through MW-23.

PLANNED FUTURE ACTIVITIES

Groundwater monitoring events will be conducted on a semi-annual basis, utilizing a selection of site monitoring wells which provides an adequate representation of site conditions. Groundwater samples will be collected from monitoring wells not containing free product and analyzed for BTEX constituents using EPA Method 8260. One or more field duplicates and a trip blank will also be collected during each groundwater sampling event.

Installation of air sparge and soil vapor extraction piping for use as part of an AS/SVE system is planned for the Site in 2021. A work plan detailing these activities will be submitted to the NMOCD under separate cover. A survey of final well locations and system layout will be conducted following the system installation activities. Until the remediation system is operating, manual recovery of free product will continue on a quarterly basis from monitoring wells where measurable free product is present.

The activities conducted in 2021, and their results, will be summarized in the 2021 Annual Report, to be submitted in early 2022.

TABLES

TABLE 1 – GROUNDWATER ANALYTICAL RESULTS

TABLE 2 – GROUNDWATER ELEVATION RESULTS

TABLE 3 – FREE PRODUCT RECOVERY SUMMARY

TABLE 4 – SOIL ANALYTICAL RESULTS

TABLE 1 - GROUNDWATER ANALYTICAL RESULTS

Johnston Federal #4					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-1	08/08/95	590	2040	137	1764
MW-1	01/04/96	7380	20900	1480	14600
MW-1	12/17/96	762	1930	107	1270
MW-1	03/06/97	483	1110	66.1	678
MW-1	06/22/01	NS	NS	NS	NS
MW-1	09/04/01	NS	NS	NS	NS
MW-1	03/04/02	NS	NS	NS	NS
MW-1	06/03/02	NS	NS	NS	NS
MW-1	09/10/02	NS	NS	NS	NS
MW-1	12/12/02	NS	NS	NS	NS
MW-1	03/14/03	NS	NS	NS	NS
MW-1	06/18/03	NS	NS	NS	NS
MW-1	09/16/03	NS	NS	NS	NS
MW-1	12/17/03	NS	NS	NS	NS
MW-1	03/16/04	NS	NS	NS	NS
MW-1	06/22/04	NS	NS	NS	NS
MW-1	09/22/04	NS	NS	NS	NS
MW-1	12/21/04	NS	NS	NS	NS
MW-1	03/23/05	NS	NS	NS	NS
MW-1	06/23/05	NS	NS	NS	NS
MW-1	09/20/05	NS	NS	NS	NS
MW-1	12/14/05	NS	NS	NS	NS
MW-1	12/15/05	NS	NS	NS	NS
MW-1	03/27/06	NS	NS	NS	NS
MW-1	06/07/06	NS	NS	NS	NS
MW-1	09/25/06	NS	NS	NS	NS
MW-1	12/07/06	NS	NS	NS	NS
MW-1	03/28/07	NS	NS	NS	NS
MW-1	06/18/07	NS	NS	NS	NS
MW-1	09/17/07	NS	NS	NS	NS
MW-1	12/17/07	NS	NS	NS	NS
MW-1	03/10/08	NS	NS	NS	NS
MW-1	06/17/08	NS	NS	NS	NS
MW-1	09/10/08	NS	NS	NS	NS
MW-1	12/02/08	NS	NS	NS	NS
MW-1	03/03/09	NS	NS	NS	NS
MW-1	06/09/09	1630	3000	268	3880
MW-1	08/28/09	NS	NS	NS	NS
MW-1	11/04/09	NS	NS	NS	NS
MW-1	02/11/10	NS	NS	NS	NS
MW-1	06/07/10	1630	3130	213	3840
MW-1	09/24/10	NS	NS	NS	NS

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Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-1	11/02/10	NS	NS	NS	NS
MW-1	02/07/11	NS	NS	NS	NS
MW-1	05/10/11	1000	1710	206	2400
MW-1	09/23/11	NS	NS	NS	NS
MW-1	11/01/11	NS	NS	NS	NS
MW-1	02/21/12	NS	NS	NS	NS
MW-1	05/14/12	1200	2170	152	2580
MW-1	06/09/13	3900	14000	610	10000
MW-1	09/09/13	NS	NS	NS	NS
MW-1	12/12/13	NS	NS	NS	NS
MW-1	04/02/14	NS	NS	NS	NS
MW-1	10/23/14	NS	NS	NS	NS
MW-1	05/29/15	1600	4000	220	2400
MW-1	11/23/15	NS	NS	NS	NS
MW-1	04/16/16	NS	NS	NS	NS
MW-1	10/12/16	NS	NS	NS	NS
MW-1	06/09/17	NS	NS	NS	NS
MW-1	11/12/17	NS	NS	NS	NS
MW-1	05/16/18	NS	NS	NS	NS
MW-1	07/15/18	NS	NS	NS	NS
MW-1	10/26/18	NS	NS	NS	NS
MW-1	05/22/19	NS	NS	NS	NS
MW-1	11/12/19	NS	NS	NS	NS
MW-1	05/17/20	NS	NS	NS	NS
MW-1	11/13/20	NS	NS	NS	NS
MW-2	01/04/96	1104	5107	479	4640
MW-2	12/17/96	5900	8970	197	4670
MW-2	03/06/97	4500	6480	236	4920
MW-2	06/22/01	2800	180	41	140
MW-2	09/04/01	NS	NS	NS	NS
MW-2	06/03/02	370	11	24	18
MW-2	09/10/02	NS	NS	NS	NS
MW-2	12/12/02	NS	NS	NS	NS
MW-2	06/18/03	186	<5	34.9	16.8
MW-2	09/16/03	NS	NS	NS	NS
MW-2	12/17/03	NS	NS	NS	NS
MW-2	03/16/04	NS	NS	NS	NS
MW-2	06/22/04	88.9	24	32.9	15.2
MW-2	09/22/04	NS	NS	NS	NS
MW-2	12/21/04	NS	NS	NS	NS
MW-2	03/23/05	NS	NS	NS	NS
MW-2	06/23/05	283	9.4	27.7	64.5
MW-2	09/20/05	NS	NS	NS	NS
MW-2	12/14/05	NS	NS	NS	NS
MW-2	03/27/06	NS	NS	NS	NS
MW-2	06/07/06	92.1	18.4	4.4	5.9

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NMWQCC Standards:		10	750	750	620
MW-2	09/25/06	NS	NS	NS	NS
MW-2	12/07/06	NS	NS	NS	NS
MW-2	03/28/07	NS	NS	NS	NS
MW-2	06/19/07	83	<1	7.3	7.2
MW-2	09/17/07	NS	NS	NS	NS
MW-2	12/17/07	NS	NS	NS	NS
MW-2	03/10/08	NS	NS	NS	NS
MW-2	06/17/08	201	4.2	16.6	17.9
MW-2	09/10/08	NS	NS	NS	NS
MW-2	12/02/08	NS	NS	NS	NS
MW-2	03/03/09	NS	NS	NS	NS
MW-2	06/04/09	NS	NS	NS	NS
MW-2	06/09/09	18.5	0.82 J	2.8	6.9
MW-2	08/28/09	NS	NS	NS	NS
MW-2	11/04/09	NS	NS	NS	NS
MW-2	02/11/10	NS	NS	NS	NS
MW-2	06/07/10	5.6	0.99 J	<2	<6
MW-2	09/24/10	NS	NS	NS	NS
MW-2	11/02/10	NS	NS	NS	NS
MW-2	02/07/11	NS	NS	NS	NS
MW-2	05/10/11	5.3	1.2	0.046 J	J2.3
MW-2	09/23/11	NS	NS	NS	NS
MW-2	11/01/11	NS	NS	NS	NS
MW-2	02/21/12	NS	NS	NS	NS
MW-2	05/14/12	7.2	1.4	0.56 J	2.7 J
MW-2	06/09/13	1.8	<0.30	<0.20	<0.23
MW-2	09/09/13	1.7	<0.30	<0.20	<0.23
MW-2	12/12/13	1.5 J	<0.38	<0.20	0.80 J
MW-2	04/02/14	540	36	230	1500
MW-2	10/23/14	0.74 J	<0.70	<0.50	<1.6
MW-2	05/29/15	0.63 J	<5.0	<1.0	2.6 J
MW-2	11/23/15	<1.0	<1.0	<1.0	<3.0
MW-2	04/16/16	NS	NS	NS	NS
MW-2	10/12/16	NS	NS	NS	NS
MW-2	06/09/17	NS	NS	NS	NS
MW-2	11/12/17	NS	NS	NS	NS
MW-2	05/16/18	NS	NS	NS	NS
MW-2	10/26/18	2.5	<1.0	<1.0	<10
MW-2	05/22/19	NS	NS	NS	NS
MW-2	11/12/19	NS	NS	NS	NS
MW-2	05/17/20	NS	NS	NS	NS
MW-2	11/13/20	42	1.3	<1.0	<10

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Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-3	03/19/96	3660	5410	436	3730
MW-3	12/17/96	3910	8210	530	5020
MW-3	03/06/97	6670	12700	759	7020
MW-3	06/22/01	NS	NS	NS	NS
MW-3	09/04/01	NS	NS	NS	NS
MW-3	03/04/02	NS	NS	NS	NS
MW-3	06/03/02	NS	NS	NS	NS
MW-3	09/10/02	NS	NS	NS	NS
MW-3	12/12/02	NS	NS	NS	NS
MW-3	03/14/03	NS	NS	NS	NS
MW-3	06/18/03	NS	NS	NS	NS
MW-3	09/16/03	NS	NS	NS	NS
MW-3	12/17/03	NS	NS	NS	NS
MW-3	03/16/04	NS	NS	NS	NS
MW-3	06/22/04	NS	NS	NS	NS
MW-3	09/22/04	NS	NS	NS	NS
MW-3	12/21/04	NS	NS	NS	NS
MW-3	03/23/05	NS	NS	NS	NS
MW-3	06/23/05	NS	NS	NS	NS
MW-3	09/20/05	NS	NS	NS	NS
MW-3	12/14/05	NS	NS	NS	NS
MW-3	12/15/05	NS	NS	NS	NS
MW-3	03/27/06	NS	NS	NS	NS
MW-3	06/07/06	NS	NS	NS	NS
MW-3	09/25/06	NS	NS	NS	NS
MW-3	12/07/06	NS	NS	NS	NS
MW-3	03/28/07	NS	NS	NS	NS
MW-3	06/18/07	NS	NS	NS	NS
MW-3	09/17/07	NS	NS	NS	NS
MW-3	12/17/07	NS	NS	NS	NS
MW-3	03/10/08	NS	NS	NS	NS
MW-3	06/17/08	NS	NS	NS	NS
MW-3	09/10/08	NS	NS	NS	NS
MW-3	12/02/08	NS	NS	NS	NS
MW-3	03/03/09	NS	NS	NS	NS
MW-3	06/09/09	6100	8700	627	6630
MW-3	08/28/09	NS	NS	NS	NS
MW-3	11/04/09	NS	NS	NS	NS
MW-3	02/11/10	NS	NS	NS	NS
MW-3	06/07/10	7440	10800	578	7170
MW-3	09/24/10	NS	NS	NS	NS
MW-3	11/02/10	NS	NS	NS	NS
MW-3	02/07/11	NS	NS	NS	NS
MW-3	05/10/11	4180	4990	421	3780
MW-3	09/23/11	NS	NS	NS	NS
MW-3	11/01/11	NS	NS	NS	NS

TABLE 1 - GROUNDWATER ANALYTICAL RESULTS

Johnston Federal #4					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-3	02/21/12	NS	NS	NS	NS
MW-3	05/14/12	8100	15800	1040	11100
MW-3	06/09/13	5100	12000	870	11000
MW-3	09/09/13	NS	NS	NS	NS
MW-3	12/12/13	NS	NS	NS	NS
MW-3	04/02/14	NS	NS	NS	NS
MW-3	10/23/14	NS	NS	NS	NS
MW-3	05/29/15	NS	NS	NS	NS
MW-3	11/23/15	NS	NS	NS	NS
MW-3	04/16/16	NS	NS	NS	NS
MW-3	10/12/16	NS	NS	NS	NS
MW-3	06/09/17	NS	NS	NS	NS
MW-3	11/12/17	NS	NS	NS	NS
MW-3	05/16/18	NS	NS	NS	NS
MW-3	07/15/18	NS	NS	NS	NS
MW-3	10/26/18	NS	NS	NS	NS
MW-3	05/22/19	NS	NS	NS	NS
MW-3	11/12/19	NS	NS	NS	NS
MW-3	05/17/20	NS	NS	NS	NS
MW-3	11/13/20	NS	NS	NS	NS
MW-4	12/07/06	NS	NS	NS	NS
MW-4	03/28/07	NS	NS	NS	NS
MW-4	06/19/07	<1	<1	<1	<2
MW-4	09/17/07	NS	NS	NS	NS
MW-4	12/17/07	NS	NS	NS	NS
MW-4	03/10/08	NS	NS	NS	NS
MW-4	06/17/08	<1	<1	<1	<2
MW-4	09/10/08	NS	NS	NS	NS
MW-4	12/02/08	NS	NS	NS	NS
MW-4	03/03/09	NS	NS	NS	NS
MW-4	06/09/09	<1	0.47 J	<1	0.77 J
MW-4	08/28/09	NS	NS	NS	NS
MW-4	11/04/09	NS	NS	NS	NS
MW-4	02/11/10	NS	NS	NS	NS
MW-4	06/07/10	<2	<2	<2	<6
MW-4	09/24/10	NS	NS	NS	NS
MW-4	11/02/10	NS	NS	NS	NS
MW-4	02/07/11	NS	NS	NS	NS
MW-4	05/10/11	<1	<1	<1	<3
MW-4	09/23/11	NS	NS	NS	NS
MW-4	11/01/11	NS	NS	NS	NS
MW-4	02/21/12	NS	NS	NS	NS
MW-4	05/14/12	0.41 J	0.36 J	0.33 J	<1
MW-4	06/09/13	<0.14	<0.30	<0.20	<0.23

TABLE 1 - GROUNDWATER ANALYTICAL RESULTS

Johnston Federal #4					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-4	09/09/13	<0.14	<0.30	<0.20	<0.23
MW-4	12/12/13	<0.20	<0.38	<0.20	<0.65
MW-4	04/02/14	<0.20	<0.38	<0.20	<0.65
MW-4	10/23/14	<0.38	<0.70	<0.50	<1.6
MW-4	05/29/15	<1.0	1.3 J	<1.0	<5.0
MW-4	11/23/15	<1.0	<1.0	<1.0	<3.0
MW-4	04/16/16	NS	NS	NS	NS
MW-4	10/12/16	NS	NS	NS	NS
MW-4	06/09/17	NS	NS	NS	NS
MW-4	11/12/17	NS	NS	NS	NS
MW-4	05/16/18	NS	NS	NS	NS
MW-4	10/26/18	<1.0	<1.0	<1.0	<10
MW-4	05/22/19	NS	NS	NS	NS
MW-4	11/12/19	NS	NS	NS	NS
MW-4	05/17/20	NS	NS	NS	NS
MW-4	11/13/20	<1.0	<1.0	<1.0	<10
TMW-5	12/07/06	NS	NS	NS	NS
TMW-5	03/28/07	NS	NS	NS	NS
TMW-5	06/19/07	2730	7.6	680	1160
TMW-5	09/17/07	NS	NS	NS	NS
TMW-5	12/17/07	NS	NS	NS	NS
TMW-5	03/10/08	NS	NS	NS	NS
TMW-5	06/17/08	3190	217	651	1220
TMW-5	09/10/08	NS	NS	NS	NS
TMW-5	12/02/08	NS	NS	NS	NS
TMW-5	03/03/09	NS	NS	NS	NS
TMW-5	06/09/09	1540	285	568	784
TMW-5	08/28/09	NS	NS	NS	NS
TMW-5	11/04/09	NS	NS	NS	NS
TMW-5	02/11/10	NS	NS	NS	NS
TMW-5	06/07/10	1970	207	591	746
TMW-5	09/24/10	NS	NS	NS	NS
TMW-5	11/02/10	NS	NS	NS	NS
TMW-5	02/07/11	NS	NS	NS	NS
TMW-5	05/10/11	3730	124	459	221
TMW-5	09/23/11	NS	NS	NS	NS
TMW-5	11/01/11	NS	NS	NS	NS
TMW-5	02/21/12	NS	NS	NS	NS
TMW-5	05/14/12	6180	52.6	614	243
TMW-5	06/09/13	6400	210	400	180
TMW-5	09/09/13	5600	26	470	100
TMW-5	12/12/13	3900	29 J	400	120
TMW-5	04/02/14	4900	770	510	630
TMW-5	Well abandoned 8/11/2014				

TABLE 1 - GROUNDWATER ANALYTICAL RESULTS

Johnston Federal #4					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-6	12/12/13	NS	NS	NS	NS
MW-6	04/02/14	NS	NS	NS	NS
MW-6	10/23/14	230	3.3	420	120
MW-6	05/29/15	130	4.8 J	210	86
MW-6	11/23/15	330	21	260	84
MW-6	04/16/16	49	52	140	40
MW-6	10/12/16	77	25	17	<5.0
MW-6	06/09/17	36	<5.0	<1.0	15
MW-6	11/12/17	66	20	9.5	83
MW-6	05/16/18	17	2.8	<1.0	<10
MW-6	10/26/18	110	1.9	4.0	26
MW-6	05/22/19	33	<1.0	<1.0	<10
MW-6	11/12/19	15	<1.0	<1.0	<2.0
DUP-1(MW-6)*	11/12/19	15	<1.0	<1.0	<2.0
MW-6	05/17/20	7.8	<1.0	<1.0	<10
MW-6	11/13/20	8.9	<1.0	<1.0	<10
MW-7	12/12/13	120	110	49 J	490
MW-7	04/02/14	3.5	3.6	4	<0.65
MW-7	10/23/14	4.6	<0.70	2.8	<1.6
MW-7	05/29/15	<1.0	<5.0	<1.0	<5.0
MW-7	11/23/15	<1.0	<1.0	<1.0	<3.0
MW-7	04/16/16	<1.0	<5.0	<1.0	<5.0
MW-7	10/12/16	<1.0	<5.0	<1.0	<5.0
MW-7	06/09/17	<1.0	<5.0	<1.0	<5.0
MW-7	11/12/17	<1.0	<1.0	<1.0	<10
MW-7	05/16/18	NS	NS	NS	NS
MW-7	07/15/18	NS	NS	NS	NS
MW-7	10/26/18	NS	NS	NS	NS
MW-7	05/22/19	NS	NS	NS	NS
MW-7	11/12/19	NS	NS	NS	NS
MW-7	05/17/20	NS	NS	NS	NS
MW-7	11/13/20	NS	NS	NS	NS
MW-8	12/12/13	NS	NS	NS	NS
MW-8	04/02/14	NS	NS	NS	NS
MW-8	10/23/14	NS	NS	NS	NS
MW-8	05/29/15	NS	NS	NS	NS
MW-8	11/23/15	NS	NS	NS	NS
MW-8	04/16/16	NS	NS	NS	NS
MW-8	10/12/16	NS	NS	NS	NS
MW-8	06/09/17	NS	NS	NS	NS
MW-8	11/12/17	NS	NS	NS	NS
MW-8	05/16/18	NS	NS	NS	NS
MW-8	07/15/18	NS	NS	NS	NS

TABLE 1 - GROUNDWATER ANALYTICAL RESULTS

Johnston Federal #4					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-8	10/26/18	NS	NS	NS	NS
MW-8	05/22/19	NS	NS	NS	NS
MW-8	11/12/19	NS	NS	NS	NS
MW-8	05/17/20	NS	NS	NS	NS
MW-8	11/13/20	NS	NS	NS	NS
MW-9	12/12/13	180	310	46	430
MW-9	04/02/14	230	27	140	810
MW-9	10/23/14	10	1.6	9.4	2.9 J
MW-9	05/29/15	15	8.4 J	6	21
MW-9	11/23/15	9	2.8	<1.0	<3.0
MW-9	04/16/16	29	24	4.3	8.3
MW-9	10/12/16	1	8.7	<1.0	<5.0
MW-9	06/09/17	29	11	<1.0	5.4
MW-9	11/12/17	130	42	2.1	10
MW-9	05/16/18	1400	250	20	130
MW-9	10/26/18	600	130	9.5	67
MW-9	05/22/19	1800	120	38	240
MW-9	11/12/19	29	1.3	<1.0	3.0
MW-9	05/17/20	3300	110	70	450.0
MW-9	11/13/20	240	<2.0	6.1	35
MW-10	12/12/13	1200	3500	300	3200
MW-10	04/02/14	4.3	7	<0.20	13
MW-10	10/23/14	93	1.3	87	50
MW-10	05/29/15	130	8.5	31	13
MW-10	11/23/15	120	20	8.8	11
MW-10	04/16/16	NS	NS	NS	NS
MW-10	10/12/16	NS	NS	NS	NS
MW-10	06/09/17	NS	NS	NS	NS
MW-10	11/12/17	NS	NS	NS	NS
MW-10	05/16/18	NS	NS	NS	NS
MW-10	10/26/18	210	13	2.2	<10
MW-10	05/22/19	NS	NS	NS	NS
MW-10	11/12/19	NS	NS	NS	NS
MW-10	05/17/20	NS	NS	NS	NS
MW-10	11/13/20	2700	<20	53	<200
MW-11	12/12/13	NS	NS	NS	NS
MW-11	04/02/14	NS	NS	NS	NS
MW-11	10/23/14	NS	NS	NS	NS
MW-11	05/29/15	NS	NS	NS	NS
MW-11	11/23/15	NS	NS	NS	NS
MW-11	04/16/16	NS	NS	NS	NS
MW-11	10/12/16	NS	NS	NS	NS

TABLE 1 - GROUNDWATER ANALYTICAL RESULTS

Johnston Federal #4					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-11	06/09/17	NS	NS	NS	NS
MW-11	11/12/17	NS	NS	NS	NS
MW-11	05/16/18	NS	NS	NS	NS
MW-11	07/15/18	NS	NS	NS	NS
MW-11	10/26/18	NS	NS	NS	NS
MW-11	05/22/19	NS	NS	NS	NS
MW-11	11/12/19	NS	NS	NS	NS
MW-11	05/17/20	NS	NS	NS	NS
MW-11	11/13/20	NS	NS	NS	NS
MW-12	12/12/13	<0.14	<0.30	<0.20	0.39 J
MW-12	04/02/14	<0.20	0.54 J	<0.20	<0.65
MW-12	10/23/14	0.71 J	<0.70	0.59 J	<1.6
MW-12	05/29/15	<1.0	<5.0	<1.0	<5.0
MW-12	11/23/15	<1.0	<1.0	<1.0	<3.0
MW-12	04/16/16	NS	NS	NS	NS
MW-12	10/12/16	NS	NS	NS	NS
MW-12	06/09/17	NS	NS	NS	NS
MW-12	11/12/17	NS	NS	NS	NS
MW-12	05/16/18	NS	NS	NS	NS
MW-12	10/26/18	<1.0	<1.0	<1.0	<10
MW-12	05/22/19	NS	NS	NS	NS
MW-12	11/12/19	NS	NS	NS	NS
MW-12	05/17/20	NS	NS	NS	NS
MW-12	11/13/20	<1.0	<1.0	<1.0	<10
MW-13	10/23/14	710	2	7.8	21
MW-13	05/29/15	6.1	<5.0	0.81 J	2.4 J
MW-13	11/23/15	3.7	<1.0	<1.0	<3.0
MW-13	04/16/16	1.6	<5.0	<1.0	<5.0
MW-13	10/12/16	1.8	<5.0	<1.0	<5.0
MW-13	06/09/17	3.4	<5.0	<1.0	<5.0
MW-13	11/12/17	<1.0	<1.0	<1.0	<10
MW-13	05/16/18	43	<1.0	<1.0	<10
MW-13	10/26/18	11	<1.0	<1.0	<10
MW-13	05/22/19	24	<1.0	<1.0	<10
MW-13	11/12/19	<1.0	<1.0	<1.0	<2.0
MW-13	05/17/20	360	<2.0	3.6	<20
MW-13	11/13/20	11	<1.0	<1.0	<10
MW-14	10/23/14	<0.38	<0.70	<0.50	<1.6
MW-14	05/29/15	<1.0	<5.0	<1.0	<5.0
MW-14	11/23/15	<1.0	<1.0	<1.0	<3.0
MW-14	04/16/16	NS	NS	NS	NS
MW-14	10/12/16	NS	NS	NS	NS

TABLE 1 - GROUNDWATER ANALYTICAL RESULTS

Johnston Federal #4					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-14	06/09/17	NS	NS	NS	NS
MW-14	11/12/17	NS	NS	NS	NS
MW-14	05/16/18	NS	NS	NS	NS
MW-14	10/26/18	9.4	<1.0	<1.0	<10
MW-14	05/22/19	NS	NS	NS	NS
MW-14	11/12/19	NS	NS	NS	NS
MW-14	05/17/20	41	<1.0	<1.0	<10
MW-14	11/13/20	12	<1.0	<1.0	<10
MW-15	10/23/14	61	1	18	120
MW-15	05/29/15	3200	1500	410	1700
MW-15	11/23/15	180	19	19	24
MW-15	04/16/16	5.8	9.5	<1.0	8.5
MW-15	10/12/16	8.3	7.6	<1.0	6.2
MW-15	06/09/17	19	<5.0	3	15
MW-15	11/12/17	1100	180	71	290
MW-15	05/16/18	980	190	32	190
MW-15	10/26/18	140	33	3.5	23
DUP-01(MW-15)*	10/26/18	150	32	3.0	21
MW-15	05/22/19	25	4.3	<1.0	<10
MW-15	11/12/19	210	26	8.9	70
MW-15	05/17/20	99	9.7	1.9	18
MW-15	11/13/20	20	<1.0	<1.0	<10
MW-16	10/23/14	0.93 J	<0.70	<0.50	3.4 J
MW-16	05/29/15	54	15	22	24
MW-16	11/23/15	4.2	1.1	2.3	<3.0
MW-16	04/16/16	590	120	140	430
MW-16	10/12/16	<1.0	<5.0	<1.0	<5.0
MW-16	06/09/17	<1.0	<5.0	<1.0	<5.0
MW-16	11/12/17	29	2.3	2.8	14
MW-16	05/16/18	36	15	1.8	16
DP-01(MW-16)*	05/16/18	30	11	1.2	11
MW-16	10/26/18	9.2	<1.0	<1.0	<10
MW-16	05/22/19	12	<1.0	<1.0	<10
MW-16	11/12/19	9.7	<1.0	<1.0	<2.0
MW-16	05/17/20	12	<1.0	<1.0	<10
MW-16	11/13/20	2.7	<1.0	<1.0	<10
MW-17	10/23/14	3	<0.70	1.5	4.6 J
MW-17	05/29/15	6.7	0.98 J	3.4	16
MW-17	11/23/15	14	<1.0	5.9	12
MW-17	04/16/16	NS	NS	NS	NS
MW-17	10/12/16	NS	NS	NS	NS
MW-17	06/09/17	NS	NS	NS	NS
MW-17	11/12/17	NS	NS	NS	NS

TABLE 1 - GROUNDWATER ANALYTICAL RESULTS

Johnston Federal #4					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-17	05/16/18	NS	NS	NS	NS
MW-17	10/26/18	13	<1.0	2.6	<10
MW-17	05/22/19	NS	NS	NS	NS
MW-17	11/12/19	NS	NS	NS	NS
MW-17	05/17/20	2.7	<1.0	<1.0	<10
MW-17	11/13/20	<1.0	<1.0	<1.0	<10
MW-18	10/23/14	6.5	3.2	<0.50	11
MW-18	05/29/15	12	7.2	2.8	16
MW-18	11/23/15	18	10	3.6	24
MW-18	04/16/16	2.4	<5.0	1.1	7.5
MW-18	10/12/16	1.4	<5.0	<1.0	<5.0
MW-18	06/09/17	8.7	<5.0	3.5	24
MW-18	11/12/17	<1.0	<1.0	<1.0	<10
MW-18	05/16/18	8.9	<1.0	2.4	17
MW-18	10/26/18	32	5.5	9.8	75
MW-18	05/22/19	9.1	<1.0	3.1	21
MW-18	11/12/19	24	<1.0	8.8	64
MW-18	05/17/20	160	<2.0	56	420
DUP-1(MW-18)*	05/17/20	17	<1.0	6.7	51
MW-18	11/13/20	3.2	<1.0	1.3	<10
MW-19	10/23/14	22	6	1.7	20
MW-19	05/29/15	3.7	<5.0	1.3	2.6 J
MW-19	11/23/15	67	18	15	40
MW-19	04/16/16	<1.0	<5.0	<1.0	<5.0
MW-19	10/12/16	<1.0	<5.0	<1.0	<5.0
MW-19	06/09/17	64	31	7.3	55
MW-19	11/12/17	68	20	8.5	62
MW-19	05/16/18	31	1.2	1.7	13
MW-19	10/26/18	15	<1.0	1	<10
MW-19	05/22/19	190	<1.0	13	88
MW-19	11/12/19	27	<1.0	2.2	15
MW-19	05/17/20	18	<1.0	1.5	10
MW-19	11/13/20	16	<1.0	1.4	<10
DUP-2(MW-19)*	11/13/20	29	<1.0	2.8	18
MW-20	10/23/14	28	2.7	2.6	42
MW-20	05/29/15	28	3.7 J	10	6.3
MW-20	11/23/15	6.9	<1.0	12	<3.0
MW-20	04/16/16	<1.0	<5.0	<1.0	<5.0
MW-20	10/12/16	NS	NS	NS	NS
MW-20	06/09/17	42	11	1.1	37
MW-20	11/12/17	58	25	1.3	17
MW-20	05/16/18	71	5.6	1.2	13
MW-20	10/26/18	82	19	1.7	17

TABLE 1 - GROUNDWATER ANALYTICAL RESULTS

Johnston Federal #4					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-20	05/22/19	3.3	<1.0	<1.0	<10
DUP-1(MW-20)*	05/22/19	16	<1.0	<1.0	<10
MW-20	11/12/19	170	<1.0	3.2	28
MW-20	05/17/20	19	<1.0	<1.0	<10
MW-20	11/13/20	210	<1.0	3.6	35
MW-21	05/17/20	6800	1200	220	2800
MW-21	11/13/20	NS	NS	NS	NS
MW-22	05/17/20	NS	NS	NS	NS
MW-22	11/13/20	NS	NS	NS	NS
MW-23	05/17/20	3.3	4	1.7	15
MW-23	11/13/20	<1.0	<1.0	<1.0	<10
DUP-1(MW-23)*	11/13/20	<1.0	<1.0	<1.0	<10

Notes:

The groundwater monitoring dates for each monitoring well where no groundwater samples were collected and analyzed have been omitted.

"µg/L" = micrograms per liter

Results highlighted yellow exceed their respective New Mexico Water Quality Control Commission (NMWQCC) standards.

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

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

*Field Duplicate results presented immediately below primary sample result

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Johnston Federal #4						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-1	08/08/95	6073.24	NR	50.08		6023.16
MW-1	01/04/96	6073.24	NR	50.23		6023.01
MW-1	12/17/96	6073.24	49.94	50.50	0.56	6023.16
MW-1	03/06/97	6073.24	49.99	50.38	0.39	6023.15
MW-1	06/22/01	6073.24	49.82	49.96	0.14	6023.39
MW-1	09/04/01	6073.24	49.94	50.05	0.11	6023.27
MW-1	03/04/02	6073.24	50.23	50.40	0.17	6022.97
MW-1	06/03/02	6073.24	50.31	50.50	0.19	6022.88
MW-1	09/10/02	6073.24	50.51	50.70	0.19	6022.68
MW-1	12/12/02	6073.24	50.60	50.83	0.23	6022.58
MW-1	03/14/03	6073.24	50.73	50.90	0.17	6022.47
MW-1	06/18/03	6073.24	50.74	51.28	0.54	6022.37
MW-1	09/16/03	6073.24	50.78	51.70	0.92	6022.23
MW-1	12/17/03	6073.24	50.92	51.15	0.23	6022.26
MW-1	03/16/04	6073.24	50.98	51.14	0.16	6022.22
MW-1	06/22/04	6073.24	51.02	51.15	0.13	6022.19
MW-1	09/22/04	6073.24	51.06	51.18	0.12	6022.15
MW-1	12/21/04	6073.24	51.08	51.15	0.07	6022.14
MW-1	03/23/05	6073.24	ND	51.13		6022.11
MW-1	06/23/05	6073.24	ND	51.09		6022.15
MW-1	09/20/05	6073.24	ND	51.12		6022.12
MW-1	12/14/05	6073.24	ND	51.02		6022.22
MW-1	12/15/05	6073.24	ND	51.02		6022.22
MW-1	03/27/06	6073.24	ND	51.86		6021.38
MW-1	06/07/06	6073.24	ND	50.92		6022.32
MW-1	09/25/06	6073.24	ND	51.09		6022.15
MW-1	12/07/06	6073.24	ND	51.06		6022.18
MW-1	03/28/07	6073.24	ND	50.85		6022.39
MW-1	06/18/07	6073.24	ND	50.90		6022.34
MW-1	09/17/07	6073.24	ND	51.04		6022.20
MW-1	12/17/07	6073.24	ND	51.05		6022.19
MW-1	03/10/08	6073.24	ND	50.93		6022.31
MW-1	06/17/08	6073.24	ND	50.14		6023.10
MW-1	09/10/08	6073.24	ND	49.81		6023.43
MW-1	12/02/08	6073.24	ND	49.66		6023.58
MW-1	03/03/09	6073.24	ND	49.60		6023.64
MW-1	06/09/09	6073.24	ND	49.61		6023.63
MW-1	08/28/09	6073.24	ND	49.71		6023.53
MW-1	11/04/09	6073.24	ND	49.83		6023.41
MW-1	02/11/10	6073.24	ND	49.93		6023.31

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Johnston Federal #4						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-1	06/07/10	6073.24	ND	50.12		6023.12
MW-1	09/24/10	6073.24	ND	50.33		6022.91
MW-1	11/02/10	6073.24	ND	50.40		6022.84
MW-1	02/07/11	6073.24	ND	50.53		6022.71
MW-1	05/10/11	6073.24	ND	50.69		6022.55
MW-1	09/23/11	6073.24	ND	50.93		6022.31
MW-1	11/01/11	6073.24	ND	50.99		6022.25
MW-1	02/21/12	6073.24	ND	51.15		6022.09
MW-1	05/14/12	6073.24	ND	51.24		6022.00
MW-1	06/09/13	6073.24	51.61	51.68	0.07	6021.61
MW-1	09/09/13	6073.24	51.78	51.84	0.06	6021.45
MW-1	12/12/13	6073.24	51.80	51.85	0.05	6021.43
MW-1	04/02/14	6073.24	ND	51.81		6021.43
MW-1	10/23/14	6073.24	51.95	52.04	0.09	6021.27
MW-1	05/29/15	6073.24	ND	52.02		6021.22
MW-1	11/23/15	6073.24	51.76	51.76	<0.01	6021.48
MW-1	04/16/16	6073.24	51.61	51.68	0.07	6021.61
MW-1	10/12/16	6073.24	51.71	51.73	0.02	6021.53
MW-1	06/09/17	6073.24	51.76	51.78	0.02	6021.48
MW-1	07/15/17	6073.24	51.85	51.87	0.02	6021.39
MW-1	11/12/17	6073.24	51.85	51.86	0.01	6021.39
MW-1	05/16/18	6073.24	51.83	51.97	0.14	6021.38
MW-1	07/15/18	6073.24	51.64	51.75	0.11	6021.57
MW-1	10/26/18	6073.24	51.77	51.77	<0.01	6021.47
MW-1	05/22/19	6073.24	51.85	51.96	0.11	6021.36
MW-1	11/12/19	6073.24	51.93	51.95	0.02	6021.31
MW-1	05/17/20	6073.24	52.03	52.05	0.02	6021.21
MW-1	08/19/20	6073.24	52.10	52.11	0.01	6021.14
MW-1	11/13/20	6073.24	52.14	52.15	0.01	6021.10
MW-2	01/04/96	6072.14	NR	48.71		6023.43
MW-2	12/17/96	6072.14	NR	48.84		6023.30
MW-2	03/06/97	6072.14	NR	48.94		6023.20
MW-2	06/22/01	6072.14	NR	48.62		6023.52
MW-2	09/04/01	6072.14	NR	48.78		6023.36
MW-2	06/03/02	6072.14	NR	49.15		6022.99
MW-2	09/10/02	6072.14	NR	49.27		6022.87
MW-2	12/12/02	6072.14	NR	49.42		6022.72
MW-2	06/18/03	6072.14	ND	49.62		6022.52
MW-2	09/16/03	6072.14	ND	49.76		6022.38

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Johnston Federal #4						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-2	12/17/03	6072.14	ND	49.72		6022.42
MW-2	03/16/04	6072.14	ND	49.78		6022.36
MW-2	06/22/04	6072.14	ND	49.82		6022.32
MW-2	09/22/04	6072.14	ND	49.84		6022.30
MW-2	12/21/04	6072.14	ND	49.86		6022.28
MW-2	03/23/05	6072.14	ND	49.89		6022.25
MW-2	06/23/05	6072.14	ND	49.87		6022.27
MW-2	09/20/05	6072.14	ND	49.89		6022.25
MW-2	12/14/05	6072.14	ND	49.75		6022.39
MW-2	03/27/06	6072.14	ND	49.62		6022.52
MW-2	06/07/06	6072.14	ND	49.67		6022.47
MW-2	09/25/06	6072.14	ND	49.85		6022.29
MW-2	12/07/06	6072.14	ND	49.82		6022.32
MW-2	03/28/07	6072.14	ND	49.63		6022.51
MW-2	06/19/07	6072.14	ND	49.67		6022.47
MW-2	09/17/07	6072.14	ND	49.82		6022.32
MW-2	12/17/07	6072.14	ND	49.82		6022.32
MW-2	03/10/08	6072.14	ND	49.92		6022.22
MW-2	06/17/08	6072.14	ND	48.93		6023.21
MW-2	09/10/08	6072.14	ND	48.60		6023.54
MW-2	12/02/08	6072.14	ND	48.43		6023.71
MW-2	03/03/09	6072.14	ND	48.37		6023.77
MW-2	06/04/09	6072.14	ND	48.38		6023.76
MW-2	06/09/09	6072.14	ND	48.43		6023.71
MW-2	08/28/09	6072.14	ND	48.50		6023.64
MW-2	11/04/09	6072.14	ND	48.62		6023.52
MW-2	02/11/10	6072.14	ND	48.72		6023.42
MW-2	06/07/10	6072.14	ND	48.98		6023.16
MW-2	09/24/10	6072.14	ND	49.11		6023.03
MW-2	11/02/10	6072.14	ND	49.17		6022.97
MW-2	02/07/11	6072.14	ND	49.33		6022.81
MW-2	05/10/11	6072.14	ND	49.45		6022.69
MW-2	09/23/11	6072.14	ND	49.72		6022.42
MW-2	11/01/11	6072.14	ND	49.77		6022.37
MW-2	02/21/12	6072.14	ND	49.91		6022.23
MW-2	05/14/12	6072.14	ND	50.00		6022.14
MW-2	06/09/13	6072.14	ND	50.38		6021.76
MW-2	09/09/13	6072.14	ND	50.56		6021.58
MW-2	12/12/13	6072.14	ND	50.56		6021.58
MW-2	04/02/14	6072.14	ND	50.59		6021.55

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Johnston Federal #4						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-2	10/23/14	6072.14	ND	50.73		6021.41
MW-2	05/29/15	6072.14	ND	50.80		6021.34
MW-2	11/23/15	6072.14	ND	50.54		6021.60
MW-2	04/16/16	6072.14	ND	50.39		6021.75
MW-2	10/12/16	6072.14	ND	50.47		6021.67
MW-2	06/09/17	6072.14	ND	50.52		6021.62
MW-2	11/12/17	6072.14	ND	50.65		6021.49
MW-2	05/16/18	6072.14	ND	50.63		6021.51
MW-2	10/26/18	6072.14	ND	50.80		6021.34
MW-2	05/22/19	6072.14	ND	50.89		6021.25
MW-2	11/12/19	6072.14	ND	50.97		6021.17
MW-2	05/17/20	6072.14	ND	51.04		6021.10
MW-2	11/13/20	6072.14	ND	51.15		6020.99
MW-3	03/19/96	6073.11	NR	49.81		6023.30
MW-3	12/17/96	6073.11	NR	49.84		6023.27
MW-3	03/06/97	6073.11	49.83	49.87	0.04	6023.27
MW-3	06/22/01	6073.11	49.58	49.66	0.08	6023.51
MW-3	09/04/01	6073.11	49.70	49.76	0.06	6023.40
MW-3	03/04/02	6073.11	49.91	50.35	0.44	6023.09
MW-3	06/03/02	6073.11	49.96	50.62	0.66	6022.99
MW-3	09/10/02	6073.11	50.12	50.79	0.67	6022.82
MW-3	12/12/02	6073.11	50.25	50.95	0.70	6022.69
MW-3	03/14/03	6073.11	50.34	51.03	0.69	6022.60
MW-3	06/18/03	6073.11	50.45	51.16	0.71	6022.48
MW-3	09/16/03	6073.11	50.59	51.30	0.71	6022.35
MW-3	12/17/03	6073.11	50.60	51.08	0.48	6022.39
MW-3	03/16/04	6073.11	50.68	51.10	0.42	6022.33
MW-3	06/22/04	6073.11	50.68	51.22	0.54	6022.30
MW-3	09/22/04	6073.11	50.69	51.30	0.61	6022.27
MW-3	12/21/04	6073.11	50.71	51.32	0.61	6022.25
MW-3	03/23/05	6073.11	50.76	51.85	1.09	6022.08
MW-3	06/23/05	6073.11	50.76	51.20	0.44	6022.24
MW-3	09/20/05	6073.11	ND	51.43		6021.68
MW-3	12/14/05	6073.11	ND	51.31		6021.80
MW-3	12/15/05	6073.11	50.92	51.32	0.40	6022.09
MW-3	03/27/06	6073.11	50.58	50.92	0.34	6022.45
MW-3	06/07/06	6073.11	50.56	51.01	0.45	6022.44
MW-3	09/25/06	6073.11	50.80	51.27	0.47	6022.19
MW-3	12/07/06	6073.11	50.77	51.07	0.30	6022.27

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Johnston Federal #4						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-3	03/28/07	6073.11	50.66	50.99	0.33	6022.37
MW-3	06/18/07	6073.11	50.58	50.97	0.39	6022.43
MW-3	09/17/07	6073.11	50.78	51.15	0.37	6022.24
MW-3	12/17/07	6073.11	50.78	51.08	0.30	6022.26
MW-3	03/10/08	6073.11	50.75	50.90	0.15	6022.32
MW-3	06/17/08	6073.11	49.89	49.98	0.09	6023.20
MW-3	09/10/08	6073.11	ND	49.77		6023.34
MW-3	12/02/08	6073.11	ND	49.58		6023.53
MW-3	03/03/09	6073.11	ND	49.55		6023.56
MW-3	06/09/09	6073.11	ND	49.39		6023.72
MW-3	08/28/09	6073.11	ND	49.65		6023.46
MW-3	11/04/09	6073.11	ND	49.63		6023.48
MW-3	02/11/10	6073.11	ND	49.83		6023.28
MW-3	06/07/10	6073.11	49.70	49.90	0.20	6023.36
MW-3	09/24/10	6073.11	ND	50.19		6022.92
MW-3	11/02/10	6073.11	ND	50.26		6022.85
MW-3	02/07/11	6073.11	ND	50.40		6022.71
MW-3	05/10/11	6073.11	ND	50.46		6022.65
MW-3	09/23/11	6073.11	ND	50.73		6022.38
MW-3	11/01/11	6073.11	ND	50.82		6022.29
MW-3	02/21/12	6073.11	50.86	51.36	0.50	6022.13
MW-3	05/14/12	6073.11	50.84	51.50	0.66	6022.11
MW-3	06/09/13	6073.11	51.15	52.02	0.87	6021.74
MW-3	09/09/13	6073.11	51.29	52.36	1.07	6021.55
MW-3	12/12/13	6073.11	51.30	52.39	1.09	6021.54
MW-3	04/02/14	6073.11	51.30	52.41	1.11	6021.53
MW-3	10/23/14	6073.11	51.43	52.59	1.16	6021.39
MW-3	05/29/15	6073.11	51.51	52.64	1.13	6021.32
MW-3	11/23/15	6073.11	51.32	52.11	0.79	6021.59
MW-3	04/16/16	6073.11	51.20	51.90	0.70	6021.74
MW-3	10/12/16	6073.11	ND	51.42		6021.69
MW-3	11/30/16	6073.11	51.58	51.79	0.21	6021.48
MW-3	06/09/17	6073.11	51.50	51.52	0.02	6021.61
MW-3	07/15/17	6073.11	ND	51.77		6021.34
MW-3	11/12/17	6073.11	51.54	51.55	0.01	6021.57
MW-3	05/16/18	6073.11	51.47	52.05	0.58	6021.50
MW-3	07/15/18	6073.11	ND	51.77		6021.34
MW-3	10/26/18	6073.11	51.72	51.72	<0.01	6021.39
MW-3	05/22/19	6073.11	51.79	52.02	0.23	6021.26
MW-3	11/12/19	6073.11	51.84	51.89	0.05	6021.26

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Johnston Federal #4						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-3	05/17/20	6073.11	51.96	52.12	0.16	6021.11
MW-3	08/19/20	6073.11	52.04	52.14	0.10	6021.05
MW-3	11/13/20	6073.11	52.10	52.12	0.02	6021.01
MW-4	12/07/06	6072.71	ND	50.40		6022.31
MW-4	03/28/07	6072.71	ND	50.19		6022.52
MW-4	06/19/07	6072.71	ND	50.21		6022.50
MW-4	09/17/07	6072.71	ND	50.34		6022.37
MW-4	12/17/07	6072.71	ND	49.78		6022.93
MW-4	03/10/08	6072.71	ND	50.30		6022.41
MW-4	06/17/08	6072.71	ND	49.50		6023.21
MW-4	09/10/08	6072.71	ND	49.17		6023.54
MW-4	12/02/08	6072.71	ND	49.00		6023.71
MW-4	03/03/09	6072.71	ND	48.93		6023.78
MW-4	06/09/09	6072.71	ND	48.94		6023.77
MW-4	08/28/09	6072.71	ND	49.04		6023.67
MW-4	11/04/09	6072.71	ND	49.16		6023.55
MW-4	02/11/10	6072.71	ND	49.26		6023.45
MW-4	06/07/10	6072.71	ND	49.45		6023.26
MW-4	09/24/10	6072.71	ND	49.15		6023.56
MW-4	11/02/10	6072.71	ND	49.73		6022.98
MW-4	02/07/11	6072.71	ND	49.86		6022.85
MW-4	05/10/11	6072.71	ND	49.98		6022.73
MW-4	09/23/11	6072.71	ND	50.09		6022.62
MW-4	11/01/11	6072.71	ND	50.31		6022.40
MW-4	02/21/12	6072.71	ND	50.46		6022.25
MW-4	05/14/12	6072.71	ND	50.55		6022.16
MW-4	06/09/13	6072.71	ND	50.93		6021.78
MW-4	09/09/13	6072.71	ND	51.11		6021.60
MW-4	12/12/13	6072.71	ND	51.12		6021.59
MW-4	04/02/14	6072.71	ND	51.14		6021.57
MW-4	10/23/14	6072.71	ND	51.26		6021.45
MW-4	05/29/15	6072.71	ND	51.33		6021.38
MW-4	11/23/15	6072.71	ND	51.08		6021.63
MW-4	04/16/16	6072.71	ND	50.92		6021.79
MW-4	10/12/16	6072.71	ND	51.01		6021.70
MW-4	06/09/17	6072.71	ND	51.07		6021.64
MW-4	11/12/17	6072.71	ND	51.17		6021.54
MW-4	05/16/18	6072.71	ND	51.16		6021.55
MW-4	10/26/18	6072.71	ND	51.33		6021.38

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Johnston Federal #4						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-4	05/22/19	6072.71	ND	51.40		6021.31
MW-4	11/12/19	6072.71	ND	51.47		6021.24
MW-4	05/17/20	6072.71	ND	51.58		6021.13
MW-4	11/13/20	6072.71	ND	51.68		6021.03
TMW-5	12/07/06	6072.29	ND	49.83		6022.46
TMW-5	03/28/07	6072.29	ND	49.58		6022.71
TMW-5	06/19/07	6072.29	ND	49.64		6022.65
TMW-5	09/17/07	6072.29	ND	49.77		6022.52
TMW-5	12/17/07	6072.29	ND	50.38		6021.91
TMW-5	03/10/08	6072.29	ND	46.59		6025.70
TMW-5	06/17/08	6072.29	ND	48.87		6023.42
TMW-5	09/10/08	6072.29	ND	48.56		6023.73
TMW-5	12/02/08	6072.29	ND	48.44		6023.85
TMW-5	03/03/09	6072.29	ND	44.40		6027.89
TMW-5	06/09/09	6072.29	ND	48.38		6023.91
TMW-5	08/28/09	6072.29	ND	DRY		0.00
TMW-5	11/04/09	6072.29	ND	48.58		6023.71
TMW-5	02/11/10	6072.29	ND	48.67		6023.62
TMW-5	06/07/10	6072.29	ND	48.81		6023.48
TMW-5	09/24/10	6072.29	ND	49.04		6023.25
TMW-5	11/02/10	6072.29	ND	49.12		6023.17
TMW-5	02/07/11	6072.29	ND	49.30		6022.99
TMW-5	05/10/11	6072.29	ND	49.41		6022.88
TMW-5	09/23/11	6072.29	ND	49.70		6022.59
TMW-5	11/01/11	6072.29	ND	49.71		6022.58
TMW-5	02/21/12	6072.29	ND	49.87		6022.42
TMW-5	05/14/12	6072.29	ND	49.96		6022.33
TMW-5	06/09/13	6072.29	ND	50.31		6021.98
TMW-5	09/09/13	6072.29	ND	50.48		6021.81
TMW-5	12/12/13	6072.29	ND	50.53		6021.76
TMW-5	04/02/14	6072.29	ND	50.54		6021.75
TMW-5	Well abandoned 8/11/2014					
MW-6	12/12/13	6072.76	51.10	51.13	0.03	6021.65
MW-6	04/02/14	6072.76	51.12	51.15	0.03	6021.63
MW-6	10/23/14	6072.76	ND	51.26		6021.50
MW-6	05/29/15	6072.76	ND	51.34		6021.42
MW-6	11/23/15	6072.76	ND	51.08		6021.68
MW-6	04/16/16	6072.76	ND	50.89		6021.87
MW-6	10/12/16	6072.76	ND	51.02		6021.74

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Johnston Federal #4						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-6	06/09/17	6072.76	ND	51.08		6021.68
MW-6	11/12/17	6072.76	ND	51.19		6021.57
MW-6	05/16/18	6072.76	ND	51.18		6021.58
MW-6	10/26/18	6072.76	ND	51.33		6021.43
MW-6	05/22/19	6072.76	ND	51.40		6021.36
MW-6	11/12/19	6072.76	ND	51.51		6021.25
MW-6	05/17/20	6072.76	ND	51.58		6021.18
MW-6	11/13/20	6072.76	ND	51.68		6021.08
MW-7	12/12/13	6072.63	ND	51.12		6021.51
MW-7	04/02/14	6072.63	ND	51.13		6021.50
MW-7	10/23/14	6072.63	ND	51.25		6021.38
MW-7	05/29/15	6072.63	ND	51.33		6021.30
MW-7	11/23/15	6072.63	ND	51.06		6021.57
MW-7	04/16/16	6072.63	ND	50.90		6021.73
MW-7	10/12/16	6072.63	ND	51.01		6021.62
MW-7	06/09/17	6072.63	ND	51.07		6021.56
MW-7	11/12/17	6072.63	ND	51.18		6021.45
MW-7	05/16/18	6072.63	50.98	51.86	0.88	6021.43
MW-7	07/15/18	6072.63	51.03	51.82	0.79	6021.40
MW-7	10/26/18	6072.63	51.13	51.14	0.01	6021.50
MW-7	05/22/19	6072.63	51.29	51.82	0.53	6021.21
MW-7	11/12/19	6072.63	51.28	52.08	0.80	6021.15
MW-7	05/17/20	6072.63	51.33	52.21	0.88	6021.08
MW-7	08/19/20	6072.63	51.42	52.30	0.88	6021.05
MW-7	11/13/20	6072.63	51.43	52.34	0.91	6020.97
MW-8	12/12/13	6072.60	50.80	51.94	1.14	6021.52
MW-8	04/02/14	6072.60	50.81	51.93	1.12	6021.51
MW-8	10/23/14	6072.60	50.93	52.12	1.19	6021.37
MW-8	05/29/15	6072.60	51.00	52.18	1.18	6021.31
MW-8	11/23/15	6072.60	50.83	51.63	0.80	6021.57
MW-8	04/16/16	6072.60	50.68	51.44	0.76	6021.73
MW-8	10/12/16	6072.60	50.81	51.52	0.71	6021.61
MW-8	11/30/16	6072.60	50.89	51.49	0.60	6021.56
MW-8	06/09/17	6072.60	51.01	51.11	0.10	6021.57
MW-8	07/15/17	6072.60	50.68	52.28	1.60	6021.52
MW-8	11/12/17	6072.60	50.78	50.82	0.04	6021.81
MW-8	05/16/18	6072.60	50.90	51.83	0.93	6021.47
MW-8	07/15/18	6072.60	51.13	52.51	1.38	6021.13
MW-8	10/26/18	6072.60	51.04	51.04	<0.01	6021.56

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Johnston Federal #4						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-8	05/22/19	6072.60	51.09	52.12	1.03	6021.25
MW-8	11/12/19	6072.60	51.15	52.74	1.59	6021.05
MW-8	05/17/20	6072.60	51.23	52.41	1.18	6021.08
MW-8	08/19/20	6072.60	51.30	52.53	1.23	6021.05
MW-8	11/13/20	6072.60	51.33	52.53	1.20	6020.97
MW-9	12/12/13	6073.57	ND	51.85		6021.72
MW-9	04/02/14	6073.57	ND	51.87		6021.70
MW-9	10/23/14	6073.57	ND	52.01		6021.56
MW-9	05/29/15	6073.57	ND	52.08		6021.49
MW-9	11/23/15	6073.57	ND	51.83		6021.74
MW-9	04/16/16	6073.57	ND	51.66		6021.91
MW-9	10/12/16	6073.57	ND	51.77		6021.80
MW-9	06/09/17	6073.57	ND	51.83		6021.74
MW-9	11/12/17	6073.57	ND	52.00		6021.57
MW-9	05/16/18	6073.57	ND	51.92		6021.65
MW-9	10/26/18	6073.57	ND	52.18		6021.39
MW-9	05/22/19	6073.57	ND	52.16		6021.41
MW-9	11/12/19	6073.57	ND	52.28		6021.29
MW-9	05/17/20	6073.57	ND	52.34		6021.23
MW-9	11/13/20	6073.57	ND	52.43		6021.14
MW-10	12/12/13	6073.42	ND	51.79		6021.63
MW-10	04/02/14	6073.42	ND	51.81		6021.61
MW-10	10/23/14	6073.42	ND	51.94		6021.48
MW-10	05/29/15	6073.42	ND	52.03		6021.39
MW-10	11/23/15	6073.42	ND	51.74		6021.68
MW-10	04/16/16	6073.42	ND	51.60		6021.82
MW-10	10/12/16	6073.42	ND	51.70		6021.72
MW-10	06/09/17	6073.42	ND	51.75		6021.67
MW-10	11/12/17	6073.42	ND	51.86		6021.56
MW-10	05/16/18	6073.42	ND	51.85		6021.57
MW-10	10/26/18	6073.42	ND	52.01		6021.41
MW-10	05/22/19	6073.42	ND	52.08		6021.34
MW-10	11/12/19	6073.42	ND	52.18		6021.24
MW-10	05/17/20	6073.42	ND	52.50		6020.92
MW-10	11/13/20	6073.42	ND	52.36		6021.06
MW-11	12/12/13	6073.39	51.60	52.43	0.83	6021.58
MW-11	04/02/14	6073.39	51.61	52.33	0.72	6021.60
MW-11	10/23/14	6073.39	51.73	52.59	0.86	6021.45

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Johnston Federal #4						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-11	05/29/15	6073.39	51.79	52.69	0.90	6021.38
MW-11	11/23/15	6073.39	51.61	52.14	0.53	6021.65
MW-11	04/16/16	6073.39	51.51	51.80	0.29	6021.81
MW-11	10/12/16	6073.39	51.68	51.80	0.12	6021.68
MW-11	06/09/17	6073.39	51.22	53.24	2.02	6021.67
MW-11	07/15/17	6073.39	51.29	53.13	1.84	6021.64
MW-11	11/12/17	6073.39	51.52	51.54	0.02	6021.87
MW-11	05/16/18	6073.39	51.70	52.04	0.34	6021.61
MW-11	07/15/18	6073.39	51.82	52.52	0.70	6021.40
MW-11	10/26/18	6073.39	51.84	51.84	<0.01	6021.55
MW-11	05/22/19	6073.39	51.89	52.23	0.34	6021.42
MW-11	11/12/19	6073.39	51.94	52.53	0.59	6021.30
MW-11	05/17/20	6073.39	52.02	52.79	0.77	6021.18
MW-11	08/19/20	6073.39	52.27	52.35	0.08	6021.05
MW-11	11/13/20	6073.39	52.32	52.33	0.01	6021.07
MW-12	12/12/13	6073.32	ND	48.13		6025.19
MW-12	04/02/14	6073.32	ND	48.09		6025.23
MW-12	10/23/14	6073.32	ND	48.31		6025.01
MW-12	05/29/15	6073.32	ND	48.31		6025.01
MW-12	11/23/15	6073.32	ND	48.11		6025.21
MW-12	04/16/16	6073.32	ND	47.85		6025.47
MW-12	10/12/16	6073.32	ND	47.57		6025.75
MW-12	06/09/17	6073.32	ND	47.54		6025.78
MW-12	11/12/17	6073.32	ND	47.51		6025.81
MW-12	05/16/18	6073.32	ND	47.33		6025.99
MW-12	10/26/18	6073.32	ND	47.38		6025.94
MW-12	05/22/19	6073.32	ND	47.73		6025.59
MW-12	11/12/19	6073.32	ND	47.78		6025.54
MW-12	05/17/20	6073.32	ND	47.85		6025.47
MW-12	11/13/20	6073.32	ND	47.86		6025.46
MW-13	10/23/14	6073.25	ND	51.62		6021.63
MW-13	05/29/15	6073.25	ND	51.69		6021.56
MW-13	11/23/15	6073.25	ND	51.42		6021.83
MW-13	04/16/16	6073.25	ND	51.29		6021.96
MW-13	10/12/16	6073.25	ND	51.37		6021.88
MW-13	06/09/17	6073.25	ND	51.44		6021.81
MW-13	11/12/17	6073.25	ND	51.54		6021.71
MW-13	05/16/18	6073.25	ND	51.52		6021.73
MW-13	10/26/18	6073.25	ND	51.68		6021.57

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Johnston Federal #4						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-13	05/22/19	6073.25	ND	51.71		6021.54
MW-13	11/12/19	6073.25	ND	51.80		6021.45
MW-13	05/17/20	6073.25	ND	52.01		6021.24
MW-13	11/13/20	6073.25	ND	52.12		6021.13
MW-14	10/23/14	6073.14	ND	51.53		6021.61
MW-14	05/29/15	6073.14	ND	51.60		6021.54
MW-14	11/23/15	6073.14	ND	51.33		6021.81
MW-14	04/16/16	6073.14	ND	51.19		6021.95
MW-14	10/12/16	6073.14	ND	51.30		6021.84
MW-14	06/09/17	6073.14	ND	51.35		6021.79
MW-14	11/12/17	6073.14	ND	51.46		6021.68
MW-14	05/16/18	6073.14	ND	51.43		6021.71
MW-14	10/26/18	6073.14	ND	51.57		6021.57
MW-14	05/22/19	6073.14	ND	51.62		6021.52
MW-14	11/12/19	6073.14	ND	51.70		6021.44
MW-14	05/17/20	6073.14	ND	51.89		6021.25
MW-14	11/13/20	6073.14	ND	51.99		6021.15
MW-15	10/23/14	6072.47	ND	51.14		6021.33
MW-15	05/29/15	6072.47	ND	51.19		6021.28
MW-15	11/23/15	6072.47	ND	50.93		6021.54
MW-15	04/16/16	6072.47	ND	50.78		6021.69
MW-15	10/12/16	6072.47	ND	50.87		6021.60
MW-15	06/09/17	6072.47	ND	50.96		6021.51
MW-15	11/12/17	6072.47	ND	51.06		6021.41
MW-15	05/16/18	6072.47	ND	51.03		6021.44
MW-15	10/26/18	6072.47	ND	51.19		6021.28
MW-15	05/22/19	6072.47	ND	51.27		6021.20
MW-15	11/12/19	6072.47	ND	51.35		6021.12
MW-15	05/17/20	6072.47	ND	51.42		6021.05
MW-15	11/13/20	6072.47	ND	51.53		6020.94
MW-16	10/23/14	6071.78	ND	50.49		6021.29
MW-16	05/29/15	6071.78	ND	50.57		6021.21
MW-16	11/23/15	6071.78	ND	50.30		6021.48
MW-16	04/16/16	6071.78	ND	50.15		6021.63
MW-16	10/12/16	6071.78	ND	50.24		6021.54
MW-16	06/09/17	6071.78	ND	50.32		6021.46
MW-16	11/12/17	6071.78	ND	50.44		6021.34
MW-16	05/16/18	6071.78	ND	50.40		6021.38

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Johnston Federal #4						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-16	10/26/18	6071.78	ND	50.55		6021.23
MW-16	05/22/19	6071.78	ND	51.40		6020.38
MW-16	11/12/19	6071.78	ND	50.69		6021.09
MW-16	05/17/20	6071.78	ND	50.78		6021.00
MW-16	11/13/20	6071.78	ND	50.88		6020.90
MW-17	10/23/14	6071.79	ND	50.51		6021.28
MW-17	05/29/15	6071.79	ND	50.58		6021.21
MW-17	11/23/15	6071.79	ND	50.31		6021.48
MW-17	04/16/16	6071.79	ND	50.16		6021.63
MW-17	10/12/16	6071.79	ND	50.26		6021.53
MW-17	06/09/17	6071.79	ND	50.30		6021.49
MW-17	11/12/17	6071.79	ND	50.43		6021.36
MW-17	05/16/18	6071.79	ND	50.41		6021.38
MW-17	10/26/18	6071.79	ND	50.56		6021.23
MW-17	05/22/19	6071.79	ND	50.63		6021.16
MW-17	11/12/19	6071.79	ND	50.72		6021.07
MW-17	05/17/20	6071.79	ND	50.79		6021.00
MW-17	11/13/20	6071.79	ND	50.90		6020.89
MW-18	10/23/14	6072.71	ND	51.28		6021.43
MW-18	05/29/15	6072.71	ND	51.37		6021.34
MW-18	11/23/15	6072.71	ND	51.09		6021.62
MW-18	04/16/16	6072.71	ND	50.94		6021.77
MW-18	10/12/16	6072.71	ND	51.03		6021.68
MW-18	06/09/17	6072.71	ND	51.10		6021.61
MW-18	11/12/17	6072.71	ND	51.20		6021.51
MW-18	05/16/18	6072.71	ND	51.19		6021.52
MW-18	10/26/18	6072.71	ND	51.34		6021.37

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Johnston Federal #4						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-18	05/22/19	6072.71	ND	51.42		6021.29
MW-18	11/12/19	6072.71	ND	51.50		6021.21
MW-18	05/17/20	6072.71	ND	51.58		6021.13
MW-18	11/13/20	6072.71	ND	51.69		6021.02
MW-19	10/23/14	6074.00	ND	52.41		6021.59
MW-19	05/29/15	6074.00	ND	52.48		6021.52
MW-19	11/23/15	6074.00	ND	52.21		6021.79
MW-19	04/16/16	6074.00	ND	52.17		6021.83
MW-19	10/12/16	6074.00	ND	52.15		6021.85
MW-19	06/09/17	6074.00	ND	52.22		6021.78
MW-19	11/12/17	6074.00	ND	52.32		6021.68
MW-19	05/16/18	6074.00	ND	52.31		6021.69
MW-19	10/26/18	6074.00	ND	52.48		6021.52
MW-19	05/22/19	6074.00	ND	52.55		6021.45
MW-19	11/12/19	6074.00	ND	52.66		6021.34
MW-19	05/17/20	6074.00	ND	52.73		6021.27
MW-19	11/13/20	6074.00	ND	52.84		6021.16
MW-20	10/23/14	6072.77	ND	51.33		6021.44
MW-20	05/29/15	6072.77	ND	51.41		6021.36
MW-20	11/23/15	6072.77	ND	51.14		6021.63
MW-20	04/16/16	6072.77	ND	50.99		6021.78
MW-20	10/12/16	6072.77	ND	51.09		6021.68
MW-20	06/09/17	6072.77	ND	51.14		6021.63
MW-20	11/12/17	6072.77	ND	51.24		6021.53
MW-20	05/16/18	6072.77	ND	51.24		6021.53
MW-20	10/26/18	6072.77	ND	51.38		6021.39
MW-20	05/22/19	6072.77	ND	51.46		6021.31
MW-20	11/12/19	6072.77	ND	51.55		6021.22
MW-20	05/17/20	6072.77	ND	51.62		6021.15
MW-20	11/13/20	6072.77	ND	51.73		6021.04
MW-21	05/17/20	6071.17	ND	50.27		6020.90
MW-21	11/13/20	6071.17	50.10	50.55	0.45	6020.96
MW-22	05/17/20	6070.47	49.57	49.58	0.01	6020.90
MW-22	08/19/20	6070.47	49.55	49.94	0.39	6021.05
MW-22	11/13/20	6070.47	49.79	49.95	0.16	6020.64
MW-23	05/17/20	6071.30	ND	50.30		6021.00
MW-23	11/13/20	6071.30	ND	50.37		6020.93

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Johnston Federal #4						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)

Notes:

"ft" = feet

"TOC" = Top of casing

"LNAPL" = Light non-aqueous phase liquid

"ND" = LNAPL not detected

"NR" = LNAPL not recorded

Groundwater elevation = Top of Casing elevation (TOC, ft) - (Depth to Water [ft] - [LPH thickness [ft] x 0.75]). A specific gravity of 0.75 is within the range of gas condensate (<https://www.sciencedirect.com/topics/earth-and-planetary-sciences/gas-condensate>)

Table 3
Free Product Recovery Summary
Johnston Federal #4

Well ID - MW-1	Depth to Product (Feet)	Depth to Water (Feet)	Measured Thickness (Feet)	Product Recovered (gal)	Water Recovered (gal)	Recovery Type
Date						
4/16/2016	51.61	51.68	0.07	0.01	<0.01	manual
5/25/2016	51.58	51.61	0.03	0	0	No Recovery
10/12/2016	51.71	51.73	0.02	<0.01	<0.01	manual
12/13/2016	51.80	51.81	0.01	<0.01	<0.01	manual
6/9/2017	51.76	51.78	0.02	<0.01	<0.01	manual
7/15/2017	51.85	51.87	0.02	15.6	790	MDPE*
11/12/2017	51.85	51.86	0.01	<0.01	<0.01	manual
5/16/2018	51.83	51.97	0.14	0.02	NR	manual
7/15/2018	51.64	51.75	0.11	19.7	285	MDPE*
5/22/2019	51.85	51.96	0.11	<0.01	NR	manual
11/12/2019	51.93	51.95	0.02	0.01	<0.01	manual
5/17/2020	52.03	52.05	0.02	<0.01	<0.01	manual
8/19/2020	52.10	52.11	0.01	<0.01	0.2	manual
11/13/2020	52.14	52.15	0.01	<0.01	0.1	manual
Total:				35.3	1075	
Well ID - MW-3						
Date						
4/16/2016	51.20	51.90	0.70	0.83	<0.01	manual
5/25/2016	51.26	51.61	0.35	0.20	<0.01	manual
6/20/2016	NM	NM	0.22	0.20	0.01	manual
7/22/2016	NM	NM	0.22	0.11	0.01	manual
11/15/2016	51.70	51.71	0.01	<0.01	<0.01	manual
11/30/2016	51.58	51.79	0.21	5.9	168	MDPE*
6/9/2017	51.50	51.52	0.02	<0.01	<0.01	manual
7/15/2017	ND	51.77	ND	7.1	760	MDPE*
11/12/2017	51.54	51.55	0.01	<0.01	<0.01	manual
5/16/2018	51.47	52.05	0.58	0.22	NR	manual
7/15/2018	ND	51.77	ND	15.5	709	MDPE*
5/22/2019	51.79	52.02	0.23	0.03	NR	manual
11/12/2019	51.84	51.89	0.05	0.07	0.18	manual
5/17/2020	51.96	52.12	0.16	0.11	0.66	manual
8/19/2020	52.04	52.14	0.10	0.03	1.02	manual
11/13/2020	52.10	52.12	0.02	<0.01	0.1	manual
Total:				30.3	1639	
Well ID - MW-7						
Date						
5/16/2018	50.98	51.86	0.88	0.33	NR	manual
7/15/2018	51.03	51.82	0.79	16.0	310	MDPE*
10/26/2018	51.13	51.14	0.01	<0.01	0.13	manual
5/22/2019	51.29	51.82	0.53	0.09	NR	manual
11/12/2019	51.28	52.08	0.80	0.26	0.29	manual
5/15/2020	51.33	52.21	0.88	0.39	0.48	manual
8/19/2020	51.42	52.30	0.88	0.31	1.2	manual
11/13/2020	51.43	52.34	0.91	0.28	1.1	manual
Total:				17.7	313	

Table 3
Free Product Recovery Summary
Johnston Federal #4

Well ID - MW-8	Depth to Product (Feet)	Depth to Water (Feet)	Measured Thickness (Feet)	Product Recovered (gal)	Water Recovered (gal)	Recovery Type
Date						
4/16/2016	50.68	51.44	0.76	0.55	<0.01	manual
4/20/2016	50.71	51.42	0.71	0.33	0.01	manual
5/25/2016	50.68	51.43	0.75	0.21	<0.01	manual
6/20/2016	NM	NM	0.25	0.23	0.01	manual
7/22/2016	NM	NM	0.41	0.29	0.01	manual
8/17/2016	NM	NM	0.65	0.27	<0.01	manual
10/12/2016	50.81	51.52	0.71	0.32	0.03	manual
11/15/2016	51.00	51.60	0.60	0.33	0.02	manual
11/30/2016	50.89	51.49	0.60	13.2	798	MDPE*
12/13/2016	NM	NM	0.01	<0.01	<0.01	manual
6/9/2017	51.01	51.11	0.10	<0.01	<0.01	manual
7/15/2017	50.68	52.28	1.60	46.5	2596	MDPE*
7/18/2017	51.15	51.71	0.56	44.4	3231	MDPE*
11/12/2017	50.78	50.82	0.04	<0.01	<0.01	manual
5/16/2018	50.90	51.83	0.93	0.53	NR	manual
7/15/2018	51.13	52.51	1.38	39.0	1521	MDPE*
5/22/2019	51.09	52.12	1.03	0.36	NR	manual
11/12/2019	51.15	52.74	1.59	0.48	0.26	manual
5/17/2020	51.23	52.41	1.18	0.82	0.52	manual
8/19/2020	51.30	52.53	1.23	0.77	1.23	manual
11/13/2020	51.36	52.53	1.17	0.69	1.1	manual
Total:				149.3	8149	
Well ID - MW-11						
Date						
4/16/2016	51.51	51.80	0.29	0.45	<0.01	manual
5/25/2016	51.26	51.61	0.35	0.08	0.13	manual
6/20/2016	NM	NM	0.02	0.07	<0.01	manual
7/22/2016	NM	NM	0.22	0.16	0.01	manual
10/12/2016	51.68	51.80	0.12	0.03	<0.01	manual
11/15/2016	51.80	51.81	0.01	<0.01	<0.01	manual
12/13/2016	51.80	51.83	0.03	<0.01	<0.01	manual
6/9/2017	51.22	53.24	2.02	4.0	<0.01	manual
7/16/2017	51.29	53.13	1.84	29.2	464	MDPE*
11/12/2017	51.52	51.54	0.02	<0.01	<0.01	manual
5/16/2018	51.70	52.04	0.34	0.55	NR	manual
7/15/2018	51.82	52.52	0.70	64.3	350	MDPE*
5/22/2019	51.89	52.23	0.34	<0.01	NR	manual
11/12/2019	51.94	52.53	0.59	0.34	0.32	manual
5/17/2020	52.02	52.79	0.77	0.42	0.50	manual
8/19/2020	52.27	52.35	0.08	0.06	0.62	manual
11/13/2020	52.32	52.33	0.01	<0.01	0.1	manual
Total:				99.7	816	
Well ID - MW-21						
Date						
11/13/2020	50.10	50.55	0.45	0.59	0.04	manual
Total:				0.6	0.04	

Table 3
Free Product Recovery Summary
Johnston Federal #4

Well ID - MW-22	Depth to Product (Feet)	Depth to Water (Feet)	Measured Thickness (Feet)	Product Recovered (gal)	Water Recovered (gal)	Recovery Type
Date						
5/17/2020	49.57	49.58	0.01	<0.01	0.03	manual
8/19/2020	49.55	49.94	0.39	0.03	0.41	manual
11/13/2020	49.79	49.95	0.16	0.05	0.03	manual
Total:				0.1	0.5	

Notes:

NM - Not Measured. Measured thickness was obtained by measuring the thickness within a bailer.

ND = Not Detected.

* = Includes calculated recovered hydrocarbon vapors.

NR = Data not recorded

gal = gallons

Product recovery data for 2015 and previous years documented in previously-submitted reports.

TABLE 4 - SOIL ANALYTICAL RESULTS

Johnston Federal #4																					
Location	Date	Benzene (mg/kg)	J	Toluene (mg/kg)	J	Ethylbenzene (mg/kg)	J	Total Xylenes (mg/kg)	J	BTEX Total (mg/kg)	J	GRO C6-10 (mg/kg)	J	DRO C10-28 (mg/kg)	J	MRO C28-35 (mg/kg)	J	TPH (mg/kg)	J	Chloride (mg/kg)	J
NMOCD Criteria:		10		NE		NE		NE		50		NE		NE		NE		100		600	
MW-6 (47.5-50)	11/06/13	0.037	J	0.50		0.17		2.0		2.71		--		--		--		150		81	
MW-7 (43-45)	11/02/13	BDL		0.24		0.37		5.1		5.71		--		--		--		33	J	59	
MW-8 (47.5-50)	11/04/13	BDL		0.19		0.17		2.4		2.76		--		--		--		620		83	
MW-9 (53-55)	11/07/13	0.031	J	0.51		0.32		3.1		3.96		--		--		--		150		27	J
MW-10 (52.5-55)	11/06/13	0.018	J	0.09		0.023	J	0.27		0.401		--		--		--		630		32	J
MW-11 (50-52.5)	11/04/13	BDL		0.040	J	0.098	J	1.6		1.738		--		--		--		170		82	
MW-12 (22.5-25)	11/05/13	BDL		BDL		BDL		BDL		BDL		--		--		--		120		18	J
MW-13 (50-52)	08/10/14	0.00497	J	BDL		0.0318		BDL		0.03677		--		--		--		1000	H	2.19	J
MW-14 (38-40)	08/07/14	BDL		BDL		BDL		BDL		BDL		--		--		--		BDL	H	3.42	J
MW-15 (48-50)	08/08/14	1.64		13.6		2.34		25.5		43.08		--		--		--		2100	H	3.55	J
MW-16 (48-50)	08/09/14	0.144		1.25		0.302		4.03		5.726		--		--		--		46	H	4.07	
MW-17 (46-48)	08/12/14	0.0754	J	0.480		0.367		4.35		5.2724		--		--		--		50		3.12	J
MW-18 (48-50)	08/11/14	0.0248		0.343		0.196		2.23		2.7938		--		--		--		45	H	4.21	
MW-19 (48-50)	08/07/14	0.0253		0.119		0.082		0.786		1.0123		--		--		--		BDL	H	3.6	J
MW-20 (48-50)	08/10/14	0.0266		1.00		0.306		4.34		5.6726		--		--		--		150	H	2.35	J
MW-21 (47-48)	04/17/20	BRL		0.034		0.054		0.68		0.768		22		BRL		11		33		BRL	
MW-22 (47-48)	04/16/20	BRL		0.42		0.36		3.7		4.48		44		BRL		140		184		BRL	
MW-23 (21.5-22.5)	04/17/20	BRL		BRL		BRL		BRL		BRL		BRL		BRL		BRL		BRL		BRL	
SB-1 (36.1-38)	06/30/15	BRL		BRL		2.4		11		13.4		730		160		BRL		890		BRL	
SB-1 (38-40)	06/30/15	7.8		110		46		330		493.8		5,800		320		BRL		6120		BRL	
SB-1 (42.5-45)	06/30/15	7.5		73		24		170		274.5		3,500		160		BRL		3660		BRL	
SB-1 (46.9-48)	06/30/15	1.8		26		13		86		126.8		1,800		250		BRL		2050		BRL	
SVE-1 (30.5-31.5)	06/20/18	0.051		BRL		2.4		13		15.451		520		170		BRL		690		BRL	
SVE-1 (42.3-43.3)	06/20/18	2.0		34		14		110		160.0		2,000		77		BRL		2077		BRL	
TW-1 (47-48)	06/20/18	BRL		BRL		BRL		BRL		BRL		13		9.3		BRL		22		BRL	
TW-2 (43.5-44.5)	06/21/18	BRL		BRL		BRL		BRL		BRL		BRL		BRL		BRL		BRL		BRL	
TW-2 (47-48)	06/21/18	0.14		0.90		0.46		2.9		4.40		63		12		BRL		75		BRL	

Notes:

- J Result is less than the Reporting Limit but greater than or equal to the Method Detection Limit and the concentration is an approximate value.
- H Sample was prepped or analyzed beyond the specified holding time.
- mg/kg Milligrams per kilogram
- BDL Below Detection Limit
- BRL Below Reporting Limit
- NE New Mexico Oil Conservation Division (NMOCD) Standard Not Established
- BTEX Benzene, toluene, ethylbenzene, xylenes
- GRO Gasoline range organics
- DRO Diesel range organics
- MRO Motor oil range organics
- Total BTEX Sum of the detectable concentrations of individual BTEX constituents
- Total TPH Total Petroleum Hydrocarbon, concentration as reported by the analytical laboratory or calculated by adding GRO, DRO, and MRO and rounded to the nearest mg/kg.
- NMOCD Criteria New Mexico Oil Conservation Division closure criteria for groundwater 50 feet or less below the bottom of pit to groundwater less than 10,000 mg/L TDS
- Results bolded and highlighted yellow exceed their respective NMOCD Standards
- Shaded Soil sample interval appears to be submerged based on available static water level gauging data.

FIGURES

FIGURE 1: SITE LOCATION

FIGURE 2: SITE PLAN

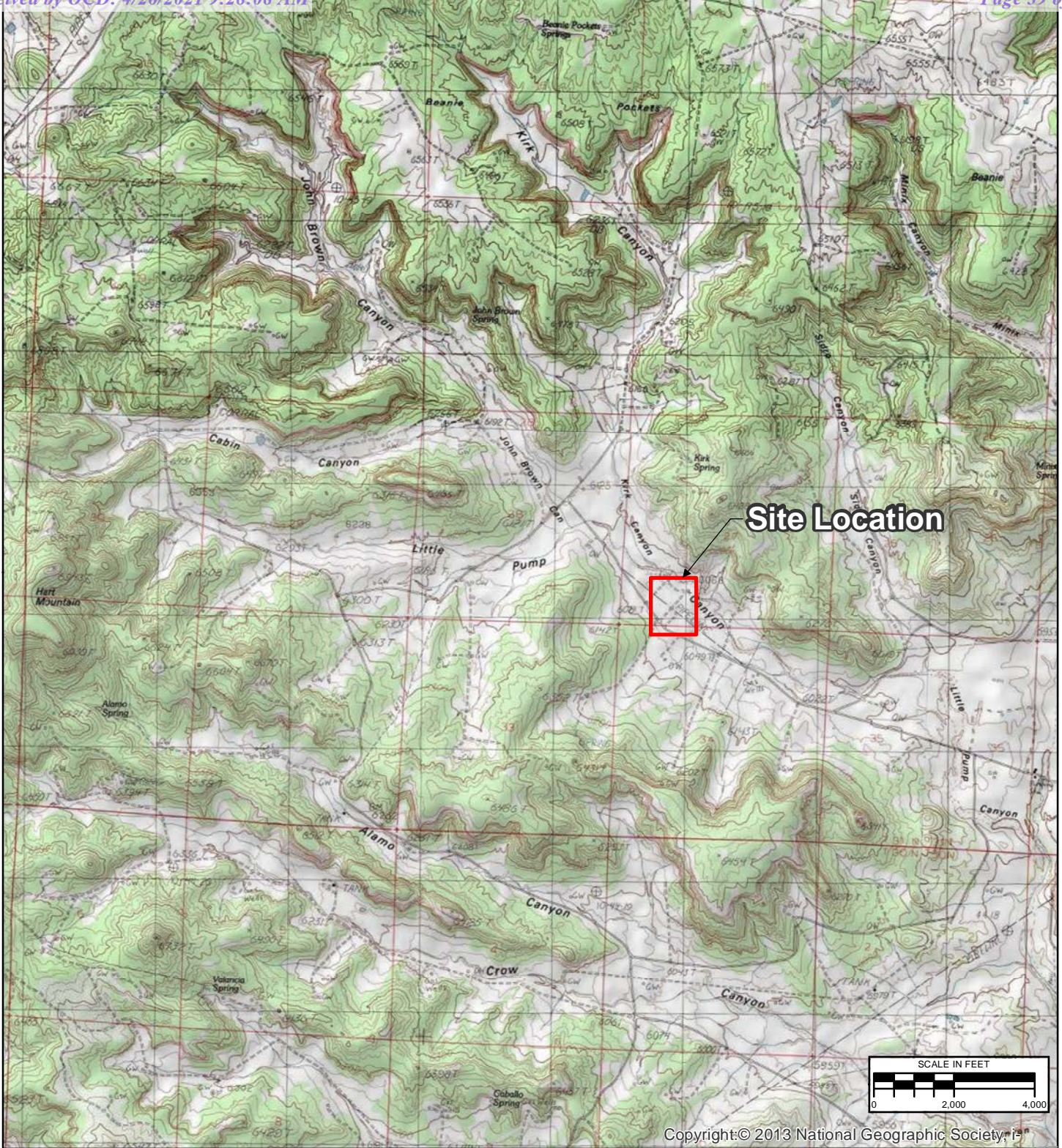
FIGURE 3: GROUNDWATER ANALYTICAL RESULTS MAY 17, 2020

FIGURE 4: GROUNDWATER ELEVATION MAP MAY 17, 2020

FIGURE 5: GROUNDWATER ANALYTICAL RESULTS NOVEMBER 13, 2020

FIGURE 6: GROUNDWATER ELEVATION MAP NOVEMBER 13, 2020

FIGURE 7: SOIL ANALYTICAL RESULTS



National Geographic, Esri, Garmin, HERE, UNEP-WCMC, USGS, NASA,

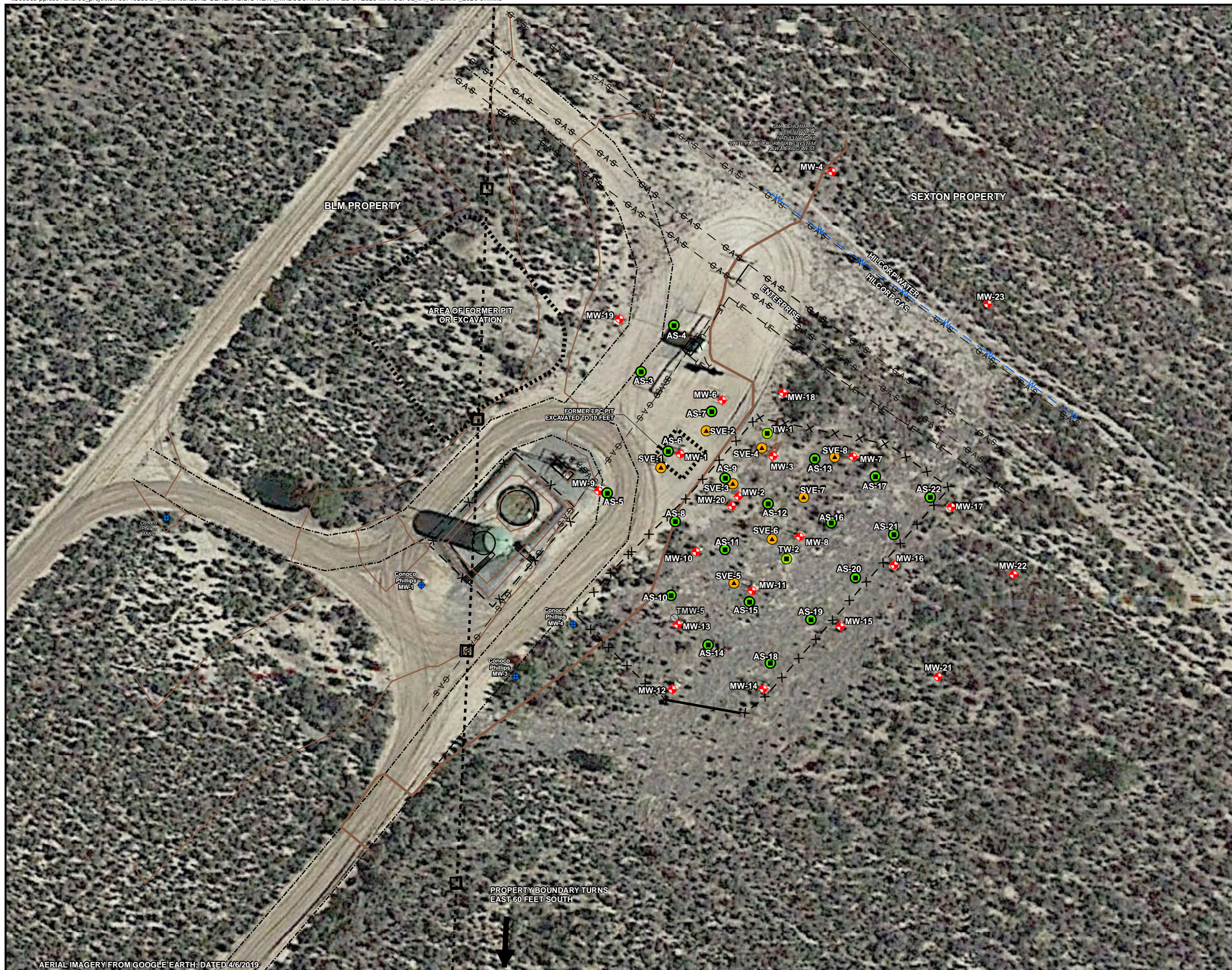
REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	2/16/2021	SAH	SAH	SRV

TITLE	SITE LOCATION
PROJECT	JOHNSTON FED #4 SAN JUAN RIVER BASIN SAN JUAN COUNTY, NEW MEXICO



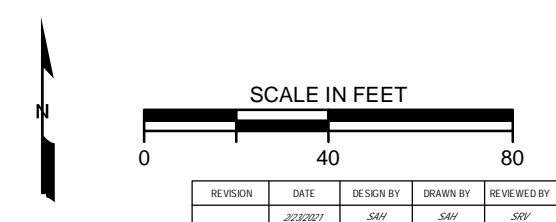
FIGURE **1**

\\Us0389-pfss01\shared_projects\193710238\07_historical\SJRB GENERAL\GIS-NEW_MXD\JOHNSTON FED #4\2020 MAPS\JFed_#4_SITEMAP_2020-07.mxd



LEGEND:

- 6070 APPROX. GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- GAS LINE
- WATER LINE
- FENCE
- UNDERGROUND ELECTRIC
- PROPERTY BOUNDARY
- ABANDONED MONITORING WELL
- CONOCO PHILLIPS MONITORING WELL
- MONITORING WELL
- AIR SPARGE WELL
- SOIL VAPOR EXTRACTION WELL
- SMA BENCHMARK
- SURVEY POST
- FENCE
- GATE



REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	2/22/2021	SAH	SAH	SDY

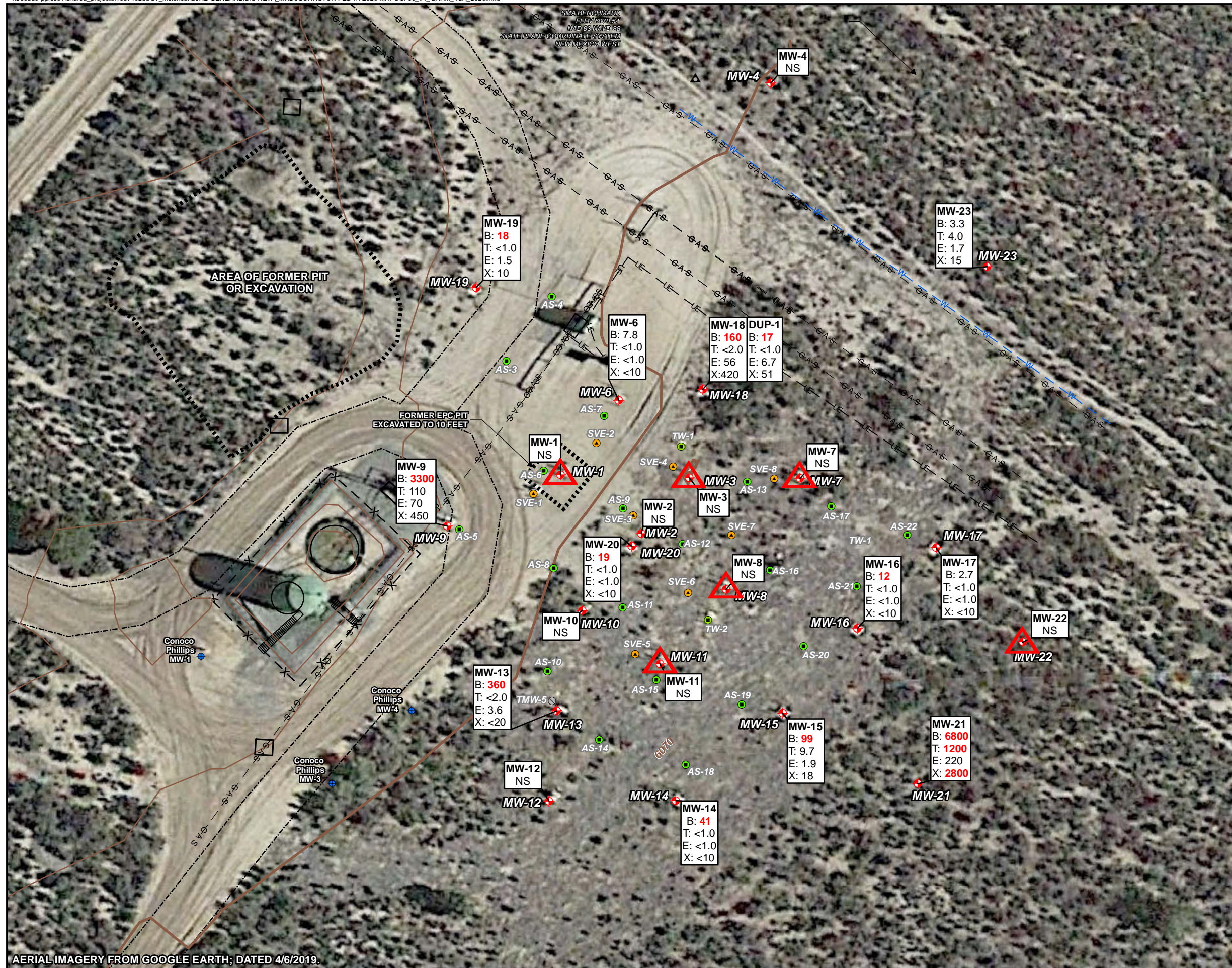
TITLE: *SITE PLAN*

PROJECT: *JOHNSTON FED #4
SAN JUAN RIVER BASIN
SAN JUAN COUNTY, NEW MEXICO*

	Figure No.: 2
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AERIAL IMAGERY FROM GOOGLE EARTH, DATED 4/6/2019.

\\Us0389-ppl\ss01\shared_projects\193710238\07_historical\SJRB GENERAL\GIS-NEW_MXD\JOHNSTON FED #4\2020 MAPS\Fed_#4_GARM_1SA_2020.mxd



LEGEND:

- 6070 APPROX. GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- GAS LINE
- WATER LINE
- FENCE
- UNDERGROUND ELECTRIC
- ABANDONED MONITORING WELL
- MONITORING WELL
- CONOCO PHILLIPS MONITORING WELL
- MONITORING WELL WITH MEASURABLE FREE PRODUCT
- AIR SPARGE WELL
- SOIL VAPOR EXTRACTION WELL
- SMA BENCHMARK

NOTES:
 DUP = FIELD DUPLICATE SAMPLE

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

ANALYTE	NM/QCC STANDARDS
B = Benzene	10 µg/L
T = Toluene	750 µg/L
E = Ethylbenzene	750 µg/L
X = Total Xylenes	620 µg/L

SCALE IN FEET

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	2/22/2021	SAH	SAH	SDV

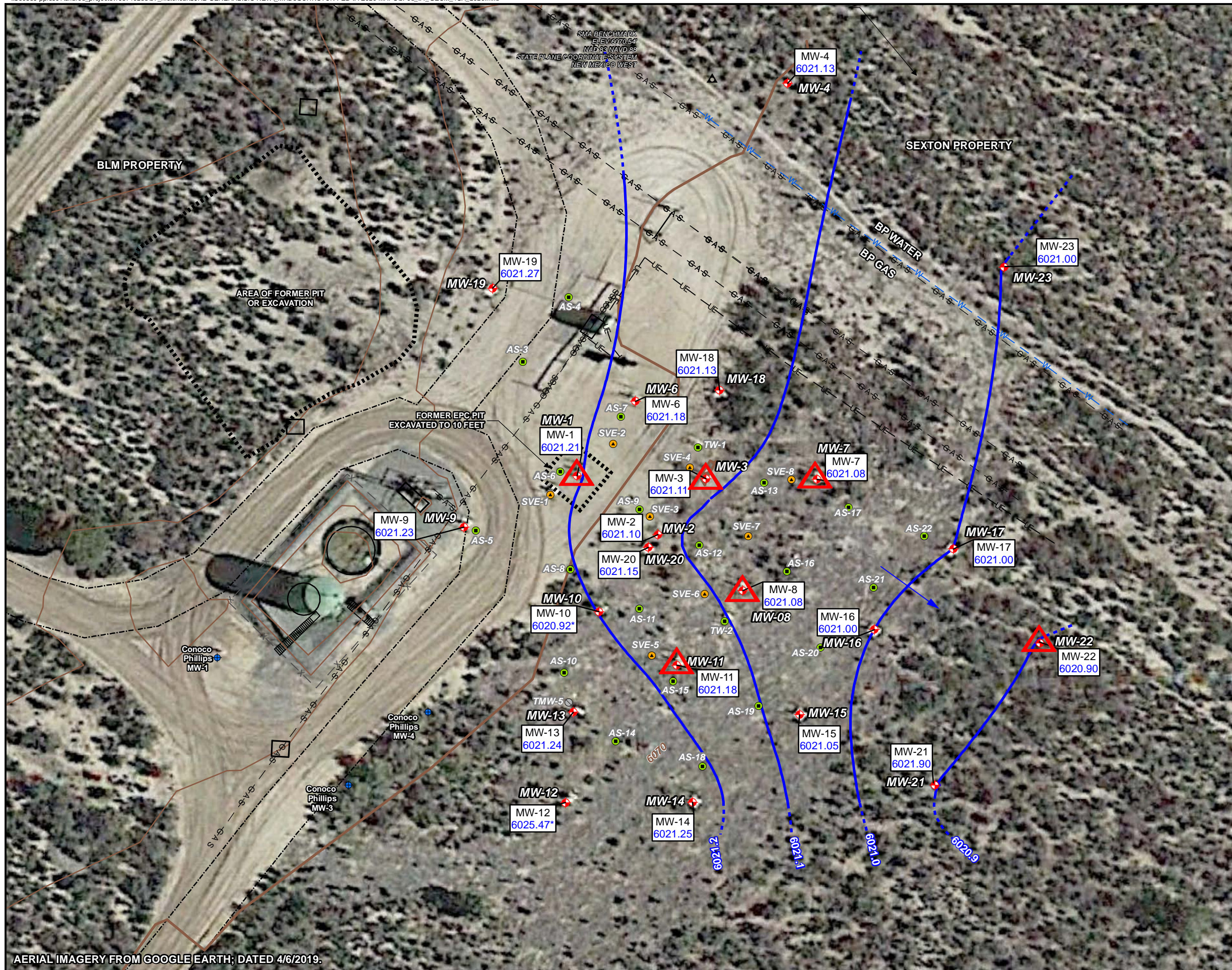
TITLE:
 GROUNDWATER ANALYTICAL RESULTS
 MAY 17, 2020

PROJECT:
 JOHNSTON FED #4
 SAN JUAN RIVER BASIN
 SAN JUAN COUNTY, NEW MEXICO

Stantec Figure No.: **3**

AERIAL IMAGERY FROM GOOGLE EARTH; DATED 4/6/2019.

\\Us0389-ppfss01\shared_projects\193710238\07_historical\SJR GENERAL\GIS-NEW_MXD\JOHNSTON FED #4\2020 MAPS\JFed_#4_GECM_1SA_2020.mxd

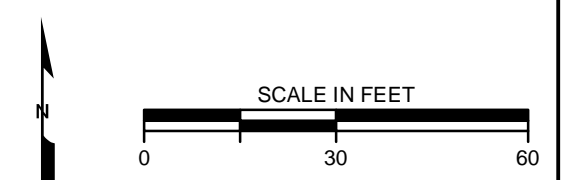


LEGEND:

- 6070 APPROX. GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- GAS LINE
- WATER LINE
- FENCE
- UNDERGROUND ELECTRIC
- ABANDONED MONITORING WELL
- CONOCO PHILLIPS MONITORING WELL
- MONITORING WELL
- MONITORING WELL WITH MEASURABLE FREE PRODUCT
- TEST WELL LOCATION
- SOIL VAPOR EXTRACTION WELL
- SMA BENCHMARK

NOTES:

- 6021.62** GROUNDWATER ELEVATION CORRECTED FOR PRODUCT THICKNESS WHERE PRESENT (FEET ABOVE MEAN SEA LEVEL).
- 6021.5** CORRECTED WATER LEVEL ELEVATION CONTOUR DASHED WHERE INFERRED (FEET ABOVE MEAN SEA LEVEL, 0.1 FOOT CONTOUR INTERVAL)
- DIRECTION OF APPARENT GROUNDWATER FLOW
- * GROUNDWATER ELEVATION APPEARS ANOMALOUS AND WAS NOT USED TO PREPARE CONTOURING GROUNDWATER ELEVATION.



REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
1	2/22/2021	SAH	SAH	SOY

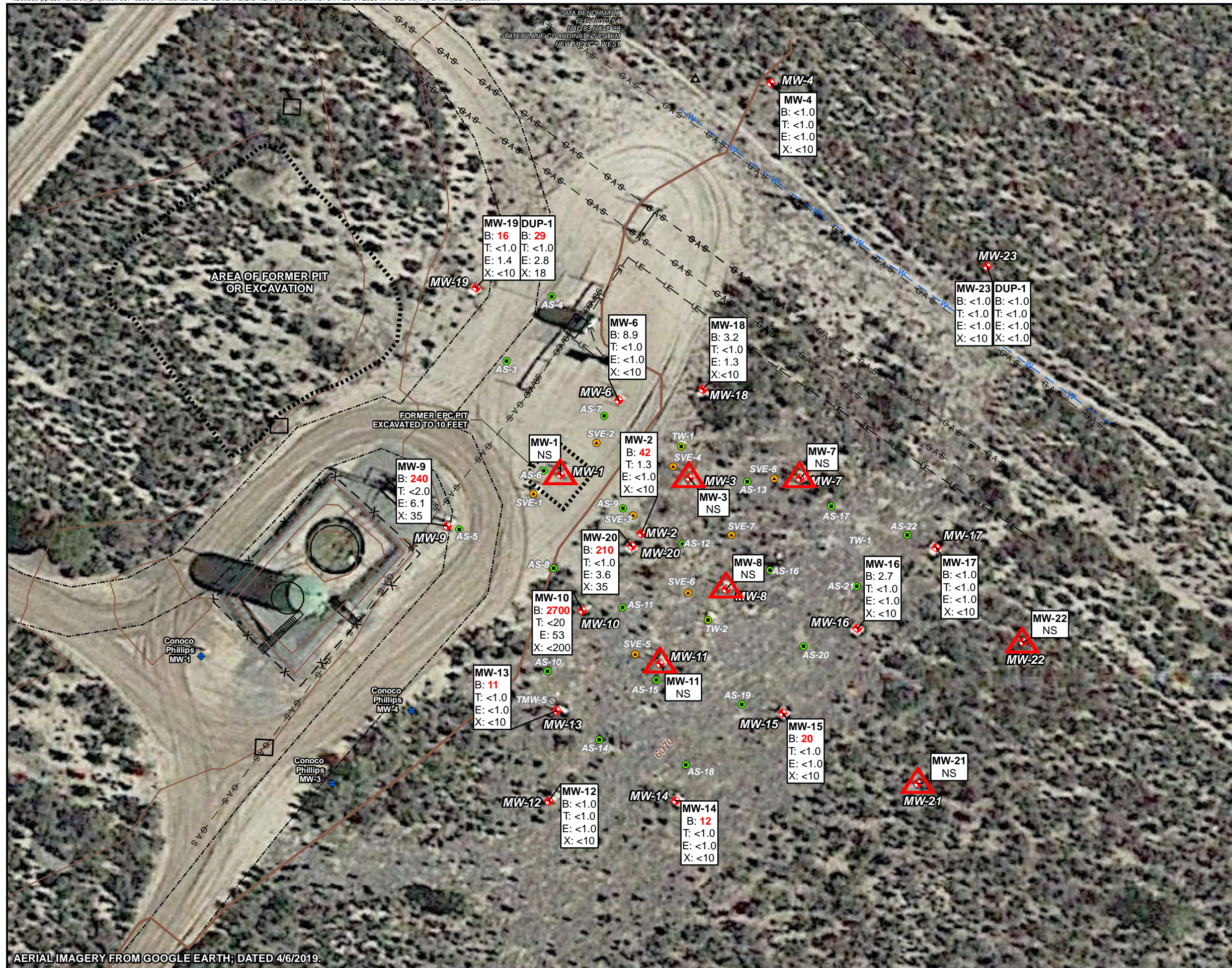
TITLE: *GROUNDWATER ELEVATION MAP
MAY 17, 2020*

PROJECT: *JOHNSTON FED #4
SAN JUAN RIVER BASIN
SAN JUAN COUNTY, NEW MEXICO*

Figure No.: **4**

AERIAL IMAGERY FROM GOOGLE EARTH; DATED 4/6/2019.

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LEGEND:

- 6070 APPROX. GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- GAS LINE
- WATER LINE
- FENCE
- UNDERGROUND ELECTRIC
- ABANDONED MONITORING WELL
- MONITORING WELL
- CONOCO PHILLIPS MONITORING WELL
- MONITORING WELL WITH MEASURABLE FREE PRODUCT
- AIR SPARGE WELL
- SOIL VAPOR EXTRACTION WELL
- SMA BENCHMARK

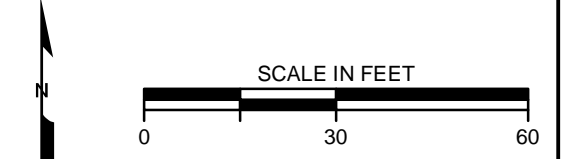
NOTES:

DUP = FIELD DUPLICATE SAMPLE

EXPLANATION OF ANALYTES AND APPLICABLE STANDARDS:

RESULTS IN **BOLDFACE/RED** TYPE INDICATE CONCENTRATION IN EXCESS OF THE STANDARD FOR THAT ANALYTE.
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 µg/L = MICROGRAMS PER LITER
 < = BELOW METHOD DETECTION LIMIT

ANALYTE	NMWWCC STANDARDS
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T = Toluene	750 µg/L
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X = Total Xylenes	620 µg/L



REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	2/22/2021	SAH	SAH	SOY

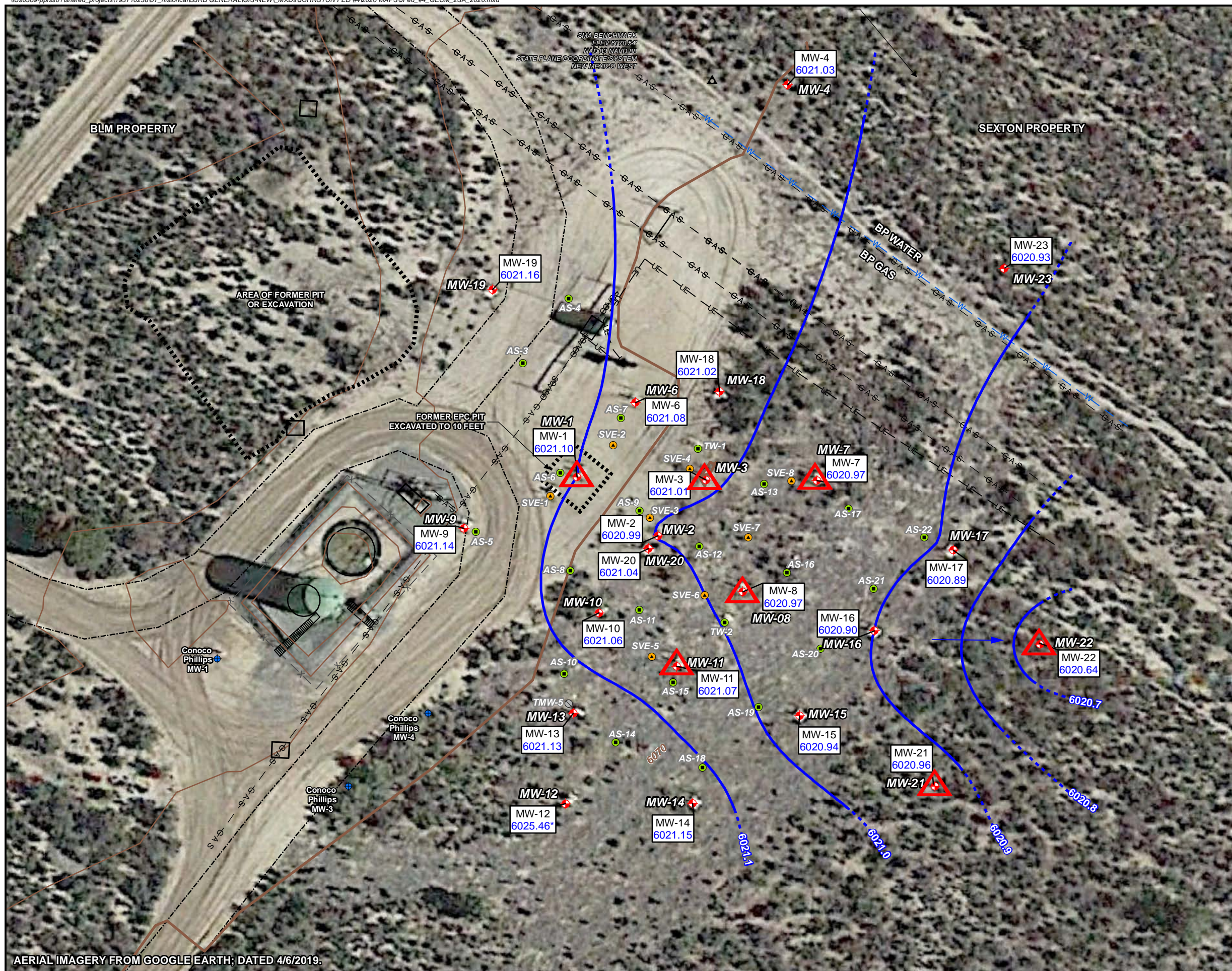
TITLE:
 GROUNDWATER ANALYTICAL RESULTS
 NOVEMBER 13, 2020

PROJECT:
 JOHNSTON FED #4
 SAN JUAN RIVER BASIN
 SAN JUAN COUNTY, NEW MEXICO

Stantec Figure No.: 5

AERIAL IMAGERY FROM GOOGLE EARTH; DATED 4/6/2019.

\\Us0389-ppl\ss01\shared_projects\193710238\07_historical\SJR GENERAL\GIS-NEW_MXD\JOHNSTON FED #4\2020 MAPS\JFed_#4_GECM_2SA_2020.mxd



LEGEND:

- 6070 APPROX. GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- GAS LINE
- WATER LINE
- FENCE
- UNDERGROUND ELECTRIC
- ABANDONED MONITORING WELL
- CONOCO PHILLIPS MONITORING WELL
- MONITORING WELL
- MONITORING WELL WITH MEASURABLE FREE PRODUCT
- TEST WELL LOCATION
- SOIL VAPOR EXTRACTION WELL
- SMA BENCHMARK

NOTES:

- 6021.62 GROUNDWATER ELEVATION CORRECTED FOR PRODUCT THICKNESS WHERE PRESENT (FEET ABOVE MEAN SEA LEVEL).
- 6021.5 CORRECTED WATER LEVEL ELEVATION CONTOUR DASHED WHERE INFERRED (FEET ABOVE MEAN SEA LEVEL, 0.1 FOOT CONTOUR INTERVAL)
- DIRECTION OF APPARENT GROUNDWATER FLOW
- * GROUNDWATER ELEVATION APPEARS ANOMALOUS AND WAS NOT USED TO PREPARE CONTOURING GROUNDWATER ELEVATION.



REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
1	11/13/2020	SAH	SAH	SOY

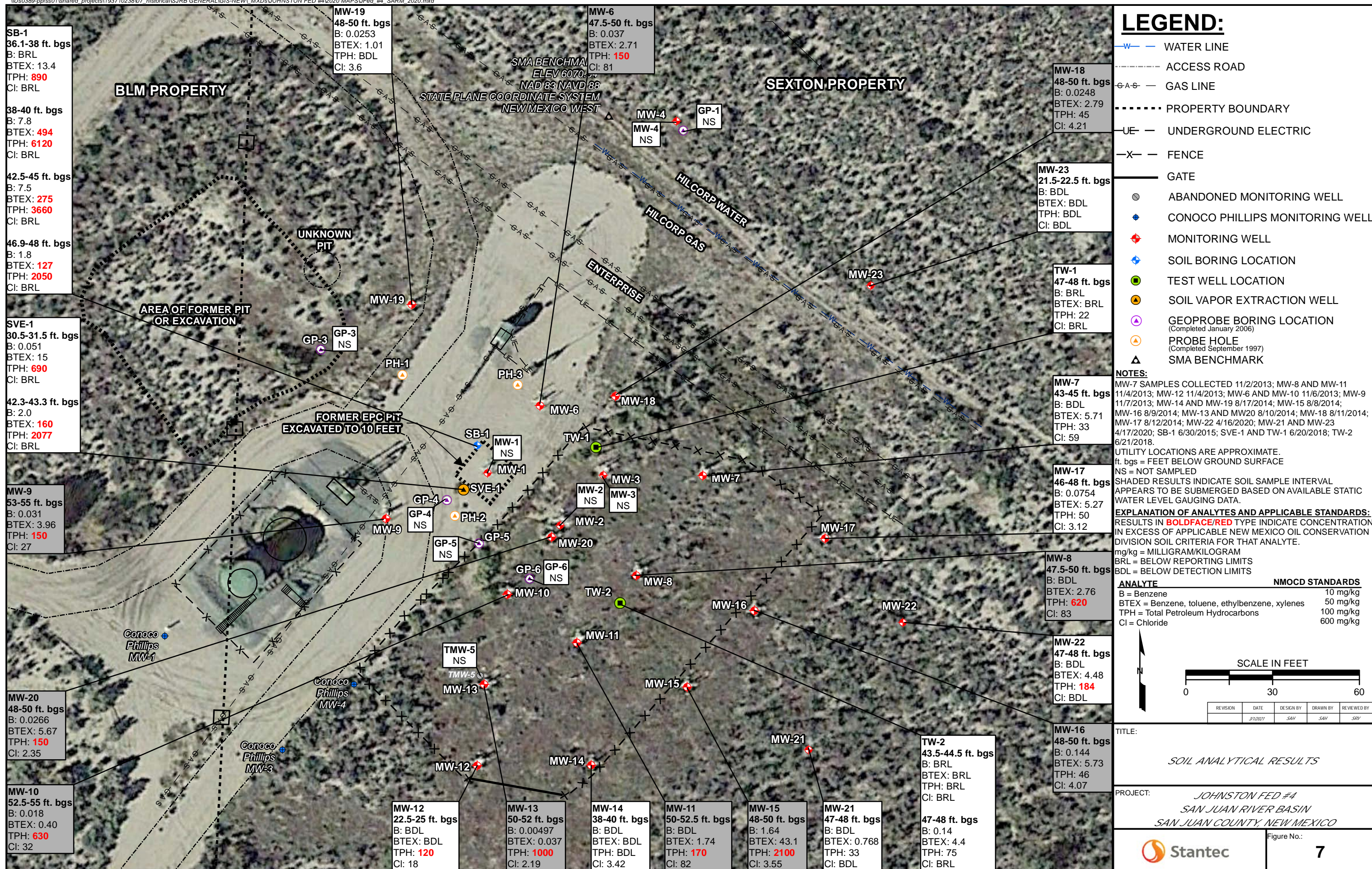
TITLE: *GROUNDWATER ELEVATION MAP
NOVEMBER 13, 2020*

PROJECT: *JOHNSTON FED #4
SAN JUAN RIVER BASIN
SAN JUAN COUNTY, NEW MEXICO*

Stantec Figure No.: **6**

AERIAL IMAGERY FROM GOOGLE EARTH; DATED 4/6/2019.

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LEGEND:

- WATER LINE
- ACCESS ROAD
- GAS LINE
- PROPERTY BOUNDARY
- UNDERGROUND ELECTRIC
- FENCE
- GATE
- ABANDONED MONITORING WELL
- CONOCO PHILLIPS MONITORING WELL
- MONITORING WELL
- SOIL BORING LOCATION
- TEST WELL LOCATION
- SOIL VAPOR EXTRACTION WELL
- GEOPROBE BORING LOCATION (Completed January 2006)
- PROBE HOLE (Completed September 1997)
- SMA BENCHMARK

NOTES:
 MW-7 SAMPLES COLLECTED 11/2/2013; MW-8 AND MW-11 11/4/2013; MW-12 11/4/2013; MW-6 AND MW-10 11/6/2013; MW-9 11/7/2013; MW-14 AND MW-19 8/17/2014; MW-15 8/8/2014; MW-16 8/9/2014; MW-13 AND MW-20 8/10/2014; MW-18 8/11/2014; MW-17 8/12/2014; MW-22 4/16/2020; MW-21 AND MW-23 4/17/2020; SB-1 6/30/2015; SVE-1 AND TW-1 6/20/2018; TW-2 6/21/2018.
 UTILITY LOCATIONS ARE APPROXIMATE.
 ft. bgs = FEET BELOW GROUND SURFACE
 NS = NOT SAMPLED
 SHADED RESULTS INDICATE SOIL SAMPLE INTERVAL APPEARS TO BE SUBMERGED BASED ON AVAILABLE STATIC WATER LEVEL GAUGING DATA.

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
 BDL = BELOW DETECTION LIMITS

ANALYTE	NMOCDS 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

SCALE IN FEET

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	3/12/21	SAH	SAH	SAH

TITLE: *SOIL ANALYTICAL RESULTS*

PROJECT: *JOHNSTON FED #4
SAN JUAN RIVER BASIN
SAN JUAN COUNTY, NEW MEXICO*

Figure No.: **7**

APPENDICES

APPENDIX A – NMOCD NOTIFICATION OF SITE ACTIVITIES

APPENDIX B – SOIL BORING LOG AND WELL CONSTRUCTION DIAGRAMS

APPENDIX C – WASTEWATER DISPOSAL DOCUMENTATION

APPENDIX D - WASTE SOIL DISPOSAL DOCUMENTATION

APPENDIX E – MAY 17, 2020 GROUNDWATER SAMPLING ANALYTICAL REPORT

NOVEMBER 13, 2020 GROUNDWATER SAMPLING ANALYTICAL
REPORT

APPENDIX F – MAY 2020 SOIL SAMPLING ANALYTICAL REPORT

APPENDIX A

From: [Varsa, Steve](#)
To: [Smith, Cory, EMNRD](#)
Cc: [Griswold, Jim, EMNRD](#); [Wiley, Joe](#)
Subject: 3RP-201 Johnston Federal #4 2020 Well Installation Work Plan
Date: Wednesday, April 08, 2020 2:34:47 PM
Attachments: [3RP-201_2020-04_Well_Install_Work_Plan_\(J_Fed_4\)_FINAL.pdf](#)

Hi Cory –

Please find attached the above-referenced work plan for your review and files. Field activities are to begin on Tuesday, April 14, 2020.

Please feel free to contact Joe Wiley, with El Paso CGP Company, or 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

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From: [Varsa, Steve](#)
To: [Smith, Cory, EMNRD](#)
Cc: [Griswold, Jim, EMNRD](#); [Wiley, Joe](#)
Bcc: [Varsa, Steve](#)
Subject: El Paso CGP Company - Notice of upcoming groundwater sampling activities
Date: Tuesday, May 05, 2020 9:45:00 PM

Hi Cory -

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

Site Name	NMOCD Case #	Sample Date
Canada Mesa #2	3RP-155-0	05/11/2020
Fields A#7A	3RP-170-0	05/13/2020
Fogelson 4-1	3RP-068-0	05/15/2020
Gallegos Canyon Unit #124E	3RP-407-0	05/16/2020
GCU Com A #142E	3RP-179-0	05/15/2020
James F. Bell #1E	3RP-196-0	05/16/2020
Johnston Fed #4	3RP-201-0	05/17/2020
Johnston Fed #6A	3RP-202-0	05/17/2020
K27 LDO72	3RP-204-0	05/12/2020
Knight #1	3RP-207-0	05/14/2020
Lateral L 40 Line Drip	3RP-212-0	05/14/2020
Miles Fed #1A	3RP-223-0	05/11/2020
Sandoval GC A #1A	3RP-235-0	05/15/2020
Standard Oil Com #1	3RP-238-0	05/12/2020
State Gas Com N #1	3RP-239-0	05/13/2020

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

Thank you,
Steve

Stephen Varsa, P.G.
 Senior Hydrogeologist
 Stantec Environmental Services
 11153 Aurora Avenue
 Des Moines, Iowa 50322
 Direct: (515) 251-1020
 Cell: (515) 710-7523
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From: [Varsa, Steve](#)
To: [Smith, Cory, EMNRD](#)
Cc: [Griswold, Jim, EMNRD](#); [Wiley, Joe](#)
Subject: El Paso CGP Company - Notice of upcoming product recovery activities
Date: Wednesday, August 12, 2020 3:05:25 PM

Hi Cory -

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

Site Name	Incident Number	Case Number	Date
Canada Mesa #2	Unknown	3RP-155-0	08/19/2020
Fields A#7A	Unknown	3RP-170-0	08/18/2020
Fogelson 4-1	Unknown	3RP-068-0	08/18/2020
Gallegos Canyon Unit #124E	NAUTOFAB000205	3RP-407-0	08/18/2020
James F. Bell #1E	Unknown	3RP-196-0	08/18/2020
Johnston Fed #4	Unknown	3RP-201-0	08/19/2020
Johnston Fed #6A	Unknown	3RP-202-0	08/19/2020
K27 LDO72	Unknown	3RP-204-0	08/19/2020
Knight #1	Unknown	3RP-207-0	08/18/2020
Lateral L 40 Line Drip	Unknown	3RP-212-0	08/19/2020
State Gas Com N #1	Unknown	3RP-239-0	08/18/2020

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

Thank you,
Steve

Stephen Varsa, P.G.
 Senior Hydrogeologist
 Stantec Environmental Services
 11153 Aurora Avenue
 Des Moines, Iowa 50322
 Direct: (515) 251-1020
 Cell: (515) 710-7523
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From: [Smith, Cory, EMNRD](#)
To: [Varsa, Steve](#)
Cc: [Griswold, Jim, EMNRD](#); [Wiley, Joe](#)
Subject: RE: El Paso CGP Company - Notice of upcoming groundwater sampling activities
Date: Thursday, November 05, 2020 8:56:01 AM

Steve,

Thank you for the notification.

Cory Smith
 Environmental Specialist
 Oil Conservation Division
 Energy, Minerals, & Natural Resources
 1000 Rio Brazos, Aztec, NM 87410
 (505)334-6178 ext 115
cory.smith@state.nm.us

From: Varsa, Steve <steve.varsa@stantec.com>
Sent: Thursday, November 5, 2020 6:02 AM
To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>
Cc: Griswold, Jim, EMNRD <Jim.Griswold@state.nm.us>; Wiley, Joe <joe_wiley@kindermorgan.com>
Subject: [EXT] El Paso CGP Company - Notice of upcoming groundwater sampling activities

Hi Cory -

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

Site Name	NMOCD Case #	Sample Date
Canada Mesa #2	3RP-155-0	11/12/2020
Fields A#7A	3RP-170-0	11/14/2020
Fogelson 4-1	3RP-068-0	11/14/2020
Gallegos Canyon Unit #124E	3RP-407-0	11/11/2020
GCU Com A #142E	3RP-179-0	11/11/2020
James F. Bell #1E	3RP-196-0	11/15/2020
Johnston Fed #4	3RP-201-0	11/13/2020
Johnston Fed #6A	3RP-202-0	11/13/2020
K27 LDO72	3RP-204-0	11/12/2020
Knight #1	3RP-207-0	11/11/2020
Lateral L 40 Line Drip	3RP-212-0	11/15/2020
Miles Fed #1A	3RP-223-0	11/12/2020
Sandoval GC A #1A	3RP-235-0	11/13/2020
Standard Oil Com #1	3RP-238-0	11/12/2020
State Gas Com N #1	3RP-239-0	11/14/2020

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

Thank you,
Steve

Stephen Varsa, P.G.

Senior Hydrogeologist
Stantec Environmental Services
11153 Aurora Avenue
Des Moines, Iowa 50322
Direct: (515) 251-1020
Cell: (515) 710-7523
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APPENDIX B





Drilling Log

Monitoring Well **MW-21**

Page: 1 of 2

Project Johnston Fed #4 Client El Paso CGP Company
 Location San Juan County, New Mexico Project Number 193707452
 Surface Elev. 6068.66 ft North 2133267.73 East 2741084.62
 Top of Casing 6071.17 ft Water Level Initial 6020.87 04/17/20 00:00 Static 6020.9 05/17/20 00:00
 Hole Depth 61.0 ft Screen: Diameter 2 in Length 20.0 ft Type/Size PVC/0.01 in
 Hole Diameter 8.25 in Casing: Diameter 2 in Length 41.0 ft Type PVC
 Drill Co. Cascade Drilling Drilling Method Hollow-Stem Auger Sand Pack 10-20
 Driller Matt Cain Driller Reg. # WD-1210 Log By Rob Malcomson
 Start Date 4/17/2020 Completion Date 4/17/2020 Checked By S. Varsa

COMMENTS

Bentonite Chips
 Bentonite Granules
 Grout
 Portland Cement
 Sand Pack
 Sand Pack

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
0		100%			ML	Silt, tan-brown, clayey. Hydro-excavation for utility clearance conducted to a depth of 5 to 8 feet bgs.	
5		75%			CL	Clay, silty, brown, moist, soft	
					ML	Silt, light brownish gray, dry, soft	
10		60%			ML	Silt, light brownish gray, dry, soft	
					SP	Sand, pale brown, fine-grained, dry, loose	
15		60%			SW	Sand, brown, fine to medium-grained, silty in lower portion, dry, loose	
20		40%			SW	Sand, brown, fine to medium-grained, dry, loose	
						Weathered sandstone fragments, pale brown, silty, dry, hard	
25		60%			SW	Sand, pale brown, fine to medium-grained, dry, medium to dense to dense with depth	
30		40%			SW	No recovery	

Continued Next Page

Drilling Log JOHNSTON FED #4.GPJ MWH IA GDT 1/18/21



Drilling Log

Monitoring Well **MW-21**

Page: 2 of 2

Project Johnston Fed #4 Client El Paso CGP Company
 Location San Juan County, New Mexico Project Number 193707452

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
<i>Continued</i>							
35	0.0	40%			SW	Sand, pale brown, fine to medium-grained, dry, dense	
	0.0				CL ML	Clay, pale brown to dark grayish brown, silty, dry, hard No recovery	
40	0.0	80%			CL	Clay, yellowish brown, dry, hard	
	0.0				ML	Silt, pale brown, clayey, dry, loose	
	0.0				CL	Clay, dark yellowish brown, dry, hard, blocky	
	0.0					No recovery	
45	0.0	60%			CL	Clay, dark yellowish brown, dry	
	4.6				CL ML	Clay, olive-gray and black, silty, sandy, dry, stiff to very stiff, hydrocarbon odor	
	45.6					No recovery	
50	19.8	60%			CL ML	Clay, dark gray, silty, sandy, moist, stiff to very stiff, hydrocarbon odor	
	625				SW	Sand, black, wet, medium dense, fine to medium-grained, hydrocarbon odor	
55	220	100%			CL	Clay, moist, very stiff to hard, hydrocarbon odor	
	1.2					Weathered sandstone, olive-gray, fine to medium-grained, weakly cemented, slight hydrocarbon odor	
	8.7				CL ML	Clay, olive, silty, dry, hard, no hydrocarbon odor	
	16.5					Weathered sandstone, pale yellow, dry, fine-grained, strongly cemented, no hydrocarbon odor	
60	2.5	100%				Weathered sandstone, light olive brown, moist, fine-grained, weakly cemented	
	1.1					Weathered sandstone, greenish gray, moist, fine-grained, weakly cemented	
	0.8					Weathered sandstone, greenish gray, moist, fine-grained, moderately cemented	
	0.4					Weathered sandstone, olive, moist, fine-grained, moderately cemented, massive	
	0.7					Weathered sandstone, gray, moist, fine-grained, weakly to moderately cemented	
	0.5					No recovery	
65	0.2	50%			CL ML	Weathered sandstone, tan-gray, moist, fine-grained, strongly cemented	
	0.2					End of boring = 61'	
70							

Drilling Log JOHNSTON FED #4.GPJ MWH IA GDT 1/18/21



Drilling Log

Monitoring Well **MW-22**

Page: 1 of 2

Project Johnston Fed #4 Client El Paso CGP Company
 Location San Juan County, New Mexico Project Number 193707452
 Surface Elev. 6068.03 ft North 2133311.75 East 2741117.15
 Top of Casing 6070.47 ft Water Level Initial 6020.87 04/16/20 00:00 Static 6020.89 05/17/20 00:00
 Hole Depth 59.0 ft Screen: Diameter 2 in Length 20.0 ft Type/Size PVC/0.01 in
 Hole Diameter 8.25 in Casing: Diameter 2 in Length 41.4 ft Type PVC
 Drill Co. Cascade Drilling Drilling Method Hollow-Stem Auger Sand Pack 10-20
 Driller Matt Cain Driller Reg. # WD-1210 Log By Rob Malcomson
 Start Date 4/16/2020 Completion Date 4/17/2020 Checked By S. Varsa

COMMENTS

Bentonite Chips
 Bentonite Granules
 Grout
 Portland Cement
 Sand Pack
 Sand Pack

Depth (ft)	PIID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
0		100%			ML	Silt to clayey silt, tan-brown, stiff. Hydro-excavation for utility clearance conducted to a depth of 5 to 8 feet bgs.	
5		38%			ML	No recovery Silt, tan-pale brown, dry, hard, thinly bedded in lower portion, fine sand layer from 7-7.5'.	
10		40%			ML	No recovery Silt, tan-pale brown, dry, hard, less apparent bedding.	
15		20%			SW	No recovery Sand, light yellowish-brown, dry, loose, fine to medium-grained with trace coarse sand, subrounded	
20		40%			SW	No recovery Sand, light yellowish-brown, dry, loose, fine to medium-grained with trace coarse sand, subrounded, weathered sandstone cobble at 22.5'	
25		40%			SW	No recovery Sand, light yellowish-brown, dry, medium dense, fine to medium-grained	
30		40%				No recovery	

Drilling Log JOHNSTON FED #4.GPJ MWH IA.GDT 1/18/21

Continued Next Page



Drilling Log

Monitoring Well **MW-22**

Page: 2 of 2

Project Johnston Fed #4 Client El Paso CGP Company

Location San Juan County, New Mexico Project Number 193707452

Depth (ft)	PIID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
<i>Continued</i>							
35	0.0	40%			SW	Sand, pale brown, medium dense, fine to medium-grained with trace coarse sand	
	0.0	100%			ML	Silt, yellowish-brown, clayey, dry, medium stiff	
40	0.0	100%			CL ML	Clay, yellowish-brown becoming dark gray, silty, dry to becoming moist at 39', stiff, blocky, some very fine sand from 37.5-40'	
	0.1						
	0.0						
	0.0						
45	0.7	100%			CL	Clay, silty, very dark gray to black at 42', dry, some bedding	
	23.5						
	30.5						
50	16.8	60%			CL	Clay, reddish-gray, sandy, moist, some caliche present, hydrocarbon odor	
	334.4						
55	50.0	60%			CL	No recovery	
	51.0						
	17.0						
60	0.0	40%			CL	Clay, reddish gray, silty, moist, soft	
	0.0						
65	0.0	60%			CL	Clay, dark gray, some medium-grained sandy seams, moist, thinly bedded, hydrocarbon odor	
	0.0						
70	0.0	40%			SW	Clay, dark gray, sandy, wet, laminations present in clay, sand is medium to coarse-grained, yellowish-brown mottling from 53-53.2'	
	0.0						
75	0.0	40%			SW	Sand, black, fine to medium-grained, clayey, wet, loose	
	0.0						
80	0.0	40%			SW	Sand, gray, fine to medium-grained, clayey, wet, dense	
	0.0						
85	0.0	40%			SW	Sand, gray to greenish gray, fine to medium-grained, wet, medium dense, weathered sandstone fragment at 57.2', bedrock at 58'	
	0.0						
						End of boring = 59'	

Drilling Log JOHNSTON FED #4.GPJ MWH IA.GDT 1/18/21



Drilling Log

Monitoring Well **MW-23**

Page: 1 of 2

Project Johnston Fed #4 Client El Paso CGP Company
 Location San Juan County, New Mexico Project Number 193707452
 Surface Elev. 6068.76 ft North 2133428.26 East 2741106.09
 Top of Casing 6071.30 ft Water Level Initial ▽6021 04/17/20 00:00 Static ▽6021 05/17/20 00:00
 Hole Depth 60.7 ft Screen: Diameter 2 in Length 20.0 ft Type/Size PVC/0.01 in
 Hole Diameter 8.25 in Casing: Diameter 2 in Length 43.2 ft Type PVC
 Drill Co. Cascade Drilling Drilling Method Hollow-Stem Auger Sand Pack 10-20
 Driller Matt Cain Driller Reg. # WD-1210 Log By Rob Malcomson
 Start Date 4/16/2020 Completion Date 4/16/2020 Checked By S. Varsa

COMMENTS

Bentonite Chips
 Bentonite Granules
 Grout
 Portland Cement
 Sand Pack
 Sand Pack

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
0						Hydro-excavation for utility clearance conducted to a depth of 5 to 8 feet bgs.	
5		67%					
10		10%			CL	Clay, pale brown dry, very stiff to hard (Hydro-excavated)	
					SW	Sand, light gray, dry, loose, fine to medium-grained (Hydro-excavated) No recovery	
15		0.0			ML	Silt, light brownish gray, dry, soft No recovery	
		40%			SW	Sand, pale brown, dry, loose, fine to medium-grained with trace coarse grains No recovery	
20		60%			SW	Sand, light brownish gray, dry, loose, fine to medium-grained with trace coarse grains	
		7.9			ML	Silt, light brownish gray, dry, stiff to very stiff	
		4.8			SW	Sand, light brownish gray, silty, dry, loose to medium dense, fine to medium-grained	
		3.0				No recovery	
25		40%			SW	Sand, pale brown, trace silt, trace 1.5" diameter gravel, dry, loose to medium dense, fine to medium-grained No recovery	
30		0.0			SW	Sand, pale brown, trace silt, trace 1.5" diameter gravel, dry, loose to medium dense, fine to medium-grained No recovery	
		0.0				No recovery	
		40%					

Drilling Log JOHNSTON FED #4.GPJ MWH IA GDT 1/18/21

Continued Next Page



Drilling Log

Monitoring Well **MW-23**

Page: 2 of 2

Project Johnston Fed #4 Client El Paso CGP Company
 Location San Juan County, New Mexico Project Number 193707452

Depth (ft)	PIID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion	
<i>Continued</i>								
35	0.1	40%			SW	Sand, pale brown, trace silt, trace 1.5" diameter gravel, dry, loose to medium dense, fine to medium-grained		
	0.0				ML	Silt, pale brown becoming very pale brown and dark grayish brown with depth, dry, medium stiff becoming stiff with depth, some lamination in lower portion		
	0.0				ML			
	0.1				CL			Silt, light yellowish brown, dry, medium stiff to stiff
	0.0				CL			Clay, brown, dry, stiff to very stiff
0.0	CL	Clay, brown, dry, hard, blocky						
40	0.0	100%			CL	Clay, brown, silty and some very fine sand with depth, dry to slightly moist from 43-44', hard, blocky, thinly bedded in lower portion, trace caliche		
	0.0				CL	Clay, brown, dry to moist at 45', very stiff		
	0.0				CL	Clay, yellowish brown, silty, sandy, slightly moist, very stiff, medium plasticity, trace caliche		
45	0.0	100%			CL	No recovery		
	0.0				CH	Clay, brown, wet at 50.5', medium plasticity		
50	0.0	80%			CL	Clay, brown, slightly moist, hard, medium plasticity		
	0.7				CH	Clay, dark yellowish brown, sandy, slightly moist, medium stiff, medium plasticity		
	2.0				CL	Clay, brown, sandy, caliche, driller added water at 54'		
	0.5				CH	No recovery		
	0.5				CL	No recovery		
55	0.0	40%			SW	Sand, grayish brown, silty, wet, medium dense, fine to medium-grained		
	0.0				SP	Sand, brown, wet, medium-grained, poorly graded, subrounded grains Not logged		
60						End of boring = 60'		
65								
70								

Drilling Log JOHNSTON FED #4.GPJ MWH IA.GDT 1/18/21



Drilling Log

Monitoring Well **AS-3**

Page: 1 of 2

Project Johnston Fed #4 Client El Paso CGP Company
 Location San Juan County, New Mexico Project Number 193707452
 Surface Elev. 6069.50 ft North 2133398.99 East 2740956.79
 Top of Casing 6070.50 ft Water Level Initial 6020.11 ^{05/08/20} 00:00 Static NA
 Hole Depth 64.0 ft Screen: Diameter 2 in Length 5.0 ft Type/Size PVC/0.02 in
 Hole Diameter 8.25 in Casing: Diameter 2 in Length 58.0 ft Type PVC
 Drill Co. Cascade Drilling Drilling Method Hollow-Stem Auger Sand Pack 10-20
 Driller Matt Cain Driller Reg. # WD-1210 Log By Chris Hiatt
 Start Date 5/7/2018 Completion Date 5/8/2018 Checked By S. Varsa

COMMENTS
 The AS and SVE well TOC and GS elevations have not been surveyed and are estimates. The AS and SVE well casings will be modified at a later date in conjunction with system installation activities.

Bentonite Chips Bentonite Granules Grout Portland Cement Sand Pack Sand Pack

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
0						Hydro-excavation for utility clearance conducted to a depth of 5 to 8 feet bgs. Blind drilled to 44', not sampled or logged. See lithology for nearby well MW-19 where blind drilling occurred.	
5							
10							
15							
20							
25							
30							

Drilling Log JOHNSTON FED #4.GPJ MWH IA GDT 3/2/21

Continued Next Page



Drilling Log

Monitoring Well **AS-3**

Page: 2 of 2

Project Johnston Fed #4 Client El Paso CGP Company
 Location San Juan County, New Mexico Project Number 193707452

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
<i>Continued</i>							
35							
40							
45	NR	64%				No recovery	
	1767				SW	Sand, silty, brown, slightly moist, loose, medium to very coarse-grained, strong hydrocarbon odor	
	1747				SW	Sand, slightly silty, dark grayish-brown, black 48.6-49', moist to wet at 49', fine to very coarse-grained, trace subrounded fine gravel at 48', very strong hydrocarbon odor	
	1523						
	272						
50	NR	56%				No recovery	
	NR						
	13.7				SW	Sand, dark grayish-brown with black staining from 51.2-51.5', becoming brown and clayey 51.8-52.5', then dark yellowish sand, wet, loose, fine/medium to very coarse-grained to 54'	
	14.1						
	20.7						
55	NR	75%				No recovery	
	0.0				SW	Sand, trace silty clay 57.3-58.3', trace yellowish-brown to brown below 57.25', saturated, medium dense, coarse to very coarse-grained 55.25-57.25', fine to coarse-grained 57.25-59',	
	0.0						
	0.0						
	0.0						
60	NR	34%				No recovery	
	NR						
	NR						
	0.0				SW	Sand, brown, wet, medium dense, fine grained to granules to 63.2', then medium to very coarse-grained with silt and clay to 64', intensely banded/mottled (olive, olive-yellow, dark gray) 63.2-64'	
	0.0						
65							
70							

Drilling Log JOHNSTON FED #4.GPJ MWH IA.GDT 3/2/21



Drilling Log

Monitoring Well **AS-4**

Page: 1 of 2

Project Johnston Fed #4 Client El Paso CGP Company
 Location San Juan County, New Mexico Project Number 193707452
 Surface Elev. 6069.50 ft North 2133419.01 East 2740970.94
 Top of Casing 6070.70 ft Water Level Initial 6020.44 05/08/20 00:00 Static NA
 Hole Depth 64.0 ft Screen: Diameter 2 in Length 5.0 ft Type/Size PVC/0.02 in
 Hole Diameter 8.25 in Casing: Diameter 2 in Length 58.0 ft Type PVC
 Drill Co. Cascade Drilling Drilling Method Hollow-Stem Auger Sand Pack 10-20
 Driller Matt Cain Driller Reg. # WD-1210 Log By Chris Hiatt
 Start Date 5/8/2020 Completion Date 5/8/2020 Checked By S. Varsa

COMMENTS
 The AS and SVE well TOC and GS elevations have not been surveyed and are estimates. The AS and SVE well casings will be modified at a later date in conjunction with system installation activities.

Bentonite Chips Bentonite Granules Grout Portland Cement Sand Pack Sand Pack

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
0						Hydro-excavation for utility clearance conducted to a depth of 5 to 8 feet bgs. Blind drilled to 44', not sampled or logged. See lithology for nearby well MW-19 where blind drilling occurred.	
5							
10							
15							
20							
25							
30							

Drilling Log JOHNSTON FED #4.GPJ MWH IA GDT 3/2/21

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Drilling Log

Monitoring Well **AS-4**

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Project Johnston Fed #4 Client El Paso CGP Company
 Location San Juan County, New Mexico Project Number 193707452

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
<i>Continued</i>							
35							
40							
45	NR	80%				No recovery	
541					SW	Sand, clayey to slightly clayey, brown, slightly moist, trace fine to coarse gravel	
238							
389					SP	Sand, moist, fine-grained	
1015					CL	Clay, silty, slightly sandy, gray, moist, soft, abundant CaCO3 veins	
50	NR	56%			SW	Sand, brown with black staining from 48.6-49', wet, fine to coarse-grained, hydrocarbon odor	
NR						No recovery	
5.0					SW	Sand, brown, wet, loose, fine to coarse-grained, slight hydrocarbon odor	
8.0					SC	Sand, very clayey to sandy Clay, brown, trace coarse gravel, moist, slight hydrocarbon odor	
0.0					SW	Sand, yellowish-brown, wet, loose, fine to coarse-grained, no hydrocarbon odor	
55	NR	70%				No recovery	
NM							
0.2					SW	Sand, olive and dark yellowish-brown, wet, very loose, medium to very coarse-grained 55.5-56' and 58-58.9', medium grained to granules 56-58', at 58.9' becomes a silty, very weathered, mottled, very weak sandstone.	
0.0							
60	NR	40%				No recovery. Driller noted the 63-64' interval was hard.	
NR							
NR							
0.0					SW	Sand, brown, wet, medium to very coarse-grained	
0.0					SW	Sand, yellowish-brown, very moist, fine to very coarse-grained, intensely banded/mottled (yellowish-brown, dark greenish gray)	
65							
70							

Drilling Log JOHNSTON FED #4.GPJ MWH IA.GDT 3/2/21



Drilling Log

Monitoring Well **AS-5**

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Project Johnston Fed #4 Client El Paso CGP Company
 Location San Juan County, New Mexico Project Number 193707452
 Surface Elev. 6069.70 ft North 2133346.73 East 2740942.20
 Top of Casing 6071.50 ft Water Level Initial 6020.67 05/08/20 00:00 Static NA
 Hole Depth 64.0 ft Screen: Diameter 2 in Length 5.0 ft Type/Size PVC/0.02 in
 Hole Diameter 8.25 in Casing: Diameter 2 in Length 58.0 ft Type PVC
 Drill Co. Cascade Drilling Drilling Method Hollow-Stem Auger Sand Pack 10-20
 Driller Matt Cain Driller Reg. # WD-1210 Log By Chris Hiatt
 Start Date 5/5/2020 Completion Date 5/6/2020 Checked By S. Varsa

COMMENTS
 The AS and SVE well TOC and GS elevations have not been surveyed and are estimates. The AS and SVE well casings will be modified at a later date in conjunction with system installation activities.

Bentonite Chips Bentonite Granules Grout Portland Cement Sand Pack Sand Pack

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
0						Hydro-excavation for utility clearance conducted to a depth of 5 to 8 feet bgs. Blind drilled to 44', not sampled or logged. See lithology for nearby well MW-9 where blind drilling occurred.	
5							
10							
15							
20							
25							
30							

Drilling Log JOHNSTON FED #4.GPJ MWH IA.GDT 3/2/21

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Drilling Log

Monitoring Well **AS-5**

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Project Johnston Fed #4 Client El Paso CGP Company
 Location San Juan County, New Mexico Project Number 193707452

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
<i>Continued</i>							
35							
40							
45	NR	70%				No recovery	
46.0							
46.0 - 48.1	357.1				SW	Sand, few fines, brown to 47', dark gray to 47.7', very dark greenish-gray to 48.1', then a black-stained band to 48.2' and greenish-gray to 49', dry to slightly moist at 48.5', fine to coarse grained to 48' then medium to coarse 48-49'	
48.1 - 49'	1553						
49'	960.6					No recovery	
50	NR	40%					
50	NR						
50	NR						
50	96.5				SW	Sand, greenish-gray (continued), strong black staining at 52.25', saturated, loose, hydrocarbon odor	
52.25	64.1					Sand, very few fines, dark yellowish-brown, wet, medium dense, medium grained to granules, trace slight hydrocarbon odor	
55	NR	70%				No recovery	
55	137.4				SW	Sand with random clayey inclusions, yellowish-brown, wet, very loose, coarse-grained to granules, cobble at base along with 2-inches of very sandy, mottled (dark yellowish-brown) clay, slight hydrocarbon odor	
55	25.0				SW	Sand, yellowish-brown, wet, medium dense, medium to very coarse-grained, no hydrocarbon odor, driller noted very hard between 57-59'	
55	31.9				SW	Sand, clayey with coarse gravel, very moist, medium dense, some sand is weakly cemented, no hydrocarbon odor	
55	13.1				SW	No recovery	
60	NR	50%					
60	NR						
60	37.1				SW	Sand, coarse to very coarse-grained, clayey with abundant fine and coarse gravel, no hydrocarbon odor	
60	10.9				SC	Weathered sandstone, slightly silty at base, brown to yellowish-brown, very dense to hard, moderately cemented, no hydrocarbon odor	
60	60.4						
65							
70							

Drilling Log JOHNSTON FED #4.GPJ MWH IA.GDT 3/2/21



Drilling Log

Monitoring Well **AS-6**

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Project Johnston Fed #4 Client El Paso CGP Company
 Location San Juan County, New Mexico Project Number 193707452
 Surface Elev. 6069.80 ft North 2133364.89 East 2740968.41
 Top of Casing 6070.90 ft Water Level Initial 6020.67 05/08/20 00:00 Static NA
 Hole Depth 64.0 ft Screen: Diameter 2 in Length 5.0 ft Type/Size PVC/0.02 in
 Hole Diameter 8.25 in Casing: Diameter 2 in Length 58.0 ft Type PVC
 Drill Co. Cascade Drilling Drilling Method Hollow-Stem Auger Sand Pack 10-20
 Driller Matt Cain Driller Reg. # WD-1210 Log By Chris Hiatt
 Start Date 5/5/2020 Completion Date 5/5/2020 Checked By S. Varsa

COMMENTS
 The AS and SVE well TOC and GS elevations have not been surveyed and are estimates. The AS and SVE well casings will be modified at a later date in conjunction with system installation activities.

Bentonite Chips Bentonite Granules Grout Portland Cement Sand Pack Sand Pack

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
0						Hydro-excavation for utility clearance conducted to a depth of 5 to 8 feet bgs. Blind drilled to 44', not sampled or logged. See lithology for nearby well MW-1 where blind drilling occurred.	
5							
10							
15							
20							
25							
30							

Drilling Log JOHNSTON FED #4.GPJ MWH IA.GDT 3/2/21

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Drilling Log

Monitoring Well **AS-6**

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Project Johnston Fed #4 Client El Paso CGP Company
 Location San Juan County, New Mexico Project Number 193707452

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
<i>Continued</i>							
35							
40							
45	NR	70%			SW	No recovery Sand, slightly clayey, brown becoming dark gray at 48.25', slightly moist to moist at 47.3' and wet at 48.7', loose, fine to coarse-grained, greenish-black staining/banding at 48.25' with slight hydrocarbon odor	
50	NR	50%				No recovery	
55	NR	70%			SW	Sand, slightly clayey at 52.6', dark gray to 52.6' then dark greenish-gray, saturated, loose, fine to very coarse-grained, slight hydrocarbon odor	
60	NR	34%				No recovery	
65	NR				SW	Sand, dark gray to 56.5' then yellowish-brown, saturated, loose to 56.5' then very loose to 59', coarse-grained to granules to 56.5' then fine to medium-grained, trace granules again from 58-59', no hydrocarbon odor	
70	NR				SW	Sand, yellowish-brown, wet, loose, coarse to very coarse-grained, trace fine gravel, mottled/banded at 63' (dark yellowish-brown) and at 63.75' (very dark grayish-brown)	

Drilling Log JOHNSTON FED #4.GPJ MWH IA.GDT 3/2/21



Drilling Log

Monitoring Well **AS-7**

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Project Johnston Fed #4 Client El Paso CGP Company
 Location San Juan County, New Mexico Project Number 193707452
 Surface Elev. 6068.70 ft North 2133381.96 East 2740987.15
 Top of Casing 6069.80 ft Water Level Initial 6020.27 ^{05/08/20} 00:00 Static NA
 Hole Depth 64.0 ft Screen: Diameter 2 in Length 5.0 ft Type/Size PVC/0.02 in
 Hole Diameter 8.25 in Casing: Diameter 2 in Length 58.0 ft Type PVC
 Drill Co. Cascade Drilling Drilling Method Hollow-Stem Auger Sand Pack 10-20
 Driller Matt Cain Driller Reg. # WD-1210 Log By Chris Hiatt
 Start Date 5/6/2020 Completion Date 5/7/2020 Checked By S. Varsa

COMMENTS
 The AS and SVE well TOC and GS elevations have not been surveyed and are estimates. The AS and SVE well casings will be modified at a later date in conjunction with system installation activities.

Bentonite Chips Bentonite Granules Grout Portland Cement Sand Pack Sand Pack

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
0						Hydro-excavation for utility clearance conducted to a depth of 5 to 8 feet bgs. Blind drilled to 44', not sampled or logged. See lithology for nearby well MW-6 where blind drilling occurred.	
5							
10							
15							
20							
25							
30							

Drilling Log JOHNSTON FED #4.GPJ MWH IA GDT 3/2/21

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Drilling Log

Monitoring Well **AS-7**

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Project Johnston Fed #4 Client El Paso CGP Company

Location San Juan County, New Mexico Project Number 193707452

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
<i>Continued</i>							
35							
40							
45	NR	70%				No recovery	
47.9	1761				SW	Sand, silty, becomes clayey from 48-48.5', dark yellowish-brown becoming very dark gray/greenish-gray from 48.5-49', slightly moist, loose, medium-grained to granules, general hydrocarbon odor becoming strong at 49'	
1551	1580					No recovery	
50	NR	60%					
51.75	4.1				SW SC	Sand, very clayey from 51.75-52.75' then slightly clayey and silty to 54', medium-grained to granules from 51-54', medium to very coarse-grained at 54', dark yellowish-brown, wet, loose, minor black staining at 53.8', no hydrocarbon odor	
55	8.9	100%			SW	Sand, yellowish-brown, saturated, very loose becoming medium dense at 57.5', mottled from 57.5-59', medium-grained to granules, trace fine to coarse subangular gravel from 58.5-59', no hydrocarbon odor	
57.5	34.3						
59	147						
60	9.8	100%			SW SC	Sand, clayey to slightly clayey, slightly silty, fewer fines below 63.2', brown to pale brown becoming dark yellowish-brown to orangish from 63.8-64', saturated below 63', olive mottling, trace fine gravel	
63.2	2.3						
63.8	1.1						
64	1.8						
65	0.0						
66	2.3						
67	0.0						
68	0.0						
70							

Drilling Log JOHNSTON FED #4.GPJ MWH IA.GDT 3/2/21



Drilling Log

Monitoring Well **AS-8**

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Project Johnston Fed #4 Client El Paso CGP Company
 Location San Juan County, New Mexico Project Number 193707452
 Surface Elev. 6070.20 ft North 2133334.59 East 2740971.45
 Top of Casing 6071.90 ft Water Level Initial 6020.15 ^{05/08/20} 00:00 Static NA
 Hole Depth 64.0 ft Screen: Diameter 2 in Length 5.0 ft Type/Size PVC/0.02 in
 Hole Diameter 8.25 in Casing: Diameter 2 in Length 57.9 ft Type PVC
 Drill Co. Cascade Drilling Drilling Method Hollow-Stem Auger Sand Pack 10-20
 Driller Matt Cain Driller Reg. # WD-1210 Log By Chris Hiatt
 Start Date 5/4/2020 Completion Date 5/5/2020 Checked By S. Varsa

COMMENTS
 The AS and SVE well TOC and GS elevations have not been surveyed and are estimates. The AS and SVE well casings will be modified at a later date in conjunction with system installation activities.

Bentonite Chips
 Bentonite Granules
 Grout
 Portland Cement
 Sand Pack
 Sand Pack

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
0						Hydro-excavation for utility clearance conducted to a depth of 5 to 8 feet bgs. Blind drilled to 44', not sampled or logged. See lithology for nearby well MW-10 where blind drilling occurred.	
5							
10							
15							
20							
25							
30							

Drilling Log JOHNSTON FED #4.GPJ MWH IA.GDT 3/2/21

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Drilling Log

Monitoring Well **AS-8**

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Project Johnston Fed #4 Client El Paso CGP Company
 Location San Juan County, New Mexico Project Number 193707452

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
<i>Continued</i>							
35							
40							
45	NR	70%				No recovery	
45.5	15.5				SW	Sand, slightly silty, yellowish-brown becoming dark gray from 49.8-49', wet at 49.8', loose, fine to very coarse-grained, black staining at 49.8', hydrocarbon odor	
46.8	26.8						
47.7	33.6						
48.1	3.9					No recovery	
50	NR	60%				No recovery	
50.5	NR				SW	Sand, dark gray (continued)	
51.3	5.8				SWG	Sand, olive-brown to light olive-brown at 53', saturated, medium to coarse-grained to 53' then coarse to very coarse-grained with rounded coarse gravel to 54'	
51.7	5.4						
51.9	5.2					No recovery	
55	NR	55%					
55.0	NR				SWG	Sand and gravel with random minor clayey inclusions, dark yellowish-brown, wet, dense to very dense, fine to very coarse-grained sand, angular to well-rounded coarse gravel, no hydrocarbon odor	
55.0	0.0				SM	Sand, silty, dark yellowish-brown, very moist, medium dense, some portions are weakly cemented, no hydrocarbon odor	
55.0	0.0					No recovery	
55.0	0.0	90%			SW	Sand, slightly clayey, trace fine gravel, dark yellowish-brown becoming brown at 61.8', wet, loose	
55.0	0.0					Weathered sandstone to 62.5', hard, then moderately cemented sand to 63', then a loose and weakly cemented sand to 64', mottled and grayish-brown at 63.5'	
65							
70							

Drilling Log JOHNSTON FED #4.GPJ MWH IA.GDT 3/2/21



Drilling Log

Monitoring Well **AS-9**

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Project Johnston Fed #4 Client El Paso CGP Company
 Location San Juan County, New Mexico Project Number 193707452
 Surface Elev. 6069.90 ft North 2133353.24 East 2740992.96
 Top of Casing 6071.70 ft Water Level Initial 6021.21 05/08/20 00:00 Static NA
 Hole Depth 64.0 ft Screen: Diameter 2 in Length 5.0 ft Type/Size PVC/0.02 in
 Hole Diameter 8.25 in Casing: Diameter 2 in Length 58.6 ft Type PVC
 Drill Co. Cascade Drilling Drilling Method Hollow-Stem Auger Sand Pack 10-20
 Driller Matt Cain Driller Reg. # WD-1210 Log By Chris Hiatt
 Start Date 5/4/2020 Completion Date 5/4/2020 Checked By S. Varsa

COMMENTS
 The AS and SVE well TOC and GS elevations have not been surveyed and are estimates. The AS and SVE well casings will be modified at a later date in conjunction with system installation activities.

Bentonite Chips Bentonite Granules Grout Portland Cement Sand Pack Sand Pack

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
0						Hydro-excavation for utility clearance conducted to a depth of 5 to 8 feet bgs. Blind drilled to 44', not sampled or logged. See lithology for nearby well MW-2 where blind drilling occurred.	
5							
10							
15							
20							
25							
30							

Drilling Log JOHNSTON FED #4.GPJ MWH IA.GDT 3/2/21

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Drilling Log

Monitoring Well **AS-9**

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Project Johnston Fed #4 Client El Paso CGP Company
 Location San Juan County, New Mexico Project Number 193707452

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
Continued							
35							
40							
45	NR	70%				No recovery	
	1537				SW	Sand, slightly clayey, dark grayish-brown, slightly moist, loose, fine to very coarse-grained	
	1256				SW	Sand, few fines, dark grayish-brown, black staining from 47.8-48.4', then dark greenish-gray to 49', moist to wet at 48.5', loose, medium to coarse-grained with trace granules, strong hydrocarbon odor	
	1309						
	1220					No recovery	
50	2.3	80%			CL SC	Sand, very clayey to Clay, very sandy, bluish-black, wet, loose/soft	
	19.8						
	48.0				SW	Sand, slightly clayey, bluish-black, wet, very loose	
	9.7				CL	Clay, dark greenish-gray, wet, medium stiff	
	6.9				SW	Sand, clayey, black, wet, loose	
	6.9				CL	Clay, silty, slightly sandy, dark greenish-gray, soft	
55	NR	24%				Sand, slightly clayey, bluish-black, wet	
	NR					No recovery	
	0.0						
	0.2				SW	Sand, slightly silty, dark gray to very dark gray, at 58.5', saturated, loose, coarse to very coarse-grained	
60	NR	50%				No recovery	
	NR						
	0.0						
	0.0				SW	Sand, grayish-brown to 62.8' then brown to 64', wet, loose, very coarse-grained with fine gravel to 62.8' then fine to very coarse-grained with trace clay to 64', mottled/banded from 62.8-63.4'	
	0.0						
65							
70							

Drilling Log JOHNSTON FED #4.GPJ MWH IA GDT 3/2/21



Drilling Log

Monitoring Well **AS-10**

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Project Johnston Fed #4 Client El Paso CGP Company
 Location San Juan County, New Mexico Project Number 193707452
 Surface Elev. 6069.80 ft North 2133302.75 East 2740969.61
 Top of Casing 6072.10 ft Water Level Initial 6020.78 05/08/20 00:00 Static NA
 Hole Depth 64.0 ft Screen: Diameter 2 in Length 5.0 ft Type/Size PVC/0.02 in
 Hole Diameter 8.25 in Casing: Diameter 2 in Length 58.3 ft Type PVC
 Drill Co. Cascade Drilling Drilling Method Hollow-Stem Auger Sand Pack 10-20
 Driller Matt Cain Driller Reg. # WD-1210 Log By Chris Hiatt
 Start Date 4/23/2020 Completion Date 4/28/2020 Checked By S. Varsa

COMMENTS
 The AS and SVE well TOC and GS elevations have not been surveyed and are estimates. The AS and SVE well casings will be modified at a later date in conjunction with system installation activities.

Bentonite Chips
 Bentonite Granules
 Grout
 Portland Cement
 Sand Pack
 Sand Pack

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
0						Hydro-excavation for utility clearance conducted to a depth of 5 to 8 feet bgs. Blind drilled to 44', not sampled or logged. See lithology for nearby well TMW-5 where blind drilling occurred.	
5							
10							
15							
20							
25							
30							

Drilling Log JOHNSTON FED #4.GPJ MWH IA GDT 3/2/21

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Drilling Log

Monitoring Well **AS-10**

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Project Johnston Fed #4 Client El Paso CGP Company
 Location San Juan County, New Mexico Project Number 193707452

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
<i>Continued</i>							
35							
45	107 1649 1382 149.2	80%				No recovery SP Sand, slightly clayey, brown, slightly moist, loose, fine-grained SP Sand, dark gray, slightly moist, coarse-grained, cobble at 47', strong hydrocarbon odor CL Clay, silty, slightly sandy (very fine-grained) 48-49', gray becoming olive with depth, slightly moist, soft, blocky texture, mottled	
50	20.2 31.8 86.4 104.5 68.4	100%				Weathered sandstone (very fine to coarse-grained), very clayey in upper portion, dark gray to black becoming bluish-gray at 52', saturated from 49-50.5', very moist to wet at 51.5', weakly to moderately cemented, hydrocarbon odor SM Sand, silty, yellowish-brown, very fine to fine-grained, hydrocarbon odor CL Clay, yellowish-brown, dry, medium stiff SM Sand, silty, pale brown, loose, very fine to medium-grained	
55	0.4 0.3 1.7 2.4 0.2	80%				Weathered sandstone, gray to greenish-gray, dry, very fine to fine-grained, moderately to strongly cemented, breaks into sharp angular fragments, cementation becomes weaker with depth	
60	0.1 2.0 0.2 0.1 0.4	100%				SW Sand, brown with a 6-inch layer of greenish-gray at 63.5', moist. medium dense to dense, coarse to very coarse-grained	
65							
70							

Drilling Log JOHNSTON FED #4.GPJ MWH IA GDT 3/2/21



Drilling Log

Monitoring Well **AS-11**

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Project Johnston Fed #4 Client El Paso CGP Company
 Location San Juan County, New Mexico Project Number 193707452
 Surface Elev. 6070.20 ft North 2133322.43 East 2740992.86
 Top of Casing 6074.10 ft Water Level Initial 6021.41 05/08/20 00:00 Static NA
 Hole Depth 64.0 ft Screen: Diameter 2 in Length 5.0 ft Type/Size PVC/0.02 in
 Hole Diameter 8.25 in Casing: Diameter 2 in Length 56.6 ft Type PVC
 Drill Co. Cascade Drilling Drilling Method Hollow-Stem Auger Sand Pack 10-20
 Driller Matt Cain Driller Reg. # WD-1210 Log By Chris Hiatt
 Start Date 4/28/2020 Completion Date 4/29/2020 Checked By S. Varsa

COMMENTS
 The AS and SVE well TOC and GS elevations have not been surveyed and are estimates. The AS and SVE well casings will be modified at a later date in conjunction with system installation activities.

Bentonite Chips Bentonite Granules Grout Portland Cement Sand Pack Sand Pack

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
0						Hydro-excavation for utility clearance conducted to a depth of 5 to 8 feet bgs. Blind drilled to 44', not sampled or logged. See lithology for nearby well MW-10 where blind drilling occurred.	
5							
10							
15							
20							
25							
30							

Drilling Log JOHNSTON FED #4.GPJ MWH IA GDT 3/2/21

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Drilling Log

Monitoring Well **AS-11**

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Project Johnston Fed #4 Client El Paso CGP Company

Location San Juan County, New Mexico Project Number 193707452

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
<i>Continued</i>							
35							
45	NR	60%				No recovery	
	38.6			CL	CL	Clay, sandy, brown, dry, soft	
	559.6			SP	SP	Sand, slightly silty, brown becoming pale brown to dark grayish-brown with depth, slightly moist, loose, fine-grained, strong hydrocarbon odor	
	1297						
	221.9						
50	NR	20%				No recovery	
	NR						
	NR						
	4.3			SW	SW	Sand, brown with black (weathered hydrocarbon) staining at 53', wet, loose, medium to coarse-grained	
	4.7						
55	5.6	100%				Weathered sandstone, some discontinuous silty layers present, minor brown to dark yellowish-brown clayey layer at 56.5', olive, wet, moderately cemented to 56.5', loose, fine to medium-grained	
	2.5						
	5.7						
	4.8						
60	3.0	100%				Sand, very slightly clayey at 63', brown with blue-gray staining (charcoal) at 60', moist to wet, coarse to very coarse-grained	
	8.4			SW	SW		
	6.1						
	5.0						
	7.5						
	1.4						
65							
70							

Drilling Log JOHNSTON FED #4.GPJ MWH IA.GDT 3/2/21



Drilling Log

Monitoring Well **AS-12**

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Project Johnston Fed #4 Client El Paso CGP Company
 Location San Juan County, New Mexico Project Number 193707452
 Surface Elev. 6069.90 ft North 2133342.17 East 2741011.49
 Top of Casing 6071.50 ft Water Level Initial 6021.15 05/08/20 00:00 Static NA
 Hole Depth 64.0 ft Screen: Diameter 2 in Length 5.0 ft Type/Size PVC/0.02 in
 Hole Diameter 8.25 in Casing: Diameter 2 in Length 59.0 ft Type PVC
 Drill Co. Cascade Drilling Drilling Method Hollow-Stem Auger Sand Pack 10-20
 Driller Matt Cain Driller Reg. # WD-1210 Log By Chris Hiatt
 Start Date 4/29/2020 Completion Date 4/29/2020 Checked By S. Varsa

COMMENTS
 The AS and SVE well TOC and GS elevations have not been surveyed and are estimates. The AS and SVE well casings will be modified at a later date in conjunction with system installation activities.

Bentonite Chips Bentonite Granules Grout Portland Cement Sand Pack Sand Pack

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
0						Hydro-excavation for utility clearance conducted to a depth of 5 to 8 feet bgs. Blind drilled to 44', not sampled or logged. See lithology for nearby well MW-2 where blind drilling occurred.	
5							
10							
15							
20							
25							
30							

Drilling Log JOHNSTON FED #4.GPJ MWH IA GDT 3/2/21

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Drilling Log

Monitoring Well **AS-12**

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Project Johnston Fed #4 Client El Paso CGP Company
 Location San Juan County, New Mexico Project Number 193707452

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
<i>Continued</i>							
35							
45	NR 148.9 558.6 675.6 1331	70%			SC	No recovery Sand, clayey, dark grayish-brown to olive with depth, moist 46-48', moist to wet 48-49', loose, medium to very coarse-grained, strong hydrocarbon odor	
50	7.7 6.7 1.5 3.4	85%			SC	No recovery	
					CL SC	Sand, clayey (continued) Clay, very sandy, bluish-black to very dark grayish-brown, wet to 51.5' then moist to 52.5', soft, no hydrocarbon odor	
					SC	Sand, clayey, bluish-black to dark gray, moist to 53' then wet, loose, fine to coarse-grained, no hydrocarbon odor	
55	NR NR NR	30%				No recovery	
	47.6				SW	Sand, bluish-black to dark gray at base, wet, loose, medium to coarse-grained to 58.3', medium to very coarse-grained 58.3-59', no hydrocarbon odor	
60	NR NR NR	20%				No recovery	
	1.7				SW	Sand, brown, wet, loose, very coarse-grained to 63.5' then medium to coarse-grained	
65	0.9						
70							

Drilling Log JOHNSTON FED #4.GPJ MWH IA.GDT 3/2/21



Drilling Log

Monitoring Well **AS-13**

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Project Johnston Fed #4 Client El Paso CGP Company
 Location San Juan County, New Mexico Project Number 193707452
 Surface Elev. 6069.90 ft North 2133361.50 East 2741031.57
 Top of Casing 6071.80 ft Water Level Initial 6021.24 05/08/20 00:00 Static NA
 Hole Depth 64.0 ft Screen: Diameter 2 in Length 5.0 ft Type/Size PVC/0.02 in
 Hole Diameter 8.25 in Casing: Diameter 2 in Length 58.7 ft Type PVC
 Drill Co. Cascade Drilling Drilling Method Hollow-Stem Auger Sand Pack 10-20
 Driller Matt Cain Driller Reg. # WD-1210 Log By Chris Hiatt
 Start Date 4/29/2020 Completion Date 4/30/2020 Checked By S. Varsa

COMMENTS
 The AS and SVE well TOC and GS elevations have not been surveyed and are estimates. The AS and SVE well casings will be modified at a later date in conjunction with system installation activities.

Bentonite Chips Bentonite Granules Grout Portland Cement Sand Pack Sand Pack

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
0						Hydro-excavation for utility clearance conducted to a depth of 5 to 8 feet bgs. Blind drilled to 44', not sampled or logged. See lithology for nearby well MW-3 where blind drilling occurred.	
5							
10							
15							
20							
25							
30							

Drilling Log JOHNSTON FED #4.GPJ MWH IA.GDT 3/2/21

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Drilling Log

Monitoring Well **AS-13**

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Project Johnston Fed #4 Client El Paso CGP Company

Location San Juan County, New Mexico Project Number 193707452

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
<i>Continued</i>							
35							
40							
45	NR 1461 963 229 1442	70%			SC	No recovery Sand, with a very clayey layer from 48.2-48.7', olive-gray, moist to wet at 48.3', loose, medium to very coarse-grained, becomes fine to coarse-grained from 48-49', strong hydrocarbon odor in black-stained sand from 48.7-49'	
50	NR NR 23.4 19.1	40%			SW	No recovery Sand, slightly clayey to 53', olive-gray (continued), some black staining at 52', saturated, loose, fine to coarse-grained	
55	NR 4.0 2.6 5.6	70%			SW	No recovery Sand, yellowish-brown, saturated, loose, medium to coarse-grained, coarse to very coarse-grained from 57.5-59'	
60	NR NR 1.8 0.4 1.4	50%			SW	No recovery Sand, brown, saturated, very loose, coarse to very coarse-grained, trace granules from 63.5-64', light yellowish-brown mottling 63.5-64', no hydrocarbon odor	
65							
70							

Drilling Log JOHNSTON FED #4.GPJ MWH IA.GDT 3/2/21



Drilling Log

Monitoring Well **AS-14**

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Project Johnston Fed #4 Client El Paso CGP Company
 Location San Juan County, New Mexico Project Number 193707452
 Surface Elev. 6069.00 ft North 2133281.31 East 2740985.58
 Top of Casing 6072.20 ft Water Level Initial ▽6022.5 ^{04/21/20} 00:00 Static ▽ NA
 Hole Depth 64.0 ft Screen: Diameter 2 in Length 5.0 ft Type/Size PVC/0.02 in
 Hole Diameter 8.25 in Casing: Diameter 2 in Length 59.3 ft Type PVC
 Drill Co. Cascade Drilling Drilling Method Hollow-Stem Auger Sand Pack 10-20
 Driller Matt Cain Driller Reg. # WD-1210 Log By Rob Malcomson
 Start Date 4/20/2020 Completion Date 4/21/2020 Checked By S. Varsa

COMMENTS
 The AS and SVE well TOC and GS elevations have not been surveyed and are estimates. The AS and SVE well casings will be modified at a later date in conjunction with system installation activities.

Bentonite Chips Bentonite Granules Grout Portland Cement Sand Pack Sand Pack

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
0						Hydro-excavation for utility clearance conducted to a depth of 5 to 8 feet bgs. Blind drilled to 44', not sampled or logged. See lithology for nearby well MW-13 where blind drilling occurred.	
5							
10							
15							
20							
25							
30							

Drilling Log JOHNSTON FED #4.GPJ MWH IA.GDT 3/2/21

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Drilling Log

Monitoring Well **AS-14**

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Project Johnston Fed #4 Client El Paso CGP Company
 Location San Juan County, New Mexico Project Number 193707452

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
<i>Continued</i>							
35							
40							
45	22.8	100%			SC ML	Sand, clayey, olive-gray, dry, loose, fine to medium-grained. Silt, clayey, some fine sand, bluish-gray, dry, medium stiff.	
44	40.0					Shale/siltstone, pale yellow, dry, thinly bedded.	
43	10.9						
42	20.4				ML	Silt, sandy, clayey with depth, very pale brown to light greenish-gray, dry, soft becoming very hard with depth, blocky.	
41	31.5					Shale, greenish-gray, dry, hard, weakly cemented, 1/4-inch bedding.	
50	0.0	100%				Weathered sandstone, greenish-gray, dry to slightly-moist, weakly cemented, medium-grained, mottled at 52'.	
49	1.0						
48	0.0						
47	0.8						
46	0.0						
55	0.1	100%				Weathered sandstone, light gray, slightly-moist, hard, weakly to moderately cemented, thinly-bedded to massive, loose sand fine to medium-grained from 58-59'.	
54	1.4						
53	2.5						
52	0.2						
51	0.8						
60	0.0	100%				Weathered sandstone, olive-gray, moist, weakly cemented, fine to medium-grained.	
59	0.0						
58	0.1						
57	0.0						
56	0.0						
65	0.1	100%			SW	Sand, pale olive to yellowish-brown, fine to medium-grained, moist to wet, loose to dense, moderately cemented, possible thin coal seam from 62.8-63'.	
70							

Drilling Log JOHNSTON FED #4.GPJ MWH IA GDT 3/2/21



Drilling Log

Monitoring Well **AS-15**

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Project Johnston Fed #4 Client El Paso CGP Company
 Location San Juan County, New Mexico Project Number 193707452
 Surface Elev. 6069.90 ft North 2133299.94 East 2741003.40
 Top of Casing 6072.00 ft Water Level Initial 6022.1 ^{04/22/20} 00:00 Static NA
 Hole Depth 64.0 ft Screen: Diameter 2 in Length 5.0 ft Type/Size PVC/0.02 in
 Hole Diameter 8.25 in Casing: Diameter 2 in Length 58.2 ft Type PVC
 Drill Co. Cascade Drilling Drilling Method Hollow-Stem Auger Sand Pack 10-20
 Driller Matt Cain Driller Reg. # WD-1210 Log By Rob Malcomson
 Start Date 4/21/2020 Completion Date 4/22/2020 Checked By S. Varsa

COMMENTS
 The AS and SVE well TOC and GS elevations have not been surveyed and are estimates. The AS and SVE well casings will be modified at a later date in conjunction with system installation activities.

Bentonite Chips Bentonite Granules Grout Portland Cement Sand Pack Sand Pack

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
0						Hydro-excavation for utility clearance conducted to a depth of 5 to 8 feet bgs. Blind drilled to 44', not sampled or logged. See lithology for nearby well MW-11 where blind drilling occurred.	
5							
10							
15							
20							
25							
30							

Drilling Log JOHNSTON FED #4.GPJ MWH IA.GDT 3/2/21

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Drilling Log

Monitoring Well **AS-15**

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Project Johnston Fed #4 Client El Paso CGP Company
 Location San Juan County, New Mexico Project Number 193707452

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
Continued							
35							
40							
45	NR	60%				No recovery.	
29.8	NR			CL		Clay, dark yellowish-brown, dry, medium stiff to hard, laminated.	
1186	∇			SW		Sand, silty, grayish-brown, slightly moist, medium dense, fine to medium-grained, 2-inch gravel at 47.5', hydrocarbon odor.	
110						Weathered siltstone, sandy, dark gray, dry, hard, banded mottling.	
50		100%				Weathered siltstone to shale, sandy, light brownish-gray to very pale brown, dry to moist at 50', thinly bedded to fissile, hydrocarbon odor.	
46.8							
31.5							
3.2							
24.5						Weathered sandstone, silty, dark greenish-gray, slightly moist, fine to medium-grained, moderately to strongly cemented.	
3.9							
55		100%				Weathered shale, sandy, yellowish-brown, slightly-moist, fissile, weakly cemented, black coloration between layers.	
13.8						Weathered sandstone, gray, slightly moist, weakly cemented, fine to medium-grained.	
3.0						Weathered sandstone, greenish-gray, slightly moist to moist, weakly to moderately cemented, fine to medium-grained.	
2.0							
0.9							
60	NR	80%				No recovery.	
2.0						Weathered sandstone, olive-gray to gray, wet, weakly cemented, fine to medium-grained.	
39.0							
27.9							
65						Weathered sandstone, light olive to pale brown with depth, wet, weakly cemented, medium-grained.	
12.2							
70							

Drilling Log JOHNSTON FED #4.GPJ MWH IA GDT 3/2/21



Drilling Log

Monitoring Well **AS-16**

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Project Johnston Fed #4 Client El Paso CGP Company
 Location San Juan County, New Mexico Project Number 193707452
 Surface Elev. 6069.40 ft North 2133333.98 East 2741038.70
 Top of Casing 6071.50 ft Water Level Initial ▽6023 04/22/20 00:00 Static ▽ NA
 Hole Depth 64.0 ft Screen: Diameter 2 in Length 5.0 ft Type/Size PVC/0.02 in
 Hole Diameter 8.25 in Casing: Diameter 2 in Length 57.8 ft Type PVC
 Drill Co. Cascade Drilling Drilling Method Hollow-Stem Auger Sand Pack 10-20
 Driller Matt Cain Driller Reg. # WD-1210 Log By Rob Malcomson
 Start Date 4/22/2020 Completion Date 4/22/2020 Checked By S. Varsa

COMMENTS
 The AS and SVE well TOC and GS elevations have not been surveyed and are estimates. The AS and SVE well casings will be modified at a later date in conjunction with system installation activities.

Bentonite Chips Bentonite Granules Grout Portland Cement Sand Pack Sand Pack

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
0						Hydro-excavation for utility clearance conducted to a depth of 5 to 8 feet bgs. Blind drilled to 44', not sampled or logged. See lithology for nearby well MW-8 where blind drilling occurred.	
5							
10							
15							
20							
25							
30							

Drilling Log JOHNSTON FED #4.GPJ MWH IA.GDT 3/2/21

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Drilling Log

Monitoring Well **AS-16**

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Project Johnston Fed #4 Client El Paso CGP Company

Location San Juan County, New Mexico Project Number 193707452

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
<i>Continued</i>							
35							
40							
45	NR	40%				No recovery.	
46	NR						
47	NR						
48	NR						
49	NR						
50	NR	70%					
51	NR						
52	NR						
53	NR						
54	NR						
55	NR	0%				No recovery. Driller added water at 55' to control possible flowing sand.	
56	NR						
57	NR						
58	NR						
59	NR	70%					
60	NR						
61	NR						
62	NR						
63	NR						
64	NR						
65	NR						
66	NR						
67	NR						
68	NR						
69	NR						
70	NR						

Drilling Log JOHNSTON FED #4.GPJ MWH IA GDT 3/2/21



Drilling Log

Monitoring Well **AS-17**

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Project Johnston Fed #4 Client El Paso CGP Company
 Location San Juan County, New Mexico Project Number 193707452
 Surface Elev. 6069.00 ft North 2133353.92 East 2741057.73
 Top of Casing 6072.10 ft Water Level Initial 6020.97 05/08/20 00:00 Static NA
 Hole Depth 64.0 ft Screen: Diameter 2 in Length 5.0 ft Type/Size PVC/0.02 in
 Hole Diameter 8.25 in Casing: Diameter 2 in Length 57.5 ft Type PVC
 Drill Co. Cascade Drilling Drilling Method Hollow-Stem Auger Sand Pack 10-20
 Driller Matt Cain Driller Reg. # WD-1210 Log By Rob Malcomson
 Start Date 4/22/2020 Completion Date 4/23/2020 Checked By S. Varsa

COMMENTS
 The AS and SVE well TOC and GS elevations have not been surveyed and are estimates. The AS and SVE well casings will be modified at a later date in conjunction with system installation activities.

Bentonite Chips
 Bentonite Granules
 Grout
 Portland Cement
 Sand Pack
 Sand Pack

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
0						Hydro-excavation for utility clearance conducted to a depth of 5 to 8 feet bgs. Blind drilled to 44', not sampled or logged. See lithology for nearby well MW-7 where blind drilling occurred.	
5							
10							
15							
20							
25							
30							

Drilling Log JOHNSTON FED #4.GPJ MWH IA.GDT 3/2/21

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Drilling Log

Monitoring Well **AS-17**

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Project Johnston Fed #4 Client El Paso CGP Company

Location San Juan County, New Mexico Project Number 193707452

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
<i>Continued</i>							
35							
40							
45	NR	80%			CL	No recovery. Clay, sandy, silty, slightly moist, medium stiff, some caliche.	
	362						
	1441						
	508				SM	Sand, silty, clayey, dark gray, moist to wet, medium dense, some black banding at 48.5'.	
	1711						
50	NR	30%				No recovery.	
	NR						
	NR						
	NR				SM	Sand, silty, clayey, grayish-brown, moist to wet, medium dense.	
	2.2				CL	Clay, silty, yellowish-brown, moist, stiff, some caliche.	
					SW	Sand, some fines, dark yellowish-brown, moist to wet, loose, medium to coarse-grained.	
55	NR	24%				No recovery.	
	NR						
	NR						
	NR				SW	Sand, dark yellowish-brown, wet, loose to medium dense, medium to coarse-grained, some light olive hard clay at base.	
60	NR	10%				No recovery.	
	NR						
	NR						
	NR						
	0.6						
65	NR				SW	Sand, light brownish-gray, wet, loose, fine to medium-grained.	
	0.0						
70							

Drilling Log JOHNSTON FED #4.GPJ MWH IA.GDT 3/2/21



Drilling Log

Monitoring Well **AS-18**

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Project Johnston Fed #4 Client El Paso CGP Company
 Location San Juan County, New Mexico Project Number 193707452
 Surface Elev. 6069.90 ft North 2133273.60 East 2741012.46
 Top of Casing 6072.10 ft Water Level Initial 6022.6 ^{04/20/20} 00:00 Static NA
 Hole Depth 64.5 ft Screen: Diameter 2 in Length 5.0 ft Type/Size PVC/0.02 in
 Hole Diameter 8.25 in Casing: Diameter 2 in Length 59.5 ft Type PVC
 Drill Co. Cascade Drilling Drilling Method Hollow-Stem Auger Sand Pack 10-20
 Driller Matt Cain Driller Reg. # WD-1210 Log By Rob Malcomson
 Start Date 4/20/2020 Completion Date 4/20/2020 Checked By S. Varsa

COMMENTS
 The AS and SVE well TOC and GS elevations have not been surveyed and are estimates. The AS and SVE well casings will be modified at a later date in conjunction with system installation activities.

Bentonite Chips
 Bentonite Granules
 Grout
 Portland Cement
 Sand Pack
 Sand Pack

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
0						Hydro-excavation for utility clearance conducted to a depth of 5 to 8 feet bgs. Blind drilled to 44', not sampled or logged. See lithology for nearby well MW-14 where blind drilling occurred.	
5							
10							
15							
20							
25							
30							

Drilling Log JOHNSTON FED #4.GPJ MWH IA.GDT 3/2/21

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Drilling Log

Monitoring Well **AS-18**

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Project Johnston Fed #4 Client El Paso CGP Company
 Location San Juan County, New Mexico Project Number 193707452

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
<i>Continued</i>							
35							
45	47.2	100%			SW CL ML	Sand, clayey, olive, dry, medium dense, medium to fine-grained, hydrocarbon odor. Clay with silt, olive to yellowish-brown, dry, hard, thinly bedded or blocky, hydrocarbon odor.	
	14.6						
	395						
	56						
50	18.2	100%				Shale, sandy, dark gray, dry, dark yellowish-brown, layered. Weathered sandstone, bluish-gray, dry, medium to fine-grained, weakly cemented with some hard layers, slight hydrocarbon odor at 51' becoming stronger at 52'. Weathered sandstone, brown, moist, medium-grained, weakly to moderately cemented.	
	1.8						
	16.5						
	43.5						
	10.6						
	11.1						
55	0.4	100%				Weathered sandstone, slightly moist, medium to fine-grained, moderately to strongly cemented, massive. Weathered sandstone, bluish-gray, slightly moist, fine to medium-grained, thinly bedded becoming more massive with depth, weakly to moderately cemented.	
	0.2						
	0.4						
	1.2						
	0.1						
60	NR	60%				No recovery	
	NR						
	0.0					Weathered sandstone, bluish-gray, dry to slightly moist, fine-grained, thinly bedded, possible thin coal seams at 61.5' and 61.8'.	
	0.1						
	0.0						
65					SW	Sand, brown, wet, medium to coarse subrounded to subangular grains, weakly cemented.	
70							
75							

Drilling Log JOHNSTON FED #4.GPJ MWH IA GDT 3/2/21



Drilling Log

Monitoring Well **AS-19**

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Project Johnston Fed #4 Client El Paso CGP Company
 Location San Juan County, New Mexico Project Number 193707452
 Surface Elev. 6069.70 ft North 2133292.34 East 2741029.92
 Top of Casing 6074.50 ft Water Level Initial ▽6026 ^{04/20/20} 00:00 Static ▽ NA
 Hole Depth 64.0 ft Screen: Diameter 2 in Length 5.0 ft Type/Size PVC/0.02 in
 Hole Diameter 8.25 in Casing: Diameter 2 in Length 55.8 ft Type PVC
 Drill Co. Cascade Drilling Drilling Method Hollow-Stem Auger Sand Pack 10-20
 Driller Matt Cain Driller Reg. # WD-1210 Log By Rob Malcomson
 Start Date 4/19/2020 Completion Date 4/19/2020 Checked By S. Varsa

COMMENTS
 The AS and SVE well TOC and GS elevations have not been surveyed and are estimates. The AS and SVE well casings will be modified at a later date in conjunction with system installation activities.

Bentonite Chips Bentonite Granules Grout Portland Cement Sand Pack Sand Pack

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
0						Hydro-excavation for utility clearance conducted to a depth of 5 to 8 feet bgs. Blind drilled to 44', not sampled or logged. See lithology for nearby well MW-15 where blind drilling occurred.	
5							
10							
15							
20							
25							
30							

Drilling Log JOHNSTON FED #4.GPJ MWH IA.GDT 3/2/21

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Drilling Log

Monitoring Well **AS-19**

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Project Johnston Fed #4 Client El Paso CGP Company
 Location San Juan County, New Mexico Project Number 193707452

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
<i>Continued</i>							
35							
40							
45	NR	20%				No recovery	
45	NR						
45	NR						
45	NR						
45	NR				CL SC	Clay, sandy (fine-grained), bluish-gray to olive, dry, medium stiff to hard, thinly bedded, hydrocarbon odor.	
50	9.0	100%				Weathered sandstone, brown, wet, medium to fine-grained, thinly bedded, weakly cemented, slight hydrocarbon odor.	
50	0.4				CL SC	Clay, sandy, brown, moist.	
50	0.2					Weathered sandstone, tan to light gray, dry, medium to fine-grained, thinly bedded, moderately to strongly cemented.	
50	1.4					Weathered sandstone, some fines, very pale brown, dry, medium to fine-grained, moderately to strongly cemented.	
55	NR	60%				No recovery	
55	NR						
55	NR				CL SC	Clay, sandy, pale brown, dry.	
55	2.0						
55	0.6					Weathered sandstone, brown, wet becoming dry to slightly moist at 59', medium-grained, weakly cemented becoming moderate with depth.	
60	0.0						
60	0.2	100%					
60	0.9						
60	0.1						
60	0.0						
60	0.0						
65							
70							

Drilling Log JOHNSTON FED #4.GPJ MWH IA GDT 3/2/21



Drilling Log

Monitoring Well **AS-20**

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Project Johnston Fed #4 Client El Paso CGP Company
 Location San Juan County, New Mexico Project Number 193707452
 Surface Elev. 6069.20 ft North 2133310.41 East 2741049.08
 Top of Casing 6072.10 ft Water Level Initial 6023.7 ^{04/19/20} 00:00 Static NA
 Hole Depth 64.0 ft Screen: Diameter 2 in Length 5.0 ft Type/Size PVC/0.02 in
 Hole Diameter 8.25 in Casing: Diameter 2 in Length 57.8 ft Type PVC
 Drill Co. Cascade Drilling Drilling Method Hollow-Stem Auger Sand Pack 10-20
 Driller Matt Cain Driller Reg. # WD-1210 Log By Rob Malcomson
 Start Date 4/19/2020 Completion Date 4/19/2020 Checked By S. Varsa

COMMENTS
 The AS and SVE well TOC and GS elevations have not been surveyed and are estimates. The AS and SVE well casings will be modified at a later date in conjunction with system installation activities.

Bentonite Chips
 Bentonite Granules
 Grout
 Portland Cement
 Sand Pack
 Sand Pack

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
0						Hydro-excavation for utility clearance conducted to a depth of 5 to 8 feet bgs. Blind drilled to 44', not sampled or logged. See lithology for nearby well MW-16 where blind drilling occurred.	
5							
10							
15							
20							
25							
30							

Drilling Log JOHNSTON FED #4.GPJ MWH IA.GDT 3/2/21

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Drilling Log

Monitoring Well **AS-20**

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Project Johnston Fed #4 Client El Paso CGP Company
 Location San Juan County, New Mexico Project Number 193707452

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
<i>Continued</i>							
35							
40							
45	NR	80%				No recovery	
45.66.1					SC SM	Sand, clayey, silty, olive and gray, dry, loose, hydrocarbon odor.	
45.1320					CL	Clay, sandy, olive to black, dry, soft, trace caliche in lower portion, hydrocarbon odor.	
45.324					SW	Sand, some fines, very dark gray to black, wet, medium dense, fine to medium-grained, hydrocarbon odor.	
45.4.0						No recovery,	
50	NR	60%					
50.0.6					SC	Sand, very clayey, olive, wet, loose, fine to medium-grained.	
50.0.4					CL	Clay, silty, yellowish-brown to brown, moist, medium stiff, somewhat laminar.	
50.0.2					SW	Sand, some fines, yellowish-brown, wet, fine to medium-grained.	
55	NR	40%				No recovery.	
55.0.0						Weathered sandstone, some clay, dark yellowish-brown to grayish-brown, fine to medium-grained, weakly cemented.	
55.0.2						Weathered sandstone, olive-brown, dry to slightly moist, fine to medium-grained, strongly cemented.	
60	NR	80%				No recovery.	
60.0.0						Weathered sandstone, yellow/tan, fine to medium-grained, thinly bedded, moderately to strongly cemented.	
60.0.1						Weathered sandstone, olive, wet, fine to medium-grained.	
60.0.0						Weathered sandstone, some fines, yellowish-brown, fine to medium-grained with depth, weakly to moderately cemented.	
65							
70							

Drilling Log JOHNSTON FED #4.GPJ MWH IA.GDT 3/2/21



Drilling Log

Monitoring Well **AS-21**

Page: 1 of 2

Project Johnston Fed #4 Client El Paso CGP Company
 Location San Juan County, New Mexico Project Number 193707452
 Surface Elev. 6068.80 ft North 2133329.04 East 2741065.57
 Top of Casing 6071.50 ft Water Level Initial 6023.6 04/19/20 00:00 Static NA
 Hole Depth 65.5 ft Screen: Diameter 2 in Length 5.0 ft Type/Size PVC/0.02 in
 Hole Diameter 8.25 in Casing: Diameter 2 in Length 58.0 ft Type PVC
 Drill Co. Cascade Drilling Drilling Method Hollow-Stem Auger Sand Pack 10-20
 Driller Matt Cain Driller Reg. # WD-1210 Log By Rob Malcomson
 Start Date 4/18/2020 Completion Date 4/19/2020 Checked By S. Varsa

COMMENTS
 The AS and SVE well TOC and GS elevations have not been surveyed and are estimates. The AS and SVE well casings will be modified at a later date in conjunction with system installation activities.

Bentonite Chips Bentonite Granules Grout Portland Cement Sand Pack Sand Pack

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
0						Hydro-excavation for utility clearance conducted to a depth of 5 to 8 feet bgs. Blind drilled to 44', not sampled or logged. See lithology for nearby well MW-16 where blind drilling occurred.	
5							
10							
15							
20							
25							
30							

Drilling Log JOHNSTON FED #4.GPJ MWH IA.GDT 3/2/21

Continued Next Page



Drilling Log

Monitoring Well **AS-21**

Page: 2 of 2

Project Johnston Fed #4 Client El Paso CGP Company
 Location San Juan County, New Mexico Project Number 193707452

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
<i>Continued</i>							
35							
45	NR	80%			SC SM	No recovery Sand, clayey to a sandy clay, olive and dark greenish gray, dry, medium dense, hydrocarbon odor.	
367							
665					CL	Clay, silty, olive, dry, hard, caliche in bottom 4 inches.	
68.0					SC SM	Sand, clayey to a sandy clay, dark olive to black, wet, medium stiff/dense, fine to medium-grained with depth, hydrocarbon odor.	
2.6							
50	NR	20%				No recovery,	
NR							
NR							
NR					SW	Sand, some fines, very dark gray, wet, loose, fine to medium-grained.	
0.2							
55	NR	30%				No recovery.	
NR							
NR							
NR					SW	Sand, very dark gray changing to light brownish-gray at 58', wet, loose to medium dense, fine to medium-grained.	
0.2					SW	Sand, clayey in upper portion, dark greenish-gray, medium dense, fine to medium-grained.	
60	NR	70%				No recovery.	
0.2							
0.4						Weathered sandstone, few fines, greenish-gray to 62.5' then pale brown, dense, fine to medium-grained, weakly cemented, massive.	
0.5							
0.2							
65	0.5	100%				Weathered sandstone, greenish-gray to olive-gray and then pale olive with depth, medium-grained, weakly to moderately cemented, thinly bedded.	
70							
75							

Drilling Log JOHNSTON FED #4.GPJ MWH IA GDT 3/2/21



Drilling Log

Monitoring Well **AS-22**

Page: 1 of 2

Project Johnston Fed #4 Client El Paso CGP Company
 Location San Juan County, New Mexico Project Number 193707452
 Surface Elev. 6069.10 ft North 2133345.05 East 2741081.31
 Top of Casing 6074.40 ft Water Level Initial ▽6026.5 04/19/20 00:00 Static ▽ NA
 Hole Depth 65.0 ft Screen: Diameter 2 in Length 5.0 ft Type/Size PVC/0.02 in
 Hole Diameter 8.25 in Casing: Diameter 2 in Length 60.4 ft Type PVC
 Drill Co. Cascade Drilling Drilling Method Hollow-Stem Auger Sand Pack 10-20
 Driller Matt Cain Driller Reg. # WD-1210 Log By Rob Malcomson
 Start Date 4/18/2020 Completion Date 4/18/2020 Checked By S. Varsa

COMMENTS
 The AS and SVE well TOC and GS elevations have not been surveyed and are estimates. The AS and SVE well casings will be modified at a later date in conjunction with system installation activities.

Bentonite Chips Bentonite Granules Grout Portland Cement Sand Pack Sand Pack

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
0						Hydro-excavation for utility clearance conducted to a depth of 5 to 8 feet bgs. Blind drilled to 49', not sampled or logged. See lithology for nearby well MW-17 where blind drilling occurred.	
5							
10							
15							
20							
25							
30							

Drilling Log JOHNSTON FED #4.GPJ MWH IA.GDT 3/2/21

Continued Next Page



Drilling Log

Monitoring Well **AS-22**

Page: 2 of 2

Project Johnston Fed #4 Client El Paso CGP Company
 Location San Juan County, New Mexico Project Number 193707452

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
<i>Continued</i>							
35							
40							
45							
50	NR	40%				No recovery.	
	NR						
	NR						
	2.7			CL	CL	Clay, silty, brown, wet, medium stiff, thinly bedded.	
				SC	SC	Sand, clayey, grayish-brown, dense, fine to medium-grained.	
	0.8			SW	SW	Sand, few fines, yellowish-brown to pale brown, wet, medium dense, fine to medium-grained, subrounded.	
55	NR	20%				No recovery.	
	NR						
	NR						
	NR						
	15.9			SW	SW	Sand, gray, wet, medium dense to dense, fine to medium-grained, subrounded, slight hydrocarbon odor.	
60	NR	40%				No recovery.	
	NR						
	NR						
	4.2			SW	SW	Sand, light yellowish-brown, wet, medium dense, fine to medium-grained, subrounded.	
	0.3			SP	SP	Sand, gray, wet, medium-grained, subrounded.	
65	NM	100%				Weathered sandstone, with very thin silty clay layer at 64', gray, strong, fine to medium-grained.	
70							
75							

Drilling Log JOHNSTON FED #4.GPJ MWH IA GDT 3/2/21



Drilling Log

Vapor Extraction Well **SVE-2**

Page: 1 of 2

Project Johnston Fed #4 Client El Paso CGP Company
 Location San Juan County, New Mexico Project Number 193707452
 Surface Elev. 6070.20 ft North 2133373.57 East 2740984.82
 Top of Casing 6073.10 ft Water Level Initial 6021.02 05/08/20 00:00 Static NA
 Hole Depth 49.0 ft Screen: Diameter 4 in Length 13.0 ft Type/Size PVC/0.02 in
 Hole Diameter 12.0 in Casing: Diameter 4 in Length 35.0 ft Type PVC
 Drill Co. Cascade Drilling Drilling Method Hollow-Stem Auger Sand Pack 10-20
 Driller Matt Cain Driller Reg. # WD-1210 Log By Rob Malcomson
 Start Date 5/6/2020 Completion Date 5/6/2020 Checked By S. Varsa

COMMENTS
 The AS and SVE well TOC and GS elevations have not been surveyed and are estimates. The AS and SVE well casings will be modified at a later date in conjunction with system installation activities.

Bentonite Chips Bentonite Granules Grout Portland Cement Sand Pack Sand Pack

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
0						Hydro-excavation for utility clearance conducted to a depth of 5 to 8 feet bgs. Blind drilled to 24', not sampled or logged. See lithology for nearby well SVE-1 where blind drilling occurred.	
5							
10							
15							
20							
25						No recovery.	

Drilling Log JOHNSTON FED #4.GPJ MWH IA.GDT 3/2/21

Continued Next Page



Drilling Log

Vapor Extraction Well **SVE-2**

Page: 2 of 2

Project Johnston Fed #4 Client El Paso CGP Company
 Location San Juan County, New Mexico Project Number 193707452

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
<i>Continued</i>							
25	NR	60%			SW	Sand, slightly silty, dark yellowish-brown, slightly moist, loose, fine to very coarse-grained.	
	NR					Sand, silty, yellowish-brown, dry to slightly moist, very loose, fine to very coarse-grained, trace granules and fine gravel.	
	0.0					No recovery.	
30	NR	60%			SW	Sand, slightly silty, yellowish-brown, dry to slightly moist, very loose, fine to very coarse-grained, trace granules and fine gravel, mottled from 32-34'.	
	NR					No recovery.	
	0.0						
35	NR	70%			SW	Sand, slightly silty, yellowish-brown, moist, very loose, fine to very coarse-grained, slight hydrocarbon odor.	
	37.2						
	82.6						
		100%			CL	Clay, slightly silty with depth, very slightly sandy, brown, moist, stiff to very stiff, greenish-gray staining at 38.5', cuttings balled from 39-40', strong hydrocarbon odor.	
40	1618						
	1556						
		70%			SW	Sand, slightly clayey, dark grayish-brown, very moist to wet at 48', loose, medium to very coarse-grained, trace fine gravel, dark gray banding from 47.4-47.8' then greenish-black and greenish-gray to 49', very strong hydrocarbon odor.	
	1151						
	1941						
						No recovery.	
45	NR						
	1699						
	1482						
	1550						
	▽ 1267						
50							
55							

Drilling Log JOHNSTON FED #4.GPJ MWH IA GDT 3/2/21



Drilling Log

Vapor Extraction Well **SVE-3**

Page: 1 of 2

Project Johnston Fed #4 Client El Paso CGP Company
 Location San Juan County, New Mexico Project Number 193707452
 Surface Elev. 6069.90 ft North 2133350.98 East 2740996.18
 Top of Casing 6070.90 ft Water Level Initial ▽6021.39 05/08/20 00:00 Static ▽ NA
 Hole Depth 49.0 ft Screen: Diameter 4 in Length 10.0 ft Type/Size PVC/0.02 in
 Hole Diameter 12.0 in Casing: Diameter 4 in Length 39.6 ft Type PVC
 Drill Co. Cascade Drilling Drilling Method Hollow-Stem Auger Sand Pack 10-20
 Driller Matt Cain Driller Reg. # WD-1210 Log By Rob Malcomson
 Start Date 5/3/2020 Completion Date 5/3/2020 Checked By S. Varsa

COMMENTS
 The AS and SVE well TOC and GS elevations have not been surveyed and are estimates. The AS and SVE well casings will be modified at a later date in conjunction with system installation activities.

Bentonite Chips Bentonite Granules Grout Portland Cement Sand Pack Sand Pack

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
0						Hydro-excavation for utility clearance conducted to a depth of 5 to 8 feet bgs. Blind drilled to 24', not sampled or logged. See lithology for nearby well MW-2 where blind drilling occurred.	
5							
10							
15							
20							
25						No recovery.	

Drilling Log JOHNSTON FED #4.GPJ MWH IA.GDT 3/2/21

Continued Next Page



Drilling Log

Vapor Extraction Well **SVE-3**

Page: 2 of 2

Project Johnston Fed #4 Client El Paso CGP Company
 Location San Juan County, New Mexico Project Number 193707452

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
<i>Continued</i>							
25	NR						
	NR	60%			SW	Sand, slightly silty, yellowish-brown, slightly moist, loose, fine to very coarse-grained, trace granules and 0.75-inch gravel.	
	0.0					No recovery.	
30	NR	54%					
	NR				SW	Sand, very slightly silty, yellowish-brown, slightly moist, loose, fine to very coarse-grained, trace 0.5 to 1.25-inch gravel, banded/mottled.	
	0.0						
	0.0						
35	0.0	100%			CL	Clay, sandy, olive-gray, moist, soft, some black staining and hydrocarbon odor at 35.25' and 37.3'.	
	35.4						
	55						
	103				CL	Clay, slightly silty with depth, very slightly sandy, brown, moist, stiff to very stiff, greenish-gray staining at 38.5', cuttings balled from 39-40', strong hydrocarbon odor.	
	1432						
40	10	100%			ML	Silt, very sandy, slightly clayey from 41.5-42.5', mainly olive with dark grayish-brown and gray, slightly moist, soft, banded/mottled, strong hydrocarbon odor.	
	51						
	164				CL	Clay, sandy, brown, slightly moist to very moist at 43.8', soft, becomes more sandy and coarser from 41-44', abundant CaCO3 veins from 42.7-43.2', strong hydrocarbon odor.	
	170				SW	Sand, olive to yellowish-brown, slightly moist, loose, fine to coarse-grained.	
	241					No recovery.	
45	NR	60%					
	NR				SW	Sand, silty at 46.3', dark grayish-brown with bluish-black from 48.25-49', wet, loose, strong hydrocarbon odor.	
	1110						
	1387						
	1325						
50							
55							

Drilling Log JOHNSTON FED #4.GPJ MWH IA GDT 3/2/21



Drilling Log

Vapor Extraction Well **SVE-4**

Page: 1 of 2

Project Johnston Fed #4 Client El Paso CGP Company
 Location San Juan County, New Mexico Project Number 193707452
 Surface Elev. 6069.90 ft North 2133366.24 East 2741008.62
 Top of Casing 6070.60 ft Water Level Initial ▽6021.33 05/08/20 00:00 Static ▽ NA
 Hole Depth 49.0 ft Screen: Diameter 4 in Length 10.0 ft Type/Size PVC/0.02 in
 Hole Diameter 12.0 in Casing: Diameter 4 in Length 39.8 ft Type PVC
 Drill Co. Cascade Drilling Drilling Method Hollow-Stem Auger Sand Pack 10-20
 Driller Matt Cain Driller Reg. # WD-1210 Log By Rob Malcomson
 Start Date 5/2/2020 Completion Date 5/2/2020 Checked By S. Varsa

COMMENTS
 The AS and SVE well TOC and GS elevations have not been surveyed and are estimates. The AS and SVE well casings will be modified at a later date in conjunction with system installation activities.

Bentonite Chips
 Bentonite Granules
 Grout
 Portland Cement
 Sand Pack
 Sand Pack

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
0						Hydro-excavation for utility clearance conducted to a depth of 5 to 8 feet bgs. Blind drilled to 24', not sampled or logged. See lithology for nearby well MW-3 where blind drilling occurred.	
5							
10							
15							
20							
25						No recovery.	

Drilling Log JOHNSTON FED #4.GPJ MWH IA GDT 3/2/21

Continued Next Page



Drilling Log

Vapor Extraction Well **SVE-4**

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Project Johnston Fed #4 Client El Paso CGP Company

Location San Juan County, New Mexico Project Number 193707452

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
<i>Continued</i>							
25	NR						
	NR	60%			SW	Sand, silty, light yellowish-brown, dry, loose, medium to coarse-grained.	
	0.6						
	0.7						
	0.8					No recovery.	
30	NR	50%					
	NR						
	0.0				SW	Sand, slightly silty, light yellowish-brown, dry, loose, fine to very coarse-grained, slight hydrocarbon odor at 34'.	
	0.2						
	6.4					No recovery.	
35	NR	70%					
	0.0				SW	Sand, few fines, brown, dry, loose, fine to very coarse-grained, some granules and trace 1.25-inch gravel.	
	7.9						
	2.3					Clay, very silty to silt, slightly sandy and increasing with depth, brown with dark grayish-brown portions, slightly moist, soft, trace CaCO3 veins below 39', hydrocarbon odor.	
	9.4						
40	8.8	100%			CL ML		
	36.9						
	326						
	16.5				SW	Sand, very clayey, dark grayish-brown, moist, loose, fine to very coarse-grained, hydrocarbon odor.	
	78					No recovery.	
45	NR	60%					
	236				SW SC	Sand, very clayey, dark grayish-brown, moist, loose, fine to very coarse-grained, pronounced 2-inch band of CaCO3 at 47.5', hydrocarbon odor.	
	512						
	1138				SW	Sand, dark grayish-brown, moist to wet at 48.7', medium to very coarse-grained, bluish-black staining and strong hydrocarbon odor.	
	1148						
50							
55							

Drilling Log JOHNSTON FED #4.GPJ MWH IA GDT 3/2/21



Drilling Log

Vapor Extraction Well **SVE-5**

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Project Johnston Fed #4 Client El Paso CGP Company
 Location San Juan County, New Mexico Project Number 193707452
 Surface Elev. 6069.90 ft North 2133308.05 East 2740996.77
 Top of Casing 6073.90 ft Water Level Initial 6023.82 05/08/20 00:00 Static NA
 Hole Depth 49.0 ft Screen: Diameter 4 in Length 10.0 ft Type/Size PVC/0.02 in
 Hole Diameter 12.0 in Casing: Diameter 4 in Length 39.0 ft Type PVC
 Drill Co. Cascade Drilling Drilling Method Hollow-Stem Auger Sand Pack 10-20
 Driller Matt Cain Driller Reg. # WD-1210 Log By Rob Malcomson
 Start Date 5/2/2020 Completion Date 5/2/2020 Checked By S. Varsa

COMMENTS
 The AS and SVE well TOC and GS elevations have not been surveyed and are estimates. The AS and SVE well casings will be modified at a later date in conjunction with system installation activities.

Bentonite Chips
 Bentonite Granules
 Grout
 Portland Cement
 Sand Pack
 Sand Pack

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
0						Hydro-excavation for utility clearance conducted to a depth of 5 to 8 feet bgs. Blind drilled to 24', not sampled or logged. See lithology for nearby well MW-11 where blind drilling occurred.	
5							
10							
15							
20							
25						No recovery.	

Drilling Log JOHNSTON FED #4.GPJ MWH IA GDT 3/2/21

Continued Next Page



Drilling Log

Vapor Extraction Well

SVE-5

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Project Johnston Fed #4

Client El Paso CGP Company

Location San Juan County, New Mexico

Project Number 193707452

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
<i>Continued</i>							
25	NR						
	NR	60%			SW	Sand, slightly silty, pale brown, very dry, loose.	
	0.0						
	0.0						
	0.4					No recovery.	
30	NR	50%					
	NR				ML	Silt, very sandy, clayey, brown, dry, soft, some lamination, trace CaCO3 veins.	
	0.0						
	2.1						
	0.0				CL	Clay, very silty, sandy, dark grayish-brown, dry, medium stiff.	
	0.0					Clay, silty and increasing with depth, sandy, brown, dry to very slightly moist, medium stiff, slight hydrocarbon odor.	
35	31.5	100%					
	47.7				CL		
	165						
	542						
	188					No recovery.	
40	NR	80%					
	0.0				CL	Clay, very sandy, soft, balled cuttings.	
	49				SW	Sand, clayey and decreasing with depth, brown, very dark gray band from 41.5-42', dry to slightly moist, loose, coarse gravel at 43.9'.	
	189						
	69					No recovery.	
45	NR	70%					
	▽ 745				SW	Sand, few fines, dark grayish-brown to very dark gray, greenish-black from 48.5-49', mottled 47-47.5', moist to wet at 48.5', fine to very coarse-grained.	
	1089						
	811						
	321						
50							
55							

Drilling Log JOHNSTON FED #4.GPJ MWH IA GDT 3/2/21



Drilling Log

Vapor Extraction Well **SVE-6**

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Project Johnston Fed #4 Client El Paso CGP Company
 Location San Juan County, New Mexico Project Number 193707452
 Surface Elev. 6069.50 ft North 2133326.97 East 2741013.15
 Top of Casing 6071.00 ft Water Level Initial 6021.05 05/08/20 00:00 Static NA
 Hole Depth 49.0 ft Screen: Diameter 4 in Length 10.0 ft Type/Size PVC/0.02 in
 Hole Diameter 12.0 in Casing: Diameter 4 in Length 39.0 ft Type PVC
 Drill Co. Cascade Drilling Drilling Method Hollow-Stem Auger Sand Pack 10-20
 Driller Matt Cain Driller Reg. # WD-1210 Log By Rob Malcomson
 Start Date 5/1/2020 Completion Date 5/1/2020 Checked By S. Varsa

COMMENTS
 The AS and SVE well TOC and GS elevations have not been surveyed and are estimates. The AS and SVE well casings will be modified at a later date in conjunction with system installation activities.

Bentonite Chips Bentonite Granules Grout Portland Cement Sand Pack Sand Pack

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
0						Hydro-excavation for utility clearance conducted to a depth of 5 to 8 feet bgs. Blind drilled to 24', not sampled or logged. See lithology for nearby well TW-2 where blind drilling occurred.	
5							
10							
15							
20							
25						No recovery. Drilling equipment error.	

Drilling Log JOHNSTON FED #4.GPJ MWH IA GDT 3/2/21

Continued Next Page



Drilling Log

Vapor Extraction Well **SVE-6**

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Project Johnston Fed #4 Client El Paso CGP Company

Location San Juan County, New Mexico Project Number 193707452

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
<i>Continued</i>							
25	NR	0%					
	NR						
	NR						
	NR						
	NR						
30	NR	50%				No recovery.	
	NR						
	NR						
	0.7	100%			SW	Sand, olive to brown, dry, very loose, fine to very coarse-grained, very uniform unit.	
	1.2						
	0.8						
	0.8						
35	306	100%			CL	Clay, silty, some very fine "sugar" sand, dark grayish-brown, dry, very stiff to hard, thinly laminated.	
	121						
	204						
	86						
	48	70%				Clay, very silty and sandy, dark grayish-brown, barely moist, very soft.	
40	NR						
	13						
	73						
	247	60%			SW	Sand, slightly clayey, brown, very slightly moist, loose, fine to very coarse grained.	
	431						
	NR						
45	NR	60%				No recovery.	
	487						
	988						
	1056				SW	Sand, slightly silty, grayish-brown to very dark grayish-brown, moist from 47-48', wet below 48', loose, medium to very coarse-grained, very dark bluish-gray to black staining from 48.5-49' with strong hydrocarbon odor.	
	65						
50							
55							

Drilling Log JOHNSTON FED #4.GPJ MWH IA GDT 3/2/21



Drilling Log

Vapor Extraction Well **SVE-7**

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Project Johnston Fed #4 Client El Paso CGP Company
 Location San Juan County, New Mexico Project Number 193707452
 Surface Elev. 6069.50 ft North 2133344.95 East 2741026.70
 Top of Casing 6070.20 ft Water Level Initial 6021.44 05/08/20 00:00 Static NA
 Hole Depth 49.0 ft Screen: Diameter 4 in Length 10.0 ft Type/Size PVC/0.02 in
 Hole Diameter 12.0 in Casing: Diameter 4 in Length 39.8 ft Type PVC
 Drill Co. Cascade Drilling Drilling Method Hollow-Stem Auger Sand Pack 10-20
 Driller Matt Cain Driller Reg. # WD-1210 Log By Rob Malcomson
 Start Date 4/30/2020 Completion Date 5/1/2020 Checked By S. Varsa

COMMENTS
 The AS and SVE well TOC and GS elevations have not been surveyed and are estimates. The AS and SVE well casings will be modified at a later date in conjunction with system installation activities.

Bentonite Chips Bentonite Granules Grout Portland Cement Sand Pack Sand Pack

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
0						Hydro-excavation for utility clearance conducted to a depth of 5 to 8 feet bgs. Blind drilled to 24', not sampled or logged. See lithology for nearby well MW-7 where blind drilling occurred.	
5							
10							
15							
20							
25						No recovery.	

Drilling Log JOHNSTON FED #4.GPJ MWH IA.GDT 3/2/21

Continued Next Page



Drilling Log

Vapor Extraction Well **SVE-7**

Page: 2 of 2

Project Johnston Fed #4 Client El Paso CGP Company
 Location San Juan County, New Mexico Project Number 193707452

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
<i>Continued</i>							
25	NR						
	NR	60%			SW	Sand, silty, light yellowish-brown, dry, very loose, medium to very coarse-grained, trace fine gravel, mottled, slight hydrocarbon odor and stain at 28.5'.	
	0.0						
	12.2						
	14.8					No recovery.	
30	NR	50%					
	NR						
	0.5				SW	Sand, silty, light yellowish-brown, dry, very loose, medium to very coarse-grained, trace fine gravel, mottled.	
	2.5						
	3.3						
35	0.3	100%			CL	Clay, silty, sandy, dark yellowish-brown, dry, very stiff to hard.	
	7.8						
	13.1				ML	Silt, sandy, olive, dry, soft.	
	37				SW	Sand, slightly silty, pale olive, dry, very loose, fine to medium-grained.	
	113				CL	Clay, very silty, slightly sandy, olive to olive-gray, slightly moist, soft.	
40	13.0	70%			CL	Clay, sandy, dark grayish-brown, slightly moist, very soft.	
	17.9						
	17.4						
	119.7						
	33.4				SW	Sand, slightly clayey, dark yellowish-brown, moist, very loose, medium to very coarse-grained.	
45	NR	70%				No recovery.	
	35.8				SW	Sand, dark grayish-brown, slightly moist, loose, fine to very coarse-grained.	
	108.6				SW	Sand, clayey, dark grayish-brown, moist, loose to medium dense, very fine to medium-grained.	
	1071				CL	Clay, sandy, dark grayish-brown, moist, soft.	
	1133				SW	Sand, dark grayish-brown to black with hydrocarbon staining at 48.5', fine to coarse-grained, hydrocarbon odor.	
50							
55							

Drilling Log JOHNSTON FED #4.GPJ MWH IA GDT 3/2/21



Drilling Log

Vapor Extraction Well **SVE-8**

Page: 1 of 2

Project Johnston Fed #4 Client El Paso CGP Company
 Location San Juan County, New Mexico Project Number 193707452
 Surface Elev. 6069.50 ft North 2133362.50 East 2741040.04
 Top of Casing 6070.40 ft Water Level Initial ▽6021.23 05/08/20 00:00 Static ▽ NA
 Hole Depth 49.0 ft Screen: Diameter 4 in Length 10.0 ft Type/Size PVC/0.02 in
 Hole Diameter 12.0 in Casing: Diameter 4 in Length 39.7 ft Type PVC
 Drill Co. Cascade Drilling Drilling Method Hollow-Stem Auger Sand Pack 10-20
 Driller Matt Cain Driller Reg. # WD-1210 Log By Rob Malcomson
 Start Date 4/30/2020 Completion Date 4/30/2020 Checked By S. Varsa

COMMENTS
 The AS and SVE well TOC and GS elevations have not been surveyed and are estimates. The AS and SVE well casings will be modified at a later date in conjunction with system installation activities.

Bentonite Chips
 Bentonite Granules
 Grout
 Portland Cement
 Sand Pack
 Sand Pack

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
0						Hydro-excavation for utility clearance conducted to a depth of 5 to 8 feet bgs. Blind drilled to 24', not sampled or logged. See lithology for nearby well MW-7 where blind drilling occurred.	
5							
10							
15							
20							
25						No recovery.	

Drilling Log JOHNSTON FED #4.GPJ MWH IA.GDT 3/2/21

Continued Next Page



Drilling Log

Vapor Extraction Well **SVE-8**

Page: 2 of 2

Project Johnston Fed #4 Client El Paso CGP Company
 Location San Juan County, New Mexico Project Number 193707452

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion	
<i>Continued</i>								
25	NR	40%						
	NR							
	NR							
	0.0				SW	Sand, silty, light yellowish-brown, dry, very loose, medium to very coarse-grained.		
	0.0					No recovery.		
30	NR	50%						
	NR							
	NR							
	0.0				SW	Sand, silty, light yellowish-brown, dry, very loose, medium to very coarse-grained.		
	0.0					No recovery.		
35	NR	70%						
	NR							
	NR							
	0.0				SW	Sand, slightly silty, pale brown, dry, very loose, medium to very coarse-grained with trace granules and fine subrounded gravel.		
	0.0					No recovery.		
40	21	100%						
	18.8							
	19.7							
	48.2					CL		Clay, slightly sandy to sandy from 41.5-44', yellowish-brown to dark yellowish-brown with depth, dark grayish-brown below 41.5', barely moist, soft to very stiff at 43.5'.
	11.5					No recovery.		
45	NR	70%						
	1526					SW		Sand, clayey, brown, slightly moist, loose, medium to coarse-grained.
	793.3					SW		Sand, slightly clayey, brown, slightly moist, very loose, medium to coarse-grained with trace fine gravel.
	273.9					SP		Sand, very clayey, brown, loose, very fine "sugar" sand.
	110.8				CL	Clay, very dark grayish-brown, moist, stiff to very stiff, some black hydrocarbon staining at 48.6'.		
					SW	Sand, slightly clayey, very dark grayish-brown, some black hydrocarbon staining, moist, loose, medium to coarse-grained.		
50								
55								

Drilling Log JOHNSTON FED #4.GPJ MWH IA GDT 3/2/21

APPENDIX C



14073-8020

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. 792469

NMOCD PERMIT: NM -001-0005

Oil Field Waste Document, Form C138

INVOICE:

DATE 5-11-20

GENERATOR: E Paso

HAULING CO. ETI

ORDERED BY: Joseph Willy

DEL. TKT# _____

BILL TO: E Paso

DRIVER: Key

(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	DS	Johnston Federal 4	3	70			3	
2								20 MAY 11 12:10 PM
3								
4								
5								

I, Joseph Willy representative 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 [Signature]

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. **792733**
NMOCD PERMIT: NM -001-0005
Oil Field Waste Document, Form C138
INVOICE:

DATE 5-17-20

GENERATOR: El Paso

HAULING CO. Stantec

ORDERED BY: Joe Wiley

DEL. TKT# _____

BILL TO: Stantec

DRIVER: Sam
(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		Johnston Fed H49	5 gals.	.70				
2		Johnston Fed H6A	5 gals.				20 MAY 17 3:17 PM	
3								
4								
5								

I, [Signature] representative 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 [Signature]

SAN JUAN PRINTING 08180188

BASIN DISPOSAL

30 Years of Environmental Health and Safety Excellence

200 Montana, Bloomfield, NM 87413
505-832-8936 or 505-334-3013
OPEN 24 Hours per Day

796778

NO. 796778
NMOCD PERMIT: NM-001-0005
Oil Field Waste Document, Form C138
INVOICE:

DATE: 8-19-20
GENERATOR: El Paso CGP
HAULING CO.: SUNCO
ORDERED BY: Steve

DEL. TKT#: _____
BILL TO: El Paso CGP
DRIVER: IVONE
(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		Johnston Federal #4	70	70			14	
2		Canada Mesa #2, K-27, Johnston Federal #6A, Lateral L-40						
3								
4								
5								

I, [Signature] representative 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 [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. **800455**

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

DATE: 11/13/20
GENERATOR: CGP
HAULING CO.: CGP
ORDERED BY: Joe W

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

WASTE DESCRIPTION: Exempt Oilfield Waste Produced Water Drilling/Completion Fluids
STATE: NM CO AZ UT TREATMENT/DISPOSAL METHODS: EVAPORATION INJECTION TREATING PLANT

NO.	TRUCK	LOCATION(S)	VOLUME	COST	H2S	COST	TOTAL	TIME
1		Johnston Federal #7	10	70			70	
2		Johnston Federal #6A	/					
3		Sandoval GCA #1A	/					
4			/					
5			/					

20 NOV 13 6:18 PM

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

Approved

Denied

ATTENDANT SIGNATURE _____

APPENDIX D





envirotech

Bill of Lading

MANIFEST # 66910
GENERATOR El PASO
POINT OF ORIGIN Johnston Fed #4
TRANSPORTER Envirotech
DATE 4-22-20 JOB # 14073-0050

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

Table with columns: LOAD NO., COMPLETE DESCRIPTION OF SHIPMENT (DESTINATION, MATERIAL, GRID, YDS, BBLs, DRUMS), TRANSPORTING COMPANY (TKT#, TRK#, TIME, DRIVER SIGNATURE). Row 1: 1, LFII-5, CONT SOIL, M-20, 14, SW1643, 720, 17:00, [Signature]

RESULTS section including Chloride Test and Paint Filter Test with handwritten counts (1, 1) and a signature. Includes checkboxes for 'Soil w/ Debris' and a 'NOTES' field with 'POINT IN LOAD'.

Generator Onsite Contact _____ Phone _____

Signatures required prior to distribution of the legal document.

DISTRIBUTION: White - Company Records, Yellow - Billing, Pink - Customer, Goldenrod - LF Copy



BOL# 66910

CHLORIDE TESTING / PAINT FILTER TESTING

DATE 4-22-20 TIME 17:00 Attach test strip here

CUSTOMER El Paso

SITE Johnston, FED # 9

DRIVER [Signature]

SAMPLE Soil Straight _____ With Dirt _____

CHLORIDE TEST -299 mg/Kg

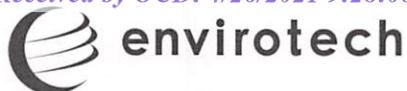
ACCEPTED YES NO _____

PAINT FILTER TEST Time started 17:00 Time completed 17:05

PASS YES NO _____

SAMPLER/ANALYST [Signature]





SPECIAL WASTE MANIFEST		Manifest Document No. SW - 1643		Page 1 of			
Generator's Name <i>El Paso CGP Company LLC</i>		Generator's Address <i>Houston, TX 1001 Louisiana St.</i>		Generator's Telephone No.			
Origin of Special Waste (Project or Split Location): <i>Johnston Federal #4 - SE/SW S-27-T31N-R9W</i>							
Transporter #1 Company Name <i>Envirotech</i>		Address <i>5796 W HWY 64</i>		Telephone No. <i>505-632-0615</i>			
Transporter #2 Company Name		Address		Telephone No.			
Destination Facility Name/Site Address <i>Envirotech Lamborn #2</i>		Facility ID (Permit) Number <i>NM-01-0011</i>		Telephone No. <i>505-632-0615</i>			
GENERATOR	Type and Proper Name of Special Waste			Container(s) No.	Type	Total Quantity	Unit Wt/Vol
	<i>Petroleum Contaminated So. 1</i>			<i>1</i>	<i>B</i>	<i>14405</i>	
Additional Descriptions for Special Waste Listed Above:							
Special Handling Instructions: <i>Secure and Tarp Load</i>							
<p>GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described above by type and proper name of the special waste, and that such waste has been managed, packaged, containerized and labeled in accordance with the requirements of 20.9.8 NMAC (Special Waste Requirements) in addition to any other applicable federal, state or local regulations.</p>							
Printed/Typed Name: <i>Peterson Pinto</i>		Signature: <i>[Signature]</i>		Date: <i>4-22-2020</i>			
TRANSPORTER	Transporter 1 Acknowledgement of Receipt of Special Waste						
	Printed/Typed Name: <i>Peterson Pinto</i>		Signature: <i>[Signature]</i>		Date: <i>4-22-2020</i>		
	Transporter 2 Acknowledgement of Receipt of Special Waste						
Printed/Typed Name:		Signature:		Date:			
FACILITY	Discrepancy Indication Space:						
	Facility Owner or Operator: <i>I hereby acknowledge receipt of the special waste as indicated upon this manifest, except as noted above in the Discrepancy Indication Space.</i>						
	Printed/Typed Name: <i>DAVE LANKS</i>		Signature: <i>[Signature]</i>		Date: <i>4-22-20</i>		



Bill of Lading

MANIFEST # **66946**
 GENERATOR El Paso / Kinder Morgan
 POINT OF ORIGIN Johnston Fed #4
 TRANSPORTER E-tech
 DATE 05-01-20 JOB # 14073-0050

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	LFI.5	Cont Soil	J21	8 8	-	-	-	727	0900	

RESULTS		LANDFARM EMPLOYEE <u>Gary Robinson</u> <i>GWL</i>	NOTES <u>Load had PolyLiner in Box SB377</u>
<u>299</u>	CHLORIDE TEST <u>1</u>		
	CHLORIDE TEST <u> </u>		
<u>PASS</u>	PAINT FILTER TEST <u>1</u>		

Soil w/ Debris After Hours/Weekend Receipt Scrape Out Wash Out

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



BOL# 66946

CHLORIDE TESTING / PAINT FILTER TESTING

DATE 05-01-20 TIME 0900

Attach test strip here

CUSTOMER El Poso / Kinder Morgan

SITE Johnston Fed #9

DRIVER E. J. Halperin

SAMPLE Soil Straight With Dirt

CHLORIDE TEST -299 mg/Kg

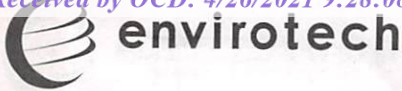
ACCEPTED YES NO

PAINT FILTER TEST Time started 0900 Time completed 0912

PASS YES NO

SAMPLER/ANALYST Cary Robinson





JOB# 14073-0050

SPECIAL WASTE MANIFEST		Manifest Document No. SW - 1646		Page 1 of		
Generator's Name El Paso CGP Company LLC		Generator's Address Houston TX		Generator's Telephone No.		
Origin of Special Waste (Project or Spill Location): Johnston Federal #4 SE/SW S-27-T31N-R9W						
Transporter #1 Company Name Envirotech		Address 5796 us Hwy 64		Telephone No. 505-632-0615		
Transporter #2 Company Name		Address		Telephone No.		
Destination Facility Name/Site Address Envirotech Lawton #2		Facility ID (Permit) Number NM-01-0011		Telephone No. 505-632-0615		
GENERATOR	Type and Proper Name of Special Waste			Container(s) No.	Total Quantity	Unit Wt/Vol
	Petroleum Contaminated Soil					
Additional Descriptions for Special Waste Listed Above:						
Special Handling Instructions: Secure tarp load						
GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described above by type and proper name of the special waste, and that such waste has been managed, packaged, containerized and labeled in accordance with the requirements of 20.9.8 NMAC (Special Waste Requirements) in addition to any other applicable federal, state or local regulations.						
Printed/Typed Name: STANTEC (CHRIS HIATT FOR KM)		Signature: <i>[Signature]</i>		Date:		
TRANSPORTER	Transporter 1 Acknowledgement of Receipt of Special Waste					
	Printed/Typed Name:		Signature:		Date:	
Transporter 2 Acknowledgement of Receipt of Special Waste						
Printed/Typed Name:		Signature:		Date:		
FACILITY	Discrepancy Indication Space:					
	Facility Owner or Operator: <i>I hereby acknowledge receipt of the special waste as indicated upon this manifest, except as noted above in the Discrepancy Indication Space.</i>					
Printed/Typed Name:		Signature:		Date:		



envirotech

Bill of Lading

MANIFEST # **66950**
 GENERATOR EL PASO
 POINT OF ORIGIN Johnston Fed # 4
 TRANSPORTER Etech
 DATE 05-04-20 JOB # 14073-0050

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	J20	10 <u>10</u>	-	-	SW 1647	720	1135	SM

Poly in load

RESULTS		LANDFARM EMPLOYEE <u>Cary Robinson</u> ^{GWL}	NOTES <u>SB380</u>
<u>L299</u>	CHLORIDE TEST <u>1</u>		
	CHLORIDE TEST	<input checked="" type="checkbox"/> Soil w/ Debris <input type="checkbox"/> After Hours/Weekend Reveal <input type="checkbox"/> Scrape Out <input type="checkbox"/> Wash Out	
	CHLORIDE TEST	<p>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.</p>	
<u>PASS</u>	PAINT FILTER TEST <u>1</u>		

Generator Onsite Contact _____ Phone _____

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



BOL# 66850

CHLORIDE TESTING / PAINT FILTER TESTING

DATE 05-04-20 TIME 1135

Attach test strip here

CUSTOMER EL PASO / Kindes margin

SITE Johnston Fed # 4

DRIVER Steven S. Mamed

SAMPLE Soil Straight With Dirt

CHLORIDE TEST -299 mg/Kg

ACCEPTED YES NO

PAINT FILTER TEST Time started 1135 Time completed 1148

PASS YES NO

SAMPLER/ANALYST Cery Robinson





Job # 14073-0050

SPECIAL WASTE MANIFEST		Manifest Document No. SW - 1647		Page 1 of				
Generator's Name <i>El Paso CGP Company LLC</i>		Generator's Address <i>Houston 1001 Louisiana St.</i>		Generator's Telephone No.				
Origin of Special Waste (Project or Spill Location): <i>Johnston Federal #4 - SE/SW S-27-T31N-R9W</i>								
Transporter #1 Company Name <i>Envirotech</i>		Address <i>5796 US Hwy 64</i>		Telephone No. <i>505-632-0615</i>				
Transporter #2 Company Name		Address		Telephone No.				
Destination Facility Name/Site Address <i>Envirotech Landfill #2</i>		Facility ID (Permit) Number <i>NM-01001</i>		Telephone No. <i>505-632-0615</i>				
GENERATOR	Type and Proper Name of Special Waste			Container(s) No.	Type	Total Quantity	Unit Wt/Vol	
	<i>Petroleum Contaminated Soil</i>			<i>1</i>	<i>B</i>	<i>10</i>	<i>yds</i>	<i>67</i>
Additional Descriptions for Special Waste Listed Above:								
Special Handling Instructions: <i>Secure & Tarp Load</i>								
<p>GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described above by type and proper name of the special waste, and that such waste has been managed, packaged, containerized and labeled in accordance with the requirements of 20.9.8 NMAC (Special Waste Requirements) in addition to any other applicable federal, state or local regulations.</p>								
Printed/Typed Name: <i>Steven J. Mason</i>			Signature: <i>[Signature]</i>			Date: <i>5-4-20</i>		
TRANSPORTER	Transporter 1 Acknowledgement of Receipt of Special Waste							
	Printed/Typed Name:			Signature:			Date:	
TRANSPORTER	Transporter 2 Acknowledgement of Receipt of Special Waste							
	Printed/Typed Name:			Signature:			Date:	
FACILITY	Discrepancy Indication Space: <i>Poly in Load</i>							
	Facility Owner or Operator: <i>I hereby acknowledge receipt of the special waste as indicated upon this manifest, except as noted above in the Discrepancy Indication Space.</i>							
	Printed/Typed Name: <i>Gary Robinson</i>			Signature: <i>[Signature]</i>			Date: <i>05-04-20</i>	



envirotech

Bill of Lading

MANIFEST # **66960**
 GENERATOR EL PASO
 POINT OF ORIGIN Johnston Fed #4
 TRANSPORTER E-tech
 DATE 5-11-20 JOB # 14073-0050

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	LFI-5	cont soil	5-23	10 <u>10</u>				720	11:50	[Signature]

RESULTS		LANDFARM EMPLOYEE <u>[Signature]</u> GWC	NOTES <u>Polly in load</u>
L299	CHLORIDE TEST 1		
	CHLORIDE TEST	<input checked="" type="checkbox"/> Soil w/ Debris <input type="checkbox"/> After Hours/Weekend Reveal <input type="checkbox"/> Scrape Out <input type="checkbox"/> Wash Out	
	CHLORIDE TEST	By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load. Landfarm employee signature is certification of the above material being received and placed accordingly.	
PASS	PAINT FILTER TEST 1		

Generator Onsite Contact _____ Phone _____

Signatures required prior to distribution of the legal document.

DISTRIBUTION: White - Company Records, Yellow - Billing, Pink - Customer, Goldenrod - LF Copy



BOL# 66960

CHLORIDE TESTING / PAINT FILTER TESTING

DATE 5/11/2020 TIME 11:50

Attach test strip here

CUSTOMER Kind Morgan / El Paso

SITE Johnston Fed #4

DRIVER Steven S. Mancoske

SAMPLE Soil Straight _____ With Dirt _____

CHLORIDE TEST -299 mg/Kg

ACCEPTED YES NO _____

PAINT FILTER TEST Time started 11:50 Time completed 11:55

PASS YES NO _____

SAMPLER/ANALYST [Signature]





Job# 14073-0050

SPECIAL WASTE MANIFEST		Manifest Document No. SW - 1649		Page 1 of		
Generator's Name <i>El Paso CGP Company LLC</i>		Generator's Address <i>Mesa TX 1001 Louisiana St</i>		Generator's Telephone No.		
Origin of Special Waste (Project or Spill Location): <i>Johnston Federal #4 SE/BW S-27-TBIN-R9W</i>						
Transporter #1 Company Name <i>Envirotech</i>		Address <i>5796 US HWY 64</i>		Telephone No. <i>505-639-0615</i>		
Transporter #2 Company Name		Address		Telephone No.		
Destination Facility Name/Site Address <i>Envirotech Lumberton 2</i>		Facility ID (Permit) Number <i>NM-01-0011</i>		Telephone No. <i>505-632-0615</i>		
GENERATOR	Type and Proper Name of Special Waste			Container(s) No.	Total Quantity	Unit Wt/Vol
	<i>Petroleum Contaminated So. 1</i>			1	<i>10 YDS</i>	
Additional Descriptions for Special Waste Listed Above:						
Special Handling Instructions: <i>Secure & Tarped Load</i>						
<p>GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described above by type and proper name of the special waste, and that such waste has been managed, packaged, containerized and labeled in accordance with the requirements of 20.9.8 NMAC (Special Waste Requirements) in addition to any other applicable federal, state or local regulations.</p>						
Printed/Typed Name:		Signature:		Date:		
<i>[Redacted]</i>		<i>[Redacted]</i>		<i>[Redacted]</i>		
TRANSPORTER	Transporter 1 Acknowledgement of Receipt of Special Waste					
	Printed/Typed Name:		Signature:		Date:	
<i>[Redacted]</i>		<i>[Redacted]</i>		<i>[Redacted]</i>		
Transporter 2 Acknowledgement of Receipt of Special Waste						
Printed/Typed Name:		Signature:		Date:		
FACILITY	Discrepancy Indication Space:					
	Facility Owner or Operator: <i>I hereby acknowledge receipt of the special waste as indicated upon this manifest, except as noted above in the Discrepancy Indication Space.</i>					
Printed/Typed Name:		Signature:		Date:		
<i>DAVE JANCE</i>		<i>[Signature]</i>		<i>5-11-20</i>		

APPENDIX E



Environment Testing
America

ANALYTICAL REPORT

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

Laboratory Job ID: 400-195969-1

Client Project/Site: EIPaso CGP Company-James F Bell #1E.00

For:

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

Attn: Steve Varsa

Authorized for release by:
11/30/2020 3:10:25 PM

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



LINKS

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www.eurofinsus.com/Env

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

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

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

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Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company-James F Bell #1E.00

Laboratory Job ID: 400-195969-1

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Definitions/Glossary

Client: Stantec Consulting Services Inc
 Project/Site: EIPaso CGP Company-James F Bell #1E.00

Job ID: 400-195969-1

Glossary

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

Case Narrative

Client: Stantec Consulting Services Inc
Project/Site: EIPaso CGP Company-James F Bell #1E.00

Job ID: 400-195969-1

Job ID: 400-195969-1

Laboratory: Eurofins TestAmerica, Pensacola**Narrative****Job Narrative
400-195969-1****Comments**

No additional comments.

Receipt

The samples were received on 11/17/2020 9:36 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.0° C.

GC/MS VOA

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-6 (400-195969-4) and MW-11 (400-195969-5). Elevated reporting limits (RLs) are provided.

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

VOA Prep

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

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Detection Summary

Client: Stantec Consulting Services Inc
 Project/Site: EIPaso CGP Company-James F Bell #1E.00

Job ID: 400-195969-1

Client Sample ID: TB-01

Lab Sample ID: 400-195969-1

No Detections.

Client Sample ID: DUP-01

Lab Sample ID: 400-195969-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	24		1.0	ug/L	1		8260C	Total/NA
Toluene	3.6		1.0	ug/L	1		8260C	Total/NA
Ethylbenzene	1.5		1.0	ug/L	1		8260C	Total/NA
Xylenes, Total	44		10	ug/L	1		8260C	Total/NA

Client Sample ID: MW-5

Lab Sample ID: 400-195969-3

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	24		1.0	ug/L	1		8260C	Total/NA
Toluene	3.1		1.0	ug/L	1		8260C	Total/NA
Ethylbenzene	1.5		1.0	ug/L	1		8260C	Total/NA
Xylenes, Total	39		10	ug/L	1		8260C	Total/NA

Client Sample ID: MW-6

Lab Sample ID: 400-195969-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	200		1.0	ug/L	1		8260C	Total/NA
Ethylbenzene	18		1.0	ug/L	1		8260C	Total/NA
Xylenes, Total - DL	1200		50	ug/L	5		8260C	Total/NA

Client Sample ID: MW-11

Lab Sample ID: 400-195969-5

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	2400		20	ug/L	20		8260C	Total/NA
Ethylbenzene	380		20	ug/L	20		8260C	Total/NA
Xylenes, Total	3500		200	ug/L	20		8260C	Total/NA

Client Sample ID: MW-12

Lab Sample ID: 400-195969-6

No Detections.

Client Sample ID: MW-13

Lab Sample ID: 400-195969-7

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	16		1.0	ug/L	1		8260C	Total/NA
Ethylbenzene	36		1.0	ug/L	1		8260C	Total/NA
Xylenes, Total	27		10	ug/L	1		8260C	Total/NA

Client Sample ID: MW-14

Lab Sample ID: 400-195969-8

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	28		1.0	ug/L	1		8260C	Total/NA

Client Sample ID: MW-15

Lab Sample ID: 400-195969-9

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	11		1.0	ug/L	1		8260C	Total/NA
Ethylbenzene	63		1.0	ug/L	1		8260C	Total/NA
Xylenes, Total	31		10	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Pensacola

Detection Summary

Client: Stantec Consulting Services Inc
Project/Site: EIPaso CGP Company-James F Bell #1E.00

Job ID: 400-195969-1

Client Sample ID: MW-16

Lab Sample ID: 400-195969-10

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	2.9		1.0	ug/L	1		8260C	Total/NA

Client Sample ID: MW-17

Lab Sample ID: 400-195969-11

No Detections.

Client Sample ID: MW-18

Lab Sample ID: 400-195969-12

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Pensacola



Sample Summary

Client: Stantec Consulting Services Inc
Project/Site: EIPaso CGP Company-James F Bell #1E.00

Job ID: 400-195969-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
400-195969-1	TB-01	Water	11/15/20 12:30	11/17/20 09:36	
400-195969-2	DUP-01	Water	11/15/20 13:35	11/17/20 09:36	
400-195969-3	MW-5	Water	11/15/20 13:03	11/17/20 09:36	
400-195969-4	MW-6	Water	11/15/20 13:21	11/17/20 09:36	
400-195969-5	MW-11	Water	11/15/20 13:30	11/17/20 09:36	
400-195969-6	MW-12	Water	11/15/20 13:39	11/17/20 09:36	
400-195969-7	MW-13	Water	11/15/20 13:46	11/17/20 09:36	
400-195969-8	MW-14	Water	11/15/20 13:54	11/17/20 09:36	
400-195969-9	MW-15	Water	11/15/20 14:01	11/17/20 09:36	
400-195969-10	MW-16	Water	11/15/20 14:15	11/17/20 09:36	
400-195969-11	MW-17	Water	11/15/20 14:22	11/17/20 09:36	
400-195969-12	MW-18	Water	11/15/20 14:30	11/17/20 09:36	

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Client Sample Results

Client: Stantec Consulting Services Inc
 Project/Site: EIPaso CGP Company-James F Bell #1E.00

Job ID: 400-195969-1

Client Sample ID: TB-01

Lab Sample ID: 400-195969-1

Date Collected: 11/15/20 12:30

Matrix: Water

Date Received: 11/17/20 09:36

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			11/25/20 15:54	1
Toluene	<1.0		1.0	ug/L			11/25/20 15:54	1
Ethylbenzene	<1.0		1.0	ug/L			11/25/20 15:54	1
Xylenes, Total	<10		10	ug/L			11/25/20 15:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	89		78 - 118		11/25/20 15:54	1
Dibromofluoromethane	99		81 - 121		11/25/20 15:54	1
Toluene-d8 (Surr)	96		80 - 120		11/25/20 15:54	1

Client Sample Results

Client: Stantec Consulting Services Inc
 Project/Site: EIPaso CGP Company-James F Bell #1E.00

Job ID: 400-195969-1

Client Sample ID: DUP-01

Lab Sample ID: 400-195969-2

Date Collected: 11/15/20 13:35

Matrix: Water

Date Received: 11/17/20 09:36

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	24		1.0	ug/L			11/25/20 16:19	1
Toluene	3.6		1.0	ug/L			11/25/20 16:19	1
Ethylbenzene	1.5		1.0	ug/L			11/25/20 16:19	1
Xylenes, Total	44		10	ug/L			11/25/20 16:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	89		78 - 118				11/25/20 16:19	1
Dibromofluoromethane	97		81 - 121				11/25/20 16:19	1
Toluene-d8 (Surr)	96		80 - 120				11/25/20 16:19	1

Client Sample Results

Client: Stantec Consulting Services Inc
 Project/Site: EIPaso CGP Company-James F Bell #1E.00

Job ID: 400-195969-1

Client Sample ID: MW-5

Lab Sample ID: 400-195969-3

Date Collected: 11/15/20 13:03

Matrix: Water

Date Received: 11/17/20 09:36

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	24		1.0	ug/L			11/25/20 16:45	1
Toluene	3.1		1.0	ug/L			11/25/20 16:45	1
Ethylbenzene	1.5		1.0	ug/L			11/25/20 16:45	1
Xylenes, Total	39		10	ug/L			11/25/20 16:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	92		78 - 118				11/25/20 16:45	1
Dibromofluoromethane	98		81 - 121				11/25/20 16:45	1
Toluene-d8 (Surr)	96		80 - 120				11/25/20 16:45	1

Client Sample Results

Client: Stantec Consulting Services Inc
 Project/Site: EIPaso CGP Company-James F Bell #1E.00

Job ID: 400-195969-1

Client Sample ID: MW-6

Lab Sample ID: 400-195969-4

Date Collected: 11/15/20 13:21

Matrix: Water

Date Received: 11/17/20 09:36

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	200		1.0	ug/L			11/20/20 19:17	1
Toluene	<1.0		1.0	ug/L			11/20/20 19:17	1
Ethylbenzene	18		1.0	ug/L			11/20/20 19:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	99		78 - 118				11/20/20 19:17	1
Dibromofluoromethane	99		81 - 121				11/20/20 19:17	1
Toluene-d8 (Surr)	104		80 - 120				11/20/20 19:17	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	1200		50	ug/L			11/21/20 14:07	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	98		78 - 118				11/21/20 14:07	5
Dibromofluoromethane	98		81 - 121				11/21/20 14:07	5
Toluene-d8 (Surr)	104		80 - 120				11/21/20 14:07	5

Client Sample Results

Client: Stantec Consulting Services Inc
 Project/Site: EIPaso CGP Company-James F Bell #1E.00

Job ID: 400-195969-1

Client Sample ID: MW-11

Lab Sample ID: 400-195969-5

Date Collected: 11/15/20 13:30

Matrix: Water

Date Received: 11/17/20 09:36

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2400		20	ug/L			11/20/20 20:31	20
Toluene	<20		20	ug/L			11/20/20 20:31	20
Ethylbenzene	380		20	ug/L			11/20/20 20:31	20
Xylenes, Total	3500		200	ug/L			11/20/20 20:31	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	101		78 - 118				11/20/20 20:31	20
Dibromofluoromethane	101		81 - 121				11/20/20 20:31	20
Toluene-d8 (Surr)	104		80 - 120				11/20/20 20:31	20

Client Sample Results

Client: Stantec Consulting Services Inc
 Project/Site: EIPaso CGP Company-James F Bell #1E.00

Job ID: 400-195969-1

Client Sample ID: MW-12

Lab Sample ID: 400-195969-6

Date Collected: 11/15/20 13:39

Matrix: Water

Date Received: 11/17/20 09:36

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			11/25/20 17:10	1
Toluene	<1.0		1.0	ug/L			11/25/20 17:10	1
Ethylbenzene	<1.0		1.0	ug/L			11/25/20 17:10	1
Xylenes, Total	<10		10	ug/L			11/25/20 17:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	89		78 - 118				11/25/20 17:10	1
Dibromofluoromethane	100		81 - 121				11/25/20 17:10	1
Toluene-d8 (Surr)	95		80 - 120				11/25/20 17:10	1

Client Sample Results

Client: Stantec Consulting Services Inc
 Project/Site: EIPaso CGP Company-James F Bell #1E.00

Job ID: 400-195969-1

Client Sample ID: MW-13

Lab Sample ID: 400-195969-7

Date Collected: 11/15/20 13:46

Matrix: Water

Date Received: 11/17/20 09:36

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	16		1.0	ug/L			11/25/20 17:35	1
Toluene	<1.0		1.0	ug/L			11/25/20 17:35	1
Ethylbenzene	36		1.0	ug/L			11/25/20 17:35	1
Xylenes, Total	27		10	ug/L			11/25/20 17:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	90		78 - 118				11/25/20 17:35	1
Dibromofluoromethane	95		81 - 121				11/25/20 17:35	1
Toluene-d8 (Surr)	97		80 - 120				11/25/20 17:35	1

Client Sample Results

Client: Stantec Consulting Services Inc
 Project/Site: EIPaso CGP Company-James F Bell #1E.00

Job ID: 400-195969-1

Client Sample ID: MW-14

Lab Sample ID: 400-195969-8

Date Collected: 11/15/20 13:54

Matrix: Water

Date Received: 11/17/20 09:36

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	28		1.0	ug/L			11/25/20 18:00	1
Toluene	<1.0		1.0	ug/L			11/25/20 18:00	1
Ethylbenzene	<1.0		1.0	ug/L			11/25/20 18:00	1
Xylenes, Total	<10		10	ug/L			11/25/20 18:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	88		78 - 118		11/25/20 18:00	1
Dibromofluoromethane	95		81 - 121		11/25/20 18:00	1
Toluene-d8 (Surr)	97		80 - 120		11/25/20 18:00	1

Client Sample Results

Client: Stantec Consulting Services Inc
 Project/Site: EIPaso CGP Company-James F Bell #1E.00

Job ID: 400-195969-1

Client Sample ID: MW-15

Lab Sample ID: 400-195969-9

Date Collected: 11/15/20 14:01

Matrix: Water

Date Received: 11/17/20 09:36

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	11		1.0	ug/L			11/25/20 18:25	1
Toluene	<1.0		1.0	ug/L			11/25/20 18:25	1
Ethylbenzene	63		1.0	ug/L			11/25/20 18:25	1
Xylenes, Total	31		10	ug/L			11/25/20 18:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	91		78 - 118				11/25/20 18:25	1
Dibromofluoromethane	97		81 - 121				11/25/20 18:25	1
Toluene-d8 (Surr)	98		80 - 120				11/25/20 18:25	1

Client Sample Results

Client: Stantec Consulting Services Inc
 Project/Site: EIPaso CGP Company-James F Bell #1E.00

Job ID: 400-195969-1

Client Sample ID: MW-16

Lab Sample ID: 400-195969-10

Date Collected: 11/15/20 14:15

Matrix: Water

Date Received: 11/17/20 09:36

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2.9		1.0	ug/L			11/25/20 18:50	1
Toluene	<1.0		1.0	ug/L			11/25/20 18:50	1
Ethylbenzene	<1.0		1.0	ug/L			11/25/20 18:50	1
Xylenes, Total	<10		10	ug/L			11/25/20 18:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	88		78 - 118				11/25/20 18:50	1
Dibromofluoromethane	101		81 - 121				11/25/20 18:50	1
Toluene-d8 (Surr)	96		80 - 120				11/25/20 18:50	1

Client Sample Results

Client: Stantec Consulting Services Inc
 Project/Site: EIPaso CGP Company-James F Bell #1E.00

Job ID: 400-195969-1

Client Sample ID: MW-17

Lab Sample ID: 400-195969-11

Date Collected: 11/15/20 14:22

Matrix: Water

Date Received: 11/17/20 09:36

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			11/25/20 19:15	1
Toluene	<1.0		1.0	ug/L			11/25/20 19:15	1
Ethylbenzene	<1.0		1.0	ug/L			11/25/20 19:15	1
Xylenes, Total	<10		10	ug/L			11/25/20 19:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	89		78 - 118		11/25/20 19:15	1
Dibromofluoromethane	96		81 - 121		11/25/20 19:15	1
Toluene-d8 (Surr)	95		80 - 120		11/25/20 19:15	1

Client Sample Results

Client: Stantec Consulting Services Inc
 Project/Site: EIPaso CGP Company-James F Bell #1E.00

Job ID: 400-195969-1

Client Sample ID: MW-18

Lab Sample ID: 400-195969-12

Date Collected: 11/15/20 14:30

Matrix: Water

Date Received: 11/17/20 09:36

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			11/25/20 19:40	1
Toluene	<1.0		1.0	ug/L			11/25/20 19:40	1
Ethylbenzene	<1.0		1.0	ug/L			11/25/20 19:40	1
Xylenes, Total	<10		10	ug/L			11/25/20 19:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	88		78 - 118				11/25/20 19:40	1
Dibromofluoromethane	98		81 - 121				11/25/20 19:40	1
Toluene-d8 (Surr)	96		80 - 120				11/25/20 19:40	1

QC Association Summary

Client: Stantec Consulting Services Inc
 Project/Site: EIPaso CGP Company-James F Bell #1E.00

Job ID: 400-195969-1

GC/MS VOA

Analysis Batch: 511467

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-195969-4	MW-6	Total/NA	Water	8260C	
400-195969-5	MW-11	Total/NA	Water	8260C	
MB 400-511467/5	Method Blank	Total/NA	Water	8260C	
LCS 400-511467/1003	Lab Control Sample	Total/NA	Water	8260C	
400-195738-A-3 MS	Matrix Spike	Total/NA	Water	8260C	
400-195738-A-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260C	

Analysis Batch: 511625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-195969-4 - DL	MW-6	Total/NA	Water	8260C	
MB 400-511625/4	Method Blank	Total/NA	Water	8260C	
LCS 400-511625/1002	Lab Control Sample	Total/NA	Water	8260C	
400-195738-A-1 MS	Matrix Spike	Total/NA	Water	8260C	
400-195738-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260C	

Analysis Batch: 512060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-195969-1	TB-01	Total/NA	Water	8260C	
400-195969-2	DUP-01	Total/NA	Water	8260C	
400-195969-3	MW-5	Total/NA	Water	8260C	
400-195969-6	MW-12	Total/NA	Water	8260C	
400-195969-7	MW-13	Total/NA	Water	8260C	
400-195969-8	MW-14	Total/NA	Water	8260C	
400-195969-9	MW-15	Total/NA	Water	8260C	
400-195969-10	MW-16	Total/NA	Water	8260C	
400-195969-11	MW-17	Total/NA	Water	8260C	
400-195969-12	MW-18	Total/NA	Water	8260C	
MB 400-512060/5	Method Blank	Total/NA	Water	8260C	
LCS 400-512060/1002	Lab Control Sample	Total/NA	Water	8260C	
400-195778-A-1 MS	Matrix Spike	Total/NA	Water	8260C	
400-195778-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260C	

QC Sample Results

Client: Stantec Consulting Services Inc
 Project/Site: EIPaso CGP Company-James F Bell #1E.00

Job ID: 400-195969-1

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

Lab Sample ID: MB 400-511467/5

Matrix: Water

Analysis Batch: 511467

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Benzene	<1.0		1.0	ug/L			11/20/20 11:33	1
Toluene	<1.0		1.0	ug/L			11/20/20 11:33	1
Ethylbenzene	<1.0		1.0	ug/L			11/20/20 11:33	1
Xylenes, Total	<10		10	ug/L			11/20/20 11:33	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene	98		78 - 118		11/20/20 11:33	1
Dibromofluoromethane	99		81 - 121		11/20/20 11:33	1
Toluene-d8 (Surr)	101		80 - 120		11/20/20 11:33	1

Lab Sample ID: LCS 400-511467/1003

Matrix: Water

Analysis Batch: 511467

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	50.0	52.4		ug/L		105	70 - 130
Ethylbenzene	50.0	53.5		ug/L		107	70 - 130
Xylenes, Total	100	106		ug/L		106	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	98		78 - 118
Dibromofluoromethane	102		81 - 121
Toluene-d8 (Surr)	104		80 - 120

Lab Sample ID: 400-195738-A-3 MS

Matrix: Water

Analysis Batch: 511467

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
Toluene	<1.0		50.0	47.6		ug/L		95	65 - 130
Ethylbenzene	3.0		50.0	49.3		ug/L		93	58 - 131
Xylenes, Total	<10		100	94.4		ug/L		92	59 - 130

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	98		78 - 118
Dibromofluoromethane	102		81 - 121
Toluene-d8 (Surr)	104		80 - 120

Lab Sample ID: 400-195738-A-3 MSD

Matrix: Water

Analysis Batch: 511467

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	Limit
Toluene	<1.0		50.0	51.2		ug/L		102	65 - 130	7	30
Ethylbenzene	3.0		50.0	54.0		ug/L		102	58 - 131	9	30

Eurofins TestAmerica, Pensacola

QC Sample Results

Client: Stantec Consulting Services Inc
 Project/Site: EIPaso CGP Company-James F Bell #1E.00

Job ID: 400-195969-1

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

Lab Sample ID: 400-195738-A-3 MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 511467

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Xylenes, Total	<10		100	103		ug/L		101	59 - 130	9	30
Surrogate	%Recovery	MSD Qualifier	MSD Limits								
4-Bromofluorobenzene	101		78 - 118								
Dibromofluoromethane	101		81 - 121								
Toluene-d8 (Surr)	102		80 - 120								

Lab Sample ID: MB 400-511625/4

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 511625

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<10		10	ug/L			11/21/20 12:03	1
Surrogate	%Recovery	MB Qualifier	MB Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	101		78 - 118				11/21/20 12:03	1
Dibromofluoromethane	100		81 - 121				11/21/20 12:03	1
Toluene-d8 (Surr)	102		80 - 120				11/21/20 12:03	1

Lab Sample ID: LCS 400-511625/1002

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 511625

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Xylenes, Total	100	94.3		ug/L		94	70 - 130
Surrogate	%Recovery	LCS Qualifier	LCS Limits				
4-Bromofluorobenzene	101		78 - 118				
Dibromofluoromethane	103		81 - 121				
Toluene-d8 (Surr)	106		80 - 120				

Lab Sample ID: 400-195738-A-1 MS

Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 511625

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Xylenes, Total	14		100	110		ug/L		96	59 - 130
Surrogate	%Recovery	MS Qualifier	MS Limits						
4-Bromofluorobenzene	100		78 - 118						
Dibromofluoromethane	102		81 - 121						
Toluene-d8 (Surr)	106		80 - 120						

Eurofins TestAmerica, Pensacola

QC Sample Results

Client: Stantec Consulting Services Inc
 Project/Site: EIPaso CGP Company-James F Bell #1E.00

Job ID: 400-195969-1

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

Lab Sample ID: 400-195738-A-1 MSD

Matrix: Water

Analysis Batch: 511625

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Xylenes, Total	14		100	110		ug/L		95	59 - 130	0	30
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene	102		78 - 118								
Dibromofluoromethane	102		81 - 121								
Toluene-d8 (Surr)	103		80 - 120								

Lab Sample ID: MB 400-512060/5

Matrix: Water

Analysis Batch: 512060

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			11/25/20 11:44	1
Toluene	<1.0		1.0	ug/L			11/25/20 11:44	1
Ethylbenzene	<1.0		1.0	ug/L			11/25/20 11:44	1
Xylenes, Total	<10		10	ug/L			11/25/20 11:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	93		78 - 118				11/25/20 11:44	1
Dibromofluoromethane	99		81 - 121				11/25/20 11:44	1
Toluene-d8 (Surr)	96		80 - 120				11/25/20 11:44	1

Lab Sample ID: LCS 400-512060/1002

Matrix: Water

Analysis Batch: 512060

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	47.6		ug/L		95	70 - 130
Toluene	50.0	48.2		ug/L		96	70 - 130
Ethylbenzene	50.0	48.6		ug/L		97	70 - 130
Xylenes, Total	100	96.7		ug/L		97	70 - 130
Surrogate	%Recovery	Qualifier	Limits				
4-Bromofluorobenzene	91		78 - 118				
Dibromofluoromethane	102		81 - 121				
Toluene-d8 (Surr)	96		80 - 120				

Lab Sample ID: 400-195778-A-1 MS

Matrix: Water

Analysis Batch: 512060

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<1.0		50.0	56.7		ug/L		113	56 - 142
Toluene	<1.0		50.0	53.3		ug/L		105	65 - 130
Ethylbenzene	<1.0		50.0	47.3		ug/L		95	58 - 131
Xylenes, Total	<10		100	91.5		ug/L		92	59 - 130

Eurofins TestAmerica, Pensacola

QC Sample Results

Client: Stantec Consulting Services Inc
 Project/Site: EIPaso CGP Company-James F Bell #1E.00

Job ID: 400-195969-1

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

Lab Sample ID: 400-195778-A-1 MS
 Matrix: Water
 Analysis Batch: 512060

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

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	90		78 - 118
Dibromofluoromethane	102		81 - 121
Toluene-d8 (Surr)	98		80 - 120

Lab Sample ID: 400-195778-A-1 MSD
 Matrix: Water
 Analysis Batch: 512060

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

Analyte	Sample	Sample	Spike	MSD MSD		Unit	D	%Rec	%Rec.		RPD	
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit	
Benzene	<1.0		50.0	56.6		ug/L		113	56 - 142	0	30	
Toluene	<1.0		50.0	52.7		ug/L		104	65 - 130	1	30	
Ethylbenzene	<1.0		50.0	45.4		ug/L		91	58 - 131	4	30	
Xylenes, Total	<10		100	88.8		ug/L		89	59 - 130	3	30	

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	91		78 - 118
Dibromofluoromethane	102		81 - 121
Toluene-d8 (Surr)	98		80 - 120

- 1
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- 14

Lab Chronicle

Client: Stantec Consulting Services Inc
 Project/Site: EIPaso CGP Company-James F Bell #1E.00

Job ID: 400-195969-1

Client Sample ID: TB-01

Lab Sample ID: 400-195969-1

Date Collected: 11/15/20 12:30

Matrix: Water

Date Received: 11/17/20 09:36

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	512060	11/25/20 15:54	CAR	TAL PEN
Instrument ID: Curie										

Client Sample ID: DUP-01

Lab Sample ID: 400-195969-2

Date Collected: 11/15/20 13:35

Matrix: Water

Date Received: 11/17/20 09:36

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	512060	11/25/20 16:19	CAR	TAL PEN
Instrument ID: Curie										

Client Sample ID: MW-5

Lab Sample ID: 400-195969-3

Date Collected: 11/15/20 13:03

Matrix: Water

Date Received: 11/17/20 09:36

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	512060	11/25/20 16:45	CAR	TAL PEN
Instrument ID: Curie										

Client Sample ID: MW-6

Lab Sample ID: 400-195969-4

Date Collected: 11/15/20 13:21

Matrix: Water

Date Received: 11/17/20 09:36

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	511467	11/20/20 19:17	CAR	TAL PEN
Instrument ID: Brutus										
Total/NA	Analysis	8260C	DL	5	5 mL	5 mL	511625	11/21/20 14:07	CAR	TAL PEN
Instrument ID: Brutus										

Client Sample ID: MW-11

Lab Sample ID: 400-195969-5

Date Collected: 11/15/20 13:30

Matrix: Water

Date Received: 11/17/20 09:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		20	5 mL	5 mL	511467	11/20/20 20:31	CAR	TAL PEN
Instrument ID: Brutus										

Client Sample ID: MW-12

Lab Sample ID: 400-195969-6

Date Collected: 11/15/20 13:39

Matrix: Water

Date Received: 11/17/20 09:36

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	512060	11/25/20 17:10	CAR	TAL PEN
Instrument ID: Curie										

Eurofins TestAmerica, Pensacola

Lab Chronicle

Client: Stantec Consulting Services Inc
 Project/Site: EIPaso CGP Company-James F Bell #1E.00

Job ID: 400-195969-1

Client Sample ID: MW-13

Lab Sample ID: 400-195969-7

Date Collected: 11/15/20 13:46

Matrix: Water

Date Received: 11/17/20 09:36

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	512060	11/25/20 17:35	CAR	TAL PEN
Instrument ID: Curie										

Client Sample ID: MW-14

Lab Sample ID: 400-195969-8

Date Collected: 11/15/20 13:54

Matrix: Water

Date Received: 11/17/20 09:36

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	512060	11/25/20 18:00	CAR	TAL PEN
Instrument ID: Curie										

Client Sample ID: MW-15

Lab Sample ID: 400-195969-9

Date Collected: 11/15/20 14:01

Matrix: Water

Date Received: 11/17/20 09:36

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	512060	11/25/20 18:25	CAR	TAL PEN
Instrument ID: Curie										

Client Sample ID: MW-16

Lab Sample ID: 400-195969-10

Date Collected: 11/15/20 14:15

Matrix: Water

Date Received: 11/17/20 09:36

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	512060	11/25/20 18:50	CAR	TAL PEN
Instrument ID: Curie										

Client Sample ID: MW-17

Lab Sample ID: 400-195969-11

Date Collected: 11/15/20 14:22

Matrix: Water

Date Received: 11/17/20 09:36

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	512060	11/25/20 19:15	CAR	TAL PEN
Instrument ID: Curie										

Client Sample ID: MW-18

Lab Sample ID: 400-195969-12

Date Collected: 11/15/20 14:30

Matrix: Water

Date Received: 11/17/20 09:36

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	512060	11/25/20 19:40	CAR	TAL PEN
Instrument ID: Curie										

Laboratory References:

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

Eurofins TestAmerica, Pensacola

Accreditation/Certification Summary

Client: Stantec Consulting Services Inc
 Project/Site: EIPaso CGP Company-James F Bell #1E.00

Job ID: 400-195969-1

Laboratory: Eurofins TestAmerica, Pensacola

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

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-21
ANAB	ISO/IEC 17025	L2471	02-23-23
Arizona	State	AZ0710	01-13-21
Arkansas DEQ	State	88-0689	09-02-21
California	State	2510	06-30-21
Florida	NELAP	E81010	06-30-21
Georgia	State	E81010(FL)	06-30-21
Illinois	NELAP	200041	10-09-21
Iowa	State	367	08-01-22
Kansas	NELAP	E-10253	10-31-21
Kentucky (UST)	State	53	06-30-21
Kentucky (WW)	State	KY98030	12-31-20
Louisiana	NELAP	30976	06-30-21
Louisiana (DW)	State	LA017	12-31-20
Maryland	State	233	09-30-21
Massachusetts	State	M-FL094	06-30-21
Michigan	State	9912	06-30-21
Minnesota	NELAP	012-999-481	12-31-20
New Jersey	NELAP	FL006	06-30-21
New York	NELAP	12115	04-01-21
North Carolina (WW/SW)	State	314	12-31-20
Oklahoma	State	9810-186	08-31-21
Pennsylvania	NELAP	68-00467	01-31-21
Rhode Island	State	LAO00307	12-30-20
South Carolina	State	96026002	06-30-21
Tennessee	State	TN02907	06-30-21
Texas	NELAP	T104704286	09-30-21
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-18-00148	05-17-21
Virginia	NELAP	460166	06-14-21
Washington	State	C915	05-15-21
West Virginia DEP	State	136	12-31-20

Eurofins TestAmerica, Pensacola

Method Summary

Client: Stantec Consulting Services Inc
Project/Site: EIPaso CGP Company-James F Bell #1E.00

Job ID: 400-195969-1

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

Protocol References:

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

Laboratory References:

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



Eurofins TestAmerica, Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone: 850-474-1001 Fax: 850-478-2071

Chain of Custody Record



Client Information
 Client Contact: Steve Varsa
 Company: Stantec Consulting Services Inc
 Address: 11153 Aurora Avenue
 City: Des Moines
 State, Zip: IA, 50322-7904
 Phone: 503-291-2239 (Tel)
 Email: steve.varsa@stantec.com
 Project Name: James F Bell #1 E
 Site: J F Bell

Lab P/N: Edwards, Marty P
 E-Mail: Marty.Edwards@Eurofinset.com
 Lab P/N: 400-97376-35220-1
 Page: Page 1 of 2
 Job #: 400-195969 COC

Carrier Tracking (if any):
 Analysis Requested:
 Due Date Requested:
 TAT Requested (days): STD
 PG #:
 See Project Notes
 WO #:
 Project #:
 40005479
 SSOW #:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (w=water, s=solid, o=other, sl=sludge, R=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6260C - (MOD) BTEX 8260	6260C - (MOD) BTEX 8260 (unpreserved)	Total Number of Containers	Special Instructions/Note:
TB-01	11/15/2020	1230	G	Water	X	N			2	True Blank
DUP-01	11/15/2020	1335	G	Water	X				3	Blind Dup.
MW-5	11/15/2020	1305	G	Water	X				3	
MW-6	11/15/2020	1321	G	Water	X				3	
MW-11	11/15/2020	1330	G	Water	X				3	
MW-12	11/15/2020	1339	G	Water	X				3	
MW-13	11/15/2020	1346	G	Water	X				3	
MW-14	11/15/2020	1354	G	Water	X				3	
MW-15	11/15/2020	1401	G	Water	X				3	
MW-16	11/15/2020	1415	G	Water	X				3	
MW-17	11/15/2020	1422	G	Water	X				3	

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant
 Deliverable Requested: I, II, III, IV, Other (specify):
 Empty Kit Relinquished by: _____ Date: _____
 Reinstated by: Ken R. Clary Date: 11/16/2020 Time: 0700
 Relinquished by: _____ Date/Time: _____
 Relinquished by: _____ Date/Time: _____
 Relinquished by: _____ Date/Time: _____
 Custody Seals Intact: Yes No
 Custody Seal No.: _____
 Cooler Temperature(s) °C and Other Remarks: 0.0°C IR-8
 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements:
 Method of Shipment: Fedex
 Received by: Shelly Date/Time: 11-17-20 0936 Company: TAPEN
 Received by: _____ Date/Time: _____ Company: _____
 Received by: _____ Date/Time: _____ Company: _____



Ver: 01/16/2019



TestAmerica Des Moines SC 214

Chain of Custody Record

Eurofins TestAmerica, Pensacola

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

Environment Testing
America

Client Information
 Client Contact: Steve Varsa
 Company: Stantec Consulting Services Inc
 Address: 11153 Aurora Avenue
 City: Des Moines
 State, Zip: IA, 50322-7904
 Phone: 303-291-2239(Tel)
 Email: steve.varsa@stantec.com
 Project Name: James F Bell #1E 00
 Site: See Font

Sampler SRC
Phone 913-980-0281
 Lab PI: Edwards, Marty P
 E-Mail: Marty.Edwards@Eurofinset.com

Due Date Requested:
TAT Requested (days): STD

PO #: See Project Notes
WC #:
Project #: 40005479
SOW#:

Sample Identification
 MW-18

Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=sediment, D=drediment, T=tissue, A=air)	Field Filtered Sample (Yes or No)	Perform M/MSD (Yes or No)	6260C - (MOD) BTEX 8260 (unpreserved)	6260C - (MOD) BTEX 8260
11/15/20	1430	G	Water	X	X	N	N
			Water				
			Water				
			Water				
			Water				
			Water				
			Water				
			Water				
			Water				
			Water				
			Water				
			Water				
			Water				

Analysis Requested
 Total Number of Containers: 3

Special Instructions/Note:

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 - EDTA
 Other:
 M - Hexane
 N - None
 O - AsHClO2
 P - Na2O4S
 Q - Na2SO3
 R - Na2S2O3
 S - H2SO4
 T - TSP Codecalhydrate
 U - Acetone
 V - MCAA
 W - pH 4-5
 Z - other (specify)

Possible Hazard Identification
 Non-Hazard
 Flammable
 Skin Irritant
 Deliverable Requested, I, II, III, IV, Other (specify)
 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

Special Instructions/OC Requirements:

Empty Kit Relinquished by: Jim R Clay
Date: 11/16/2020 0700
Company: STW

Relinquished by: [Signature]
Date/Time: 11-17-20 0936
Company: TAPP

Relinquished by: [Signature]
Date/Time: 0100 12-8
Company:

Custody Seals Intact: Yes No
Custody Seal No.:

Method of Shipment: FedEx
Date/Time: 11-17-20 0936
Company: TAPP

Relinquished by: [Signature]
Date/Time: 0100 12-8
Company:

Cooler Temperature(s) °C and Other Remarks: 0.00c 12-8

Ver: 01/16/2019



Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc

Job Number: 400-195969-1

Login Number: 195969

List Source: Eurofins TestAmerica, Pensacola

List Number: 1

Creator: Conrady, Hank W

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.0°C IR-8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Environment Testing
America

ANALYTICAL REPORT

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

Laboratory Job ID: 400-195962-1

Client Project/Site: EIPaso CGP Company-Johnston Fed #4

For:

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

Attn: Steve Varsa

Authorized for release by:
12/1/2020 4:41:24 PM

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



LINKS

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Have a Question?



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www.eurofinsus.com/Env

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

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

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

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Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company-Johnston Fed #4

Laboratory Job ID: 400-195962-1

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Definitions/Glossary

Client: Stantec Consulting Services Inc
 Project/Site: EIPaso CGP Company-Johnston Fed #4

Job ID: 400-195962-1

Glossary

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

Case Narrative

Client: Stantec Consulting Services Inc
Project/Site: EIPaso CGP Company-Johnston Fed #4

Job ID: 400-195962-1

Job ID: 400-195962-1

Laboratory: Eurofins TestAmerica, Pensacola**Narrative****Job Narrative
400-195962-1****Comments**

No additional comments.

Receipt

The samples were received on 11/17/2020 9:36 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.1° C.

GC/MS VOA

Method 8260C: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: MW-9 (400-195962-7) and MW-10 (400-195962-8). Elevated reporting limits (RLs) are provided.

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

VOA Prep

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

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Detection Summary

Client: Stantec Consulting Services Inc
Project/Site: EIPaso CGP Company-Johnston Fed #4

Job ID: 400-195962-1

Client Sample ID: TB-01

Lab Sample ID: 400-195962-1

No Detections.

Client Sample ID: DUP-01

Lab Sample ID: 400-195962-2

No Detections.

Client Sample ID: DUP-02

Lab Sample ID: 400-195962-3

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	29		1.0	ug/L	1		8260C	Total/NA
Ethylbenzene	2.8		1.0	ug/L	1		8260C	Total/NA
Xylenes, Total	18		10	ug/L	1		8260C	Total/NA

Client Sample ID: MW-2

Lab Sample ID: 400-195962-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	42		1.0	ug/L	1		8260C	Total/NA
Toluene	1.3		1.0	ug/L	1		8260C	Total/NA

Client Sample ID: MW-4

Lab Sample ID: 400-195962-5

No Detections.

Client Sample ID: MW-6

Lab Sample ID: 400-195962-6

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	8.9		1.0	ug/L	1		8260C	Total/NA

Client Sample ID: MW-9

Lab Sample ID: 400-195962-7

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	240		2.0	ug/L	2		8260C	Total/NA
Ethylbenzene	6.1		2.0	ug/L	2		8260C	Total/NA
Xylenes, Total	35		20	ug/L	2		8260C	Total/NA

Client Sample ID: MW-10

Lab Sample ID: 400-195962-8

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	2700		20	ug/L	20		8260C	Total/NA
Ethylbenzene	53		20	ug/L	20		8260C	Total/NA

Client Sample ID: MW-12

Lab Sample ID: 400-195962-9

No Detections.

Client Sample ID: MW-13

Lab Sample ID: 400-195962-10

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	11		1.0	ug/L	1		8260C	Total/NA

Client Sample ID: MW-14

Lab Sample ID: 400-195962-11

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	12		1.0	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Pensacola

Detection Summary

Client: Stantec Consulting Services Inc
 Project/Site: EIPaso CGP Company-Johnston Fed #4

Job ID: 400-195962-1

Client Sample ID: MW-15

Lab Sample ID: 400-195962-12

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	20		1.0	ug/L	1		8260C	Total/NA

Client Sample ID: MW-16

Lab Sample ID: 400-195962-13

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	2.7		1.0	ug/L	1		8260C	Total/NA

Client Sample ID: MW-17

Lab Sample ID: 400-195962-14

No Detections.

Client Sample ID: MW-18

Lab Sample ID: 400-195962-15

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	3.2		1.0	ug/L	1		8260C	Total/NA
Ethylbenzene	1.3		1.0	ug/L	1		8260C	Total/NA

Client Sample ID: MW-19

Lab Sample ID: 400-195962-16

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	16		1.0	ug/L	1		8260C	Total/NA
Ethylbenzene	1.4		1.0	ug/L	1		8260C	Total/NA

Client Sample ID: MW-20

Lab Sample ID: 400-195962-17

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	210		1.0	ug/L	1		8260C	Total/NA
Ethylbenzene	3.6		1.0	ug/L	1		8260C	Total/NA
Xylenes, Total	35		10	ug/L	1		8260C	Total/NA

Client Sample ID: MW-23

Lab Sample ID: 400-195962-18

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Pensacola

Sample Summary

Client: Stantec Consulting Services Inc
Project/Site: EIPaso CGP Company-Johnston Fed #4

Job ID: 400-195962-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
400-195962-1	TB-01	Water	11/13/20 07:30	11/17/20 09:36	
400-195962-2	DUP-01	Water	11/13/20 09:47	11/17/20 09:36	
400-195962-3	DUP-02	Water	11/13/20 12:07	11/17/20 09:36	
400-195962-4	MW-2	Water	11/13/20 09:42	11/17/20 09:36	
400-195962-5	MW-4	Water	11/13/20 09:55	11/17/20 09:36	
400-195962-6	MW-6	Water	11/13/20 10:03	11/17/20 09:36	
400-195962-7	MW-9	Water	11/13/20 10:18	11/17/20 09:36	
400-195962-8	MW-10	Water	11/13/20 10:27	11/17/20 09:36	
400-195962-9	MW-12	Water	11/13/20 10:35	11/17/20 09:36	
400-195962-10	MW-13	Water	11/13/20 10:42	11/17/20 09:36	
400-195962-11	MW-14	Water	11/13/20 10:50	11/17/20 09:36	
400-195962-12	MW-15	Water	11/13/20 10:58	11/17/20 09:36	
400-195962-13	MW-16	Water	11/13/20 11:07	11/17/20 09:36	
400-195962-14	MW-17	Water	11/13/20 11:14	11/17/20 09:36	
400-195962-15	MW-18	Water	11/13/20 11:23	11/17/20 09:36	
400-195962-16	MW-19	Water	11/13/20 11:37	11/17/20 09:36	
400-195962-17	MW-20	Water	11/13/20 11:44	11/17/20 09:36	
400-195962-18	MW-23	Water	11/13/20 09:17	11/17/20 09:36	

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Client Sample Results

Client: Stantec Consulting Services Inc
 Project/Site: EIPaso CGP Company-Johnston Fed #4

Job ID: 400-195962-1

Client Sample ID: TB-01

Lab Sample ID: 400-195962-1

Date Collected: 11/13/20 07:30

Matrix: Water

Date Received: 11/17/20 09:36

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			11/25/20 17:08	1
Ethylbenzene	<1.0		1.0	ug/L			11/25/20 17:08	1
Toluene	<1.0		1.0	ug/L			11/25/20 17:08	1
Xylenes, Total	<10		10	ug/L			11/25/20 17:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		80 - 120		11/25/20 17:08	1
4-Bromofluorobenzene (Surr)	95		80 - 120		11/25/20 17:08	1
Dibromofluoromethane (Surr)	99		80 - 120		11/25/20 17:08	1
Toluene-d8 (Surr)	97		80 - 120		11/25/20 17:08	1

Client Sample Results

Client: Stantec Consulting Services Inc
 Project/Site: EIPaso CGP Company-Johnston Fed #4

Job ID: 400-195962-1

Client Sample ID: DUP-01

Lab Sample ID: 400-195962-2

Date Collected: 11/13/20 09:47

Matrix: Water

Date Received: 11/17/20 09:36

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			11/25/20 19:30	1
Ethylbenzene	<1.0		1.0	ug/L			11/25/20 19:30	1
Toluene	<1.0		1.0	ug/L			11/25/20 19:30	1
Xylenes, Total	<10		10	ug/L			11/25/20 19:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		80 - 120		11/25/20 19:30	1
4-Bromofluorobenzene (Surr)	96		80 - 120		11/25/20 19:30	1
Dibromofluoromethane (Surr)	98		80 - 120		11/25/20 19:30	1
Toluene-d8 (Surr)	98		80 - 120		11/25/20 19:30	1

Client Sample Results

Client: Stantec Consulting Services Inc
 Project/Site: EIPaso CGP Company-Johnston Fed #4

Job ID: 400-195962-1

Client Sample ID: DUP-02

Lab Sample ID: 400-195962-3

Date Collected: 11/13/20 12:07

Matrix: Water

Date Received: 11/17/20 09:36

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	29		1.0	ug/L			11/25/20 19:50	1
Ethylbenzene	2.8		1.0	ug/L			11/25/20 19:50	1
Toluene	<1.0		1.0	ug/L			11/25/20 19:50	1
Xylenes, Total	18		10	ug/L			11/25/20 19:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		80 - 120		11/25/20 19:50	1
4-Bromofluorobenzene (Surr)	97		80 - 120		11/25/20 19:50	1
Dibromofluoromethane (Surr)	99		80 - 120		11/25/20 19:50	1
Toluene-d8 (Surr)	98		80 - 120		11/25/20 19:50	1

Client Sample Results

Client: Stantec Consulting Services Inc
 Project/Site: EIPaso CGP Company-Johnston Fed #4

Job ID: 400-195962-1

Client Sample ID: MW-2

Lab Sample ID: 400-195962-4

Date Collected: 11/13/20 09:42

Matrix: Water

Date Received: 11/17/20 09:36

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	42		1.0	ug/L			11/25/20 20:10	1
Ethylbenzene	<1.0		1.0	ug/L			11/25/20 20:10	1
Toluene	1.3		1.0	ug/L			11/25/20 20:10	1
Xylenes, Total	<10		10	ug/L			11/25/20 20:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		80 - 120		11/25/20 20:10	1
4-Bromofluorobenzene (Surr)	96		80 - 120		11/25/20 20:10	1
Dibromofluoromethane (Surr)	99		80 - 120		11/25/20 20:10	1
Toluene-d8 (Surr)	97		80 - 120		11/25/20 20:10	1

Client Sample Results

Client: Stantec Consulting Services Inc
 Project/Site: EIPaso CGP Company-Johnston Fed #4

Job ID: 400-195962-1

Client Sample ID: MW-4

Lab Sample ID: 400-195962-5

Date Collected: 11/13/20 09:55

Matrix: Water

Date Received: 11/17/20 09:36

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			11/25/20 20:30	1
Ethylbenzene	<1.0		1.0	ug/L			11/25/20 20:30	1
Toluene	<1.0		1.0	ug/L			11/25/20 20:30	1
Xylenes, Total	<10		10	ug/L			11/25/20 20:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		80 - 120		11/25/20 20:30	1
4-Bromofluorobenzene (Surr)	97		80 - 120		11/25/20 20:30	1
Dibromofluoromethane (Surr)	97		80 - 120		11/25/20 20:30	1
Toluene-d8 (Surr)	98		80 - 120		11/25/20 20:30	1

Client Sample Results

Client: Stantec Consulting Services Inc
 Project/Site: EIPaso CGP Company-Johnston Fed #4

Job ID: 400-195962-1

Client Sample ID: MW-6

Lab Sample ID: 400-195962-6

Date Collected: 11/13/20 10:03

Matrix: Water

Date Received: 11/17/20 09:36

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	8.9		1.0	ug/L			11/25/20 20:51	1
Ethylbenzene	<1.0		1.0	ug/L			11/25/20 20:51	1
Toluene	<1.0		1.0	ug/L			11/25/20 20:51	1
Xylenes, Total	<10		10	ug/L			11/25/20 20:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		80 - 120		11/25/20 20:51	1
4-Bromofluorobenzene (Surr)	98		80 - 120		11/25/20 20:51	1
Dibromofluoromethane (Surr)	100		80 - 120		11/25/20 20:51	1
Toluene-d8 (Surr)	98		80 - 120		11/25/20 20:51	1

Client Sample Results

Client: Stantec Consulting Services Inc
 Project/Site: EIPaso CGP Company-Johnston Fed #4

Job ID: 400-195962-1

Client Sample ID: MW-9

Lab Sample ID: 400-195962-7

Date Collected: 11/13/20 10:18

Matrix: Water

Date Received: 11/17/20 09:36

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	240		2.0	ug/L			11/25/20 21:51	2
Ethylbenzene	6.1		2.0	ug/L			11/25/20 21:51	2
Toluene	<2.0		2.0	ug/L			11/25/20 21:51	2
Xylenes, Total	35		20	ug/L			11/25/20 21:51	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		80 - 120		11/25/20 21:51	2
4-Bromofluorobenzene (Surr)	96		80 - 120		11/25/20 21:51	2
Dibromofluoromethane (Surr)	99		80 - 120		11/25/20 21:51	2
Toluene-d8 (Surr)	98		80 - 120		11/25/20 21:51	2

Client Sample Results

Client: Stantec Consulting Services Inc
 Project/Site: EIPaso CGP Company-Johnston Fed #4

Job ID: 400-195962-1

Client Sample ID: MW-10

Lab Sample ID: 400-195962-8

Date Collected: 11/13/20 10:27

Matrix: Water

Date Received: 11/17/20 09:36

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2700		20	ug/L			11/25/20 22:12	20
Ethylbenzene	53		20	ug/L			11/25/20 22:12	20
Toluene	<20		20	ug/L			11/25/20 22:12	20
Xylenes, Total	<200		200	ug/L			11/25/20 22:12	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		80 - 120		11/25/20 22:12	20
4-Bromofluorobenzene (Surr)	96		80 - 120		11/25/20 22:12	20
Dibromofluoromethane (Surr)	98		80 - 120		11/25/20 22:12	20
Toluene-d8 (Surr)	98		80 - 120		11/25/20 22:12	20

Client Sample Results

Client: Stantec Consulting Services Inc
 Project/Site: EIPaso CGP Company-Johnston Fed #4

Job ID: 400-195962-1

Client Sample ID: MW-12

Lab Sample ID: 400-195962-9

Date Collected: 11/13/20 10:35

Matrix: Water

Date Received: 11/17/20 09:36

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			11/25/20 17:06	1
Ethylbenzene	<1.0		1.0	ug/L			11/25/20 17:06	1
Toluene	<1.0		1.0	ug/L			11/25/20 17:06	1
Xylenes, Total	<10		10	ug/L			11/25/20 17:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		80 - 120		11/25/20 17:06	1
4-Bromofluorobenzene (Surr)	97		80 - 120		11/25/20 17:06	1
Dibromofluoromethane (Surr)	97		80 - 120		11/25/20 17:06	1
Toluene-d8 (Surr)	102		80 - 120		11/25/20 17:06	1

Client Sample Results

Client: Stantec Consulting Services Inc
 Project/Site: EIPaso CGP Company-Johnston Fed #4

Job ID: 400-195962-1

Client Sample ID: MW-13

Lab Sample ID: 400-195962-10

Date Collected: 11/13/20 10:42

Matrix: Water

Date Received: 11/17/20 09:36

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	11		1.0	ug/L			11/25/20 17:26	1
Ethylbenzene	<1.0		1.0	ug/L			11/25/20 17:26	1
Toluene	<1.0		1.0	ug/L			11/25/20 17:26	1
Xylenes, Total	<10		10	ug/L			11/25/20 17:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		80 - 120		11/25/20 17:26	1
4-Bromofluorobenzene (Surr)	96		80 - 120		11/25/20 17:26	1
Dibromofluoromethane (Surr)	96		80 - 120		11/25/20 17:26	1
Toluene-d8 (Surr)	101		80 - 120		11/25/20 17:26	1

Client Sample Results

Client: Stantec Consulting Services Inc
 Project/Site: EIPaso CGP Company-Johnston Fed #4

Job ID: 400-195962-1

Client Sample ID: MW-14

Lab Sample ID: 400-195962-11

Date Collected: 11/13/20 10:50

Matrix: Water

Date Received: 11/17/20 09:36

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	12		1.0	ug/L			11/25/20 17:46	1
Ethylbenzene	<1.0		1.0	ug/L			11/25/20 17:46	1
Toluene	<1.0		1.0	ug/L			11/25/20 17:46	1
Xylenes, Total	<10		10	ug/L			11/25/20 17:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		80 - 120		11/25/20 17:46	1
4-Bromofluorobenzene (Surr)	95		80 - 120		11/25/20 17:46	1
Dibromofluoromethane (Surr)	96		80 - 120		11/25/20 17:46	1
Toluene-d8 (Surr)	101		80 - 120		11/25/20 17:46	1

Client Sample Results

Client: Stantec Consulting Services Inc
 Project/Site: EIPaso CGP Company-Johnston Fed #4

Job ID: 400-195962-1

Client Sample ID: MW-15

Lab Sample ID: 400-195962-12

Date Collected: 11/13/20 10:58

Matrix: Water

Date Received: 11/17/20 09:36

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	20		1.0	ug/L			11/25/20 18:06	1
Ethylbenzene	<1.0		1.0	ug/L			11/25/20 18:06	1
Toluene	<1.0		1.0	ug/L			11/25/20 18:06	1
Xylenes, Total	<10		10	ug/L			11/25/20 18:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		80 - 120		11/25/20 18:06	1
4-Bromofluorobenzene (Surr)	97		80 - 120		11/25/20 18:06	1
Dibromofluoromethane (Surr)	97		80 - 120		11/25/20 18:06	1
Toluene-d8 (Surr)	101		80 - 120		11/25/20 18:06	1

Client Sample Results

Client: Stantec Consulting Services Inc
 Project/Site: EIPaso CGP Company-Johnston Fed #4

Job ID: 400-195962-1

Client Sample ID: MW-16

Lab Sample ID: 400-195962-13

Date Collected: 11/13/20 11:07

Matrix: Water

Date Received: 11/17/20 09:36

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2.7		1.0	ug/L			11/25/20 18:26	1
Ethylbenzene	<1.0		1.0	ug/L			11/25/20 18:26	1
Toluene	<1.0		1.0	ug/L			11/25/20 18:26	1
Xylenes, Total	<10		10	ug/L			11/25/20 18:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		80 - 120		11/25/20 18:26	1
4-Bromofluorobenzene (Surr)	96		80 - 120		11/25/20 18:26	1
Dibromofluoromethane (Surr)	98		80 - 120		11/25/20 18:26	1
Toluene-d8 (Surr)	102		80 - 120		11/25/20 18:26	1

Client Sample Results

Client: Stantec Consulting Services Inc
 Project/Site: EIPaso CGP Company-Johnston Fed #4

Job ID: 400-195962-1

Client Sample ID: MW-17

Lab Sample ID: 400-195962-14

Date Collected: 11/13/20 11:14

Matrix: Water

Date Received: 11/17/20 09:36

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			11/25/20 18:46	1
Ethylbenzene	<1.0		1.0	ug/L			11/25/20 18:46	1
Toluene	<1.0		1.0	ug/L			11/25/20 18:46	1
Xylenes, Total	<10		10	ug/L			11/25/20 18:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		80 - 120		11/25/20 18:46	1
4-Bromofluorobenzene (Surr)	96		80 - 120		11/25/20 18:46	1
Dibromofluoromethane (Surr)	97		80 - 120		11/25/20 18:46	1
Toluene-d8 (Surr)	101		80 - 120		11/25/20 18:46	1

Client Sample Results

Client: Stantec Consulting Services Inc
 Project/Site: EIPaso CGP Company-Johnston Fed #4

Job ID: 400-195962-1

Client Sample ID: MW-18

Lab Sample ID: 400-195962-15

Date Collected: 11/13/20 11:23

Matrix: Water

Date Received: 11/17/20 09:36

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	3.2		1.0	ug/L			11/25/20 19:06	1
Ethylbenzene	1.3		1.0	ug/L			11/25/20 19:06	1
Toluene	<1.0		1.0	ug/L			11/25/20 19:06	1
Xylenes, Total	<10		10	ug/L			11/25/20 19:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		80 - 120		11/25/20 19:06	1
4-Bromofluorobenzene (Surr)	96		80 - 120		11/25/20 19:06	1
Dibromofluoromethane (Surr)	96		80 - 120		11/25/20 19:06	1
Toluene-d8 (Surr)	102		80 - 120		11/25/20 19:06	1

Client Sample Results

Client: Stantec Consulting Services Inc
 Project/Site: EIPaso CGP Company-Johnston Fed #4

Job ID: 400-195962-1

Client Sample ID: MW-19

Lab Sample ID: 400-195962-16

Date Collected: 11/13/20 11:37

Matrix: Water

Date Received: 11/17/20 09:36

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	16		1.0	ug/L			11/25/20 19:27	1
Ethylbenzene	1.4		1.0	ug/L			11/25/20 19:27	1
Toluene	<1.0		1.0	ug/L			11/25/20 19:27	1
Xylenes, Total	<10		10	ug/L			11/25/20 19:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		80 - 120		11/25/20 19:27	1
4-Bromofluorobenzene (Surr)	95		80 - 120		11/25/20 19:27	1
Dibromofluoromethane (Surr)	97		80 - 120		11/25/20 19:27	1
Toluene-d8 (Surr)	101		80 - 120		11/25/20 19:27	1

Client Sample Results

Client: Stantec Consulting Services Inc
 Project/Site: EIPaso CGP Company-Johnston Fed #4

Job ID: 400-195962-1

Client Sample ID: MW-20

Lab Sample ID: 400-195962-17

Date Collected: 11/13/20 11:44

Matrix: Water

Date Received: 11/17/20 09:36

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	210		1.0	ug/L			11/25/20 20:07	1
Ethylbenzene	3.6		1.0	ug/L			11/25/20 20:07	1
Toluene	<1.0		1.0	ug/L			11/25/20 20:07	1
Xylenes, Total	35		10	ug/L			11/25/20 20:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		80 - 120		11/25/20 20:07	1
4-Bromofluorobenzene (Surr)	97		80 - 120		11/25/20 20:07	1
Dibromofluoromethane (Surr)	96		80 - 120		11/25/20 20:07	1
Toluene-d8 (Surr)	101		80 - 120		11/25/20 20:07	1

Client Sample Results

Client: Stantec Consulting Services Inc
 Project/Site: EIPaso CGP Company-Johnston Fed #4

Job ID: 400-195962-1

Client Sample ID: MW-23

Lab Sample ID: 400-195962-18

Date Collected: 11/13/20 09:17

Matrix: Water

Date Received: 11/17/20 09:36

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			11/25/20 19:47	1
Ethylbenzene	<1.0		1.0	ug/L			11/25/20 19:47	1
Toluene	<1.0		1.0	ug/L			11/25/20 19:47	1
Xylenes, Total	<10		10	ug/L			11/25/20 19:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		80 - 120		11/25/20 19:47	1
4-Bromofluorobenzene (Surr)	94		80 - 120		11/25/20 19:47	1
Dibromofluoromethane (Surr)	97		80 - 120		11/25/20 19:47	1
Toluene-d8 (Surr)	100		80 - 120		11/25/20 19:47	1

QC Association Summary

Client: Stantec Consulting Services Inc
 Project/Site: EIPaso CGP Company-Johnston Fed #4

Job ID: 400-195962-1

GC/MS VOA

Analysis Batch: 70489

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-195962-9	MW-12	Total/NA	Water	8260C	
400-195962-10	MW-13	Total/NA	Water	8260C	
400-195962-11	MW-14	Total/NA	Water	8260C	
400-195962-12	MW-15	Total/NA	Water	8260C	
400-195962-13	MW-16	Total/NA	Water	8260C	
400-195962-14	MW-17	Total/NA	Water	8260C	
400-195962-15	MW-18	Total/NA	Water	8260C	
400-195962-16	MW-19	Total/NA	Water	8260C	
400-195962-17	MW-20	Total/NA	Water	8260C	
400-195962-18	MW-23	Total/NA	Water	8260C	
MB 410-70489/7	Method Blank	Total/NA	Water	8260C	
LCS 410-70489/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 410-70489/5	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 70492

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-195962-1	TB-01	Total/NA	Water	8260C	
400-195962-2	DUP-01	Total/NA	Water	8260C	
400-195962-3	DUP-02	Total/NA	Water	8260C	
400-195962-4	MW-2	Total/NA	Water	8260C	
400-195962-5	MW-4	Total/NA	Water	8260C	
400-195962-6	MW-6	Total/NA	Water	8260C	
400-195962-7	MW-9	Total/NA	Water	8260C	
400-195962-8	MW-10	Total/NA	Water	8260C	
MB 410-70492/7	Method Blank	Total/NA	Water	8260C	
LCS 410-70492/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 410-70492/5	Lab Control Sample Dup	Total/NA	Water	8260C	

QC Sample Results

Client: Stantec Consulting Services Inc
 Project/Site: EIPaso CGP Company-Johnston Fed #4

Job ID: 400-195962-1

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

Lab Sample ID: MB 410-70489/7

Matrix: Water

Analysis Batch: 70489

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			11/25/20 15:04	1
Ethylbenzene	<1.0		1.0	ug/L			11/25/20 15:04	1
Toluene	<1.0		1.0	ug/L			11/25/20 15:04	1
Xylenes, Total	<10		10	ug/L			11/25/20 15:04	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		80 - 120		11/25/20 15:04	1
4-Bromofluorobenzene (Surr)	95		80 - 120		11/25/20 15:04	1
Dibromofluoromethane (Surr)	96		80 - 120		11/25/20 15:04	1
Toluene-d8 (Surr)	101		80 - 120		11/25/20 15:04	1

Lab Sample ID: LCS 410-70489/4

Matrix: Water

Analysis Batch: 70489

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	20.0	21.3		ug/L		107	80 - 120
Ethylbenzene	20.0	21.2		ug/L		106	80 - 120
Toluene	20.0	21.9		ug/L		110	80 - 120
Xylenes, Total	60.0	64.8		ug/L		108	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		80 - 120
4-Bromofluorobenzene (Surr)	97		80 - 120
Dibromofluoromethane (Surr)	96		80 - 120
Toluene-d8 (Surr)	102		80 - 120

Lab Sample ID: LCSD 410-70489/5

Matrix: Water

Analysis Batch: 70489

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	20.0	20.9		ug/L		105	80 - 120	2	30
Ethylbenzene	20.0	20.7		ug/L		104	80 - 120	2	30
Toluene	20.0	21.4		ug/L		107	80 - 120	3	30
Xylenes, Total	60.0	62.8		ug/L		105	80 - 120	3	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		80 - 120
4-Bromofluorobenzene (Surr)	96		80 - 120
Dibromofluoromethane (Surr)	95		80 - 120
Toluene-d8 (Surr)	102		80 - 120

Eurofins TestAmerica, Pensacola

QC Sample Results

Client: Stantec Consulting Services Inc
 Project/Site: EIPaso CGP Company-Johnston Fed #4

Job ID: 400-195962-1

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

Lab Sample ID: MB 410-70492/7

Matrix: Water

Analysis Batch: 70492

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Benzene	<1.0		1.0	ug/L			11/25/20 15:07	1
Ethylbenzene	<1.0		1.0	ug/L			11/25/20 15:07	1
Toluene	<1.0		1.0	ug/L			11/25/20 15:07	1
Xylenes, Total	<10		10	ug/L			11/25/20 15:07	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	99		80 - 120		11/25/20 15:07	1
4-Bromofluorobenzene (Surr)	95		80 - 120		11/25/20 15:07	1
Dibromofluoromethane (Surr)	98		80 - 120		11/25/20 15:07	1
Toluene-d8 (Surr)	98		80 - 120		11/25/20 15:07	1

Lab Sample ID: LCS 410-70492/4

Matrix: Water

Analysis Batch: 70492

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Benzene	20.0	21.6		ug/L		108	80 - 120
Ethylbenzene	20.0	22.1		ug/L		110	80 - 120
Toluene	20.0	21.8		ug/L		109	80 - 120
Xylenes, Total	60.0	67.0		ug/L		112	80 - 120

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	99		80 - 120
4-Bromofluorobenzene (Surr)	97		80 - 120
Dibromofluoromethane (Surr)	100		80 - 120
Toluene-d8 (Surr)	98		80 - 120

Lab Sample ID: LCSD 410-70492/5

Matrix: Water

Analysis Batch: 70492

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec. Limits	RPD	Limit
		Result	Qualifier						
Benzene	20.0	21.7		ug/L		109	80 - 120	1	30
Ethylbenzene	20.0	22.1		ug/L		111	80 - 120	0	30
Toluene	20.0	21.7		ug/L		109	80 - 120	0	30
Xylenes, Total	60.0	67.4		ug/L		112	80 - 120	1	30

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	98		80 - 120
4-Bromofluorobenzene (Surr)	99		80 - 120
Dibromofluoromethane (Surr)	100		80 - 120
Toluene-d8 (Surr)	99		80 - 120

Eurofins TestAmerica, Pensacola

Lab Chronicle

Client: Stantec Consulting Services Inc
 Project/Site: EIPaso CGP Company-Johnston Fed #4

Job ID: 400-195962-1

Client Sample ID: TB-01

Lab Sample ID: 400-195962-1

Date Collected: 11/13/20 07:30

Matrix: Water

Date Received: 11/17/20 09:36

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	70492	11/25/20 17:08	UKAD	ELLE
Instrument ID: 15648										

Client Sample ID: DUP-01

Lab Sample ID: 400-195962-2

Date Collected: 11/13/20 09:47

Matrix: Water

Date Received: 11/17/20 09:36

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	70492	11/25/20 19:30	UKAD	ELLE
Instrument ID: 15648										

Client Sample ID: DUP-02

Lab Sample ID: 400-195962-3

Date Collected: 11/13/20 12:07

Matrix: Water

Date Received: 11/17/20 09:36

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	70492	11/25/20 19:50	UKAD	ELLE
Instrument ID: 15648										

Client Sample ID: MW-2

Lab Sample ID: 400-195962-4

Date Collected: 11/13/20 09:42

Matrix: Water

Date Received: 11/17/20 09:36

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	70492	11/25/20 20:10	UKAD	ELLE
Instrument ID: 15648										

Client Sample ID: MW-4

Lab Sample ID: 400-195962-5

Date Collected: 11/13/20 09:55

Matrix: Water

Date Received: 11/17/20 09:36

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	70492	11/25/20 20:30	UKAD	ELLE
Instrument ID: 15648										

Client Sample ID: MW-6

Lab Sample ID: 400-195962-6

Date Collected: 11/13/20 10:03

Matrix: Water

Date Received: 11/17/20 09:36

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	70492	11/25/20 20:51	UKAD	ELLE
Instrument ID: 15648										

Eurofins TestAmerica, Pensacola

Lab Chronicle

Client: Stantec Consulting Services Inc
 Project/Site: EIPaso CGP Company-Johnston Fed #4

Job ID: 400-195962-1

Client Sample ID: MW-9

Lab Sample ID: 400-195962-7

Date Collected: 11/13/20 10:18

Matrix: Water

Date Received: 11/17/20 09:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	5 mL	5 mL	70492	11/25/20 21:51	UKAD	ELLE
Instrument ID: 15648										

Client Sample ID: MW-10

Lab Sample ID: 400-195962-8

Date Collected: 11/13/20 10:27

Matrix: Water

Date Received: 11/17/20 09:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		20	5 mL	5 mL	70492	11/25/20 22:12	UKAD	ELLE
Instrument ID: 15648										

Client Sample ID: MW-12

Lab Sample ID: 400-195962-9

Date Collected: 11/13/20 10:35

Matrix: Water

Date Received: 11/17/20 09:36

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	70489	11/25/20 17:06	UCB5	ELLE
Instrument ID: 26285										

Client Sample ID: MW-13

Lab Sample ID: 400-195962-10

Date Collected: 11/13/20 10:42

Matrix: Water

Date Received: 11/17/20 09:36

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	70489	11/25/20 17:26	UCB5	ELLE
Instrument ID: 26285										

Client Sample ID: MW-14

Lab Sample ID: 400-195962-11

Date Collected: 11/13/20 10:50

Matrix: Water

Date Received: 11/17/20 09:36

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	70489	11/25/20 17:46	UCB5	ELLE
Instrument ID: 26285										

Client Sample ID: MW-15

Lab Sample ID: 400-195962-12

Date Collected: 11/13/20 10:58

Matrix: Water

Date Received: 11/17/20 09:36

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	70489	11/25/20 18:06	UCB5	ELLE
Instrument ID: 26285										

Eurofins TestAmerica, Pensacola

Lab Chronicle

Client: Stantec Consulting Services Inc
 Project/Site: EIPaso CGP Company-Johnston Fed #4

Job ID: 400-195962-1

Client Sample ID: MW-16

Lab Sample ID: 400-195962-13

Date Collected: 11/13/20 11:07

Matrix: Water

Date Received: 11/17/20 09:36

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	70489	11/25/20 18:26	UCB5	ELLE
Instrument ID: 26285										

Client Sample ID: MW-17

Lab Sample ID: 400-195962-14

Date Collected: 11/13/20 11:14

Matrix: Water

Date Received: 11/17/20 09:36

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	70489	11/25/20 18:46	UCB5	ELLE
Instrument ID: 26285										

Client Sample ID: MW-18

Lab Sample ID: 400-195962-15

Date Collected: 11/13/20 11:23

Matrix: Water

Date Received: 11/17/20 09:36

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	70489	11/25/20 19:06	UCB5	ELLE
Instrument ID: 26285										

Client Sample ID: MW-19

Lab Sample ID: 400-195962-16

Date Collected: 11/13/20 11:37

Matrix: Water

Date Received: 11/17/20 09:36

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	70489	11/25/20 19:27	UCB5	ELLE
Instrument ID: 26285										

Client Sample ID: MW-20

Lab Sample ID: 400-195962-17

Date Collected: 11/13/20 11:44

Matrix: Water

Date Received: 11/17/20 09:36

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	70489	11/25/20 20:07	UCB5	ELLE
Instrument ID: 26285										

Client Sample ID: MW-23

Lab Sample ID: 400-195962-18

Date Collected: 11/13/20 09:17

Matrix: Water

Date Received: 11/17/20 09:36

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	70489	11/25/20 19:47	UCB5	ELLE
Instrument ID: 26285										

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Eurofins TestAmerica, Pensacola

Accreditation/Certification Summary

Client: Stantec Consulting Services Inc
 Project/Site: EIPaso CGP Company-Johnston Fed #4

Job ID: 400-195962-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

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

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	1.01	11-30-20
Alaska	State	PA00009	06-30-21
Alaska (UST)	State	17-027	01-31-21
Arizona	State	AZ0780	03-12-21
Arkansas DEQ	State	19-053-0	08-09-21
California	State	2792	01-31-21
Colorado	State	PA00009	06-30-21
Connecticut	State	PH-0746	12-26-20
Delaware (DW)	State	N/A	01-31-21
Florida	NELAP	E87997	07-01-21
Hawaii	State	N/A	01-31-21
Illinois	NELAP	004559	01-31-21
Iowa	State	361	03-02-22
Kansas	NELAP	E-10151	10-31-21
Kentucky (DW)	State	KY90088	12-31-20
Kentucky (UST)	State	1.01	11-30-20
Kentucky (WW)	State	KY90088	12-31-20
Louisiana	NELAP	02055	06-30-21
Maine	State	2019012	03-12-21
Maryland	State	100	06-30-21
Massachusetts	State	M-PA009	06-30-21
Michigan	State	9930	01-31-21
Minnesota	NELAP	042-999-487	12-31-21
Missouri	State	450	01-31-22
Montana (DW)	State	0098	01-01-22
Nebraska	State	NE-OS-32-17	01-31-20 *
Nevada	State	PA000092019-3	07-31-21
New Hampshire	NELAP	273019	01-10-21
New Jersey	NELAP	PA011	06-30-21
New York	NELAP	10670	04-01-21
North Carolina (DW)	State	42705	07-31-21
North Carolina (WW/SW)	State	521	12-31-20
North Dakota	State	R-205	01-31-20 *
Oklahoma	NELAP	R-205	02-01-21
Oregon	NELAP	PA200001-018	09-12-21
PALA	Canada	1978	05-08-21
Pennsylvania	NELAP	36-00037	01-31-21
Rhode Island	State	LAO00338	12-30-20
South Carolina	State	89002002	01-31-21
Tennessee	State	02838	01-31-21
Texas	NELAP	T104704194-20-38	08-31-21
Utah	NELAP	PA000092019-16	02-28-21
Vermont	State	VT - 36037	10-29-21
Virginia	NELAP	10561	06-14-21
Washington	State	C457	04-11-21
West Virginia (DW)	State	9906 C	12-31-20
West Virginia DEP	State	055	12-31-20
Wyoming	State	8TMS-L	01-07-21
Wyoming (UST)	A2LA	1.01	11-30-20

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins TestAmerica, Pensacola

Method Summary

Client: Stantec Consulting Services Inc
Project/Site: EIPaso CGP Company-Johnston Fed #4

Job ID: 400-195962-1

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

Protocol References:

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

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

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Chain of Custody Record

Client Information
 Company: Stantec Consulting Services Inc
 Address: 11153 Aurora Avenue
 City: Des Moines
 State: IA, Zip: 50322-7904
 Phone: 303-291-2239(Tel)
 Email: steve.varsa@stantec.com
 Project Name: Johnston Fed #4.00
 Site: S. Fed 4

Sampler: SRC
Lab PM: Edwards, Marty P
Phone: 913 980 0281
E-Mail: Marty.Edwards@Eurofinset.com

Due Date Requested:
TAT Requested (days): STD
PO #:
See Project Notes
WO #:
Project #: 40005479
SSOW#:

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=Soil, G=Gravel, O=Other)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C (MOD) BTEX 8260	Total Number of Containers	Special Instructions/Note:
TB-01	11/13/2020	0730	G	Water	X	X		2	2 Trip Blank
DUP-01	11/13/2020	0947	G	Water				3	3 Blind Dup.
DUP-02	11/13/2020	1207	G	Water				3	3 Blind Dup.
MW-2	11/13/2020	0942	G	Water				3	
MW-4	11/13/2020	0955	G	Water				3	
MW-6	11/13/2020	1003	G	Water				3	
MW-9	11/13/2020	1018	G	Water				3	
MW-10	11/13/2020	1027	G	Water				3	
MW-12	11/13/2020	1035	G	Water				3	
MW-13	11/13/2020	1042	G	Water				3	
MW-14	11/13/2020	1050	G	Water				3	

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
 Other:

Special Instructions/Note:

Sample Disposal: Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements:

Empty Kit Relinquished by:
 Relinquished by: Ann R. Clay
 Relinquished by: _____
 Relinquished by: _____

Relinquished by:
 Date/Time: 11/16/2020 0700
 Company: STN

Received by:
 Date/Time: 11-17-20 0936
 Company: TAFEN

Method of Shipment: FedEx
Received by: Shelly
 Date/Time: _____
 Company: _____

Cooler Temperature(s) °C and Other Remarks: 1.10C IRB

Received by OCD: 4/26/2021 9:28:08 AM

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Ver: 01/16/2019

Chain of Custody Record

TestAmerica Des Moines SC
 214



Client Information Client Contact: Steve Varsa Company: Stantec Consulting Services Inc Address: 11153 Aurora Avenue City: Des Moines State, Zip: IA, 50322-7904 Phone: 303-291-2239 (Tel) Email: steve.varsa@stantec.com Project Name: Johnson Fed #4.00 Site: 5 Fed 4		Lab Pk: Edwards, Marty P E-Mail: Marty.Edwards@Eurofins.com Carrier Tracking No(s): Lab No: 400-9737-35221.1 Page: Page 2 of 2 Job #: SSC	
Due Date Requested: TAT Requested (days): STD PO #: See Project Notes W/O #: Project #: 40005479 SOW#:		Analysis Requested	
Sample Identification MW-15 MW-16 MW-17 MW-18 MW-19 MW-20 MW-23		Sample Date 11/13/2020 11/13/2020 11/13/2020 11/13/2020 11/13/2020 11/13/2020 11/13/2020	
Sample Time 1058 1107 1114 1125 1137 1144 0917		Sample Type (C=Comp, G=grab) G G G G G G G	
Matrix (W=Water, E=Soil, D=Drinking Water, ET=Tissue, G=Air) Water Water Water Water Water Water Water		Preservation Code: A 3 3 3 3 3 3	
Field Filtered Sample (Yes or No) A 3 3 3 3 3 3		Perform MS/MSD (Yes or No) A 3 3 3 3 3 3	
Total Number of Containers 3 3 3 3 3 3 3		Special Instructions/Note: SSC SSC SSC SSC SSC SSC	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)			
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Requisitioned by: Ann R Clay Date/Time: 11/16/2020 0700 Company: STW		Received by: Shelly Date/Time: 11-17-20 0936 Company: TAREN	
Requisitioned by: _____ Date/Time: _____ Company: _____		Received by: _____ Date/Time: _____ Company: _____	
Requisitioned by: _____ Date/Time: _____ Company: _____		Received by: _____ Date/Time: _____ Company: _____	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Cooler Temperature(s) °C and Other Remarks:			



Eurofins TestAmerica, Pensacola

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

Chain of Custody Record



Environment Testing
 America

Client Information (Sub Contract Lab)		Sampler:		Lab PM: Edwards, Marty P		Carrier Tracking No(s):		COC No: 400-256646.1			
Client Contact: Shipping/Receiving		Phone:		E-Mail: Marty.Edwards@Eurofinset.com		State of Origin: New Mexico		Page: Page 1 of 2			
Company: Eurofins Lancaster Laboratories Env LLC				Accreditations Required (See note):				Job #: 400-195962-1			
Address: 2425 New Holland Pike, Lancaster PA, 17601		Due Date Requested: 12/1/2020		Analysis Requested						Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify) Other:	
State, Zip: PA, 17601		TAT Requested (days):									
Phone: 717-656-2300(Tel)		PO #:		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		BTEX Volatiles (Total Xylenes)		Total Number of containers	
Email:		WO #:									
Project Name: EIPaso CGP Company-Johnston Fed #4		Project #: 40005479		BT=Tissue, Air							
Site:		SSOW#:									
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	BTEX Volatiles (Total Xylenes)	Total Number of containers	Special Instructions/Note:	
				Preservation Code:							
TB-01 (400-195962-1)		11/13/20	07:30 Mountain	Water	Water		X			2	
DUP-01 (400-195962-2)		11/13/20	09:47 Mountain	Water	Water		X			3	
DUP-02 (400-195962-3)		11/13/20	12:07 Mountain	Water	Water		X			3	
MW-2 (400-195962-4)		11/13/20	09:42 Mountain	Water	Water		X			3	
MW-4 (400-195962-5)		11/13/20	09:55 Mountain	Water	Water		X			3	
MW-6 (400-195962-6)		11/13/20	10:03 Mountain	Water	Water		X			3	
MW-9 (400-195962-7)		11/13/20	10:18 Mountain	Water	Water		X			3	
MW-10 (400-195962-8)		11/13/20	10:27 Mountain	Water	Water		X			3	
MW-12 (400-195962-9)		11/13/20	10:35 Mountain	Water	Water		X			3	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Unconfirmed		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Deliverable Requested: I, II, III, IV, Other (specify)		Primary Deliverable Rank: 2	
Empty Kit Relinquished by:		Special Instructions/QC Requirements:	
Date:		Time:	
Relinquished by: <i>Kathy Roney</i>		Date/Time: 11/24/20 1530	
Company: <i>ETA</i>		Received by:	
Relinquished by:		Date/Time:	
Company:		Received by:	
Relinquished by:		Date/Time:	
Company:		Received by: <i>JM</i>	
Relinquished by:		Date/Time: 11/25/20 11:59	
Company:		Received by: <i>ELLE</i>	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:	
		Cooler Temperature(s) °C and Other Remarks: 0.4	

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Eurofins TestAmerica, Pensacola

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

Chain of Custody Record



Environment Testing
 America

Client Information (Sub Contract Lab)		Sampler:		Lab PM: Edwards, Marty P		Carrier Tracking No(s):		COC No: 400-256646.2	
Client Contact: Shipping/Receiving		Phone:		E-Mail: Marty.Edwards@Eurofinset.com		State of Origin: New Mexico		Page: Page 2 of 2	
Company: Eurofins Lancaster Laboratories Env LLC				Accreditations Required (See note):				Job #: 400-195962-1	
Address: 2425 New Holland Pike, City: Lancaster State, Zip: PA, 17601		Due Date Requested: 12/1/2020		Analysis Requested				Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)	
Phone: 717-656-2300(Tel)		TAT Requested (days):							
Email:		PO #:		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Total Number of containers	
Project Name: EIPaso CGP Company-Johnston Fed #4		Project #: 40005479		8260C/5030C BTEX Volatiles (Total Xylenes)					
Site:		SSOW#:							
Sample Identification - Client ID (Lab ID)		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/5030C BTEX Volatiles (Total Xylenes)	Total Number of containers
				Preservation Code:					
MW-13 (400-195962-10)		11/13/20	10:42 Mountain		Water		X		3
MW-14 (400-195962-11)		11/13/20	10:50 Mountain		Water		X		3
MW-15 (400-195962-12)		11/13/20	10:58 Mountain		Water		X		3
MW-16 (400-195962-13)		11/13/20	11:07 Mountain		Water		X		3
MW-17 (400-195962-14)		11/13/20	11:14 Mountain		Water		X		3
MW-18 (400-195962-15)		11/13/20	11:23 Mountain		Water		X		3
MW-19 (400-195962-16)		11/13/20	11:37 Mountain		Water		X		3
MW-20 (400-195962-17)		11/13/20	11:44 Mountain		Water		X		3
MW-23 (400-195962-18)		11/13/20	09:17 Mountain		Water		X		3
<p>Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.</p>									
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
Unconfirmed					<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months				
Deliverable Requested: I, II, III, IV, Other (specify)			Primary Deliverable Rank: 2		Special Instructions/QC Requirements:				
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:			
Relinquished by: <i>Kathy Rawley</i>		Date/Time: 11-24-20 1530		Company: ETA		Received by:		Date/Time:	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Relinquished by:		Date/Time:		Company:		Received by: <i>[Signature]</i>		Date/Time: 11/25/20 11:59	
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:								Cooler Temperature(s) °C and Other Remarks: 0.4

nmh

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Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc

Job Number: 400-195962-1

Login Number: 195962

List Source: Eurofins TestAmerica, Pensacola

List Number: 1

Creator: Conrady, Hank W

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	1.1°C IR-8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc

Job Number: 400-195962-1

Login Number: 195962

List Source: Eurofins Lancaster Laboratories Env

List Number: 2

List Creation: 11/25/20 12:33 PM

Creator: Rivera, Tatiana

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	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	
There is sufficient vol. for all requested analyses.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	N/A	

APPENDIX F



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 400-187021-1
Client Project/Site: Johnston Fed #4.00

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

Attn: Steve Varsa

Authorized for release by:
5/5/2020 4:28:28 PM

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



LINKS

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

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

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

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Client: Stantec Consulting Services Inc
Project/Site: Johnston Fed #4.00

Laboratory Job ID: 400-187021-1

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Definitions/Glossary

Client: Stantec Consulting Services Inc
Project/Site: Johnston Fed #4.00

Job ID: 400-187021-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
X	Surrogate recovery exceeds control limits

GC Semi VOA

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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)
MQL	Method Quantitation Limit
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: Johnston Fed #4.00

Job ID: 400-187021-1

Job ID: 400-187021-1

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

Job Narrative 400-187021-1

Receipt

The samples were received on 4/21/2020 8:37 AM; the samples arrived in good condition, properly preserved, and where required, on ice. The temperature of the cooler at receipt time was 2.8°C

Department GC/MS VOA

Method 8260B: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW22 47-48 FT. (400-187021-2) and MW21 47-48 FT. (400-187021-3). Elevated reporting limits (RLs) are provide

Method 8260B: One of three internal standard responses were outside of acceptance limits for the following samples: (400-187243-A-1-C MS) and (400-187243-A-1-D MSD). The sample shows evidence of matrix interferenc

Method 8260B: Surrogate recovery for the following samples were outside control limits: (400-187243-A-1-C MS) and (400-187243-A-1-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performe

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

Department Gasoline Range Organics

Method 8015B: The following samples were diluted because the base dilution for methanol preserved samples is 1:50: MW23 21.5-22.5 FT. (400-187021-1), MW22 47-48 FT. (400-187021-2) and MW21 47-48 FT. (400-187021-3

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

Department Diesel Range Organics

Method 8015B: The matrix spike duplicate (MSD) recovery for preparation batch 400-487267 and analytical batch 400-487481 was outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limit

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

Department HPLC/IC

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

Department General Chemistry

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



Detection Summary

Client: Stantec Consulting Services Inc
 Project/Site: Johnston Fed #4.00

Job ID: 400-187021-1

Client Sample ID: MW23 21.5-22.5 FT.**Lab Sample ID: 400-187021-1**

No Detections.

Client Sample ID: MW22 47-48 FT.**Lab Sample ID: 400-187021-2**

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	0.36		0.33	mg/Kg	50	*	8260B	Total/NA
Toluene	0.42		0.33	mg/Kg	50	*	8260B	Total/NA
Xylenes, Total	3.7		0.66	mg/Kg	50	*	8260B	Total/NA
C6-C10	140		6.5	mg/Kg	50	*	8015B	Total/NA
C10-C28	44		5.9	mg/Kg	1	*	8015B	Total/NA

Client Sample ID: MW21 47-48 FT.**Lab Sample ID: 400-187021-3**

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	0.054		0.0059	mg/Kg	1	*	8260B	Total/NA
Toluene	0.034		0.0059	mg/Kg	1	*	8260B	Total/NA
Xylenes, Total - DL	0.68		0.60	mg/Kg	50	*	8260B	Total/NA
C6-C10	11		5.8	mg/Kg	50	*	8015B	Total/NA
C10-C28	22		5.7	mg/Kg	1	*	8015B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Pensacola

Sample Summary

Client: Stantec Consulting Services Inc
Project/Site: Johnston Fed #4.00

Job ID: 400-187021-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
400-187021-1	MW23 21.5-22.5 FT.	Solid	04/17/20 15:00	04/21/20 08:37	
400-187021-2	MW22 47-48 FT.	Solid	04/16/20 16:35	04/21/20 08:37	
400-187021-3	MW21 47-48 FT.	Solid	04/17/20 12:30	04/21/20 08:37	

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Client Sample Results

Client: Stantec Consulting Services Inc
 Project/Site: Johnston Fed #4.00

Job ID: 400-187021-1

Client Sample ID: MW23 21.5-22.5 FT.

Lab Sample ID: 400-187021-1

Date Collected: 04/17/20 15:00

Matrix: Solid

Date Received: 04/21/20 08:37

Percent Solids: 97.2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0045		0.0045	mg/Kg	☼	04/24/20 13:25	04/24/20 16:57	1
Ethylbenzene	<0.0045		0.0045	mg/Kg	☼	04/24/20 13:25	04/24/20 16:57	1
Toluene	<0.0045		0.0045	mg/Kg	☼	04/24/20 13:25	04/24/20 16:57	1
Xylenes, Total	<0.0090		0.0090	mg/Kg	☼	04/24/20 13:25	04/24/20 16:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	100		67 - 130	04/24/20 13:25	04/24/20 16:57	1
Dibromofluoromethane	95		77 - 127	04/24/20 13:25	04/24/20 16:57	1
Toluene-d8 (Surr)	100		76 - 127	04/24/20 13:25	04/24/20 16:57	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<4.8		4.8	mg/Kg	☼	04/23/20 16:02	04/23/20 20:06	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid)	102		65 - 125	04/23/20 16:02	04/23/20 20:06	50

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	<5.0		5.0	mg/Kg	☼	04/28/20 12:04	04/29/20 23:29	1
C28-C35	<5.0		5.0	mg/Kg	☼	04/28/20 12:04	04/29/20 23:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	97		27 - 151	04/28/20 12:04	04/29/20 23:29	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<21		21	mg/Kg	☼		04/30/20 02:44	1

Client Sample Results

Client: Stantec Consulting Services Inc
 Project/Site: Johnston Fed #4.00

Job ID: 400-187021-1

Client Sample ID: MW22 47-48 FT.

Lab Sample ID: 400-187021-2

Date Collected: 04/16/20 16:35

Matrix: Solid

Date Received: 04/21/20 08:37

Percent Solids: 84.3

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.33		0.33	mg/Kg	☼	04/24/20 13:25	04/24/20 23:57	50
Ethylbenzene	0.36		0.33	mg/Kg	☼	04/24/20 13:25	04/24/20 23:57	50
Toluene	0.42		0.33	mg/Kg	☼	04/24/20 13:25	04/24/20 23:57	50
Xylenes, Total	3.7		0.66	mg/Kg	☼	04/24/20 13:25	04/24/20 23:57	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	101		67 - 130	04/24/20 13:25	04/24/20 23:57	50
Dibromofluoromethane	94		77 - 127	04/24/20 13:25	04/24/20 23:57	50
Toluene-d8 (Surr)	106		76 - 127	04/24/20 13:25	04/24/20 23:57	50

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	140		6.5	mg/Kg	☼	04/23/20 16:05	04/23/20 20:33	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid)	95		65 - 125	04/23/20 16:05	04/23/20 20:33	50

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	44		5.9	mg/Kg	☼	04/28/20 12:04	04/29/20 23:41	1
C28-C35	<5.9		5.9	mg/Kg	☼	04/28/20 12:04	04/29/20 23:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	96		27 - 151	04/28/20 12:04	04/29/20 23:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<24		24	mg/Kg	☼		04/30/20 03:52	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Fed #4.00

Job ID: 400-187021-1

Client Sample ID: MW21 47-48 FT.

Lab Sample ID: 400-187021-3

Date Collected: 04/17/20 12:30

Matrix: Solid

Date Received: 04/21/20 08:37

Percent Solids: 88.3

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0059		0.0059	mg/Kg	☼	04/28/20 15:23	04/28/20 18:30	1
Ethylbenzene	0.054		0.0059	mg/Kg	☼	04/28/20 15:23	04/28/20 18:30	1
Toluene	0.034		0.0059	mg/Kg	☼	04/28/20 15:23	04/28/20 18:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	95		67 - 130			04/28/20 15:23	04/28/20 18:30	1
Dibromofluoromethane	91		77 - 127			04/28/20 15:23	04/28/20 18:30	1
Toluene-d8 (Surr)	126		76 - 127			04/28/20 15:23	04/28/20 18:30	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	0.68		0.60	mg/Kg	☼	04/29/20 09:40	04/29/20 13:01	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	94		67 - 130			04/29/20 09:40	04/29/20 13:01	50
Dibromofluoromethane	103		77 - 127			04/29/20 09:40	04/29/20 13:01	50
Toluene-d8 (Surr)	87		76 - 127			04/29/20 09:40	04/29/20 13:01	50

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	11		5.8	mg/Kg	☼	04/23/20 16:06	04/23/20 20:59	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid)	101		65 - 125			04/23/20 16:06	04/23/20 20:59	50

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	22		5.7	mg/Kg	☼	04/28/20 12:04	04/29/20 23:52	1
C28-C35	<5.7		5.7	mg/Kg	☼	04/28/20 12:04	04/29/20 23:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
o-Terphenyl	113		27 - 151			04/28/20 12:04	04/29/20 23:52	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<22		22	mg/Kg	☼		04/30/20 04:15	1

Eurofins TestAmerica, Pensacola

QC Association Summary

Client: Stantec Consulting Services Inc
 Project/Site: Johnston Fed #4.00

Job ID: 400-187021-1

GC/MS VOA

Analysis Batch: 486931

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187021-1	MW23 21.5-22.5 FT.	Total/NA	Solid	8260B	486974
400-187021-2	MW22 47-48 FT.	Total/NA	Solid	8260B	486974
MB 400-486974/2-A	Method Blank	Total/NA	Solid	8260B	486974
LCS 400-486974/1-A	Lab Control Sample	Total/NA	Solid	8260B	486974
400-187021-1 MS	MW23 21.5-22.5 FT.	Total/NA	Solid	8260B	486974
400-187021-1 MSD	MW23 21.5-22.5 FT.	Total/NA	Solid	8260B	486974

Prep Batch: 486974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187021-1	MW23 21.5-22.5 FT.	Total/NA	Solid	5035	
400-187021-2	MW22 47-48 FT.	Total/NA	Solid	5035	
MB 400-486974/2-A	Method Blank	Total/NA	Solid	5035	
LCS 400-486974/1-A	Lab Control Sample	Total/NA	Solid	5035	
400-187021-1 MS	MW23 21.5-22.5 FT.	Total/NA	Solid	5035	
400-187021-1 MSD	MW23 21.5-22.5 FT.	Total/NA	Solid	5035	

Analysis Batch: 487321

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187021-3	MW21 47-48 FT.	Total/NA	Solid	8260B	487330
MB 400-487330/1-A	Method Blank	Total/NA	Solid	8260B	487330
LCS 400-487330/2-A	Lab Control Sample	Total/NA	Solid	8260B	487330
400-187243-A-1-C MS	Matrix Spike	Total/NA	Solid	8260B	487330
400-187243-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	487330

Prep Batch: 487330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187021-3	MW21 47-48 FT.	Total/NA	Solid	5035	
MB 400-487330/1-A	Method Blank	Total/NA	Solid	5035	
LCS 400-487330/2-A	Lab Control Sample	Total/NA	Solid	5035	
400-187243-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
400-187243-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 487353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187021-3 - DL	MW21 47-48 FT.	Total/NA	Solid	8260B	487419
MB 400-487419/1-A	Method Blank	Total/NA	Solid	8260B	487419
LCS 400-487419/2-A	Lab Control Sample	Total/NA	Solid	8260B	487419
400-186946-A-2-B MS	Matrix Spike	Total/NA	Solid	8260B	487419
400-186946-A-2-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	487419

Prep Batch: 487419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187021-3 - DL	MW21 47-48 FT.	Total/NA	Solid	5035	
MB 400-487419/1-A	Method Blank	Total/NA	Solid	5035	
LCS 400-487419/2-A	Lab Control Sample	Total/NA	Solid	5035	
400-186946-A-2-B MS	Matrix Spike	Total/NA	Solid	5035	
400-186946-A-2-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Eurofins TestAmerica, Pensacola

QC Association Summary

Client: Stantec Consulting Services Inc
Project/Site: Johnston Fed #4.00

Job ID: 400-187021-1

GC VOA

Prep Batch: 486783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187021-1	MW23 21.5-22.5 FT.	Total/NA	Solid	5035	
400-187021-2	MW22 47-48 FT.	Total/NA	Solid	5035	
400-187021-3	MW21 47-48 FT.	Total/NA	Solid	5035	
MB 400-486783/2-A	Method Blank	Total/NA	Solid	5035	
LCS 400-486783/1-A	Lab Control Sample	Total/NA	Solid	5035	
400-187047-B-5-D MS	Matrix Spike	Total/NA	Solid	5035	
400-187047-B-5-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 486787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187021-1	MW23 21.5-22.5 FT.	Total/NA	Solid	8015B	486783
400-187021-2	MW22 47-48 FT.	Total/NA	Solid	8015B	486783
400-187021-3	MW21 47-48 FT.	Total/NA	Solid	8015B	486783
MB 400-486783/2-A	Method Blank	Total/NA	Solid	8015B	486783
LCS 400-486783/1-A	Lab Control Sample	Total/NA	Solid	8015B	486783
400-187047-B-5-D MS	Matrix Spike	Total/NA	Solid	8015B	486783
400-187047-B-5-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	486783

GC Semi VOA

Prep Batch: 487267

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187021-1	MW23 21.5-22.5 FT.	Total/NA	Solid	3546	
400-187021-2	MW22 47-48 FT.	Total/NA	Solid	3546	
400-187021-3	MW21 47-48 FT.	Total/NA	Solid	3546	
MB 400-487267/1-A	Method Blank	Total/NA	Solid	3546	
LCS 400-487267/2-A	Lab Control Sample	Total/NA	Solid	3546	
400-187040-C-6-A MS	Matrix Spike	Total/NA	Solid	3546	
400-187040-C-6-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 487481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187021-1	MW23 21.5-22.5 FT.	Total/NA	Solid	8015B	487267
400-187021-2	MW22 47-48 FT.	Total/NA	Solid	8015B	487267
400-187021-3	MW21 47-48 FT.	Total/NA	Solid	8015B	487267
MB 400-487267/1-A	Method Blank	Total/NA	Solid	8015B	487267
LCS 400-487267/2-A	Lab Control Sample	Total/NA	Solid	8015B	487267
400-187040-C-6-A MS	Matrix Spike	Total/NA	Solid	8015B	487267
400-187040-C-6-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	487267

HPLC/IC

Leach Batch: 487424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187021-1	MW23 21.5-22.5 FT.	Soluble	Solid	DI Leach	
400-187021-2	MW22 47-48 FT.	Soluble	Solid	DI Leach	
400-187021-3	MW21 47-48 FT.	Soluble	Solid	DI Leach	
MB 400-487424/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 400-487424/17-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 400-487424/18-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
400-187021-1 MS	MW23 21.5-22.5 FT.	Soluble	Solid	DI Leach	
400-187021-1 MSD	MW23 21.5-22.5 FT.	Soluble	Solid	DI Leach	

Eurofins TestAmerica, Pensacola

QC Association Summary

Client: Stantec Consulting Services Inc
 Project/Site: Johnston Fed #4.00

Job ID: 400-187021-1

HPLC/IC

Analysis Batch: 487459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187021-1	MW23 21.5-22.5 FT.	Soluble	Solid	300.0	487424
400-187021-2	MW22 47-48 FT.	Soluble	Solid	300.0	487424
400-187021-3	MW21 47-48 FT.	Soluble	Solid	300.0	487424
MB 400-487424/1-A	Method Blank	Soluble	Solid	300.0	487424
400-187021-1 MS	MW23 21.5-22.5 FT.	Soluble	Solid	300.0	487424
400-187021-1 MSD	MW23 21.5-22.5 FT.	Soluble	Solid	300.0	487424

Analysis Batch: 487551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 400-487424/17-A	Lab Control Sample	Soluble	Solid	300.0	487424
LCSD 400-487424/18-A	Lab Control Sample Dup	Soluble	Solid	300.0	487424

General Chemistry

Analysis Batch: 486780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187021-1	MW23 21.5-22.5 FT.	Total/NA	Solid	Moisture	
400-187021-2	MW22 47-48 FT.	Total/NA	Solid	Moisture	
400-187021-3	MW21 47-48 FT.	Total/NA	Solid	Moisture	
400-187021-3 DU	MW21 47-48 FT.	Total/NA	Solid	Moisture	

QC Sample Results

Client: Stantec Consulting Services Inc
 Project/Site: Johnston Fed #4.00

Job ID: 400-187021-1

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

Lab Sample ID: MB 400-486974/2-A
 Matrix: Solid
 Analysis Batch: 486931

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 486974

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0050		0.0050	mg/Kg		04/24/20 13:25	04/24/20 15:18	1
Ethylbenzene	<0.0050		0.0050	mg/Kg		04/24/20 13:25	04/24/20 15:18	1
Toluene	<0.0050		0.0050	mg/Kg		04/24/20 13:25	04/24/20 15:18	1
Xylenes, Total	<0.010		0.010	mg/Kg		04/24/20 13:25	04/24/20 15:18	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	100		67 - 130	04/24/20 13:25	04/24/20 15:18	1
Dibromofluoromethane	94		77 - 127	04/24/20 13:25	04/24/20 15:18	1
Toluene-d8 (Surr)	99		76 - 127	04/24/20 13:25	04/24/20 15:18	1

Lab Sample ID: LCS 400-486974/1-A
 Matrix: Solid
 Analysis Batch: 486931

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 486974

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.0511		mg/Kg		102	65 - 130
Ethylbenzene	0.0500	0.0491		mg/Kg		98	70 - 130
Toluene	0.0500	0.0460		mg/Kg		92	70 - 130
Xylenes, Total	0.100	0.0969		mg/Kg		97	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	100		67 - 130
Dibromofluoromethane	96		77 - 127
Toluene-d8 (Surr)	101		76 - 127

Lab Sample ID: 400-187021-1 MS
 Matrix: Solid
 Analysis Batch: 486931

Client Sample ID: MW23 21.5-22.5 FT.
 Prep Type: Total/NA
 Prep Batch: 486974

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.0045		0.0459	0.0392		mg/Kg	☼	85	38 - 131
Ethylbenzene	<0.0045		0.0459	0.0308		mg/Kg	☼	67	35 - 130
Toluene	<0.0045		0.0459	0.0329		mg/Kg	☼	72	42 - 130
Xylenes, Total	<0.0090		0.0917	0.0601		mg/Kg	☼	66	35 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene	97		67 - 130
Dibromofluoromethane	97		77 - 127
Toluene-d8 (Surr)	98		76 - 127

Lab Sample ID: 400-187021-1 MSD
 Matrix: Solid
 Analysis Batch: 486931

Client Sample ID: MW23 21.5-22.5 FT.
 Prep Type: Total/NA
 Prep Batch: 486974

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	<0.0045		0.0454	0.0375		mg/Kg	☼	82	38 - 131	4	36
Ethylbenzene	<0.0045		0.0454	0.0263		mg/Kg	☼	58	35 - 130	16	46
Toluene	<0.0045		0.0454	0.0295		mg/Kg	☼	65	42 - 130	11	37

Eurofins TestAmerica, Pensacola

QC Sample Results

Client: Stantec Consulting Services Inc
 Project/Site: Johnston Fed #4.00

Job ID: 400-187021-1

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

Lab Sample ID: 400-187021-1 MSD

Client Sample ID: MW23 21.5-22.5 FT.

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 486931

Prep Batch: 486974

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Xylenes, Total	<0.0090		0.0909	0.0525		mg/Kg	*	58	35 - 130	14	39
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene	100		67 - 130								
Dibromofluoromethane	98		77 - 127								
Toluene-d8 (Surr)	99		76 - 127								

Lab Sample ID: MB 400-487330/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 487321

Prep Batch: 487330

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0050		0.0050	mg/Kg		04/28/20 15:23	04/28/20 16:48	1
Ethylbenzene	<0.0050		0.0050	mg/Kg		04/28/20 15:23	04/28/20 16:48	1
Toluene	<0.0050		0.0050	mg/Kg		04/28/20 15:23	04/28/20 16:48	1
Xylenes, Total	<0.010		0.010	mg/Kg		04/28/20 15:23	04/28/20 16:48	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	98		67 - 130			04/28/20 15:23	04/28/20 16:48	1
Dibromofluoromethane	92		77 - 127			04/28/20 15:23	04/28/20 16:48	1
Toluene-d8 (Surr)	102		76 - 127			04/28/20 15:23	04/28/20 16:48	1

Lab Sample ID: LCS 400-487330/2-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 487321

Prep Batch: 487330

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.0534		mg/Kg		107	65 - 130
Ethylbenzene	0.0500	0.0551		mg/Kg		110	70 - 130
Toluene	0.0500	0.0526		mg/Kg		105	70 - 130
Xylenes, Total	0.100	0.109		mg/Kg		109	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene	95		67 - 130				
Dibromofluoromethane	97		77 - 127				
Toluene-d8 (Surr)	100		76 - 127				

Lab Sample ID: 400-187243-A-1-C MS

Client Sample ID: Matrix Spike

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 487321

Prep Batch: 487330

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.0056		0.0539	0.0346		mg/Kg	*	64	38 - 131
Ethylbenzene	<0.0056		0.0539	0.0267		mg/Kg	*	49	35 - 130
Toluene	<0.0056		0.0539	0.0333		mg/Kg	*	59	42 - 130
Xylenes, Total	<0.011		0.108	0.0571		mg/Kg	*	53	35 - 130

Eurofins TestAmerica, Pensacola

QC Sample Results

Client: Stantec Consulting Services Inc
 Project/Site: Johnston Fed #4.00

Job ID: 400-187021-1

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

Lab Sample ID: 400-187243-A-1-C MS
Matrix: Solid
Analysis Batch: 487321

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 487330

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene	139	X *3	67 - 130
Dibromofluoromethane	100		77 - 127
Toluene-d8 (Surr)	116		76 - 127

Lab Sample ID: 400-187243-A-1-D MSD
Matrix: Solid
Analysis Batch: 487321

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 487330

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.0056		0.0538	0.0347		mg/Kg	*	65	38 - 131	0	36
Ethylbenzene	<0.0056		0.0538	0.0248		mg/Kg	*	46	35 - 130	7	46
Toluene	<0.0056		0.0538	0.0315		mg/Kg	*	56	42 - 130	6	37
Xylenes, Total	<0.011		0.108	0.0539		mg/Kg	*	50	35 - 130	6	39

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene	135	X *3	67 - 130
Dibromofluoromethane	98		77 - 127
Toluene-d8 (Surr)	114		76 - 127

Lab Sample ID: MB 400-487419/1-A
Matrix: Solid
Analysis Batch: 487353

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 487419

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<0.010		0.010	mg/Kg		04/29/20 09:40	04/29/20 11:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	99		67 - 130	04/29/20 09:40	04/29/20 11:47	1
Dibromofluoromethane	99		77 - 127	04/29/20 09:40	04/29/20 11:47	1
Toluene-d8 (Surr)	90		76 - 127	04/29/20 09:40	04/29/20 11:47	1

Lab Sample ID: LCS 400-487419/2-A
Matrix: Solid
Analysis Batch: 487353

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 487419

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Xylenes, Total	0.100	0.0919		mg/Kg		92	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	97		67 - 130
Dibromofluoromethane	88		77 - 127
Toluene-d8 (Surr)	91		76 - 127

QC Sample Results

Client: Stantec Consulting Services Inc
 Project/Site: Johnston Fed #4.00

Job ID: 400-187021-1

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

Lab Sample ID: 400-186946-A-2-B MS
 Matrix: Solid
 Analysis Batch: 487353

Client Sample ID: Matrix Spike
 Prep Type: Total/NA
 Prep Batch: 487419

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Xylenes, Total	<0.014		0.129	0.123		mg/Kg	☼	96	35 - 130
Surrogate	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene	99		67 - 130						
Dibromofluoromethane	104		77 - 127						
Toluene-d8 (Surr)	90		76 - 127						

Lab Sample ID: 400-186946-A-2-C MSD
 Matrix: Solid
 Analysis Batch: 487353

Client Sample ID: Matrix Spike Duplicate
 Prep Type: Total/NA
 Prep Batch: 487419

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Xylenes, Total	<0.014		0.127	0.103		mg/Kg	☼	81	35 - 130	18	39
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene	98		67 - 130								
Dibromofluoromethane	105		77 - 127								
Toluene-d8 (Surr)	90		76 - 127								

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

Lab Sample ID: MB 400-486783/2-A
 Matrix: Solid
 Analysis Batch: 486787

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 486783

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<0.10		0.10	mg/Kg		04/23/20 09:42	04/23/20 11:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid)	103		65 - 125			04/23/20 09:42	04/23/20 11:10	1

Lab Sample ID: LCS 400-486783/1-A
 Matrix: Solid
 Analysis Batch: 486787

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 486783

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C6-C10	1.00	1.10		mg/Kg		110	62 - 141
Surrogate	%Recovery	Qualifier	Limits				
a,a,a-Trifluorotoluene (fid)	105		65 - 125				

Lab Sample ID: 400-187047-B-5-D MS
 Matrix: Solid
 Analysis Batch: 486787

Client Sample ID: Matrix Spike
 Prep Type: Total/NA
 Prep Batch: 486783

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
C6-C10	<6.1		61.3	65.1		mg/Kg	☼	99	10 - 150

Eurofins TestAmerica, Pensacola

QC Sample Results

Client: Stantec Consulting Services Inc
 Project/Site: Johnston Fed #4.00

Job ID: 400-187021-1

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

Lab Sample ID: 400-187047-B-5-D MS
 Matrix: Solid
 Analysis Batch: 486787

Client Sample ID: Matrix Spike
 Prep Type: Total/NA
 Prep Batch: 486783

Surrogate	MS %Recovery	MS Qualifier	Limits
a,a,a-Trifluorotoluene (fid)	100		65 - 125

Lab Sample ID: 400-187047-B-5-E MSD
 Matrix: Solid
 Analysis Batch: 486787

Client Sample ID: Matrix Spike Duplicate
 Prep Type: Total/NA
 Prep Batch: 486783

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
C6-C10	<6.1		61.3	64.8		mg/Kg	☼	98	10 - 150	0	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 400-487267/1-A
 Matrix: Solid
 Analysis Batch: 487481

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 487267

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	<5.0		5.0	mg/Kg		04/28/20 12:04	04/29/20 20:58	1
C28-C35	<5.0		5.0	mg/Kg		04/28/20 12:04	04/29/20 20:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	146		27 - 151	04/28/20 12:04	04/29/20 20:58	1

Lab Sample ID: LCS 400-487267/2-A
 Matrix: Solid
 Analysis Batch: 487481

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 487267

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C10-C28	278	220		mg/Kg		79	38 - 138

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	128		27 - 151

Lab Sample ID: 400-187040-C-6-A MS
 Matrix: Solid
 Analysis Batch: 487481

Client Sample ID: Matrix Spike
 Prep Type: Total/NA
 Prep Batch: 487267

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
C10-C28	<6.6	F1	368	275		mg/Kg	☼	75	62 - 204

Surrogate	MS %Recovery	MS Qualifier	Limits
o-Terphenyl	124		27 - 151

Eurofins TestAmerica, Pensacola

QC Sample Results

Client: Stantec Consulting Services Inc
 Project/Site: Johnston Fed #4.00

Job ID: 400-187021-1

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

Lab Sample ID: 400-187040-C-6-B MSD
 Matrix: Solid
 Analysis Batch: 487481

Client Sample ID: Matrix Spike Duplicate
 Prep Type: Total/NA
 Prep Batch: 487267

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C10-C28	<6.6	F1	371	226	F1	mg/Kg	☼	61	62 - 204	20	30
Surrogate	%Recovery	MSD Qualifier	MSD Limits								
<i>o</i> -Terphenyl	106		27 - 151								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 400-487424/1-A
 Matrix: Solid
 Analysis Batch: 487459

Client Sample ID: Method Blank
 Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<20		20	mg/Kg			04/30/20 01:35	1

Lab Sample ID: 400-187021-1 MS
 Matrix: Solid
 Analysis Batch: 487459

Client Sample ID: MW23 21.5-22.5 FT.
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	<21		103	105		mg/Kg	☼	102	80 - 120

Lab Sample ID: 400-187021-1 MSD
 Matrix: Solid
 Analysis Batch: 487459

Client Sample ID: MW23 21.5-22.5 FT.
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	<21		103	107		mg/Kg	☼	104	80 - 120	1	15

Lab Sample ID: LCS 400-487424/17-A
 Matrix: Solid
 Analysis Batch: 487551

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	100	97.0		mg/Kg		97	80 - 120

Lab Sample ID: LCSD 400-487424/18-A
 Matrix: Solid
 Analysis Batch: 487551

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	99.6	100		mg/Kg		101	80 - 120	3	15

Eurofins TestAmerica, Pensacola

Lab Chronicle

Client: Stantec Consulting Services Inc
 Project/Site: Johnston Fed #4.00

Job ID: 400-187021-1

Client Sample ID: MW23 21.5-22.5 FT.

Lab Sample ID: 400-187021-1

Date Collected: 04/17/20 15:00

Matrix: Solid

Date Received: 04/21/20 08:37

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			486780	04/23/20 13:01	KRA	TAL PEN
Instrument ID: NOEQUIP										

Client Sample ID: MW23 21.5-22.5 FT.

Lab Sample ID: 400-187021-1

Date Collected: 04/17/20 15:00

Matrix: Solid

Date Received: 04/21/20 08:37

Percent Solids: 97.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.71 g	5.00 g	486974	04/24/20 13:25	AMB	TAL PEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	486931	04/24/20 16:57	AMB	TAL PEN
Instrument ID: Brutus										
Total/NA	Prep	5035			5.58 g	5.00 g	486783	04/23/20 16:02	CMW	TAL PEN
Total/NA	Analysis	8015B		50	5 mL	5 mL	486787	04/23/20 20:06	CMW	TAL PEN
Instrument ID: CH_RITA										
Total/NA	Prep	3546			15.48 g	1 mL	487267	04/28/20 12:04	KLR	TAL PEN
Total/NA	Analysis	8015B		1			487481	04/29/20 23:29	JAW	TAL PEN
Instrument ID: Eva										
Soluble	Leach	DI Leach			2.50 g	50 mL	487424	04/29/20 13:32	CAC	TAL PEN
Soluble	Analysis	300.0		1			487459	04/30/20 02:44	CAC	TAL PEN
Instrument ID: IC2										

Client Sample ID: MW22 47-48 FT.

Lab Sample ID: 400-187021-2

Date Collected: 04/16/20 16:35

Matrix: Solid

Date Received: 04/21/20 08:37

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			486780	04/23/20 13:01	KRA	TAL PEN
Instrument ID: NOEQUIP										

Client Sample ID: MW22 47-48 FT.

Lab Sample ID: 400-187021-2

Date Collected: 04/16/20 16:35

Matrix: Solid

Date Received: 04/21/20 08:37

Percent Solids: 84.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.24 g	5.00 g	486974	04/24/20 13:25	AMB	TAL PEN
Total/NA	Analysis	8260B		50	5 mL	5 mL	486931	04/24/20 23:57	AMB	TAL PEN
Instrument ID: Brutus										
Total/NA	Prep	5035			5.34 g	5.00 g	486783	04/23/20 16:05	CMW	TAL PEN
Total/NA	Analysis	8015B		50	5 mL	5 mL	486787	04/23/20 20:33	CMW	TAL PEN
Instrument ID: CH_RITA										
Total/NA	Prep	3546			15.13 g	1 mL	487267	04/28/20 12:04	KLR	TAL PEN
Total/NA	Analysis	8015B		1			487481	04/29/20 23:41	JAW	TAL PEN
Instrument ID: Eva										
Soluble	Leach	DI Leach			2.50 g	50 mL	487424	04/29/20 13:32	CAC	TAL PEN
Soluble	Analysis	300.0		1			487459	04/30/20 03:52	CAC	TAL PEN
Instrument ID: IC2										

Eurofins TestAmerica, Pensacola

Lab Chronicle

Client: Stantec Consulting Services Inc
 Project/Site: Johnston Fed #4.00

Job ID: 400-187021-1

Client Sample ID: MW21 47-48 FT.

Lab Sample ID: 400-187021-3

Date Collected: 04/17/20 12:30

Matrix: Solid

Date Received: 04/21/20 08:37

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			486780	04/23/20 13:39	KRA	TAL PEN
Instrument ID: NOEQUIP										

Client Sample ID: MW21 47-48 FT.

Lab Sample ID: 400-187021-3

Date Collected: 04/17/20 12:30

Matrix: Solid

Date Received: 04/21/20 08:37

Percent Solids: 88.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035	DL		5.30 g	5.00 g	487419	04/29/20 09:40	RS	TAL PEN
Total/NA	Analysis	8260B	DL	50	5 mL	5 mL	487353	04/29/20 13:01	RS	TAL PEN
Instrument ID: Brutus										
Total/NA	Prep	5035			4.78 g	5.00 g	487330	04/28/20 15:23	RS	TAL PEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	487321	04/28/20 18:30	RS	TAL PEN
Instrument ID: CH_LARS										
Total/NA	Prep	5035			5.50 g	5.00 g	486783	04/23/20 16:06	CMW	TAL PEN
Total/NA	Analysis	8015B		50	5 mL	5 mL	486787	04/23/20 20:59	CMW	TAL PEN
Instrument ID: CH_RITA										
Total/NA	Prep	3546			15.01 g	1 mL	487267	04/28/20 12:04	KLR	TAL PEN
Total/NA	Analysis	8015B		1			487481	04/29/20 23:52	JAW	TAL PEN
Instrument ID: Eva										
Soluble	Leach	DI Leach			2.53 g	50 mL	487424	04/29/20 13:32	CAC	TAL PEN
Soluble	Analysis	300.0		1			487459	04/30/20 04:15	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
 Project/Site: Johnston Fed #4.00

Job ID: 400-187021-1

Laboratory: Eurofins TestAmerica, Pensacola

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

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	07-01-20
ANAB	ISO/IEC 17025	L2471	02-23-23
Arizona	State	AZ0710	01-13-21
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
Illinois	NELAP	004586	10-09-20
Iowa	State	367	08-01-20
Kansas	NELAP	E-10253	08-16-20
Kentucky (UST)	State	53	06-30-20
Kentucky (WW)	State	KY98030	12-31-20
Louisiana	NELAP	30976	06-30-20
Louisiana (DW)	State	LA017	12-31-20
Maryland	State	233	09-30-20
Massachusetts	State	M-FL094	06-30-20
Michigan	State	9912	05-06-20
Minnesota	NELAP	012-999-481	12-31-20
New Jersey	NELAP	FL006	06-30-20
New York	NELAP	12115	04-01-21
North Carolina (WW/SW)	State	314	12-31-20
Oklahoma	State	9810-186	08-31-20
Pennsylvania	NELAP	68-00467	01-31-21
Rhode Island	State	LAO00307	12-30-20
South Carolina	State	96026002	06-30-20
Tennessee	State	TN02907	06-30-20
Texas	NELAP	T104704286	09-30-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
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

Eurofins TestAmerica, Pensacola

Method Summary

Client: Stantec Consulting Services Inc
 Project/Site: Johnston Fed #4.00

Job ID: 400-187021-1

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

Chain of Custody Record

Client Information Client Contact: <u>Scott Hansen</u> Company: <u>Stantec Consulting Services Inc</u> Address: <u>11153 Aurora Avenue</u> City: <u>Des Moines</u> State, Zip: <u>IA, 50322-7904</u> Phone: <u>303-291-2239(Tel)</u> Email: <u>scott.hansen@stantec.com</u> Project Name: <u>Johnston Fed #4.00 soil</u> Site:		Lab PM: <u>Edwards, Marty P</u> E-Mail: <u>marty.edwards@testamericainc.com</u> Sample: <u>Rob Malcomson</u> Phone: <u>515 710 9815</u> Carrier Tracking No(s):		COC No: <u>400-93790-34027.1</u> Page: <u>Page 1 of 1</u> Job #:	
Due Date Requested: TAT Requested (days): PO #: <u>See Project Notes</u> WO #:		Analysis Requested 400-187021 COC 		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 X - EDTA L - EDTA Z - other (specify) Other:	
Sample Identification <u>MW23 21.5-22.5 ft.</u> <u>MW22 47-48 ft.</u> <u>MW21 47-48 ft.</u>		Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> X Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> X 8015B_DRO - DRO, ORO <input checked="" type="checkbox"/> X 300_ORGFM_28D - Chloride <input checked="" type="checkbox"/> X 8015B_GRO, 8260B <input checked="" type="checkbox"/> X		Total Number of containers: <u>X</u> Special Instructions/Note:	
Sample Date <u>4/17/20</u> <u>4/16/20</u> <u>4/17/20</u>		Sample Time <u>1500 G</u> <u>1635 G</u> <u>1230 G</u>		Matrix (W=water, S=solid, O=soil, A=air) Solid Solid Solid	
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)					
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Empty Kit Relinquished by: Relinquished by: <u>Rob Malcomson</u> Date: <u>4/24/2020</u> Relinquished by: _____ Date/Time: _____ Relinquished by: _____ Date/Time: _____ Custody Seal No.: <u>2.8°C AR 8</u>					
Special Instructions/QC Requirements: Method of Shipment: _____ Received by: <u>FedEx</u> Date/Time: <u>4/20/2020</u> Received by: _____ Date/Time: <u>4/21/20 837</u> Received by: _____ Date/Time: _____ Cooler Temperature(s) °C and Other Remarks: _____					

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc

Job Number: 400-187021-1

Login Number: 187021

List Source: Eurofins TestAmerica, Pensacola

List Number: 1

Creator: Perez, Trina M

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.8°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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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- 14

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 25474

CONDITIONS

Operator: El Paso Natural Gas Company, L.L.C 1001 Louisiana Street Houston, TX 77002	OGRID: 7046
	Action Number: 25474
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
nvez	Review of the 2020 ANNUAL GROUNDWATER REPORT: Content satisfactory 1. Complete groundwater monitoring events on a semi-annual basis 2. OCD approves the planned air sparge and soil vapor extraction piping to be used as part of an AS/SVE system in 2021. 3. Submit the work plan detailing the aforementioned activities 4. Complete a survey of the final well locations and system layout 5. Until the remediation system is operating, manual recovery of free product is to be continued on a quarterly basis from monitoring wells where measurable free product is present	12/29/2021