Stantec

2020 ANNUAL GROUNDWATER MONITORING REPORT

San Juan River Gas Plant

NMOCD Order No. AP-69
Incident Number: NAUTOFRM000157
Facility # fRM00000000007

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Abbreviations

Bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene, and total xylenes
DTP	depth to product
DTW	depth to water
EPA	U.S. Environmental Protection Agency
EPNG	El Paso Natural Gas Company, LLC
ICE	internal combustion engine
LNAPL	light non-aqueous phase liquid
mg/L	milligrams per liter
MDPE	mobile dual-phase extraction
MW	monitoring well
NMOCD	New Mexico Oil Conservation Division
NMWQCC	New Mexico Water Quality Control Commission
O&M	operations and maintenance
ORC	oxygen-releasing compound
PMW	Praxair monitoring well
SCFM	standard cubic feet per minute
SJRP	San Juan River (Gas) Plant
SVE	soil vapor extraction
TDS	total dissolved solids
TPH	total petroleum hydrocarbons
VOC	volatile organic compound

1.0 INTRODUCTION

This Annual Groundwater Monitoring Report (Report) has been prepared on behalf of El Paso Natural Gas Company, LLC (EPNG) to present results of the 2020 groundwater monitoring activities at the San Juan River Gas Plant (SJRP, the site). The Report also documents quarterly free product recovery activities, initiated in August 2020.

The site is currently regulated by the New Mexico Oil Conservation Division (NMOCD) and is located at 99 Road 6500, Kirtland, San Juan County, New Mexico. Annual groundwater sampling is typically conducted in the Autumn. The site location is shown in Figure 1, and the site plan is shown in Figure 2. The 2020 site activities were performed by Stantec Consulting Services, Inc. (Stantec), on behalf of EPNG.

2.0 SITE BACKGROUND

2.1 SITE DESCRIPTION

The SJRP facility is located near Kirtland, New Mexico and was operated as a natural gas processing and distribution facility. The SJRP received natural gas from production wells located in the San Juan Basin of New Mexico and southern Utah. EPNG owned the SJRP until June 1992, when it was sold to Western Gas Resources, Inc., a subsidiary of Anadarko Petroleum Corporation. In May 2014, Western Gas Resources sold the facility to CCI San Juan, LLC, a subsidiary of Castleton Commodities International, LLC (CCI). CCI San Juan, LLC ceased operations at the SJRP in the Spring of 2020. EPNG retained responsibility for environmental impacts known to exist prior to its 1992 sale of the facility. The NMOCD manages EPNG's historical releases at the SJRP under Order AP-69.

The SJRP is a 630-acre facility that contains gas processing facilities, a sulfur recovery plant, water and hydrocarbon tanks, a pigging station, flare, and several 16- to 24-inch diameter natural gas pipelines that cross the facility. The facility also contained two raw water ponds and three wastewater evaporation ponds, which are now closed. Closure of the evaporation ponds, flare pits, and other potential contaminant source areas were completed from 1992 through 1995.

During 2002 and 2003, a Praxair nitrogen recovery plant was built on the northern portion of the SJRP, approximately 300 yards south of monitoring wells MW-8 and MW-9. The nitrogen plant includes a 3.7 million gallon, double synthetically-lined evaporation pond (Praxair Pond) with a leak detection system that is used to evaporate cooling tower blowdown, compressor foundation storm water, and air compressor condensate. The storm water and condensate flow through an oil/water separator prior to discharging to the Praxair Pond. Due to issues with the integrity of the Praxair Pond leak detection system, Praxair ceased Pond operations from August 15, 2010, until July 13, 2012, as the Pond was partially rebuilt and the leak detection system repaired.

The area surrounding the impacted portions of the Site are used for non-residential activities. Properties adjacent to the SJRP include undeveloped land to the north that is underlain by coal mining operations, a public golf course to the south, commercial and residential to the east and surface and underground coal mining operations to the west and northwest. The extreme northwestern portion of SJRP, beginning westward from the Praxair Pond, has been mined for coal. The coal mining operations, which support the nearby San Juan Generating Station power plant (Station), are reportedly scheduled to cease in 2022, coinciding with a planned shutdown of coal combustion activities at the Station.

2.2 SITE HISTORY

In 1985, the NMOCD issued a directive for oil and gas producers to cease discharging production fluids to unlined surface impoundments (pits) located in the groundwater recharge areas of the San Juan Basin and major river drainages to the San Juan, Animas, and La Plata Rivers. Once discharge had ceased, producers were required to investigate and remediate soil and groundwater contamination caused by these pits. In response, several investigations and removal actions have been completed at the SJRP:

- Multiple investigations were conducted at the SJRP between 1985 and 1995. During these investigations, 24 monitoring wells were installed at various locations at the site.
- In 1992, the north and south flare pits were closed, and 18,200 cubic yards and 3,520 cubic yards of contaminated soil were removed from these flare pits, respectively. A former landfarm located southwest of the main production area is composed of the soil excavated from the north and south flare pits during their closure. On June 29, 1993,

NMOCD granted closure of the flare pits with the condition that designated monitoring wells located downgradient of each former pit be monitored on an annual basis. The former wastewater evaporation ponds were closed during 1995 and 1996. The pit and pond closure activities included capping with compacted, low permeability soils. On June 17, 1997, NMOCD granted closure of the soil landfarm.

From 1995 through 1997, EPNG abandoned 17 monitoring wells (E-1B, E-1A, E-3, E-9, E-10, E-11, MW-1, MW-2, MW-3, P-2, P-5, P-6, P-7, P-8, P-9, P-10, and P-12), 2 wells were upgraded (W-2 and MW-4), and 5 new wells were installed (MW-5, MW-6, MW-7, MW-8, and MW-9). In addition, a soil gas investigation was performed. The results of the soil gas investigation indicated the presence of shallow hydrocarbon contamination near monitoring wells MW-8 and MW-9, which are in the northwestern portion of the SJRP facility.

- During January 2001, EPNG submitted a groundwater remediation work plan to NMOCD which addressed the elevated benzene concentrations in groundwater in monitoring wells MW-8 and MW-9. This work plan included provisions to install an air sparging system with two air sparging wells and one injection point located within 10 feet of each monitoring well. NMOCD gave approval to begin remediation activities in June 2001. The air sparging injection wells (SW-8 and SW-9) were installed during October 2001 and developed during November 2001. Following installation, a pre-pilot air sparging test was conducted at both wells. The results of the test indicated good communication between SW-9 and MW-9, but poor communication between SW-8 and MW-8. Due to poor communication between SW-8 and MW-8, magnesium peroxide oxygen-releasing compound (ORC) socks were utilized in MW-8 in lieu of air sparging. The air sparging system was installed near MW-9 and began operation on November 14, 2001.

- From February 2002 through December 2002, site activities consisted of continued operation and maintenance (O&M) of the air sparging system, and site-wide annual groundwater monitoring.

- In 2003, site activities included periodic O&M of the air sparging system, replacement of the ORC socks in MW-8, quarterly groundwater sampling of MW-8 and MW-9, and site-wide annual groundwater monitoring.

- Due to benzene, toluene, ethyl benzene, and xylenes (BTEX) concentrations in groundwater being below the New Mexico Water Quality Control Commission (NMWQCC) standards, the air sparging system was shut down in February 2004 to assess static groundwater conditions at the site.

- During 2004 through 2006, site activities included replacement of the ORC socks in MW-8, quarterly groundwater sampling of MW-8 and MW-9, and site-wide annual groundwater monitoring.

- EPNG submitted a Stage 1 Abatement Plan to NMOCD in November 2005 to investigate hydrocarbon impacts in groundwater adjacent to the Praxair water evaporation pond at the SJRP. NMOCD approved the Abatement Plan on January 23, 2006, and the investigative activities were completed in February 2006. A total of 15 soil borings (GPH-1 through GPH-15) were advanced, and 39 soil samples collected and retained for laboratory analysis. Due to the shallow refusal depths encountered in weathered bedrock using direct-push methods, a revised work plan was submitted to NMOCD in September 2006. The revised work plan recommended further investigation be performed using hollow-stem auger methods. EPNG did not receive a formal response from NMOCD to the revised work plan.

- Monitoring well MW-7, located immediately adjacent to the Praxair facility, was plugged and abandoned in May 2007 at the request of Praxair to accommodate new process construction at that location.

- During the May 2008 groundwater sampling event, it was observed that monitoring well MW-5 had been destroyed due to the subsurface coal mining activities near the western edge of the SJRP. The destruction of the well was determined to have occurred between February and May 2008.

- From May 2008 through the end of 2011, the environmental program at the SJRP consisted of remediation via the ORC socks in MW-8 and site-wide annual groundwater monitoring, as documented in annual reports.

- From 2013 through 2016, annual groundwater samples were collected from the existing site monitoring wells, which were documented in annual groundwater monitoring reports. In August 2016, a Site Characterization Work Plan was completed and submitted to NMOCD proposing additional assessment activities in the vicinity of the Praxair Pond and an area in the vicinity of a discharge pipe outfall to the north.

- In 2017, 19 soil borings (SB-01 through SB-19) were advanced as part of a site characterization investigation. Six monitoring wells (MW-11 through MW-16) were also advanced and completed. A total of 84 soil samples were collected and retained for laboratory analysis during advancement of the soil borings and monitoring wells. The results of the site characterization activities were documented in a November 2020 Site Characterization Report, to be submitted separately. Groundwater from the existing and newly-installed monitoring wells, including existing Praxair monitoring wells, were sampled in July and November 2017. The 2017 groundwater sample data was presented in the 2017 Annual Groundwater Monitoring report.

- In 2018, groundwater samples were collected from the existing monitoring wells and Praxair monitoring wells, which was documented in the 2018 Annual Groundwater Monitoring Report. A Phase 2 Site Characterization Work Plan proposing additional investigation was completed in January 2019.

- In March 2019, Phase 2 site characterization investigation activities were performed at the site and included the advancement and installation of seven monitoring wells (MW-17 through MW-23) around the Historic Burn Area and near the Praxair Pond. Groundwater samples were collected in March and April 2019, and again in October 2019. The October 2019 groundwater sampling results were presented in the 2019 Annual Groundwater Report.

Separate from EPNG's investigation of the site, Praxair advanced and installed five monitoring wells (PMW-1 through PMW-5) in July and August 1993, around the Praxair Pond, which was constructed in the location of the former EPNG raw water pond. Monitoring wells PMW-1 through PMW-4 were installed to depths ranging from 80 to 90 feet below ground surface (bgs). As perched groundwater was encountered during advancement of PMW-3, a shallow monitoring well, PMW-5, was installed in the same borehole. However, hydrocarbons were noted during advancement of the monitoring wells on the east side of the pond, and monitoring wells PMW-3 and PMW-5 were subsequently plugged and abandoned (MWH, 2006).

As a result of Praxair's reconstruction of their Pond, monitoring wells PMW-1 and PMW-4 were plugged and abandoned, and replacement monitoring wells PMW-1a and PMW-4a were installed, in February 2010. PMW-1a was completed to a depth of 101 feet bgs, while the boring for PMW-4a was advanced to a depth of 210 feet bgs, and the well completed at a depth of 150 feet bgs. Information regarding the Praxair monitoring wells, obtained from the New Mexico Environmental Department, is provided as Appendix A.

2.3 GEOLOGY AND HYDROGEOLOGY

Philip Environmental (Philip Environmental, 1998) summarized the geology of the site during their investigations. Based on drilling logs from 1995 and prior activities, the soils consist of fine sand to fine sandy clay, with some gravel and cobbles. The soil samples from borings located in the valley or alluvial fans (such as P-10, P-7, P-9, MW-5, MW-8 and MW-9) consist of fine sand to clay.

The uppermost and most prevalent lithology at the site is comprised of alluvial sediments, which consist of fluvial deposits and, to a lesser extent, terrace deposits of gravel and cobbles. Beneath the alluvium are the consolidated sedimentary units of the Kirtland Formation, which includes both shale and sandstone members. The portion of the site to the north of the gas plant is underlain by a shale member of the Kirtland Formation. The SJRP and Flare Hill, located on the west edge of the SJRP, are underlain by a sandstone member of the Kirtland Formation. During remediation of the South Flare Pit in September 1992, a distinct clay layer was encountered at a depth of approximately 15 feet below the original bottom of the pit.

During the 2006 investigation (MWH, 2006) using direct-push technology ground penetration methods, refusal was met in hard shale, siltstone, a silty sand mix, and sandstone at interval depths of 8 to 15 ft bgs. Lithology generally changed from a clay soil near the surface to alternating weathered shale and sandstone. This interpretation was considered consistent with previous assessments of the geology, and it was reported that most of the soil borings met refusal in what was likely the Kirtland Formation.

During the 2017-2019 site characterization investigation (Parsons, 2020), alluvium consisting of silt and clay was encountered and varied in thickness from 10 feet to as much as 41 feet. Alluvium was underlain by sandstone in 2 of 7 boreholes and shale in 5 of 7 boreholes. The geological assessment performed during the 2017-2019 site investigation was reported to be consistent with the results summarized in the 1998 Philip Environmental and 2006 MWH investigations.

3.0 FIELD ACTIVITIES

Stantec conducted annual groundwater monitoring at the SJRP site in November 2020. Free product recovery activities were completed during the November groundwater sampling mobilization and during a separate event in August 2020. Stantec provided field work notifications via email to the NMOCD on August 13, 2020 and November 5, 2020, prior to initiating field activities at the site. Copies of the 2020 NMOCD notifications are provided in Appendix B.

The following sections summarize the activities conducted during 2020.

3.1 DEPTH TO WATER MEASUREMENTS

Gauging of monitoring wells MW-11, MW-20, MW-22 and MW-23 was conducted on August 19 and 20, 2020, ahead of a mobile dual-phase extraction (MDPE) event. Well gauging was completed using an oil-water interface probe, and depth to water (DTW) and depth to product (DTP), as applicable, were measured at each of the accessed monitoring wells. Praxair monitoring wells PMW-2 and PMW-4a were found to be padlocked, and therefore were not accessed. During this gauging event, 1.20 feet of light non-aqueous phase liquid (LNAPL) was present in monitoring well MW-20.

Site-wide groundwater gauging activities were performed on November 15, 2020, with the eighteen (18) EPNG monitoring wells (W-2, MW-4, MW-6, MW-8, MW-9, MW-11, MW-12, MW-13, MW-14, MW-15, MW-16, MW-17, MW-18, MW-19, MW-20, MW-21, MW-22, and MW-23) accessed and gauged. Well gauging was completed using an oil-water interface probe, and DTW and DTP, as applicable, were measured at each of the accessed monitoring wells. Praxair wells PMW-1a, PMW-2, and PMW-4a were found to be padlocked, and therefore were not accessed. During the November site visit, 0.79 feet of LNAPL was present in monitoring well MW-20.

The 2020 groundwater gauging data and resulting groundwater elevations are included with historical gauging results on Table 1.

3.2 FREE PRODUCT RECOVERY

Quarterly free product recovery activities were initiated at the site beginning in August 2020. A MDPE event to recovery LNAPL from MW-20 and aid in developing a LNAPL recovery strategy was conducted on August 20, 2020. Free product was again removed from MW-20 on November 15, 2020, using manual methods.

3.2.1 August 2020 Event

Prior to conducting the MDPE event on August 20, 2020, Stantec and its MDPE subcontractor, AcuVac Remediation, LLC, of Houston Texas (AcuVac), mobilized to the Site on August 19, 2020, to gauge and set pressure transducers in monitoring well MW-20, which was utilized as the MDPE extraction well, and surrounding monitoring wells MW-11 and Praxair well PMW-2. However, Praxair well PMW-2 was found to be padlocked, and therefore was not accessed for gauging or pressure transducer monitoring.

MDPE is a process combining soil vapor extraction (SVE) with groundwater depression to enhance the removal of liquid and vapor phase hydrocarbons. A submersible pump is used to simultaneously remove dissolved-phase contaminated groundwater, inducing a hydraulic gradient toward the extraction well, and creating groundwater depression to expose the hydrocarbon smear zone to SVE. Recovered liquids were transferred to a portable storage tank for off-site disposal. Recovered vapors were used as fuel and burned in the MDPE internal

combustion engine (ICE), resulting in reduced emissions. Power generated by the ICE is used to create the induced vacuum for SVE.

On August 20, 2020, AcuVac, under supervision from Stantec, conducted an 8-hour MDPE event following re-gauging of MW-11 and MW-20. In order to help evaluate the depth(s) from which LNAPL may have entered MW-20, groundwater depression was conducted in steps to evaluate changes in air flow, water recovery and hydrocarbon recovery rates, and a potential response in nearby monitoring well MW-11. Based on information contained in the soil boring logged during advancement of monitoring well MW-20, response monitoring was conducted with SVE-only (no groundwater depression) for 2 hours to monitor for hydrocarbons in the vadose zone. After two hours, groundwater pumping commenced to create a groundwater depression at predetermined levels, with the groundwater pump set at a rate to maintain the desired level. Groundwater was initially lowered approximately 2.7 feet below static level, then at hour 3.5 it was lowered to 9.75 feet below static level, and finally at hour 5, groundwater was lowered to 15.7 feet below static. Induced vacuum was increased during the initial step with no groundwater depression, was held constant during second and third groundwater depression steps, and was increased during the final groundwater depression step. A detailed description of the MDPE event and results are included in AcuVac's report of the MDPE event, included as Appendix C.

Air monitoring for total volatile organic compounds (VOCs), oxygen, carbon monoxide, carbon dioxide, and hydrogen sulfide was conducted to evaluate the effectiveness of the MDPE event and for health and safety monitoring. To evaluate mass removal rates, one vapor sample was conducted at approximately hour seven of the 8-hour MDPE event at the extraction wellhead via Summa canister. A second vapor sample was also collected from the ICE effluent stack to help document the efficiency of the ICE. Both Summa canisters were submitted to Eurofins-TestAmerica Laboratories, Inc. (Eurofins), located in Fulsom, California, for analysis of BTEX constituents using Method TO-3, and Total Petroleum Hydrocarbons (TPH) using Method TO-15. The results are provided in the analytical laboratory report results, included as Appendix D.

Following completion of the MDPE event, MW-20 was re-gauged and found to contain 0.72 feet of LNAPL. Stantec subsequently conducted additional LNAPL recovery activities from MW-20 via hand-bailing and measuring the amount of LNAPL and groundwater recovered. Monitoring wells MW-22 and MW-23, were also gauged on August 20, 2020, to determine whether measurable groundwater was present.

Liquids recovered during the MDPE event and subsequent manual recovery activities were containerized in an EPNG-owned tote provided by Envirotech, Inc., of Farmington, New Mexico, and removed from the site following completion of the event. The recovered liquids were transported to Basin Disposal, Inc. (Basin) for treatment and disposal. Waste disposal documentation is included as Appendix E.

3.2.2 November 2020 Event

On November 16, 2020, approximately 0.4 gallons of free product was removed from MW-20 using hand-bailing methods. The recovered free product was disposed of with wastewater generated during monitoring well sampling activities. The recovered product was combined with wastewater generated during groundwater sampling activities and taken to Basin for treatment and disposal. Waste disposal documentation is included as Appendix E.

3.3 GROUNDWATER SAMPLING

Following collection of gauging data on November 15, 2020, groundwater samples were collected from the EPNG monitoring wells containing a sufficient amount of water, and no LNAPL. Groundwater samples were obtained from each monitoring well sampled using HydraSleeve samplers. Monitoring wells W-2, MW-4, MW-6, MW-8, MW-9, MW-11 through MW-16, MW-18, and MW-19 were sampled on November 16, 2020. Monitoring well MW-22 was sampled on November 17, 2020. The HydraSleeves used to collect the groundwater samples were installed in the site monitoring wells following the October 2019 annual groundwater sampling event (completed by another contractor). Stantec installed new HydraSleeves in those wells sampled in November 2020 to facilitate future groundwater sampling at these locations.

Groundwater samples were placed into laboratory-supplied sample containers, packed on ice, and shipped under standard chain-of-custody protocols to Eurofins, located in Pensacola, Florida. Two laboratory-supplied trip blanks, and two blind field duplicate samples were also collected during the groundwater sampling event. With the exception of monitoring well MW-22, the groundwater samples were analyzed for BTEX using U.S. Environmental Protection Agency (EPA) Method 8260B, NMWQCC dissolved metals using Method SW-6010B, dissolved mercury using Method SW-7470A, alkalinity via Method SM-2320B, chloride, sulfate, and nitrate using Method E300.0, and total dissolved solids (TDS) via Method SM-2540C. The groundwater sample collected from monitoring well MW-22 was analyzed for BTEX constituents using EPA Method 8260B; there was an insufficient amount of water in the well to collect samples for the dissolved metals or inorganic constituents. The samples collected for dissolved metals were first filtered in the field using 0.45 micron filters, prior to preservation and shipment to the laboratory.

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

Groundwater analytical data were subjected to a validation process to review for quality and analytical methods used. The data review focused on the potential impact of laboratory performance and matrix effects on the validity of the analytical results. During the review, sample results that did not meet quality control (QC) acceptance criteria were qualified with flags to indicate a potential problem with the data, as noted on the groundwater analytical data summary tables (Tables 2 and 3). The Stantec data validation report, and associated level IV data packages from Eurofins, are available upon request.

4.0 RESULTS AND DISCUSSION

4.1 GROUNDWATER ELEVATION AND GRADIENT

Groundwater elevations determined from the November 15, 2020 gauging event indicate the apparent groundwater flow direction across the Site is generally to the southwest in the vicinity of the Praxair Plant and southward, and to the west and northwest north of the Praxair Plant. As noted in previous reports, the SJRP sits on a groundwater divide. A groundwater elevation contour map depicting groundwater elevations across the site is included as Figure 3.

Monitoring wells MW-22 and MW-23 were found to be dry during the August 20, 2020 gauging event, and monitoring well MW-23 was dry during the November 15, 2020 gauging event. Monitoring well MW-23 is located in the area where underground coal mining has occurred, and settling related to the mining activities may have affected groundwater levels in this area.

4.2 FREE PRODUCT RECOVERY RESULTS

The thickness and recovery of free product encountered in monitoring well MW-20 is summarized in Table 4.

4.2.1 AUGUST 20, 2020 MDPE EVENT RESULTS

As presented in Appendix C, the MDPE event airflow rates from extraction well MW-20 did not increase with the depression of the water column in the well at depths greater than 30 feet bgs. Airflow rates ranged from 2.16 standard cubic feet per minute (SCFM), up to 3.43 SCFM within 30 minutes after depressing groundwater to approximately 30 feet bgs and remained steady or declined for the remainder of the event. Vapor concentrations steadily increased at the start of the MDPE event, increasing to 606 parts per million-vapor (ppm-v) following the depression of groundwater to 30 feet bgs. Vapor concentrations also increased slightly following groundwater depression to 37 feet bgs and 42 feet bgs, peaking at 680 ppm-v following depression of groundwater to 42 feet bgs. Vapor concentrations trailed off to 474 ppm-v at the end of the MDPE event.

As discussed in Appendix C, a total of approximately 0.16 pounds, or 0.02 gallons, of LNAPL, as vapor-phase hydrocarbons, were estimated to have been recovered during the 8-hour event based on the Acuvac Horiba VOC analyzer. A Summa sample collected from the ICE stack indicated a reduction in TPH content over one order of magnitude (7.8 mg/m3) following combustion. Benzene concentrations in the Summa samples collected from the extraction wellhead and ICE stack effluent Summa were 0.46 mg/m3 and 0.62 mg/m3, respectively.

A trace amount of liquid LNAPL was recovered, in addition to the 24 gallons of water recovered. As presented in Appendix C, water recovery rates declined over time as the event progressed, with no substantial increase in water flow rates as the groundwater drawdown progressed. An additional 0.67 gallons of LNAPL, and 0.1 gallons of water, were hand-bailed from MW-20 upon completion of the MDPE event. A specific gravity of the recovered LNAPL of 745 milligrams per cubic centimeters (at 23 degrees Celsius) was measured in the field using a hydrometer and thermometer.

No vacuum or water drawdown were noted in observation well MW-11, located 173 feet north-northwest from MW-20. MW-11 was the nearest accessible monitoring well to MW-20. The effective radius of vacuum influence during the MDPE event laterally away from MW-20 would be considerably less than 173 feet, given the opportunity of likely vertical short-circuiting pathways through the unpaved surface.

4.2.2 NOVEMBER 15, 2020 PSH MANUAL RECOVERY RESULTS

A total of approximately 0.42 gallons of product were recovered from MW-20 using hand-bailing methods.

4.3 GROUNDWATER ANALYTICAL RESULTS

Tables 2 and 3 summarize the historical and 2020 site investigation and annual groundwater analytical results. Figure 4 summarizes BTEX analyte concentrations in groundwater. Figures 5 and 6 summarize dissolved metals and inorganic analyte results in groundwater for those analytes that exceeded the NMWQCC standards during the 2020 sampling event. The analytical laboratory reports are included as Appendix F.

- Free product was observed in MW-20 during the annual groundwater sampling event; therefore, groundwater samples were not collected from this location. Additionally, an insufficient amount of water was present in MW-23 to collect a groundwater sample in November 2020.
- Groundwater samples collected from monitoring wells MW-8, MW-9, MW-11, MW-13, MW-15, MW-16, and MW-21 exceeded the NMWQCC standard (0.010 milligrams per liter[mg/L]) for benzene in groundwater. Benzene concentrations were either below the standard or not detected in the remaining monitoring wells sampled in 2020.
- Concentrations of toluene were either below the NMWQCC standard (0.75 mg/L) or not detected in the monitoring wells sampled in 2020.
- Concentrations of ethylbenzene were either below the NMWQCC standard (0.75 mg/L) or not detected in the monitoring wells sampled in 2020.
- The groundwater sample collected from MW-21 exceeded the NMWQCC standard (0.62 mg/L) for total xylenes in groundwater. Concentrations of total xylenes concentrations were either below the standard or not detected in other Site monitoring wells sampled in 2020.
- Dissolved metal concentrations that exceeded the respective NMWQCC standard in groundwater samples collected in November 2020 include: aluminum (MW-6 and MW-9 [NMWQCC standard of 5 mg/L]); boron (MW-6, MW-15, MW-16, MW-18, and MW-19 [NMWQCC standard of 0.75 mg/L]); cadmium (MW-6, MW-18 and MW-19 [NMWQCC standard of 0.01 mg/L]); cobalt (MW-6, MW-9, MW-18, and MW-19 [NMWQCC standard of 0.05 mg/L]); iron (MW-4, MW-8, MW-9, MW-12, MW-13, MW-15, and MW-18 [NMWQCC standard of 1 mg/L]); manganese (MW-4, MW-6, MW-8, MW-9, MW-11, MW-12, MW-13, MW-14, MW-15, MW-18, and MW-19 [NMWQCC standard of 0.2 mg/L]); nickel (MW-6, MW-9, and MW-18 [NMWQCC standard of 0.2 mg/L]); and selenium (MW-6 [NMWQCC standard of 0.05 mg/L]).
- Inorganic constituent concentrations that exceeded the respective NMWQCC standard in groundwater samples collected in November 2020 include: chloride (MW-6, MW-8, MW-9, MW-13, and MW-15, [NMWQCC standard of 250 mg/L]); nitrate (MW-6, [NMWQCC standard of 10 mg/L]); sulfate (MW-4, MW-6, MW-8, MW-9, MW-11, MW-12, MW-13, MW-14, MW-15, MW-18, MW-19, and MW-21 [NMWQCC standard of 600 mg/L]); and TDS (MW-4, MW-6, MW-8, MW-9, MW-11, MW-12, MW-13, MW-14, MW-15, MW-16, MW-18 and MW-19 [NMWQCC standard of 1,000 mg/L]).

- Field duplicates were collected from MW-9 and MW-16 during the November 2020 annual monitoring event. No significant differences were noted between the primary and the duplicate samples.
- Detectable concentrations of BTEX constituents were not reported in the trip blanks collected.

5.0 PLANNED FUTURE ACTIVITIES

Annual groundwater monitoring is to continue in 2021, with the event planned to occur in the fourth calendar quarter. Groundwater samples will be collected from monitoring wells not containing free product. If encountered while on-site, free product will be hand-bailed, and recovered fluids transported to Basin for disposal. The collected groundwater samples will be submitted for laboratory analysis of BTEX constituents using EPA Method 8260, dissolved NMWQCC metals using Method SW-6010B, dissolved mercury using Method SW-7470A, alkalinity using Method SM-2320B, chloride, sulfate, and nitrate using Method E300.0, and TDS using Method SM-2540C, as recovered sample volumes allow. Field duplicates and trip blank will also be collected during each groundwater sampling event.

Based on the results of the MDPE event and low recovery of vapor-phase hydrocarbons, methods such as SVE or MDPE would not be expected to be a feasible and efficient technology to remedy LNAPL from the MW-20 location. Manual recovery of LNAPL in liquid-phase will continue on a quarterly basis in 2021.

Further delineation or assessment of hydrocarbons at the site will be proposed under separate cover. The activities completed in 2021 and their results will be summarized in the 2021 Annual Report, completed for submittal in early 2022.

6.0 REFERENCES

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TABLES

Table 1
Groundwater Elevation Data Summary
San Juan River Gas Plant, Kirtland, New Mexico

Monitoring Well	TOC Elevation (ft amsl)	Measurement Date	Depth to Product (ft btoc)	Depth to Water (ft btoc)	GW Elevation (ft amsl)
W-2	**5284.43**	9/25/2001	NA	NA	NA
		8/15/2002	ND	57.55	5226.88
		8/26/2003	ND	57.53	5226.90
		8/27/2004	ND	57.76	5226.67
		8/24/2005	ND	58.50	5225.93
		8/10/2006	ND	58.72	5225.71
		8/23/2007	ND	52.73	5231.70
		8/27/2008	ND	55.53	5228.90
		8/28/2009	ND	55.24	5229.19
		8/26/2010	ND	52.80	5231.63
		8/31/2011	ND	53.69	5230.74
		12/19/2013	ND	55.31	5229.12
		12/16/2014	ND	54.98	5229.45
		12/15/2015	ND	54.31	5230.12
		12/13/2016	ND	53.91	5230.52
		7/05/2017	ND	55.00	5229.43
		11/16/2017	ND	53.97	5230.46
		1/28/2018	ND	55.02	5229.41
		11/12/2018	ND	55.65	5228.78
		3/11/2019	ND	57.21	5227.22
		4/15/2019	ND	57.49	5226.94
		10/14/2019	ND	54.74	5229.69
		11/15/2020	ND	52.97	5231.46
MW-4	**5286.88**	9/25/2001	NA	NA	NA
		8/15/2002	ND	52.93	5233.95
		8/26/2003	ND	53.53	5233.35
		8/27/2004	ND	54.44	5232.44
		8/24/2005	ND	55.29	5231.59
		8/10/2006	ND	55.57	5231.31
		8/23/2007	ND	51.87	5235.01
		8/27/2008	ND	52.24	5234.64
		8/28/2009	ND	58.70	5228.18
		8/26/2010	ND	52.32	5234.56
		8/31/2011	ND	51.63	5235.25
		12/19/2013	ND	52.00	5234.88
		12/16/2014	ND	52.08	5234.80
		12/15/2015	ND	51.62	5235.26
		12/13/2016	ND	51.38	5235.50
		7/05/2017	ND	52.26	5234.62
		11/16/2017	ND	51.53	5235.35
		1/28/2018	ND	52.03	5234.85
		11/12/2018	ND	52.77	5234.11
		3/11/2019	ND	53.70	5233.18
		4/15/2019	ND	53.18	5233.70
		10/14/2019	ND	53.12	5233.76
		11/15/2020	ND	52.89	5233.99
MW-5	**5257.44**	2/10/1998	ND	16.29	5241.15
		5/12/1998	ND	16.09	5241.35
		8/7/1998	ND	17.69	5239.75
		11/4/1998	ND	16.76	5240.68
		2/10/1999	ND	15.51	5241.93
		5/17/1999	ND	15.49	5241.95
		8/18/1999	ND	16.67	5240.77
		11/30/1999	ND	16.60	5240.84
		4/10/2000	ND	15.52	5241.92
		6/29/2000	ND	16.83	5240.61
		9/29/2000	ND	17.58	5239.86
		12/21/2000	ND	16.38	5241.06

Table 1
Groundwater Elevation Data Summary
San Juan River Gas Plant, Kirtland, New Mexico

Monitoring Well	TOC Elevation (ft amsl)	Measurement Date	Depth to Product (ft btoc)	Depth to Water (ft btoc)	GW Elevation (ft amsl)
		3/27/2001	ND	15.13	5242.31
		6/27/2001	ND	16.04	5241.40
		9/25/2001	ND	17.39	5240.05
		11/29/2001	ND	17.45	5239.99
		1/25/2002	ND	17.73	5239.71
		8/15/2002	ND	18.61	5238.83
		8/26/2003	ND	17.33	5240.11
		8/27/2004	ND	16.80	5240.64
		8/24/2005	ND	13.83	5243.61
		8/10/2006	NA	NA	NA
		8/23/2007	ND	14.42	5243.02
		Well destroyed prior to May 2008			
MW-6	**5308.71**	9/25/2001	NA	NA	NA
		8/15/2002	ND	31.50	5277.21
		8/26/2003	ND	31.76	5276.95
		8/27/2004	ND	31.85	5276.86
		8/24/2005	ND	29.93	5278.78
		8/10/2006	ND	30.37	5278.34
		8/23/2007	ND	30.70	5278.01
		11/15/2020	ND	33.03	5275.68
		8/27/2008	ND	31.27	5277.44
		8/28/2009	ND	31.44	5277.27
		8/26/2010	ND	31.55	5277.16
		8/31/2011	ND	31.47	5277.24
		12/19/2013	ND	30.98	5277.73
		12/16/2014	ND	31.55	5277.16
		12/15/2015	ND	31.55	5277.16
		12/13/2016	ND	32.00	5276.71
		7/05/2017	ND	32.34	5276.37
		11/16/2017	ND	32.21	5276.50
		1/28/2018	ND	32.32	5276.39
		11/12/2018	ND	32.69	5276.02
		3/11/2019	ND	32.51	5276.20
		4/15/2019	ND	32.52	5276.19
		10/14/2019	ND	32.72	5275.99
		11/15/2020	ND	33.03	5275.68
MW-7	**5293.13**	9/25/2001	NA	NA	NA
		8/15/2002	ND	27.07	5266.06
		8/26/2003	ND	27.00	5266.13
		8/27/2004	ND	23.55	5269.58
		8/24/2005	ND	19.48	5273.65
		10/08/2006	ND	20.33	5272.80
		Well plugged in May 2007			
MW-8	**5262.72**	2/10/1998	ND	10.39	5252.33
		5/12/1998	ND	10.02	5252.70
		8/7/1998	ND	10.13	5252.59
		11/4/1998	ND	10.75	5251.97
		2/10/1999	ND	11.31	5251.41
		5/17/1999	ND	10.93	5251.79
		8/18/1999	ND	10.44	5252.28
		11/30/1999	ND	11.10	5251.62
		4/10/2000	ND	11.70	5251.02
		6/29/2000	ND	11.16	5251.56
		9/29/2000	NA	NA	NA

Table 1
Groundwater Elevation Data Summary
San Juan River Gas Plant, Kirtland, New Mexico

Monitoring Well	TOC Elevation (ft amsl)	Measurement Date	Depth to Product (ft btoc)	Depth to Water (ft btoc)	GW Elevation (ft amsl)
		12/21/2000	ND	11.96	5250.76
		3/27/2001	ND	12.32	5250.40
		6/27/2001	ND	11.49	5251.23
		9/25/2001	ND	11.06	5251.66
		10/29/2001	ND	11.31	5251.41
		1/25/2002	ND	12.35	5250.37
		5/23/2002	ND	12.60	5250.12
		8/15/2002	ND	12.90	5249.82
		3/6/2003	ND	12.79	5249.93
		5/15/2003	ND	12.25	5250.47
		8/26/2003	ND	11.16	5251.56
		11/25/2003	ND	12.79	5249.93
		5/18/2004	ND	12.02	5250.70
		8/27/2004	ND	6.26	5256.46
		11/17/2004	ND	6.46	5256.26
		2/17/2005	ND	7.43	5255.29
		5/19/2005	ND	3.56	5259.16
		8/24/2005	ND	6.02	5256.70
		11/9/2005	ND	8.38	5254.34
		2/20/2006	ND	8.55	5254.17
		5/24/2006	ND	6.31	5256.41
		8/10/2006	ND	6.80	5255.92
		12/27/2006	ND	4.94	5257.78
		2/27/2007	ND	5.40	5257.32
		5/25/2007	ND	6.28	5256.44
		8/23/2007	ND	9.25	5253.47
		11/28/2007	ND	12.16	5250.56
		2/13/2008	ND	10.41	5252.31
		5/8/2008	ND	10.40	5252.32
		8/27/2008	ND	11.15	5251.57
		11/18/2008	ND	11.90	5250.82
		2/18/2009	ND	13.60	5249.12
		5/5/2009	ND	13.07	5249.65
		8/28/2009	ND	13.75	5248.97
		11/4/2009	ND	18.58	5244.14
		2/18/2010	ND	21.19	5241.53
		5/26/2010	ND	13.72	5249.00
		8/26/2010	ND	20.64	5242.08
		9/11/2010	ND	21.60	5241.12
		12/19/2013	ND	15.11	5247.61
		12/16/2014	ND	15.90	5246.82
		12/15/2015	ND	15.05	5247.67
		12/13/2016	ND	14.92	5247.80
		07/05/2017	ND	16.24	5246.48
		11/16/2017	ND	17.09	5245.63
		01/28/2018	ND	17.55	5245.17
		11/12/2018	ND	17.90	5244.82
		3/11/2019	ND	18.35	5244.37
		4/15/2019	ND	18.59	5244.13
		10/14/2019	ND	18.76	5243.96
		11/15/2020	ND	19.47	5243.25

Table 1
Groundwater Elevation Data Summary
San Juan River Gas Plant, Kirtland, New Mexico

Monitoring Well	TOC Elevation (ft amsl)	Measurement Date	Depth to Product (ft btoc)	Depth to Water (ft btoc)	GW Elevation (ft amsl)
MW-9	**5264.26**	2/10/1998	ND	4.90	5259.36
		5/12/1998	ND	4.22	5260.04
		8/7/1998	ND	5.12	5259.14
		11/4/1998	ND	4.60	5259.66
		2/10/1999	ND	4.67	5259.59
		5/17/1999	ND	4.48	5259.78
		8/18/1999	ND	4.85	5259.41
		11/30/1999	ND	5.38	5258.88
		4/10/2000	ND	4.74	5259.52
		6/29/2000	ND	5.47	5258.79
		9/29/2000	NA	NA	NA
		12/21/2000	ND	5.82	5258.44
		3/27/2001	ND	5.34	5258.92
		6/27/2001	ND	5.68	5258.58
		9/25/2001	ND	6.77	5257.49
		10/29/2001	ND	6.91	5257.35
		12/26/2001	ND	5.68	5258.58
		1/25/2002	ND	7.27	5256.99
		2/21/2002	NA	NA	NA
		5/23/2002	ND	5.45	5258.81
		8/15/2002	ND	6.93	5257.33
		3/6/2003	ND	6.82	5257.44
		5/15/2003	ND	5.45	5258.81
		8/26/2003	ND	6.69	5257.57
		11/25/2003	ND	6.42	5257.84
		5/18/2004	ND	5.97	5258.29
		8/27/2004	ND	6.49	5257.77
		11/17/2004	ND	6.02	5258.24
		2/17/2005	ND	5.69	5258.57
		5/19/2005	ND	4.78	5259.48
		8/24/2005	ND	5.19	5259.07
		11/9/2005	ND	4.93	5259.33
		2/20/2006	ND	4.83	5259.43
		5/24/2006	ND	4.47	5259.79
		8/10/2006	ND	5.19	5259.07
		12/27/2006	ND	4.13	5260.13
		2/27/2007	ND	4.24	5260.02
		5/25/2007	ND	3.81	5260.45
		8/23/2007	ND	4.85	5259.41
		11/28/2007	ND	5.13	5259.13
		2/13/2008	ND	5.28	5258.98
		5/8/2008	ND	4.71	5259.55
		8/27/2008	ND	6.06	5258.20
		11/18/2008	ND	6.53	5257.73
		2/18/2009	ND	6.69	5257.57
		5/5/2009	ND	12.18	5252.08
		8/28/2009	ND	16.54	5247.72
		11/4/2009	ND	16.63	5247.63
		2/18/2010	ND	16.18	5248.08
		5/26/2010	ND	16.36	5247.90
		8/26/2010	ND	16.93	5247.33
		11/9/2010	ND	15.28	5248.98

Table 1
Groundwater Elevation Data Summary
San Juan River Gas Plant, Kirtland, New Mexico

Monitoring Well	TOC Elevation (ft amsl)	Measurement Date	Depth to Product (ft btoc)	Depth to Water (ft btoc)	GW Elevation (ft amsl)
		2/7/2011	ND	15.17	5249.09
		5/16/2011	ND	14.75	5249.51
		8/31/2011	ND	14.46	5249.80
		11/8/2011	ND	14.45	5249.81
		2/22/2012	ND	14.09	5250.17
		12/19/2013	ND	12.97	5251.29
		12/16/2014	ND	12.86	5251.40
		12/15/2015	ND	11.83	5252.43
		12/13/2016	ND	11.16	5253.10
		7/05/2017	ND	11.34	5252.92
		11/16/2017	ND	10.37	5253.89
		1/28/2018	ND	10.54	5253.72
		11/12/2018	ND	10.34	5253.92
		3/11/2019	ND	10.14	5254.12
		4/15/2019	ND	9.70	5254.56
		10/14/2019	ND	10.20	5254.06
		11/15/2020	ND	10.26	5254.00
MW-11	**5290.46**	7/05/2017	ND	28.08	5262.38
		11/16/2017	ND	25.88	5264.58
		1/28/2018	ND	25.90	5264.56
		11/12/2018	ND	26.06	5264.40
		3/11/2019	ND	25.38	5265.08
		4/15/2019	ND	25.11	5265.35
		10/14/2019	ND	25.54	5264.92
		8/20/2020	ND	26.32	5264.14
		11/15/2020	ND	26.29	5264.17
MW-12	**5282.8**	7/05/2017	ND	20.62	5262.18
		11/16/2017	ND	19.53	5263.27
		1/28/2018	ND	19.21	5263.59
		11/12/2018	ND	18.92	5263.88
		3/11/2019	ND	19.10	5263.70
		4/15/2019	ND	18.78	5264.02
		10/14/2019	ND	19.82	5262.98
		11/15/2020	ND	20.44	5262.36
MW-13	**5279.31**	7/05/2017	ND	23.35	5255.96
		11/16/2017	ND	21.17	5258.14
		1/28/2018	ND	20.63	5258.68
		11/12/2018	ND	19.95	5259.36
		3/11/2019	ND	19.19	5260.12
		4/15/2019	ND	19.23	5260.08
		10/14/2019	ND	19.32	5259.99
		11/15/2020	ND	19.86	5259.45
MW-14	**5270.58**	7/05/2017	ND	10.65	5259.93
		11/16/2017	ND	8.96	5261.62
		1/28/2018	ND	9.01	5261.57
		11/12/2018	ND	9.95	5260.63
		3/11/2019	ND	8.43	5262.15
		4/15/2019	ND	8.18	5262.40
		10/14/2019	ND	8.90	5261.68
		11/15/2020	ND	9.13	5261.45
MW-15	**5273.45**	7/05/2017	ND	28.01	5245.44
		11/16/2017	ND	27.65	5245.80
		1/28/2018	ND	27.29	5246.16
		11/12/2018	ND	26.84	5246.61
		3/11/2019	ND	26.21	5247.24
		4/15/2019	ND	26.11	5247.34
		10/14/2019	ND	26.59	5246.86
		11/15/2020	ND	13.48	5259.97

Table 1
Groundwater Elevation Data Summary
San Juan River Gas Plant, Kirtland, New Mexico

Monitoring Well	TOC Elevation (ft amsl)	Measurement Date	Depth to Product (ft btoc)	Depth to Water (ft btoc)	GW Elevation (ft amsl)
MW-16	**5265.34**	7/05/2017	ND	23.63	5241.71
		11/16/2017	ND	23.16	5242.18
		1/28/2018	ND	23.05	5242.29
		11/12/2018	ND	22.95	5242.39
		3/11/2019	ND	22.73	5242.61
		4/15/2019	ND	22.74	5242.60
		10/14/2019	ND	23.02	5242.32
		11/15/2020	ND	23.00	5242.34
MW-17	**5263.95**	3/11/2019	ND	27.56	5236.39
		4/15/2019	ND	27.60	5236.35
		10/14/2019	ND	27.70	5236.25
		11/15/2020	ND	28.37	5235.58
MW-18	**5269.08**	3/11/2019	ND	13.55	5255.53
		4/15/2019	ND	13.39	5255.69
		10/14/2019	ND	13.76	5255.32
		11/15/2020	ND	13.50	5255.58
MW-19	**5278.94**	3/11/2019	ND	13.54	5265.40
		4/15/2019	ND	13.22	5265.72
		10/14/2019	ND	14.01	5264.93
		11/15/2020	ND	14.49	5264.45
MW-20	**5292.23**	3/11/2019	38.7	40.02	5252.21
		4/15/2019	34.3	35.47	5256.76
		10/14/2019	26.5	26.71	5265.52
		8/20/2020	26.98	28.16	5264.96
		11/15/2020	27.72	28.51	5264.31
MW-21	**5276.06**	3/11/2019	ND	36.50	5239.56
		4/15/2019	ND	33.53	5242.53
		10/14/2019	ND	28.98	5247.08
		11/15/2020	ND	28.52	5247.54
MW-22	**5269.13**	3/11/2019	Dry	Dry	NA
		4/15/2019	ND	37.24	5231.89
		10/14/2019	Dry	Dry	NA
		8/20/2020	Dry	Dry	NA
		11/15/2020	ND	36.68	5232.45
MW-23	**5287.76**	3/11/2019	ND	57.91	5229.85
		4/15/2019	ND	58.05	5229.71
		10/14/2019	ND	Dry	NA
		8/20/2020	Dry	Dry	NA
		11/15/2020	ND	Dry @ 61 feet	<5227

Table 1
Groundwater Elevation Data Summary
San Juan River Gas Plant, Kirtland, New Mexico

Monitoring Well	TOC Elevation (ft amsl)	Measurement Date	Depth to Product (ft btoc)	Depth to Water (ft btoc)	GW Elevation (ft amsl)
PMW-1a	**5298.09**	7/05/2017	ND	70.91	5227.18
		11/16/2017	ND	70.43	5227.66
		1/28/2018	ND	70.03	5228.06
		11/12/2018	ND	67.98	5230.11
		3/11/2019	ND	65.83	5232.26
		4/15/2019	ND	66.61	5231.48
		10/14/2019	ND	66.05	5232.04
		11/15/2020	NG	NG	NG
PMW-2	**5298.14**	7/05/2017	ND	44.69	5253.45
		11/16/2017	ND	44.01	5254.13
		1/28/2018	ND	43.53	5254.61
		11/12/2018	ND	44.29	5253.85
		3/11/2019	ND	41.97	5256.17
		4/15/2019	ND	41.83	5256.31
		10/14/2019	ND	41.70	5256.44
		11/15/2020	NG	NG	NG
PMW-4a	**5287.86**	7/05/2017	ND	109.00	5178.86
		11/16/2017	ND	>100	NA
		1/28/2018	ND	104.84	5183.02
		11/12/2018	ND	117.03	5170.83
		3/11/2019	ND	101.17	5186.69
		4/15/2019	ND	101.90	5185.96
		10/14/2019	ND	101.97	5185.89
		11/15/2020	NG	NG	NG

Notes:
NA = Historical measurement is not available
ft btoc = feet below top of casing
ft amsl = feet above mean sea level
TOC = top of casing

Table 2
Summary of BTEX and TPH Groundwater Analytical Results
San Juan River Gas Plant, Kirtland, New Mexico

Monitoring Well	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)	TPH ORO (mg/L)
NMWQCC Standard (mg/L):		0.01	0.75	0.75	0.62	NE	NE	NE
W-2	9/25/2001	<0.002	<0.002	<0.002	<0.002	--	--	--
	8/15/2002	**0.0014**	**0.0004**	**0.0008**	**0.001**	--	--	--
	8/26/2003	<0.001	<0.001	<0.001	<0.003	--	--	--
	8/27/2004	<0.001	<0.001	<0.001	<0.003	--	--	--
	8/24/2005	<0.001	<0.001	<0.001	<0.002	--	--	--
	8/10/2006	<0.001	<0.001	<0.001	<0.002	--	--	--
	8/23/2007	<0.001	<0.001	<0.001	<0.002	--	--	--
	8/27/2008	<0.001	<0.001	<0.001	<0.003	--	--	--
	8/28/2009	<0.001	<0.001	<0.001	<0.002	--	--	--
	8/26/2010	<0.002	<0.002	<0.002	<0.006	--	--	--
	8/31/2011	<0.001	<0.001	<0.001	<0.003.0	--	--	--
	12/19/2013	<0.00008	<0.00015	<0.00011	<0.00026	--	--	--
	12/18/2014	<0.00008	<0.00015	<0.00011	<0.00026	--	--	--
	12/15/2015	<0.000176	<0.000198	<0.000212	<0.000366	--	--	--
	12/13/2016	<0.000176	<0.000198	<0.000212	<0.000366	--	--	--
	7/06/2017	<0.000176	<0.000198	<0.000212	<0.000366	--	--	--
	11/16/2017	<0.000202	<0.000198	<0.000212	<0.000366	--	--	--
	11/13/2018	<0.000176	<0.000198	<0.000212	<0.000366	--	--	--
	3/11/2019	<0.000176	<0.000198	<0.000212	<0.000366	--	--	--
	10/15/2019	<0.000176	<0.000198	<0.000212	<0.000366	--	--	--
	11/16/2020	<0.00038	<0.00041	<0.00050	<0.0016	--	--	--
MW-4	9/25/2001	<0.002	**0.0082**	**0.0043**	**0.017**	--	--	--
	8/15/2002	**0.0008**	**0.0005**	**0.0011**	**0.0009**	--	--	--
	8/26/2003	<0.001	<0.001	<0.001	<0.003	--	--	--
	8/27/2004	<0.001	<0.001	<0.001	<0.003.0	--	--	--
	8/24/2005	<0.001	<0.001	<0.001	<0.002	--	--	--
	8/10/2006	<0.001	<0.001	<0.001	<0.002	--	--	--
	8/23/2007	**0.00037 J**	<0.001	<0.001	<0.002	--	--	--
	8/27/2008	<0.001	<0.001	<0.001	<0.003.0	--	--	--
	8/28/2009	<0.001	<0.001	<0.001	<0.002	--	--	--
	8/26/2010	<0.002	<0.002	<0.002	<0.006	--	--	--
	8/31/2011	<0.001	<0.001	<0.001	<0.003.0	--	--	--
	12/19/2013	**0.000208 J**	<0.00015	<0.00011	<0.00026	--	--	--
	12/18/2014	**0.000235**	<0.00015	<0.00011	<0.00026	--	--	--
	12/15/2015	**0.00021 J**	<0.000198	<0.000212	<0.000366	--	--	--
	12/13/2016	**0.000176 J**	<0.000198 J	<0.000212 J	<0.000366 J	--	--	--
	7/06/2017	<0.000176	<0.000198	<0.000212	<0.000366	--	--	--
	11/16/2017	<0.000265	<0.000198	<0.000212	<0.000366	--	--	--
	11/13/2018	<0.000176	<0.000198	<0.000212	<0.000366	--	--	--
	3/11/2019	<0.000176	<0.000198	<0.000212	<0.000366	--	--	--
	10/15/2019	<0.000176	<0.000198	**0.00248 J**	**0.000426 J**	--	--	--
	11/16/2020	<0.00038	<0.00041	<0.00050	<0.0016	--	--	--
MW-6	9/25/2001	**0.0021**	**0.005**	<0.002	<0.002	--	--	--
	8/15/2002	**0.0003**	<0.0005	<0.0005	**0.0009**	--	--	--
	8/26/2003	<0.001	<0.001	<0.001	<0.003	--	--	--
	8/27/2004	<0.001	<0.001	<0.001	<0.003	--	--	--
	24/08/2005	<0.001	<0.001	<0.001	<0.002	--	--	--
	8/10/2006	<0.001	<0.001	<0.001	<0.002	--	--	--
	8/23/2007	<0.001	<0.001	<0.001	<0.002	--	--	--
	8/27/2008	<0.001	<0.001	<0.001	<0.003	--	--	--
	8/28/2009	<0.001	<0.001	<0.001	<0.002	--	--	--
	8/26/2010	<0.002	<0.002	<0.002	<0.006	--	--	--
	8/31/2011	<0.001	<0.001	<0.001	<0.003	--	--	--
	12/19/2013	<0.00008	<0.00015	<0.00011	<0.00026	--	--	--
	12/18/2014	**0.0000812**	<0.00015	<0.00011	<0.00026	--	--	--
	12/15/2015	<0.000176	<0.000198	<0.000212	<0.000366	--	--	--
	12/13/2016	<0.000176	<0.000198	<0.000212	<0.000366	--	--	--
	7/06/2017	<0.000176	<0.000198	<0.000212	**0.000585 J**	<0.05	**0.179**	<0.0989
	11/16/2017	<0.000176	<0.000198	<0.000212	<0.000366	<0.05	**0.0869 J**	<0.0858
	11/12/2018	<0.000176	<0.000198	<0.000212	<0.000366	--	**--**	--
	3/11/2019	<0.000176	<0.000198	<0.000212	<0.000366	--	**--**	--
	10/15/2019	<0.000176	<0.000198	<0.000212	<0.000366	--	**--**	--
	11/16/2020	<0.00038	<0.00041	<0.00050	<0.0016	--	**--**	--

Table 2
Summary of BTEX and TPH Groundwater Analytical Results
San Juan River Gas Plant, Kirtland, New Mexico

Monitoring Well	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)	TPH ORO (mg/L)
NMWQCC Standard (mg/L):		0.01	0.75	0.75	0.62	NE	NE	NE
MW-8	2/10/1998	**0.316**	<0.001	**0.0094**	**0.0284**	--	--	--
	5/12/1998	**0.449**	<0.001	**0.0139**	**0.0629**	--	--	--
	8/7/1998	**0.509**	<0.001	**0.0071**	**0.0429**	--	--	--
	11/4/1998	**0.408**	<0.001	<0.001	**0.0145**	--	--	--
	2/10/1999	**0.261**	<0.001	<0.001	**0.0061**	--	--	--
	5/17/1999	**0.205**	**0.00102**	<0.001	**0.00725**	--	--	--
	8/18/1999	**0.265**	**0.00209**	**0.00106**	**0.0096**	--	--	--
	11/30/1999	**0.26**	<0.002	**0.0021**	**0.0160**	--	--	--
	4/10/2000	**0.2**	**0.0044**	<0.002	**0.0095**	--	--	--
	6/29/2000	**0.024**	<0.002	<0.002	<0.002	--	--	--
	9/29/2000	**0.284**	<0.002	**6.600**	<0.002	--	--	--
	12/21/2000	<0.002	<0.002	<0.002	**0.0067**	--	--	--
	3/27/2001	**0.015**	<0.002	<0.002	<0.002	--	--	--
	6/27/2001	**0.085**	<0.002	<0.002	<0.002	--	--	--
	9/25/2001	**0.03**	**0.0037**	<0.002	<0.002	--	--	--
	10/29/2001	**0.053**	<0.0005	**0.0047**	<0.0005	--	--	--
	1/25/2002	**0.11**	<0.0005	**0.0023**	**0.0098**	--	--	--
	5/23/2002	**0.2**	<0.0025	**0.0079**	**0.017**	--	--	--
	8/15/2002	**0.8**	<0.0005	**0.0044**	**0.0073**	--	--	--
	3/6/2003	**0.3**	**0.0004**	**0.002**	**0.0027**	--	--	--
	5/15/2003	<0.001	<0.001	<0.001	<0.003	--	--	--
	8/26/2003	**0.891**	<0.001	**0.0266**	**0.0131**	--	--	--
	11/25/2003	**0.0819**	<0.001	**0.0023**	**0.0052**	--	--	--
	5/18/2004	<0.001	<0.001	<0.001	<0.003	--	--	--
	8/27/2004	<0.001	<0.001	<0.001	<0.003	--	--	--
	11/17/2004	**0.157**	<0.001	**0.0136**	**0.027**	--	--	--
	2/17/2005	**0.159**	<0.001	**0.0059**	**0.0138**	--	--	--
	5/19/2005	<0.001	**0.0017**	**0.0034**	**0.001 J**	--	--	--
	8/24/2005	<0.001	<0.001	**0.0026**	<0.002	--	--	--
	11/9/2005	**0.164**	**0.00036 J**	**0.011**	**0.03**	--	--	--
	2/20/2006	**0.0852**	<0.001	**0.0083**	**0.0176**	--	--	--
	5/24/2006	**36.300**	<0.001	**0.005**	**0.0097**	--	--	--
	8/10/2006	**0.00057 J**	<0.001	**0.0034**	**0.0064**	--	--	--
	12/27/2006	**0.0256**	<0.001	**0.0046**	**0.009**	--	--	--
	2/27/2007	**0.0281**	<0.001	**0.0055**	**0.0114**	--	--	--
	5/25/2007	**0.0196**	<0.001	**0.005**	**0.0098**	--	--	--
	8/23/2007	<0.005	<0.005	<0.005	<0.010	--	--	--
	11/28/2007	<0.002	<0.002	<0.002	**0.00045 J**	--	--	--
	2/13/2008	**0.006**	<0.002	**0.00071 J**	<0.006	--	--	--
	5/8/2008	<0.001	<0.001	<0.001	<0.002	--	--	--
	8/27/2008	<0.001	<0.001	<0.001	<0.003	--	--	--
	11/18/2008	<0.002	<0.002	<0.002	<0.006	--	--	--
	2/18/2009	**0.00065 J**	<0.001	<0.001	<0.002	--	--	--
	5/5/2009	**0.00024 J**	<0.001	<0.001	<0.002	--	--	--
	8/28/2009	<0.001	<0.001	<0.001	<0.002	--	--	--
	11/4/2009	<0.001	<0.001	<0.001	<0.002	--	--	--
	2/18/2010	<0.001	<0.001	<0.001	<0.002	--	--	--
	5/26/2010	**0.00081 J**	<0.002	<0.002	<0.006	--	--	--
	8/26/2010	<0.002	<0.002	<0.002	<0.006	--	--	--
	11/9/2010	<0.002	<0.002	<0.002	<0.006	--	--	--
	19/12/2013	0.003	<0.00015	<0.00011	<0.00026	--	--	--
	12/18/2014	<0.00008	<0.00015	<0.00011	<0.00026	--	--	--
	12/15/2015	**0.000802 J**	<0.000198	<0.000212	<0.000366	--	--	--
	12/13/2016	**0.00184**	<0.000198	<0.000212	<0.000366	--	--	--
	7/06/2017	**0.000814 J**	<0.000198	<0.000212	<0.000366	<0.05	<0.0989	<0.0989
	11/16/2017	<0.000538	<0.000198	<0.000212	<0.000366	<0.05	**0.125**	<0.0875
	11/12/2018	**0.00141**	<0.000198	<0.000212	<0.000366	--	**--**	--
	3/12/2019	**0.000957 J**	<0.000198	<0.000212	<0.000366	**--**	**--**	--
	10/14/2019	**0.000781 J**	<0.000198	**0.000266 J**	<0.000366	**--**	**--**	--
	11/16/2020	<0.00038	<0.00041	<0.00050	<0.0016	**--**	**--**	--

Table 2
Summary of BTEX and TPH Groundwater Analytical Results
San Juan River Gas Plant, Kirtland, New Mexico

Monitoring Well	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)	TPH ORO (mg/L)
NMWQCC Standard (mg/L):		0.01	0.75	0.75	0.62	NE	NE	NE
MW-9	2/10/1998	0.0731	<0.001	0.0071	0.0075	--	--	--
	5/12/1998	0.0895	<0.001	0.00851	0.00561	--	--	--
	8/7/1998	0.077	<0.001	0.00708	0.005	--	--	--
	11/4/1998	0.0898	<0.001	0.00942	0.0109	--	--	--
	2/10/1999	0.077	<0.001	0.0081	0.006	--	--	--
	5/17/1999	0.0783	<0.001	0.00754	0.00363	--	--	--
	8/18/1999	0.0764	<0.001	0.00721	0.00497	--	--	--
	11/30/1999	0.082	<0.002	0.0075	0.0053	--	--	--
	4/10/2000	0.048	0.0021	0.0047	0.0059	--	--	--
	6/29/2000	0.1	<0.002	0.0092	<0.002	--	--	--
	9/29/2000	0.095	<0.002	0.011	0.009	--	--	--
	12/21/2000	0.086	<0.002	0.0071	0.012	--	--	--
	3/27/2001	0.061	<0.002	0.0057	<0.002	--	--	--
	6/27/2001	0.087	<0.002	0.0077	<0.002	--	--	--
	9/25/2001	0.023	0.002	0.0022	<0.002	--	--	--
	10/29/2001	0.12	<0.0005	0.0024	0.0051	--	--	--
	12/26/2001	0.034	0.0011	0.0099	0.017	--	--	--
	1/25/2002	0.022	<0.0005	0.0044	0.003	--	--	--
	2/21/2002	0.048	<0.0005	0.0074	0.0045	--	--	--
	5/23/2002	0.0014	<0.0005	<0.0005	<0.001	--	--	--
	8/15/2002	0.0117	<0.0005	0.0021	0.0009	--	--	--
	3/6/2003	0.0002	0.0002	<0.001	0.0008	--	--	--
	5/15/2003	<0.001	<0.001	<0.001	<0.003	--	--	--
	8/26/2003	0.0293	<0.001	<0.001	<0.003	--	--	--
	11/25/2003	0.0086	<0.001	0.0011	<0.003	--	--	--
	5/18/2004	0.0152	<0.001	0.0025	<0.003	--	--	--
	8/27/2004	0.0295	<0.001	0.004	0.0018	--	--	--
	11/17/2004	0.0359	<0.001	0.0052	0.0022	--	--	--
	2/17/2005	0.0517	<0.001	0.0083	0.0037	--	--	--
	5/19/2005	0.133	<0.001	0.0289	0.0135	--	--	--
	8/24/2005	0.0565	<0.001	0.0126	0.0049	--	--	--
	11/9/2005	0.076	<0.001	0.0188	0.0069	--	--	--
	2/20/2006	0.0779	<0.001	0.0191	0.0071	--	--	--
	5/24/2006	0.0734	<0.001	0.0177	0.0066	--	--	--
	8/10/2006	0.0887	<0.001	0.0225	0.0093	--	--	--
	12/27/2006	0.0769	<0.001	0.019	0.0063	--	--	--
	2/27/2007	0.0448	<0.001	0.0092	0.0028	--	--	--
	5/25/2007	0.082	<0.001	0.0196	0.0065	--	--	--
	8/23/2007	0.0881	<0.001	0.0212	0.0138	--	--	--
	11/28/2007	0.0909	<0.002	0.0204	0.007	--	--	--
	2/13/2008	0.0844	<0.002	0.0221	0.0092	--	--	--
	5/8/2008	0.0718	<0.001	0.0202	0.008	--	--	--
	8/27/2008	0.0879	<0.001	0.0234	0.0107	--	--	--
	11/18/2008	0.0953	<0.002	0.0228	0.0095	--	--	--
	2/18/2009	0.0913	<0.001	0.0257	0.0095	--	--	--
	5/5/2009	0.0554	0.00042 J	0.0137	0.0068	--	--	--
	8/28/2009	0.0631	<0.001	0.009	0.0046	--	--	--
	11/4/2009	0.0694	<0.001	0.0092	0.0042	--	--	--
	2/18/2010	0.0707	<0.001	0.0097	0.0052	--	--	--
	5/26/2010	0.0918	<0.002	0.0188	0.0109	--	--	--
	8/26/2010	0.0723	<0.002	0.0128	0.0045 J	--	--	--
	11/9/2010	0.0866	0.00066 J	0.0187	0.0099	--	--	--
	2/7/2011	0.0901	<0.002	0.0225	0.0102	--	--	--
	5/16/2011	0.0995	<0.001	0.0307	0.0179	--	--	--
	8/31/2011	0.112	<0.001	0.0356	0.0172	--	--	--
	11/8/2011	0.113	<0.001	0.0376	0.0189	--	--	--
	2/22/2012	0.136	<0.001	0.0462	0.022	--	--	--
	12/19/2013	0.186	0.000246 J	0.0575	0.015	--	--	--
	12/18/2014	0.0461	<0.00015	0.0183	0.0155	--	--	--
	12/15/2015	0.104	0.00023 J	0.0415	0.0142	--	--	--
	12/13/2016	0.097	<0.000198	0.0374	0.0103	--	--	--
	7/06/2017	0.103	<0.000198	0.0429	0.0215	0.638	0.349	<0.0948
	11/16/2017	0.127	<0.000198	0.0397	0.0108	0.613	0.183	<0.085
	11/12/2018	0.124	<0.000198	0.05240	0.0051	--	--	--
	3/12/2019	<0.000176	<0.000198	<0.000212	<0.000366	--	--	--
	10/14/2019	0.130	<0.000198	0.0590	0.0120	--	--	--
	11/16/2020	0.079	<0.00041	0.0410	0.0062 J	--	--	--
	11/16/2020 (duplicate)	0.083	<0.00041	0.0350	0.0052 J	--	--	--

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San Juan River Gas Plant, Kirtland, New Mexico

Monitoring Well	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)	TPH ORO (mg/L)
NMWQCC Standard (mg/L):		0.01	0.75	0.75	0.62	NE	NE	NE
MW-11	7/06/2017	<0.000176	**0.000309 J**	<0.000212	**0.000913 J**	<0.05	**0.129**	**0.229**
	11/16/2017	<0.000176	<0.000198	<0.000212	<0.000366	<0.05	<0.0858	<0.0858
	11/13/2018	<0.000176	<0.000198	<0.000212	<0.000366	--	--	--
	3/11/2019	<0.000176	<0.000198	<0.000212	<0.000366	--	--	--
	10/15/2019	<0.000176	<0.000198	<0.000212	<0.000366	--	--	--
	11/16/2020	**0.0026**	<0.00041	<0.00050	<0.0016	--	--	--
MW-12	7/06/2017	**0.000647 J**	**0.000426 J**	**0.000602 J**	**0.00268**	**0.748**	**0.267**	<0.0989
	11/16/2017	**0.00153**	<0.000198	**0.000617 J**	**0.00729**	**0.292**	**0.271**	<0.0798
	11/13/2018	**0.00323**	<0.000198	<0.000212	<0.000366	**--**	**--**	--
	3/12/2019	**0.000576 J**	<0.000198	<0.000212	<0.000366	**--**	**--**	--
	10/15/2019	**0.000258 J**	<0.000198	<0.000212	<0.000366	**--**	**--**	--
	11/16/2020	<0.00038	<0.00041	<0.00050	<0.0016	**--**	**--**	--
MW-13	7/06/2017	**4.09**	**0.137**	**0.664**	**6.19**	**35.6**	**0.511**	<0.0989
	11/16/2017	**2.22**	<0.00396	**0.369**	**2.03**	**9.22 J**	**0.876**	<0.0813
	11/13/2018	**3.72**	<0.00396	**0.746**	**4.73**	**--**	**--**	--
	3/12/2019	**3.27**	<0.00396	**0.882**	**1.06**	**--**	**--**	--
	10/14/2019	**0.25**	<0.000198	**0.108**	**0.00441**	**--**	**--**	--
	11/16/2020	**2.2**	<0.00041	**0.22**	**0.042 J**	**--**	**--**	--
MW-14	7/06/2017	<0.000176	<0.000198	<0.000212	**0.000529 J**	<0.05	**0.212**	**0.212**
	11/16/2017	<0.000176	<0.000198	<0.000212	<0.000366	<0.05	<0.0827	<0.0827
	11/12/2018	<0.000176	<0.000198	<0.000212	<0.000366	**--**	**--**	--
	3/12/2019	<0.000176	<0.000198	<0.000212	<0.000366	**--**	**--**	--
	10/14/2019	<0.000176	<0.000198	<0.000212	<0.000366	**--**	**--**	--
	11/16/2020	<0.00038	<0.00041	<0.00050	<0.0016	**--**	**--**	--
MW-15	7/07/2017	**4.37**	**0.00162**	**0.159**	**2.17**	**19.1 J**	**0.419**	<0.0989
	11/16/2017	**6.90**	<0.0099	**0.122**	**1.87**	**24.6**	**0.669**	<0.0827
	11/12/2018	**3.50**	<0.00396	**0.0646**	**0.0284 J**	**--**	**--**	--
	3/12/2019	**2.94**	<0.00396	**0.00691 J**	<0.00732	**--**	**--**	--
	10/14/2019	**2.64**	<0.000198	**0.0183**	**0.0351**	**--**	**--**	--
	11/16/2020	**1.1**	<0.00041	**0.035**	**0.017 J**			
MW-16	7/06/2017	**2.07**	**0.000943 J**	**0.442**	**3.96**	**21.7**	**1.02**	<0.0989
	11/16/2017	**1.9**	<0.0099	**0.456**	**2.65**	**19.4**	**3.02**	<0.0875
	11/12/2018	**1.18**	<0.00396	**0.43**	**0.90**	**--**	**--**	--
	3/12/2019	**1.15**	<0.00396	**0.576**	**1.42**	**--**	**--**	--
	10/14/2019	**0.912**	<0.00396	**0.632**	**1.46**	**--**	**--**	--
	11/16/2020	**0.67**	<0.0021	**0.50**	**1.3**	**--**	**--**	--
MW-17	4/15/2019	**3.83**	**0.329**	<0.0053	**3.65**	**--**	**--**	--
	10/15/2019	**9.83**	**1.86**	**0.118**	**7.00**	**--**	**--**	--
	11/16/2020	Insufficient water in well, no sample collected						
MW-18	4/15/2019	<0.000176	<0.000198	<0.000212	<0.000366	**--**	**--**	--
	10/15/2019	**0.000396 J**	<0.000198	<0.000212	<0.000366	**--**	**--**	--
	11/16/2020	<0.00038	<0.00041	<0.00050	<0.0016	**--**	**--**	--
MW-19	3/12/2019	<0.000176	<0.000198	<0.000212	<0.000366	**--**	**--**	--
	10/14/2019	<0.000176	<0.000198	<0.000212	<0.000366	**--**	**--**	--
	11/16/2020	<0.00038	<0.00041	<0.00050	<0.0016	**--**	**--**	--
MW-20	3/12/2019	PSH in well, no sample collected						
	10/15/2019	PSH in well, no sample collected						
	11/16/2020	PSH in well, no sample collected						
MW-21	3/12/2019	**0.307**	**0.186**	**0.0854**	**0.427**	**--**	**--**	--
	10/14/2019	**1.04**	**0.00811**	**0.126**	**0.397**	**--**	**--**	--
	11/16/2020	**0.82**	<0.0021	**0.058**	**0.800**	**--**	**--**	--
MW-22	3/12/2019	Insufficient water in well, no sample collected						
	10/15/2019	Insufficient water in well, no sample collected						
	11/17/2020	<0.00038	<0.00041	<0.00050	<0.0016	**--**	**--**	--
MW-23	4/15/2019	<0.00088	<0.00099	<0.00106	<0.00183	**--**	**--**	--
	10/15/2019	Insufficient water in well, no sample collected						
	11/16/2020	Insufficient water in well, no sample collected						

Table 2
Summary of BTEX and TPH Groundwater Analytical Results
San Juan River Gas Plant, Kirtland, New Mexico

Monitoring Well	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)	TPH ORO (mg/L)
NMWQCC Standard (mg/L):		**0.01**	**0.75**	**0.75**	**0.62**	**NE**	**NE**	**NE**
PMW-1a	7/07/2017	<0.000176	<0.000198	<0.000212	<0.000366	<0.05	**0.376**	**0.194**
	11/17/2017	<0.000176	<0.000198	<0.000212	<0.000366	<0.05	<0.0784	<0.0784
	11/13/2018	<0.000176	<0.000198	<0.000212	**0.00628 J**	--	--	--
	4/16/2019	<0.000176	<0.000198	<0.000212	<0.000366	--	--	--
	10/15/2019	<0.000176	<0.000198	<0.000212	<0.000366	--	--	--
	11/16/2020	Well not accessed or sampled						
PMW-2	7/07/2017	**2.15**	**2.81**	**0.0318**	**1.64**	**17.6**	**1.24**	**0.19**
	11/17/2017	**9.61**	**9.47**	**0.262**	**4.01**	**54.3 J**	**1.19**	<0.0784
	11/13/2018	**2.42**	**5.97**	**0.029 J**	**6.84**	--	--	--
	3/12/2019	**6.92**	**0.0579**	**0.117**	**1.05**	--	--	--
	10/15/2019	**7.82**	**8.36**	**0.149**	**2.93**	--	--	--
	11/16/2020	Well not accessed or sampled						
PMW-4a	7/07/2017	<0.000176	<0.000198	<0.000212	<0.000366	<0.05	0.391	0.283
	11/16/2017	<0.000176	<0.000198	<0.000212	<0.000366	<0.05	<0.0875	<0.0875
	11/13/2018	<0.000176	<0.000198	<0.000212	<0.000366	--	--	--
	4/16/2019	<0.000176	<0.000198	<0.000212	<0.000366	--	--	--
	10/15/2019	<0.000176	<0.000198	<0.000212	<0.000366	--	--	--
	11/16/2020	Well not accessed or sampled						

Notes:
Bold text indicates detected concentration
Highlighted and bold cells indicate concentration exceeding applicable NMWQCC standard
< = not detected above listed method detection limit
-- = sample not collected for listed analyte
DRO = diesel range organics
GRO = gasoline range organics
J = chemical detected at concentration above instrument detection limit but below method detection limit
mg/L = milligrams per liter
NE = not established
ORO = oil range organics
TPH = total petroleum hydrocarbons

Table 3
Summary of Metals and Inorganics Groundwater Analytical Results
San Juan River Gas Plant, Kirtland, New Mexico

Analyte		Dissolved Metals												
		Aluminum	Arsenic	Barium	Boron	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese
NMWQCC Standard (mg/L)		5	0.01	1	0.75	0.01	NE	0.05	0.05	1	1	0.015	NE	0.2
W-2	9/25/2001	4.2	<0.005	0.029	--	<0.004	400	<0.01	<0.05	0.015	4.6	0.08	120	0.23
	8/15/2002	1.13	0.0049	0.0327	--	0.0008	402	0.0056	0.0035	0.116	1.76	0.0031	108	0.216
	8/26/2003	2.07	0.0055	<0.2	--	0.004	349	<0.01	<0.05	0.0428	1.48	<0.003	106	0.0439
	8/27/2004	--	0.005	0.2	--	0.004	--	0.01	--	--	--	0.003	--	--
	8/24/2005	1.24	<0.005	<0.02	--	<0.004	454	<0.01	<0.05	<0.025	1.58	0.009	126	0.163
	10/08/2006	1.54	<0.005	<0.2	--	<0.004	399	<0.01	<0.05	<0.025	1.02	0.0102	111	0.256
	8/23/2007	12.8	<0.005	<0.2	--	<0.004	404	<0.01	<0.05	0.0329	10.3	0.014	133	0.223
	8/27/2008	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/28/2009	21.0	<0.005	<0.2	--	<0.004	356	0.0127	<0.05	0.0272	16.5	0.0089	110	0.268
	8/26/2010	5.18	<0.005	<0.2	--	<0.004	319	<0.01	<0.05	<0.025	4.3	0.0051	103	0.0871
	8/31/2011	6.08	<0.005	<0.2	--	<0.004	330	<0.01	<0.05	<0.025	4.75	0.0141	97.3	0.178
	12/19/2013	5.82	0.00480 J	0.0346	--	0.000900 J	384	0.00810 J	0.00790 J	0.0309	8.29	0.0106	103	0.487
	12/18/2014	<0.0216	<0.00328	0.0131	--	<0.00035	298	0.0036	0.0008	0.0120	<0.0866	<0.0029	86.6	0.005
	12/15/2015	<0.0926	<0.00285	0.0112 J	0.584	0.0004 J	--	0.003 J	0.0068 J	--	0.752	<0.00219	--	1.03
	12/13/2016	<0.0926	<0.00285	0.0078 J	--	0.0006 J	284	<0.00159	<0.00031	0.0092 J	<0.027	<0.00219	84.5	<0.00036
	7/06/2017	<0.0926	<0.00285	0.0107 J	0.580	<0.00028	267	0.002 J	0.000487 J	--	<0.027	<0.00219	82.2	0.00118 J
	11/16/2017	<0.0926	<0.00285	0.0072 J	0.538	0.0005 J	277	0.0029 J	0.0004 J	--	<0.027	<0.00219	82.4	0.0031 J
	11/13/2018	<0.0926	<0.00285	0.0101 J	0.578	0.0006 J	281	0.0031 J	0.0005 J	--	<0.027	<0.00219	85.9	0.0029 J
	3/11/2019	<0.0926	0.003 J	0.011 J	0.554	0.0008 J	--	0.002 J	0.0017 J	--	0.00478 J	<0.00219	--	0.0195
	10/15/2019	<0.0926	<0.00285	0.0111 J	0.558	0.0005 J	--	0.0028 J	<0.00031	--	<0.027	<0.00219	--	0.0011 J
	11/16/2020	0.15 J	<0.0030	0.0094 J	0.600	<0.0010	--	<0.0050	<0.0030	<0.0080	0.19 J	0.0049 J	--	0.0190
MW-4	9/25/2001	9.3	0.22	0.11	--	0.017	210	ND	0.28	0.82	31.0	0.17	81	6.1
	8/15/2002	1.37	0.0207	0.0271	--	0.0012	210	0.0102	0.191	0.158	6.5	0.0113	80.1	6.08
	8/26/2003	5.29	0.0818	0.2	--	0.01	212	0.01	0.156	0.789	12.4	0.0401	88.1	6.88
	8/26/2004	--	0.018	0.20	--	0.004	--	0.01	--	--	--	0.003	--	--
	8/24/2005	<0.2	0.0262	<0.2	--	<0.004	286	<0.01	0.144	0.0629	10.2	0.165	111	8.78
	8/10/2006	0.416	0.0636	<0.2	--	<0.004	245	<0.01	0.103	0.0567	31.8	0.051	95.3	5.8
	8/23/2007	9.29	0.0211	<0.2	--	<0.004	249	<0.01	0.0883	0.0683	21.7	0.014	108	6.59
	8/27/2008	9.81	0.0342	<0.2	--	<0.004	267	<0.01	0.094	0.15	17.7	0.0512	113	7.19
	8/28/2009	1.0	0.0125	<0.2	--	<0.004	234	<0.01	0.0752	0.0334	8.16	0.014	101	6.4
	8/26/2010	3.31	0.0175	<0.2	--	<0.004	228	<0.01	0.0576	0.0589	9.93	0.0195	100	5.97
	8/31/2011	1.38	0.0082	<0.2	--	<0.004	263	<0.01	0.0536	0.0268	5.38	0.0128	105	5.03
	12/19/2013	0.702	0.101	0.0327	--	0.00150 J	323	0.00310 J	0.201	0.0913	24.90	0.016	123	8.77
	12/18/2014	<0.0216	0.008	0.0335	--	<0.00035	276	0.00240	0.0452	0.0072	5.86	<0.0029	113	5.95
	12/15/2015	0.403 J	<0.00285	0.01 J	0.778	0.0009 J	--	0.0024 J	0.0426	--	3.65	<0.00219	--	5.81
	12/13/2016	<0.0926	<0.00285	0.0074 J	--	0.0008 J	280	<0.00159	0.0334	0.003 J	5.09	<0.00219	116	6.31

Table 3
Summary of Metals and Inorganics Groundwater Analytical Results
San Juan River Gas Plant, Kirtland, New Mexico

Analyte		Dissolved Metals												
		Aluminum	Arsenic	Barium	Boron	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese
NMWQCC Standard (mg/L)		5	0.01	1	0.75	0.01	NE	0.05	0.05	1	1	0.015	NE	0.2
MW-4	7/06/2017	<0.0926	<0.00287	0.00916 J	0.870	<0.00028	274	<0.00159	0.0448	--	3.84	<0.00219	118	5.28
	11/16/2017	<0.0926	0.0035 J	0.0084 J	0.751	<0.00028	273	0.0034 J	0.026	--	5.05	<0.00219	115	6.52
	11/13/2018	<0.0926	0.0047 J	0.0091 J	0.788	0.0007 J	289	<0.00159	0.029	--	5.58	<0.00219	127	6.81
	3/11/2019	<0.0926	0.0188	0.0096 J	0.744	0.0096	--	0.0032 J	0.0896	--	1.72	<0.0149	--	4.98
	10/15/2019	<0.0926	<0.00285	0.0105 J	0.742	0.0006 J	--	<0.00159	0.0507	--	2.22	<0.00219	--	3.94
	11/16/2020	<0.051	<0.0030	0.0072 J	0.720	<0.0010	--	<0.0050	0.0630	<0.0080	2.0	0.0033 J	--	6.9
MW-6	9/25/2001	22.0	<0.005	0.015	--	0.012	400	<0.01	0.26	0.046	2.9	0.25	420	9.6
	8/15/2002	13.6	0.0078	0.0139	--	0.0109	388	0.0303	0.202	0.0434	0.986	0.005	316	6.55
	8/26/2003	24.5	0.005	0.2	--	0.0133	343	0.01	0.236	0.0807	5.51	0.0039	360	8.63
	8/27/2004	--	0.005	0.2	--	0.0102	--	0.01	--	--	--	0.003	--	--
	8/24/2005	14.5	<0.005	<0.2	--	0.0114	447	<0.01	0.219	0.0378	0.427	0.0103	376	8.25
	8/10/2006	6.45	<0.005	<0.2	--	0.0068	389	<0.01	0.123	<0.025	0.296	0.0076	273	4.82
	8/23/2007	12.6	<0.005	<0.2	--	0.0081	325	<0.01	0.161	0.0387	3.78	0.011	356	5.88
	8/27/2008	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/28/2009	16.8	<0.005	<0.2	--	0.0095	359	<0.01	0.176	0.0383	3.44	0.0044	315	6.83
	8/26/2010	19.2	<0.005	<0.2	--	0.0114	331	<0.01	0.199	0.042	4.6	0.0151	326	7.2
	8/31/2011	16.3	<0.005	<0.2	--	0.0131	350	<0.01	0.227	0.0479	1.04	0.0187	326	8.06
	12/19/2013	14.8	<0.00328	0.0108 J	--	0.0116	389	<0.00155	0.238	0.045	0.418	<0.00290	318	6.92
	12/18/2014	6.99	<0.00328	0.0100	--	0.00730	393	0.00180	0.128	0.0541	<0.0866	<0.0029	285	4.40
	12/15/2015	12.3	<0.00285	0.0103 J	0.737	0.0103	--	0.0018 J	0.196	--	0.148 J	<0.00219	--	5.95
	12/13/2016	15.1	<0.00285	0.0055 J	--	0.0123	386	<0.00159	0.228	0.0657	0.0696 J	<0.00219	320	6.7
	7/06/2017	14.6	<0.00285	0.00722 J	0.851	0.00887	336	<0.00159	0.192	--	<0.027	<0.00219	299	6.54
	11/16/2017	14.2	<0.00285	0.0055 J	0.748	0.0116	364	0.0025 J	0.203	--	0.139 J	0.0032 J	292	5.94
	11/12/2018	17.1	0.0114	0.0078 J	0.872	0.0194	387	<0.00159	0.278	--	0.518	0.0056 J	349	8.19
	3/11/2019	17.5	<0.00285	0.0087 J	0.775	0.0125	--	<0.00159	0.259	--	0.414	<0.00219	--	7.51
	10/15/2019	16.5	<0.00285	0.0111 J	0.761	0.0112	--	<0.00159	0.236	--	0.386 J	<0.00219	--	6.84
	11/16/2020	17.0	<0.0030	0.0060 J	0.80	0.012	--	<0.0050	0.28	0.0280	0.200	0.0082 J	--	7.6
MW-8	11/30/1999	--	--	--	--	--	--	--	--	--	0.16	--	--	4.3
	4/10/2000	--	--	--	--	--	--	--	--	--	1.8	--	--	2.4
	6/29/2000	--	--	--	--	--	--	--	--	--	0.32	--	--	3.6
	9/29/2000	--	--	--	--	--	--	--	--	--	0.32	--	--	1.6
	12/21/2000	--	--	--	--	--	--	--	--	--	0.16	--	--	0.011
	3/27/2001	--	--	--	--	--	--	--	--	--	1.1	--	--	1.0
	6/27/2001	--	--	--	--	--	--	--	--	--	1.1	--	--	2.9
	9/25/2001	0.24	<0.005	0.019	--	<0.004	370	<0.01	<0.05	<0.025	2.5	0.25	370	0.52
	10/29/2001	--	--	--	--	--	310	--	--	--	0.87	--	280	7.5

Table 3
Summary of Metals and Inorganics Groundwater Analytical Results
San Juan River Gas Plant, Kirtland, New Mexico

Analyte		Dissolved Metals												
		Aluminum	Arsenic	Barium	Boron	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese
NMWQCC Standard (mg/L)		5	0.01	1	0.75	0.01	NE	0.05	0.05	1	1	0.015	NE	0.2
MW-8	**8/15/2002**	**0.508**	**0.0238**	**0.029**	--	**0.002**	**67.2**	**1.08**	**0.007**	**0.014**	**6.89**	**0.005**	**465**	**0.162**
	8/26/2003	**1.62**	**0.008**	**0.2**	--	**0.004**	**354**	**0.01**	**0.05**	**0.0414**	**2.39**	**0.003**	**370**	**1.46**
	8/27/2004	--	**0.0207**	**0.2**	--	**0.004**	--	**0.01**	--	--	--	**0.0074**	--	--
	8/24/2005	**0.634**	**0.0062**	<0.2	--	<0.004	**155**	<0.01	<0.05	<0.025	**0.831**	**0.0069**	**274**	**1.23**
	8/10/2006	**0.219**	**0.0074**	<0.2	--	<0.004	**91.6**	<0.01	<0.05	<0.025	<0.1	**0.0051**	**216**	**1.04**
	8/23/2007	**1.3**	<0.005	<0.2	--	<0.004	**69.5**	<0.01	<0.05	<0.025	**0.855**	**0.0048**	**288**	**0.59**
	8/27/2008	**3.26**	**0.0055**	<0.2	--	<0.004	**101**	<0.01	<0.05	<0.025	**1.97**	**0.0043**	**264**	**0.557**
	8/28/2009	**5.34**	**0.0122**	<0.2	--	<0.004	**34.3**	**0.013**	<0.05	<0.025	**3.07**	**0.0039**	**373**	**0.869**
	8/26/2010	**5.21**	**0.03**	<0.2	--	<0.004	**36.2**	**0.018**	<0.05	<0.025	**3.83**	**0.0087**	**36.8**	**0.367**
	12/19/2013	**0.651**	<0.00328	**0.0414**	--	<0.00035	**57.3**	<0.00155	**0.0017 J**	**0.0102**	**0.65**	<0.0029	**166**	**0.351**
	12/18/2014	<0.0216	**0.0051**	**0.0322**	--	<0.00035	**63.1**	**0.0017**	<0.00063	**0.0137**	<0.0866	<0.0029	**114**	**0.0165**
	12/15/2015	<0.0926	**0.0037 J**	**0.0666**	**0.236**	**0.0003 J**	--	<0.00159	**0.0025 J**	--	**5.02**	<0.00219	--	**2.06**
	12/13/2016	**0.348 J**	<0.00285	**0.0555**	**--**	**0.0005 J**	**73.5**	<0.00159	**0.0012 J**	**0.0017 J**	**2.35 J**	<0.00219	**79.4**	**0.966**
	7/6/2017	**0.381 J**	<0.00285	**0.0508**	**0.21**	<0.00028	**87.7**	<0.00159	**0.00126 J**	--	**6.81**	<0.00219	**71.5**	**0.924**
	11/16/2017	**6.96**	<0.00285	**0.0549**	**0.201**	**0.0003 J**	**74.9**	**0.004 J**	**0.0018 J**	--	**8.83**	**0.0113**	**82.8**	**0.496**
	11/12/2018	<0.0926	<0.00285	**0.0254**	**0.28**	**0.0021 J**	**70.5**	<0.00159	**0.0028 J**	--	**2.01**	<0.00219	**106**	**0.217**
	3/12/2019	**0.198 J**	<0.00285	**0.0263**	**0.286**	**0.0005 J**	**--**	<0.00159	**0.0008 J**	--	**2.06**	<0.00219	**--**	**0.194**
	10/14/2019	**4.85**	0.0038 J	**0.0377**	**0.298**	**0.0009 J**	**--**	**0.0023 J**	**0.0041 J**	**--**	**4.89**	<0.00219	**--**	**0.497**
	11/16/2020	<0.051	**0.0054 J**	**0.025**	**0.33**	<0.0010	**--**	<0.0050	<0.0030	<0.0080	**2.2**	0.0028 J	**--**	**0.13**
MW-9	**11/30/1999**	--	--	--	--	--	--	--	--	--	**2.2**	--	--	**8.8**
	4/10/2000	--	--	--	--	--	--	--	--	--	**2.7**	--	--	**9.2**
	6/29/2000	--	--	--	--	--	--	--	--	--	**0.85**	--	--	**8.5**
	9/29/2000	--	--	--	--	--	--	--	--	--	**1.2**	--	--	**8.4**
	12/21/2000	--	--	--	--	--	--	--	--	--	--	--	--	**0.1**
	3/27/2001	--	--	--	--	--	--	--	--	--	**1.4**	--	--	**9.0**
	6/27/2001	--	--	--	--	--	--	--	--	--	**3.7**	--	--	**9.3**
	9/25/2001	**7.0**	<0.005	**0.0088**	--	<0.004	**340**	<0.01	**0.18**	**0.031**	**3.3**	**0.2**	**310**	**8.3**
	10/29/2001	--	--	--	--	--	**310**	--	--	--	**0.13**	--	**270**	**0.54**
	8/15/2002	**8.9**	**0.0088**	**0.0119**	--	**0.0084**	**358**	**0.0078**	**0.183**	**0.0512**	**0.849**	**0.005**	**258**	**6.47**
	8/26/2003	**43.9**	**0.0061**	**0.2**	--	**0.0094**	**319**	**0.0169**	**0.2**	**0.162**	**29.0**	**0.0135**	**270**	**7.33**
	8/27/2004	--	**0.005**	**0.2**	--	**0.0081**	--	**0.0104**	--	--	--	**0.007**	--	--
	8/24/2005	**13.6**	<0.005	<0.2	--	**0.0089**	**385**	<0.01	**0.212**	**0.059**	**4.39**	**0.0111**	**282**	**7.87**
	8/10/2006	**9.77**	<0.005	<0.2	--	**0.0082**	**346**	<0.01	**0.193**	**0.0458**	**1.48**	**0.0087**	**244**	**7.36**

Table 3
Summary of Metals and Inorganics Groundwater Analytical Results
San Juan River Gas Plant, Kirtland, New Mexico

Analyte		Dissolved Metals												
		Aluminum	Arsenic	Barium	Boron	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese
NMWQCC Standard (mg/L)		5	0.01	1	0.75	0.01	NE	0.05	0.05	1	1	0.015	NE	0.2
MW-9	8/23/2007	16.3	<0.005	<0.2	--	<0.004	108	<0.01	0.205	0.121	6.33	0.0084	289	6.42
	8/27/2008	14.5	<0.005	<0.2	--	0.0085	361	<0.01	0.197	0.0629	3.66	0.0051	276	7.77
	8/28/2009	14.7	<0.005	<0.2	--	0.0063	314	<0.01	0.228	0.043	8.93	0.0065	245	8.3
	8/26/2010	11.1	<0.005	<0.2	--	0.0061	300	<0.01	0.235	0.0335	7.4	0.014	244	7.9
	8/31/2011	14.0	<0.005	<0.2	--	0.0082	318	<0.01	0.187	0.0682	7.83	0.0239	217	6.79
	12/19/2013	11.6	<0.00328	0.0098 J	--	0.009	375	0.0017 J	0.216	0.0895	7.75	<0.00290	225	6.59
	12/18/2014	9.64	<0.00328	0.0191	--	0.00940	352	0.00450	0.228	0.1600	18.50	0.004	234	7.31
	12/15/2015	9.03	<0.00285	0.021	0.679	0.0069	--	0.0029 J	0.185	--	19.6	<0.00219	--	6.2
	12/13/2016	15.5	<0.00285	0.0134 J	--	0.0084	379	0.0023 J	0.224	0.0803	31.4	<0.00219	239	7.1
	7/06/2017	11.3	<0.00285	0.00973 J	0.811	0.00577	316	<0.00159	0.232	--	31.6	<0.00219	212	6.62
	11/16/2017	11.3	<0.00285	0.0077 J	0.719	0.0075	339	0.0034 J	0.266	--	27.9	<0.00219	216	6.73
	11/12/2018	11.9	<0.00285	0.0099 J	0.758	0.0096	373	<0.00159	0.245	--	10.6	<0.00219	238	7.01
	3/12/2019	10.4	<0.00285	0.0094 J	0.726	0.0092	--	<0.00159	0.271	--	1.32	<0.00219	--	7.58
	10/14/2019	9.8	<0.00285	0.0097 J	0.714	0.0072	--	0.0016 J	0.242	--	34.3	<0.00219	--	7.08
	11/16/2020	9.2	<0.0030	0.0087 J	0.70	0.0063	--	<0.0050	0.25	0.026	16	0.00599 J	--	7.2
	11/16/2020 (duplicate)	9.0	<0.0030	0.0091 J	0.68	0.0060	--	<0.0050	0.25	0.025	16	0.0048 J	--	6.7
MW-11	7/06/2017	<0.0926	<0.00285	0.0183 J	0.375	<0.00028	452	<0.00159	0.00393 J	--	<0.027	<0.00219	136	1.23
	11/16/2017	<0.0926	<0.00285	0.014 J	0.335	0.0005 J	447	0.0019 J	0.0012 J	--	<0.027	<0.00219	124	0.951
	11/13/2018	<0.0926	<0.00285	0.0182 J	0.379	0.0008 J	509	<0.00159	0.0008 J	--	0.0631 J	<0.00219	140	0.125
	3/11/2019	0.14 J	0.0035 J	0.0201	0.357	0.0011 J	--	<0.00159	0.0008 J	--	0.152 J	<0.0036	--	1.49
	10/15/2019	<0.0926	<0.00285	0.0178 J	0.348	0.0008 J	--	<0.00159	<0.00031	--	0.0852 J	<0.00219	--	0.63
	11/16/2020	<0.051	<0.0030	0.018	0.38	<0.0010	--	<0.0050	0.0043 J	<0.0080	1.0	0.0063 J	--	2.3
MW-12	7/06/2017	<0.0926	0.00285	0.0194	0.4	<0.00028	461	<0.00159	0.0301	--	3.15	<0.00219	107	5.94
	11/16/2017	<0.0926	<0.00285	0.0105 J	0.332	0.0004 J	488	0.0028 J	0.0203	--	0.881	<0.00219	108	5.91
	11/13/2018	<0.0926	<0.002825	0.0187 J	0.385	0.0009 J	424	<0.00159	0.0122	--	26.60	<0.00219	99	5.79
	3/12/2019	<0.0926	<0.00285	0.014 J	0.339	0.0007 J	--	<0.00159	0.0217	--	1.06	<0.00219	--	6.53
	10/15/2019	<0.0926	<0.00285	0.0161 J	0.341	0.0007 J	--	<0.00159	0.0108	--	2.19	<0.00219	--	6.04
	11/16/2020	<0.051	<0.0030	0.014	0.36	<0.0010	--	<0.0050	0.0089 J	<0.0080	2.0	0.0051 J	--	5.30
MW-13	7/06/2017	<0.0926	0.0405	0.0443	0.747	<0.00028	227	0.00239 J	0.00428 J	--	7.34	<0.00219	75	2.39
	11/16/2017	<0.0926	0.0231	0.0247	0.429	0.0008 J	332	0.0046 J	0.003 J	--	8.72	<0.00219	115	3.56
	11/13/2018	<0.0926	<0.00285	0.0242	0.33	0.001 J	331	0.0016 J	0.0005 J	--	14.7	<0.00219	125	3.95
	3/12/2019	<0.0926	<0.00285	0.0231	0.248	0.0009 J	--	0.0019 J	0.002 J	--	23.8	<0.00219	--	5.15
	10/14/2019	<0.0926	<0.00285	0.0169 J	0.148 J	0.0007 J	--	<0.00159	<0.00031	--	9.5	0.0029 J	--	6.18
	11/16/2020	<0.051	0.0034 J	0.019	0.27	<0.0010	--	<0.0050	<0.0030	<0.0080	6.0	0.0037 J	--	3.2

Table 3
Summary of Metals and Inorganics Groundwater Analytical Results
San Juan River Gas Plant, Kirtland, New Mexico

Analyte		Dissolved Metals												
		Aluminum	Arsenic	Barium	Boron	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese
NMWQCC Standard (mg/L)		5	0.01	1	0.75	0.01	NE	0.05	0.05	1	1	0.015	NE	0.2
MW-14	7/06/2017	<0.0926	<0.00285	0.0114 J	0.689	<0.00193	392	<0.00159	0.00813 J	--	<0.027	<0.00219	244	8.82
	11/16/2017	0.349 J	<0.00285	0.0076 J	0.682	0.0024 J	391	0.003 J	0.0034 J	--	0.212 J	<0.00219	245	7.41
	11/12/2018	<0.00926	<0.00285	0.0086 J	0.703	0.0017 J	429	<0.00159	0.0018 J	--	0.00602 J	<0.00219	285	7.94
	3/12/2019	<0.00926	0.0157	0.0089 J	0.611	0.0137	--	0.0027 J	0.0243	--	0.145 J	0.0155	--	8.26
	10/14/2019	<0.00926	<0.00285	<0.0084	0.699	0.002 J	--	0.0016 J	0.0015 J	--	0.289 J	<0.00219	--	8.48
	11/16/2020	<0.051	<0.0030	0.0092 J	0.67	<0.0010	--	<0.0050	<0.0030	<0.0080	0.56	0.0059 J	--	12
MW-15	7/07/2017	<0.0926	0.003 J	0.0288	0.702	<0.0012	468	0.0025 J	0.0108	--	4.88	<0.00219	99.9	3.16
	11/16/2017	<0.0926	<0.00285	0.011 J	0.733	0.0006 J	448	0.0031 J	0.0053 J	--	8.99	<0.00219	99.4	3.92
	11/12/2018	<0.00285	<0.00285	0.0095 J	0.8	0.0009 J	458	<0.00159	0.0022 J	--	7.12	<0.00219	100	3.23
	3/12/2019	<0.0926	<0.00285	0.0088 J	0.768	0.0004 J	--	0.00159 J	0.0017 J	--	6.33	<0.00219	--	3.51
	10/14/2019	<0.0926	<0.00285	0.0094 J	0.76	0.001 J	--	<0.00159	0.001 J	--	6.75	<0.00219	--	3.52
	11/16/2020	<0.051	0.0035 J	0.0092 J	0.75	<0.0010	--	<0.0050	<0.0030	<0.0080	5.7	0.0045 J	--	3.7
MW-16	7/06/2017	0.107 J	0.0273	0.0466	1.03	<0.00028	244	<0.00159	0.000775 J	--	0.483	<0.00219	40.6	0.646
	11/16/2017	<0.0926	0.0171	0.0179 J	1.01	0.0004 J	222	0.002 J	<0.00031	--	0.0723 J	<0.00219	39.2	0.248
	11/12/2018	<0.0926	<0.00285	0.0214	1.15	0.0006 J	93.3	<0.00159	<0.00031	--	<0.027	<0.00219	24.3	0.0056 J
	3/12/2019	<0.0926	<0.00285	0.243	1	0.0006 J	--	<0.00159	0.0004 J	--	0.0428 J	<0.00219	--	0.21
	10/14/2019	<0.0926	<0.00285	0.0203	0.939	0.0011 J	--	<0.00159	<0.00031	--	0.0856 J	<0.00219	--	0.0163
	11/16/2020	<0.0051	0.0050 J	0.015	0.86	<0.0010	--	<0.0050	<0.0030	<0.0080	<0.075	0.0043 J	--	0.022
MW-17	4/15/2019	Insufficient water in well, no sample collected												
	10/15/2019	Insufficient water in well, no sample collected												
	11/16/2020	Insufficient water in well, no sample collected												
MW-18	4/15/2019	0.221 J	<0.00285	0.0254	0.882	0.013 J+	--	0.0023 J	0.128	--	0.0822 J	<0.00219	--	11.3
	10/15/2019	0.741	<0.00285	0.0179 J	0.887	0.0031 J	--	0.0017 J	0.133	--	5.47	0.0023 J	--	12.1
	11/16/2020	0.46	<0.0030	0.011	0.95	0.0015 J	--	<0.0050	0.14	<0.0080	6.6	0.0075 J	--	12
MW-19	3/12/2019	<0.0926	<0.00285	0.0088 J	0.798	0.0126	--	<0.00159	0.0703	--	<0.027	<0.00219	--	11.1
	10/14/2019	<0.0926	<0.00285	<0.0089	0.78	0.0113	--	0.0019 J	0.066	--	0.0789 J	<0.00219	--	10.8 J
	11/16/2020	0.059 J	<0.0030	0.011	0.78	0.010	--	<0.0050	0.065	<0.0080	<0.075	0.0054 J	--	10
MW-20	3/12/2019	PSH in well, no sample collected												
	10/14/2019	PSH in well, no sample collected												
	11/16/2020	PSH in well, no sample collected												
MW-21	3/12/2019	<0.0926	<0.00285	0.0302	0.594	0.0005 J	--	<0.00159	0.0052 J	--	1.50	<0.00219	--	0.950
	10/14/2019	<0.0926	<0.00285	0.0163 J	0.853	0.0009 J	--	<0.00159	<0.00031	--	11	<0.00219	--	4.45
	11/16/2020	0.071 J	<0.0030	0.012	0.95	<0.0010	--	<0.0050	<0.0030	<0.0080	0.73	0.0066 J	--	4.1
MW-22	3/12/2019	Insufficient water in well, no sample collected												
	10/14/2019	Insufficient water in well, no sample collected												
	11/16/2020	Insufficient water in well, no sample collected												

Table 3
Summary of Metals and Inorganics Groundwater Analytical Results
San Juan River Gas Plant, Kirtland, New Mexico

Analyte		Dissolved Metals												
		Aluminum	Arsenic	Barium	Boron	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese
NMWQCC Standard (mg/L)		5	0.01	1	0.75	0.01	NE	0.05	0.05	1	1	0.015	NE	0.2
MW-23	**3/12/2019**	**Insufficient water in well, no sample collected**												
	10/14/2019	**Insufficient water in well, no sample collected**												
	11/16/2020	**Insufficient water in well, no sample collected**												
PMW-1a	**7/07/2017**	<0.0926	**0.0063 J**	**0.017 J**	**0.475**	<0.00028	**156**	<0.00159	<0.0006	--	<0.0655	<0.00219	**15.4**	**0.139**
	11/17/2017	<0.0926	<0.00285	**0.007 J**	**0.441**	<0.00028	**158**	<0.00159	**0.0004 J**	--	<0.027	<0.00219	**14.1**	**0.114**
	11/13/2018	<0.0926	<0.00285	**0.012 J**	**0.457**	**0.0003 J**	**164**	<0.00159	<0.00031	--	**0.102 J**	<0.00219	**15.1**	**0.129**
	4/16/2019	**0.37 J**	<0.00285	**0.0131 J**	**0.467**	**0.0004 J**	**--**	--	**0.0013 J**	--	**0.313 J**	<0.00219	**--**	**0.285**
	10/15/2019	<0.0926	<0.00285	**0.0303**	**0.434**	**<0.00028**	**--**	<0.00159	<0.00031	--	<0.027	<0.00219	**--**	**0.0487**
	11/16/2020	**Well not accessed or sampled**												
PMW-2	**7/07/2017**	<0.0926	<0.057	**0.118**	**0.892**	<0.0005	**62.1**	<0.00159	<0.0012	--	<0.0795	<0.00219	**8.7**	**0.337**
	11/17/2017	<0.0926	<0.00285	**0.243**	**0.976**	<0.00028	**38.4**	<0.00159	<0.00031	--	<0.027	<0.00219	**5.72**	**0.0711**
	11/13/2018	<0.0926	<0.00285	**0.0712**	**0.894**	**0.0003 J**	**88.7**	<0.00159	**0.0006 J**	--	**2.05**	<0.00219	**11.1**	**0.387**
	3/12/2019	<0.0926	<0.00285	**0.227**	**0.965**	<0.00028	**--**	<0.00159	**0.0004 J**	--	**0.0359 J**	<0.00219	**--**	**0.128**
	10/15/2019	**0.326 J**	<0.00285	**0.178**	**0.97**	<0.00028	**--**	<0.00159	<0.00031	--	**0.368 J**	<0.00219	**--**	**0.111**
	11/16/2020	**Well not accessed or sampled**												
PMW-4a	**7/07/2017**	**0.26 J**	<0.00285	**0.0167 J**	**0.622**	<0.00028	**253**	<0.00159	**0.0052 J**	--	<0.027	<0.00219	**23.9**	**0.698**
	11/16/2017	<0.0926	<0.00285	**0.0113 J**	**0.417**	**0.0004 J**	**236**	**0.0016 J**	**0.0031 J**	--	**0.0643 J**	<0.00219	**21.3**	**0.722**
	11/13/2018	<0.0926	<0.00285	**0.0178 J**	**0.458**	**0.0006 J**	**269**	<0.00159	**0.0047 J**	--	<0.027	<0.00219	**24.6**	**1.02**
	4/16/2018	**0.558**	<0.00285	**0.0183 J**	**0.439**	**0.0005 J**	**--**	--	**0.0037 J**	--	**0.419**	<0.00219	**--**	**0.734**
	10/15/2019	**0.118 J**	<0.00285	**0.0177 J**	**0.418**	<0.00028	**--**	<0.00159		--	**0.116 J**	<0.00219	**--**	**0.791**
	11/16/2020	**Well not accessed or sampled**												

Notes:

Historical data for wells abandoned prior to 2017 has been removed from the Table.

-- = not analyzed for the listed analyte

Bold text indicates detected concentration

Highlighted and bold cells indicate concentration exceeding NMWQCC standard

J = analyte was positively identified and the quantitation is an estimation.

J- = analyte was positively identified and the quantitation is an estimation with a potentially low bias.

J+ = analyte was positively identified and the quantitation is an estimation with a potentially high bias.

mg/L = milligram(s)s per liter

< or ND = not detected above method detection limit

NE = Not Established

NMWQCC = New Mexico Water Quality Control Commision

Table 3
Summary of Metals and Inorganics Groundwater Analytical Results
San Juan River Gas Plant, Kirtland, New Mexico

Analyte		Dissolved Metals								Inorganics				
		Mercury	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Zinc	Alkalinity	Chloride	Nitrate	Sulfate	TDS
NMWQCC Standard (mg/L)		0.002	1	0.2	NE	0.05	0.05	NE	10	NE	250	10	600	1000
W-2	**9/25/2001**	--	<0.01	<0.04	**4.7**	**0.12**	<0.01	**1200**	<0.02	--	**300**	**25**	**3600**	**5800**
	8/15/2002	**0.00012**	**0.0028**	**0.0075**	**13.40**	**0.108**	**0.0028**	**1350**	**0.0733**	**170**	**296**	--	**3380**	**5690**
	8/26/2003	<0.0002	<0.01	<0.04	<5	**0.0896**	<0.01	**1030**	**0.0581**	**196**	**309**	**21.8**	**3630**	**5880**
	8/27/2004	**0.0002**	--	--	--	**0.115**	**0.01**	--	--	**180**	**431**	**25.2**	**3160**	**6170**
	8/24/2005	<0.0002	<0.01	<0.04	**5.84**	**0.124**	<0.01	**1400**	**0.459**	**138**	**265**	**17**	**3170**	**5730**
	10/08/2006	<0.0002	<0.01	<0.04	**5.63**	**0.136**	<0.01	**1150**	**0.148**	**163**	**162**	**18**	**3420**	**4920**
	8/23/2007	<0.0002	<0.01	<0.04	**8.88**	**0.143**	<0.01	**1120**	**0.169**	**165**	**338**	**18**	**3410**	**5710**
	8/27/2008	--	--	--	--	--	--	--	--	**178**	**308**	**17.2**	**3320**	**4920**
	8/28/2009	--	<0.01	<0.04	**10.2**	**0.132**	<0.01	**1130**	**0.0981**	**174**	**795**	**17.7**	**3000**	**5870**
	8/26/2010	<0.0002	<0.01	<0.04	**5.29**	**0.111**	<0.01	**1160**	**0.0344**	**198**	**290**	**19.5**	**3200**	**5970**
	8/31/2011	<0.0002	<0.01	<0.04	<5.0	**0.122**	<0.01	**1200**	**0.0552**	**176**	**318**	**16.7**	**1530**	**5860**
	12/19/2013	<0.000082	<0.00273	**0.00900 J**	**4.02**	**0.0978**	**0.00130 J**	**1260**	**0.156**	**203**	**275**	**19.7**	**3330**	**5460**
	12/18/2014	--	**0.00273**	<0.0022	**3.35**	**0.0908**	<0.00125	**1030**	**0.011**	**215**	**234**	**20.9**	**3170**	**5390**
	12/15/2015	<0.082	**0.003 J**	**0.0279**	--	**0.0762**	--	--	--	**197**	**245**	**33.4**	**3280**	**5000**
	12/13/2016	<0.000082	<0.0029	<0.0008	**3.17**	**0.0778**	<0.00129	**1170**	**0.0141 J**	**169 J**	**206**	**9.59**	**3290**	**4860**
	7/06/2017	<0.000082	<0.00487	<0.000966	**3.09**	**0.1120**	--	**1080**	--	**181**	**238**	**10.7**	**2960**	**4760**
	11/16/2017	<0.000082	**0.0032 J**	**0.0017 J**	**3.19**	**0.0803**	--	**1120**	--	**178**	**362**	**12**	**4080**	**5240**
	11/13/2018	<0.000103	**0.0026 J**	**0.009 J**	**2.89**	**0.0954**	--	**909**	--	**193**	**428**	**10.7**	**4330**	**4420**
	3/11/2019	<0.000103	<0.0044	**0.0052 J**	**--**	**0.0824**	--	--	--	**203**	**200**	**18.5**	**3150**	**4160**
	10/15/2019	<0.000103	**0.0029 J**	**0.0013 J**	**--**	**0.0652**	--	--	--	**196**	**191**	**23.6 J**	**2790**	**4940**
	11/16/2020	**0.000070 J**	<0.0040	**<0.0030**	**--**	**0.0280**	<0.0010	**--**	<0.0080	**270**	**250**	**18 J-**	**3200**	**5100**
MW-4	**9/25/2001**	--	ND	**0.33**	**7.3**	<0.005	<0.01	**920**	**4.2**	--	**330**	--	**2000**	**3920**
	8/15/2002	**0.00061**	**0.0027**	**0.261**	**8.99**	**0.0034**	**0.0017**	**1040**	**0.241**	**874**	**234**	--	**1790**	**4060**
	8/26/2003	**0.0035**	**0.01**	**0.251**	**9.39**	**0.005**	**0.01**	**802**	**1.55**	**446**	**303**	**4**	**2090**	**4540**
	8/26/2004	0.003	--	--	--	0.005	0.01	--	--	**888**	**453**	**10**	**2000**	**4410**
	8/24/2005	**0.00026**	<0.01	**0.26**	**9.62**	**0.0058**	<0.01	**1190**	**0.159**	**650**	**321**	**0.5**	**2010**	**4330**
	8/10/2006	**0.00021**	<0.01	**0.182**	**8.77**	<0.005	<0.01	**1050**	**0.2**	**870**	**385**	**0.2**	**2250**	**3840**
	8/23/2007	**0.00042**	<0.01	**0.268**	**10.1**	<0.005	<0.01	**910**	**0.11**	**820**	**303**	**2.1**	**2000**	**4460**
	8/27/2008	<0.0002	<0.01	**0.229**	**13.1**	<0.005	<0.01	**1020**	**0.05**	**916**	**16.9**	**0.39**	**2150**	**4120**
	8/28/2009	--	<0.01	**0.199**	**8.13**	<0.005	<0.01	**1020**	<0.02	**428**	**373**	**0.64**	**2230**	**4820**
	8/26/2010	**0.00068**	<0.01	**0.203**	**7.86**	**0.0076**	<0.01	**1050**	**0.0287**	**856**	**345**	**0.54**	**2150**	**4810**
	8/31/2011	**0.00031**	<0.01	**238**	**6.75**	<0.005	<0.01	**1130**	<0.02	**34**	**1240**	**0.14**	**2140**	**4210**
	12/19/2013	<0.000082	**0.179**	**0.358**	**8.09**	**0.00860 J**	<0.00125	**1310**	**0.157**	**765**	**377**	**0.695**	**2640**	**5330**
	12/18/2014	--	<0.00273	**0.183**	**6.1**	<0.00417	**0.0016**	**1060**	**0.0091**	**908**	**380**	**0.0986**	**2670**	**5450**
	12/15/2015	<0.082	**0.001 J**	**0.186**	--	**0.0255 J**	--	--	--	**831**	**390**	**0.0985**	**2720**	**5190**
	12/13/2016	<0.000082	<0.00054	**0.192**	**6.25**	<0.00287	<0.00129	**1250**	**0.0044 J**	**798**	**284**	<0.0017	**2560**	**4900**

Table 3
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San Juan River Gas Plant, Kirtland, New Mexico

Analyte		Dissolved Metals								Inorganics				
		Mercury	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Zinc	Alkalinity	Chloride	Nitrate	Sulfate	TDS
NMWQCC Standard (mg/L)		0.002	1	0.2	NE	0.05	0.05	NE	10	NE	250	10	600	1000
MW-4	7/06/2017	<0.000082	<0.00362	0.19	5.99	<0.00287	--	1170	--	--	379	1.23 J	2520	5110
	11/16/2017	<0.000082	0.0014 J	0.145	6.26	0.0071 J	--	1220	--	716	456	0.041 J	2830	5400
	11/13/2018	<0.000103	0.0008 J	0.136	6.00	<0.00287	--	988	--	810	725	0.169 J	4120	4780
	3/11/2019	<0.000103	0.0218	0.198	--	0.0191 J	--	--	--	817	331	<0.0251	2830	5220
	10/15/2019	<0.000103	0.1620	0.162	--	<0.00287	--	--	--	698	163	0.0251 J-	967	5020
	11/16/2020	0.000075 J	<0.0040	0.330	--	<0.0080	<0.0010	--	0.012 J	880	370	0.12	2600	5000
MW-6	9/25/2001	--	<0.01	0.32	22.0	0.3	<0.01	4000	0.79	--	1300	ND	10000	16500
	8/15/2002	0.0001	0.005	0.272	29.1	0.304	0.004	4080	0.612	145	1040	--	8300	14900
	8/26/2003	0.0002	0.0100	0.3100	29.4	0.247	0.01	3830	0.729	12	1410	70.3	10300	17100
	8/27/2004	0.0002	--	--	--	0.331	0.01	--	--	11	1340	88.3	9320	16600
	8/24/2005	<0.0002	<0.01	0.275	37.6	0.618	<0.01	4370	0.764	25	1150	176	8490	17700
	8/10/2006	<0.0002	<0.01	0.155	34.2	0.995	<0.01	3400	0.527	54	1320	314	8400	11600
	8/23/2007	<0.0002	<0.01	0.187	39.4	0.893	<0.01	3370	0.594	30	1830	258	8930	15500
	8/27/2008	--	--	--	--	--	--	--	--	17	1150	140	3780	16300
	8/28/2009	--	<0.01	0.228	34.8	0.381	<0.01	3470	0.592	6	1290	97.8	4140	16000
	8/26/2010	<0.0002	<0.01	0.305	27.6	0.335	<0.01	3620	0.692	<5.0	1180	57	9180	14900
	8/31/2011	<0.0002	<0.01	0.333	21.1	0.351	<0.01	3860	0.772	12	1190	92.2	8970	15600
	12/19/2013	<0.000082	<0.00273	0.299	19.7	0.332	0.0023 J	3950	0.836	<10	1310	137	9600	16300
	12/18/2014	--	<0.00273	0.163	18.50	0.358	<0.00125	3510	0.36700	<5	874	147	10200	21100
	12/15/2015	<0.082	<0.00054	0.238	--	0.356	--	--	--	5	875	156	11300	15300
	12/13/2016	<0.000082	<0.00054	0.277	21.6	0.35	<0.00129	4070	0.665	<5	738	45.2	9670	15300
	7/06/2017	<0.000082	<0.00141	0.228	17.7	0.279	--	3780	--	<20	938	63.6	9980	16400
	11/16/2017	<0.000082	<0.00054	0.245	21.1	0.334	--	3900	--	<20	2670	27.2	11500	16800
	11/12/2018	<0.000103	0.0144	0.339	19.3	0.27 J+	--	2980	--	<20	1460 J-	63.7 J-	10200	15300
	3/11/2019	<0.000103	<0.00054	0.311	--	0.274 J+	--	--	--	<20	648	53.8	9590	15100
	10/15/2019	<0.000103	<0.00054	0.292	--	0.246	--	--	--	<20	340 J-	35 J-	2230 J+	14000
	11/16/2020	0.000075 J	<0.0040	0.35	--	0.22	<0.0010	--	0.63	<0.50	1000	66 J-	5700 B	15000
MW-8	11/30/1999	--	--	--	--	--	--	--	--	--	--	10	5200	--
	4/10/2000	--	--	--	--	--	--	--	--	--	--	5	5000	--
	6/29/2000	--	--	--	--	--	--	--	--	--	--	5	7500	--
	9/29/2000	--	--	--	--	--	--	--	--	--	--	2	8500	--
	12/21/2000	--	--	--	--	--	--	--	--	--	--	1	12000	--
	3/27/2001	--	--	--	--	--	--	--	--	--	--	5	6300	--
	6/27/2001	--	--	--	--	--	--	--	--	4200	440	10	6200	13800
	9/25/2001	--	<0.01	<0.04	20.0	<0.005	<0.01	6200	<0.02	--	610	ND	9600	18000
	10/29/2001	--	--	--	36.0	--	--	4500	--	24	780	0.2	10	17000

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Analyte		Dissolved Metals								Inorganics				
		Mercury	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Zinc	Alkalinity	Chloride	Nitrate	Sulfate	TDS
NMWQCC Standard (mg/L)		0.002	1	0.2	NE	0.05	0.05	NE	10	NE	250	10	600	1000
MW-8	**8/15/2002**	**0.0001**	**0.0568**	**0.251**	**62.9**	**0.0022**	**0.01**	**4720**	**0.0145**	**4420**	**318**	--	**5450**	**13200**
	8/26/2003	**0.0002**	**0.01**	**0.04**	**45.4**	**0.005**	**0.01**	**4390**	**0.0748**	**5030**	**726**	**20**	**8260**	**17900**
	8/27/2004	**0.0002**	**--**	--	--	**0.0062**	**0.01**	--	--	**4920**	**806**	**20**	**7760**	**17000**
	8/24/2005	<0.0002	**0.0293**	<0.04	**75.6**	<0.005	<0.01	**2610**	**0.0421**	**1880**	**261**	**0.7**	**4920**	**11000**
	8/10/2006	<0.0002	**0.016**	<0.04	**73.0**	<0.005	<0.01	**2210**	**0.0526**	**2150**	**147**	**0.7**	**4160**	**7820**
	8/23/2007	<0.0002	**0.0165**	<0.04	**87.4**	<0.005	<0.01	**2220**	**0.132**	**2580**	**165**	**0.6**	**3980**	**8200**
	8/27/2008	<0.0002	<10	<0.04	**89.0**	<0.005	<0.01	**2790**	**0.0207**	**3380**	**4**	**0.36**	**3590**	**9420**
	8/28/2009	--	**0.0321**	<0.04	**85.6**	<0.005	<0.01	**2850**	**0.0234**	**3860**	<1.0	**1.2**	**4050**	**10700**
	8/26/2010	<0.0002	**0.0333**	<0.2	**226.0**	**0.0075**	<0.01	**2800**	<0.1	**9250**	<1.0	**3**	**2150**	**12000**
	12/19/2013	<0.000082	**0.0087 J**	**0.0033 J**	**35.4**	<0.00417	<0.00125	**2280**	**0.399**	**3150**	**271**	**0.366**	**2310**	**6540**
	12/18/2014	--	**0.02**	**0.0033**	**39.6**	<0.00417	**0.0017**	**2180**	**0.0064**	<5	**206**	**0.34**	**2520**	**6880**
	12/15/2015	<0.082	**0.0039 J**	<0.0008	--	**0.0171 J**	--	--	--	**3800**	**284**	**0.017**	**3120**	**7290**
	12/13/2016	<0.000082	**0.0085 JB**	<0.0008	**26.4**	<0.00287	<0.00129	2600 B	0.0589 B	**2090**	**283**	<0.017	**3840**	**6600**
	7/6/2017	<0.000082	**0.02**	<0.00233	**20.9**	<0.00287	--	2480	--	**2650**	**277**	<0.251	**3060**	**8130**
	11/16/2017	<0.000082	**0.0176**	**0.0038 J**	**30.2**	<0.00287	--	**2840**	--	**2710**	**496**	<0.085	**3880**	**9450**
	11/12/2018	<0.000103	**0.0205**	**0.0034 J**	**30.8**	<0.00287	--	**1720**	--	**3050**	**427**	<0.251	**4250**	**9450**
	3/12/2019	<0.000103	**0.0208**	**0.0019 J**	**--**	<0.0031	**--**	**--**	**--**	**3090**	**451**	<0.251	**3740**	**9870**
	10/14/2019	<0.000212	**0.0234**	**0.0043 J**	**--**	<0.00287	**--**	**--**	**--**	**3020**	**346 J+**	<0.502	**1840**	**9580**
	11/16/2020	<0.000070	**0.037 J**	**0.0032 J**	**--**	<0.0080	<0.0010	<0.0080		**3700**	**1000**	**0.31**	**5700 B**	**13000**
MW-9	**11/30/1999**	--	--	--	--	--	--	--	--	--	--	**10**	**14000**	--
	4/10/2000	--	--	--	--	--	--	--	--	--	--	**5**	**12000**	--
	6/29/2000	--	--	--	--	--	--	--	--	--	--	**5**	**11000**	--
	9/29/2000	--	--	--	--	--	--	--	--	--	--	**2**	**11000**	--
	12/21/2000	--	--	--	--	--	--	--	--	--	--	**1**	**3800**	--
	3/27/2001	--	--	--	--	--	--	--	--	--	--	**5**	**11000**	--
	6/27/2001	--	--	--	--	--	--	--	--	ND	**770**	**10**	**13000**	**16600**
	9/25/2001	--	<0.01	**0.3**	**12.0**	<0.005	<0.01	**3900**	**0.53**	--	**2200**	ND	**12000**	**17000**
	10/29/2001	--	--	--	**43.0**	--	--	**4800**	--	**4000**	**530**	**0.23**	**2200**	**16000**
	8/15/2002	**0.00013**	**0.005**	**0.295**	**25.6**	**0.0067**	**0.0029**	**4490**	**0.0145**	<4	**673**	--	**11600**	**17200**
	8/26/2003	**0.0002**	**0.01**	**0.335**	**23.0**	**0.005**	**0.01**	**3980**	**0.597**	**13**	**752**	**20**	**11800**	**16800**
	8/27/2004	**0.0002**	--	--	--	**0.0065**	**0.0100**	--	--	**24.5**	**969**	**20**	**12000**	**17400**
	8/24/2005	<0.0002	<0.01	**0.335**	**25.9**	**0.0068**	<0.01	**4650**	**0.693**	**19**	**782**	<0.050	**10200**	**18400**
	8/10/2006	<0.0002	<0.01	**0.307**	**23.8**	<0.005	<0.01	**3720**	**0.624**	**22**	**674**	<0.050	**10700**	**11000**

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		Mercury	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Zinc	Alkalinity	Chloride	Nitrate	Sulfate	TDS
NMWQCC Standard (mg/L)		0.002	1	0.2	NE	0.05	0.05	NE	10	NE	250	10	600	1000
MW-9	**8/23/2007**	<0.0002	<0.01	**0.318**	**23.7**	<0.005	<0.01	**3590**	**0.732**	**25**	**775**	**0.4**	**10900**	**16500**
	8/27/2008	<0.0002	<0.01	**0.316**	**28.0**	<0.005	<0.01	**3760**	**0.65**	**18**	**606**	<0.10	**4630**	**16200**
	8/28/2009	--	<0.01	**0.336**	**24.6**	<0.005	<0.01	**3930**	**0.604**	**30**	**1440**	<0.10	**4030**	**17700**
	8/26/2010	<0.0002	<0.01	**0.391**	**19.1**	0.00970	<0.01	**4080**	**0.608**	**34**	**580**	<0.10	**10300**	**15800**
	8/31/2011	<0.0002	<0.01	**0.328**	**13.1**	<0.005	<0.01	**4080**	**0.751**	**28**	**576**	<0.10	**8440**	**15800**
	12/19/2013	<0.000082	<0.00273	**0.339**	**12.3**	<0.00417	**0.0016 J**	**4390**	**1.02**	**46.5**	**398**	**0.147**	**11200**	**15300**
	12/18/2014	--	<0.00273	**0.348**	**12.00**	<0.00417	**0.0015**	**4270**	**0.881**	<5	**508**	**0.0981**	**11000**	**148000**
	12/15/2015	**0.0867 J**	**0.0006 J**	**0.297**	--	<0.00287	--	--	--	**5**	**441**	**0.017**	**13000**	**15900**
	12/13/2016	<0.000082	<0.00054	**0.357**	**15.3**	<0.00287	<0.00129	**4500**	**1.1**	<5	**419**	**1.39**	**12100**	**16400**
	7/06/2017	<0.000082	<0.00054	**0.344**	**11.9**	<0.00287	--	**4240**	--	<20	**574**	<0.502	**11400**	**16600**
	11/16/2017	<0.000082	<0.00054	**0.39**	**14.4**	**0.0054 J**	--	**4590**	--	<20	**539**	<0.085	**13600**	**18500**
	11/12/2018	<0.000103	**0.0006 J**	**0.32**	**12.5**	<0.00287	--	**1900**	--	<20	**360**	<0.251	**12700**	**16100**
	3/12/2019	<0.000103	<0.00054	**0.337**	**--**	**0.0036 J**	**--**	**--**	**--**	<20	**371 J**	<0.251	**9580**	**16000**
	10/14/2019	<0.000161	<0.00054	**0.359**	**--**	<0.00287	**--**	**--**	**--**	<20	**270**	<0.502	**11500**	**16200**
	11/16/2020	--	<0.0040	**0.35**	**--**	<0.0080	<0.0010	**--**	**0.88**	<20	**340 J**	<0.033	**12000**	**13000**
	11/16/2020 (duplicate)	--	<0.0040	**0.35**	**--**	<0.0080	<0.0010	**--**	**0.82**	<20	**380**	<0.033	**11000**	**17000**
MW-11	**7/06/2017**	<0.000082	<0.00154	**0.012**	**10.4**	<0.00287	--	**1540**	--	**591**	**197**	**4.65**	**4390**	**7130**
	11/16/2017	<0.000082	**0.0008 J**	**0.0125**	**10.8**	<0.00287	--	**1430**	--	**569**	**256**	**0.831**	**7170**	**7410**
	11/13/2018	<0.000103	<0.00054	**0.0117**	**10.4**	<0.00287	--	**1120**	--	**667**	**378**	**0.22**	**4120**	**6430**
	3/11/2019	<0.000103	<0.0017	**0.0170**	**--**	<0.00287	--	--	--	**600**	**179**	<0.0251	**3880 J-**	**5590**
	10/15/2019	<0.000103	<0.00054	**0.0128**	**--**	<0.00287	--	--	--	**577**	**151**	<2.51	**2490**	**5850**
	11/16/2020	<0.000070	<0.0040	**0.013**	**--**	<0.0080	<0.0010	--	<0.0080	**730**	**210 J**	<0.033	**4200 B**	**6700**
MW-12	**7/06/2017**	<0.000082	<0.00118	**0.0243**	**12.7**	<0.00287	--	**1260**	--	**687**	**406**	<0.251	**3230**	**6210**
	11/16/2017	<0.000082	**0.0017 J**	**0.0197**	**13.2**	**0.003 J**	--	**1480**	--	**664**	**707**	**0.077**	**9130**	**7120**
	11/13/2018	<0.000103	<0.00054	**0.007 J**	**12.1**	<0.00287	--	**1170**	--	**816**	**585**	<0.0251	**6160**	**6460**
	3/12/2019	<0.000103	<0.00054	**0.019**	**--**	<0.00287	--	--	--	**725**	**703**	<0.0251	<0.0957	**6680**
	10/15/2019	<0.000103	**0.0006 J**	**0.010**	**--**	<0.00287	--	--	--	**689**	**222**	<2.51 J	**2330**	**6040**
	11/16/2020	**0.00010 J**	<0.0040	**0.0088**	**--**	<0.0080	<0.0010	--	<0.0080	**870**	**390**	<0.033	**3900 B**	**7100**
MW-13	**7/06/2017**	<0.000082	<0.00054	**0.00509 J**	**12.3**	<0.00287	--	**3850**	--	**2030**	**1300**	<0.502	**4970**	**12500**
	11/16/2017	<0.000082	<0.0023	**0.0091 J**	**17.1**	<0.00287	--	**3690**	--	**1990**	**1200**	<0.085	**11000**	**12500**
	11/13/2018	<0.000103	<0.00054	**<0.0008**	**14.3**	<0.00287	--	**2650**	--	**2460**	**1770**	<0.251	**17500**	**11400**
	3/12/2019	<0.000103	<0.00054	**0.027 J**	**--**	<0.0037	**--**	**--**	**--**	**2330**	**1440 J-**	<6.28 UJ	**5480**	**11100**
	10/14/2019	<0.000265	<0.00054	**0.0024 J**	**--**	<0.00287	**--**	**--**	**--**	**1820**	**608**	<0.502	**1980 J**	**10800**
	11/16/2020	<0.000070	<0.0040	<0.0030	**--**	<0.0080	**0.0010 J**	**--**	<0.0080	**2400**	**700**	<0.033	**4900**	**11000**

Table 3
Summary of Metals and Inorganics Groundwater Analytical Results
San Juan River Gas Plant, Kirtland, New Mexico

Analyte		Dissolved Metals								Inorganics				
		Mercury	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Zinc	Alkalinity	Chloride	Nitrate	Sulfate	TDS
NMWQCC Standard (mg/L)		0.002	1	0.2	NE	0.05	0.05	NE	10	NE	250	10	600	1000
MW-14	7/06/2017	<0.000082	<0.00218	0.0558	15.7	0.0115 J	--	3090	--	532	321	5.68	9080	13400
	11/16/2017	<0.000082	0.0014 J	0.0468	19.8	0.0128 J	--	3170	--	494	581	2.73	10000	14200
	11/12/2018	<0.000103	0.001 J	0.0376	19.5	0.0052 J	--	1920	--	626	367	1.04 J	10100	14200
	3/12/2019	<0.000103	<0.00054	0.0573	--	0.0349 J	--	--	--	516	342	<0.251	8030	12500
	10/14/2019	<0.000117	0.0024	0.0363	--	0.0058 J	--	--	--	531	110	4.99 J	6560	13600
	11/16/2020	0.000070 J	<0.0040	0.037	--	<0.0080	0.0019 J	--	0.016 J	850	320 J	<0.033	13000 B	18000
MW-15	7/07/2017	<0.000082	<0.01	0.01	17.8	<0.00287	--	6540	--	1000	2760	<0.502	11600	22200
	11/16/2017	<0.000082	<0.00054	0.004 J	20	<0.0071	--	6850	--	1230	2990	<0.085	13400	23200
	11/12/2018	<0.000103	0.0008 J	<0.0008	166.6	<0.00287	--	5980	--	1510	2910	<0.251	12200	20500
	3/12/2019	<0.000103	0.0029 J	0.0024 J	--	<0.00287	--	--	--	1430	2400	0.236	11400	21300
	10/14/2019	<0.000253	<0.00054	0.0017 J	--	<0.00287	--	--	--	1460	1570	<0.502	12600	22200
	11/16/2020	<0.000070	<0.0040	<0.0030	--	<0.0080	<0.0010	--	<0.0080	1800	2600	<0.033	11000 B	22000
MW-16	7/06/2017	<0.000082	<0.00184	<0.0008	10.5	<0.00287	--	4910	--	1630	1840	<0.502	7890	15800
	11/16/2017	<0.000082	<0.00054	<0.0008	11.9	<0.00287	--	5090	--	2510	2100	<0.085	8800	16400
	11/12/2018	<0.000103	0.0007 J	<0.0008	8.28	<0.00287	--	1770	--	3440	1950	<0.251	4770	12900
	3/12/2019	<0.000103	<0.00054	<0.0008	--	<0.00287	--	--	--	2720	2210	18	9060	17100
	10/14/2019	<0.000125	<0.00054	<0.0008	--	<0.00287	--	--	--	2420	692	<0.502	6030	19800
	11/16/2020	--	<0.0040	<0.0030	--	<0.0080	<0.0010	--	<0.0080	2900	3.3	<0.033	25 B	22000
MW-17	4/15/2019	Insufficient water in well, no sample collected												
	10/15/2019	Insufficient water in well, no sample collected								2100	136	1.06 J-	299	3580
	11/16/2020	Insufficient water in well, no sample collected												
MW-18	4/15/2019	<0.000103	0.0007 J	0.255	--	<0.00287	--	--	--	247	1140	<0.251	13200	19800
	10/15/2019	<0.000103	<0.00054	0.285	--	0.0031 J	--	--	--	102	94	<0.0251	1300	22300
	11/16/2020	<0.000070	<0.0040	0.29	--	<0.0080	<0.0010	--	0.2	110	540	<0.033	17000	23000
MW-19	3/12/2019	<0.000103	<0.00054	0.205	--	0.0287 J+	--	--	--	179	290	<0.251	10300	14000
	10/14/2019	<0.000169	<0.00054	0.199	--	0.0239 J	--	--	--	168	134	6.57 J	6690 J+	14800
	11/16/2020	0.000070 J	<0.0040	0.19	--	0.018 J	<0.0010	--	0.12	210	170 J	5.1	11000	14000
MW-20	3/12/2019	PSH in well, no sample collected												
	10/14/2019	PSH in well, no sample collected												
	11/16/2020	PSH in well, no sample collected												
MW-21	3/12/2019	<0.000103	0.0036 J	<0.0063	--	<0.00287	--	--	--	711	2090	<0.251	7640	14400
	10/14/2019	<0.000277	<0.00054	<0.0008	--	<0.00287	--	--	--	819	682 J-	<0.502 J	5240 J	19200
	11/16/2020	<0.000070	<0.0040	<0.0030	--	<0.0080	<0.0010	--	<0.0080	1700	1700	<0.033	12000	20000
MW-22	3/12/2019	Insufficient water in well, no sample collected												
	10/14/2019	Insufficient water in well, no sample collected												
	11/16/2020	Insufficient water in well, no sample collected												

Table 3
Summary of Metals and Inorganics Groundwater Analytical Results
San Juan River Gas Plant, Kirtland, New Mexico

Analyte		Dissolved Metals								Inorganics				
		Mercury	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Zinc	Alkalinity	Chloride	Nitrate	Sulfate	TDS
NMWQCC Standard (mg/L)		0.002	1	0.2	NE	0.05	0.05	NE	10	NE	250	10	600	1000
MW-23	3/12/2019	Insufficient water in well, no sample collected												
	10/14/2019	Insufficient water in well, no sample collected												
	11/16/2020	Insufficient water in well, no sample collected												
PMW-1a	7/07/2017	<0.000082	<0.0073	**0.0017 J**	**7.43**	**0.0047 J**	--	**3070**	--	**167**	**964**	**3.1 J**	**5770**	**9960**
	11/17/2017	<0.000082	**0.004 J**	**0.001 J**	**7.48**	<0.0031	--	**3080**	--	**155**	**919**	**0.285**	**6400**	**9590**
	11/13/2018	<0.000103	**0.0043 J**	**0.0009 J**	**6.59**	<0.00287	--	**1950**	--	**192**	**884**	**1.53 J**	**5900**	**9990**
	4/16/2019	<0.000103	**0.0044 J**	**0.0016 J**	**--**	<0.00287	--	**--**	--	**195**	**1200**	**0.0281 J**	**5050**	**9800**
	10/15/2019	<0.000103	**0.0044 J**	**0.0012 J**	**--**	<0.00287	--	**--**	--	**149**	**791**	**13.8 J**	**315**	**9080**
	11/16/2020	Well not accessed or sampled												
PMW-2	7/07/2017	<0.000082	<0.00054	**0.0013 J**	**6.06**	<0.00287	--	**2210**	--	**1860**	**1100**	<0.251	**1300**	**6540**
	11/17/2017	<0.000082	<0.00054	<0.0008	**4.71**	<0.0049	--	**1820**	--	**2360**	**1240**	**0.017**	**247**	**4690**
	11/13/2018	<0.000103	**0.005 J**	<0.0008	**7.14**	<0.00287	--	**1630**	--	**1800**	**3900 J-**	<0.0251	**7350 J-**	**6840**
	3/12/2019	<0.000103	<0.00054	<0.0008	**--**	<0.0038	**--**	**--**	**--**	**2350**	**1840**	<0.0251	**977**	**5330**
	10/15/2019	<0.000103	<0.00054	<0.0008	**--**	<0.00287	**--**	**--**	**--**	**2190**	**601**	**1.1**	**265**	**4890**
	11/16/2020	Well not accessed or sampled												
PMW-4a	7/07/2017	<0.000082	<0.005	**0.0076 J**	**9.34**	<0.00287	--	**3980**	--	**712**	**2690**	**2.96 J**	**5200**	**12200**
	11/16/2017	<0.000082	**0.0012 J**	**0.0041 J**	**9.7**	<0.00287	--	**3650**	--	**190**	**2880**	**0.996 J**	**7040**	**12700**
	11/13/2018	<0.000103	**0.0039 J**	**0.0074 J**	**9.2**	<0.00287	--	**2740**	--	**295**	**4370**	**1.3 J**	**10300**	**11800**
	4/16/2018	<0.000103	<0.0021	**0.0036 J**	**--**	**--**	**--**	**--**	**--**	**220**	**3010**	<0.0251	**4540**	**12400**
	10/15/2019	<0.000103	**0.0009 J**	**0.0036 J**	**--**	<0.00287	**--**	**--**	**--**	**196**	**855**	<2.51	**1730**	**11300**
	11/16/2020	Well not accessed or sampled												

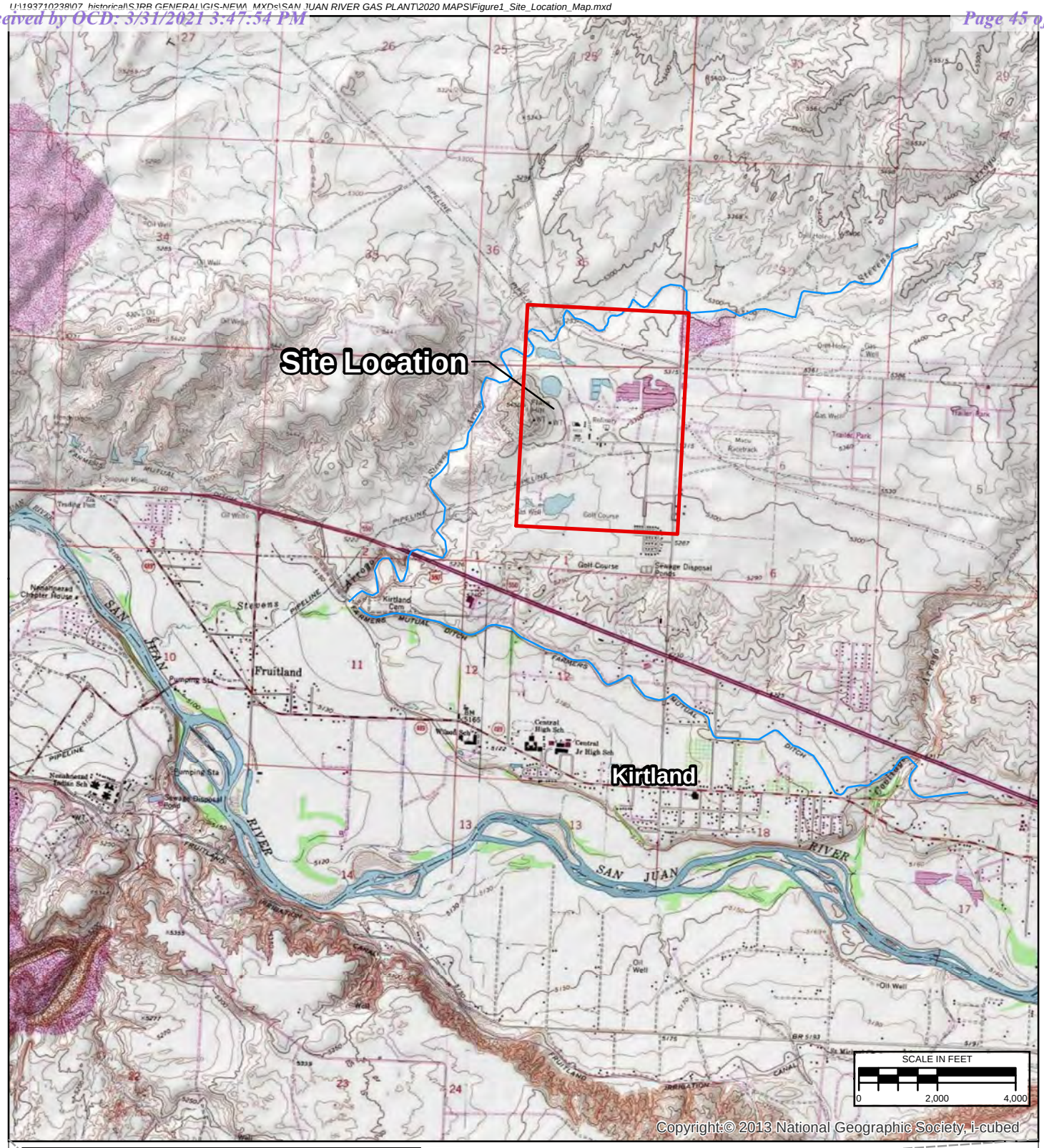
Notes:
Historical data for wells abandoned prior to 2017 has been removed from the Table.
-- = not analyzed for the listed analyte
Bold text indicates detected concentration
Highlighted and bold cells indicate concentration exceeding NMWQCC standard
J =
J- = analyte recovery was low in associated MS/MSD
J+ = analyte recovery was high in associated MS/MSD
mg/L = milligram(s)s per liter
< or ND = not detected above method detection limit
NE = Not Established
NMWQCC = New Mexico Water Quality Control Commision

Table 4
Free Product Recovery Summary
San Juan River Gas Plant

Well ID - MW-20	Depth to Product (Feet)	Depth to Water (Feet)	Measured Thickness (Feet)	Product Recovered (gal)	Water Recovered (gal)	Recovery Type
Date						
3/11/2019	38.7	40.02	1.3	N/A	N/A	N/A
4/15/2019	34.3	35.47	1.2	N/A	N/A	N/A
10/14/2019	26.5	26.71	0.2	N/A	N/A	N/A
8/20/2020	26.98	28.18	1.20	0.69	24.1	MDPE*
11/15/2020	27.72	28.51	0.79	0.42	0.37	manual
			Total:	1.11	24.47	

Notes:
N/A = Not Attempted.
* = Includes calculated recovered hydrocarbon vapors.
gal = gallons
Product Data for previous years documented in previously-submitted reports.

FIGURES



N

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	2/3/2021	SLG	SLG	SRV

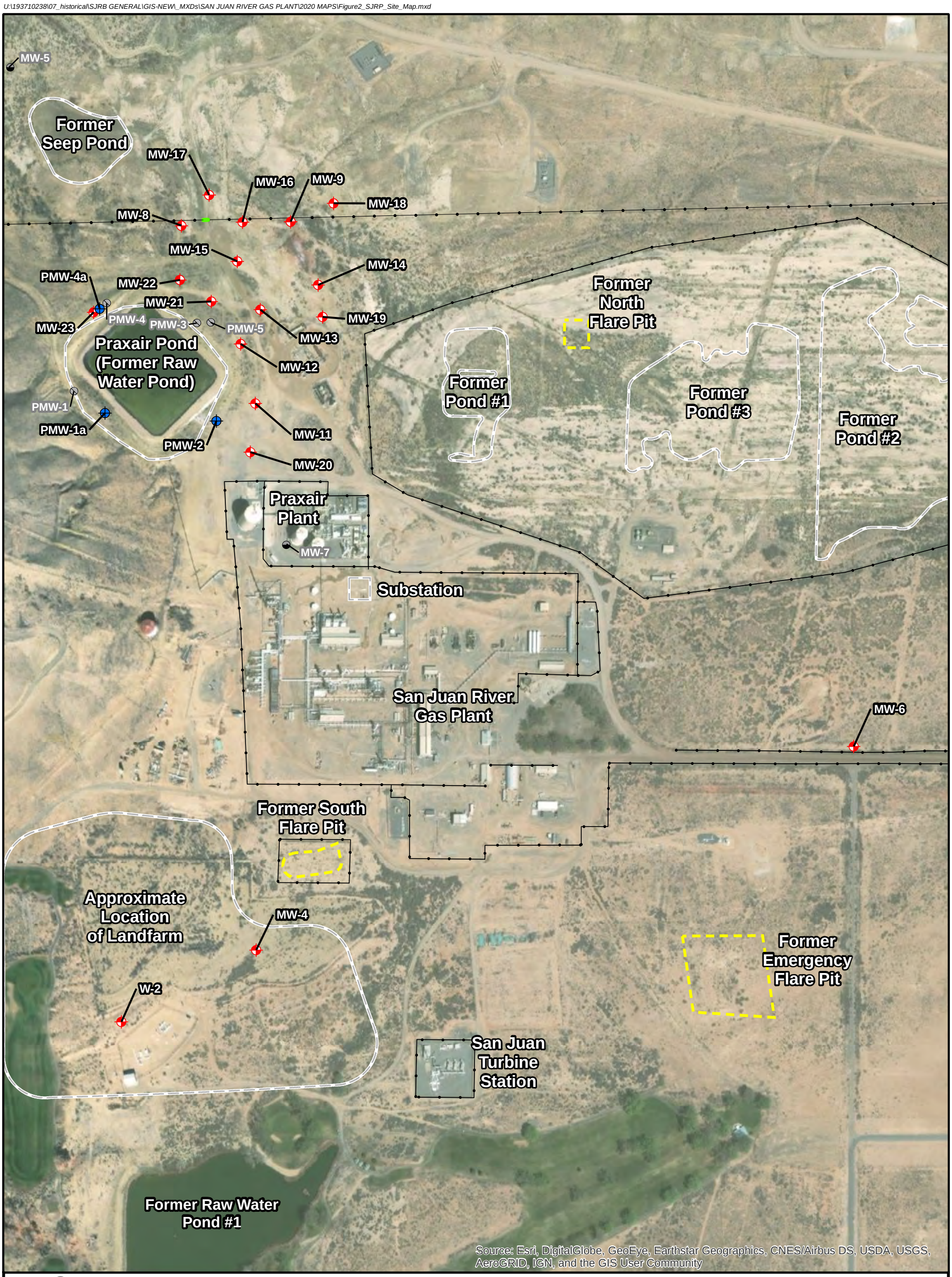
TITLE
SITE LOCATION

Stantec

PROJECT
SAN JUAN RIVER GAS PLANT
KIRTLAND, NEW MEXICO

FIGURE
1

U:\193710238\07_historical\SJRB GENERAL\GIS-NEW_MXDs\SAN JUAN RIVER GAS PLANT\2020 MAPS\Figure2_SJRP_Site_Map.mxd



LEGEND

- MONITORING WELL
- PRAXAIR MONITORING WELL
- DESTROYED/ABANDONED PRAXAIR MONITORING WELL
- DESTROYED/ABANDONED EPNG MONITORING WELL
- HISTORICAL FEATURE
- FENCE
- GATE
- FLARE PIT

NOTE:

AIR SPARGE INJECTION WELLS SW-08 AND SW-09 ARE LOCATED 10 FEET FROM MW-8 AND MW-9, RESPECTIVELY, AND ARE NOT SHOWN.

N

SCALE IN FEET

0 250 500

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	2/3/2021	SLG	SLG	SRV

TITLE: *SITE PLAN*

PROJECT: *SAN JUAN RIVER GAS PLANT KIRTLAND, NEW MEXICO*

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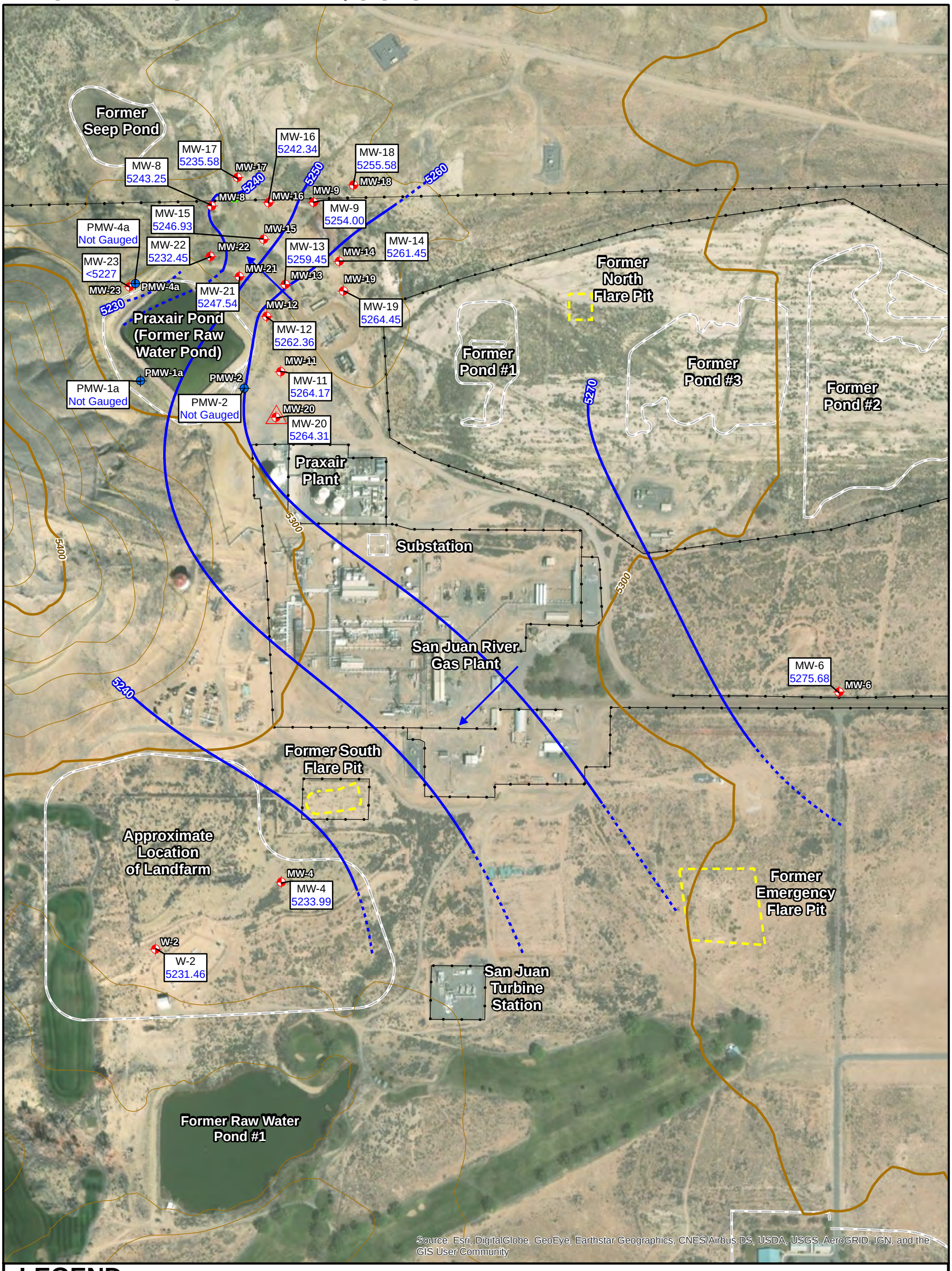
Figure No.: **2**

U:\193710238\07_historical\SJRB GENERAL\GIS-NEW_MXDs\SAN JUAN RIVER GAS PLANT\2020 MAPS\Figure3_SJRP_Nov2020_GECM.mxd



LEGEND

- ABANDONED MONITORING WELL
- PRAXAIR MONITORING WELL
- 6120 APPROXIMATE GROUND SURFACE CONTOUR AND ELEVATION, FEET
- HISTORICAL FEATURE
- FENCE
- GATE
- FLARE PIT
- 6468.15 CORRECTED WATER LEVEL ELEVATION CONTOUR DASHED WHERE INFERRED (FEET ABOVE MEAN SEA LEVEL)
- GROUNDWATER FLOW DIRECTION

NOTE:

MW-23 WAS FOUND TO BE DRY AT 61 FEET BELOW TOP OF CASING.

SCALE IN FEET

0 250 500

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

TITLE:

GROUNDWATER ELEVATION MAP NOVEMBER 15, 2020

PROJECT:

SAN JUAN RIVER GAS PLANT KIRTLAND, NEW MEXICO

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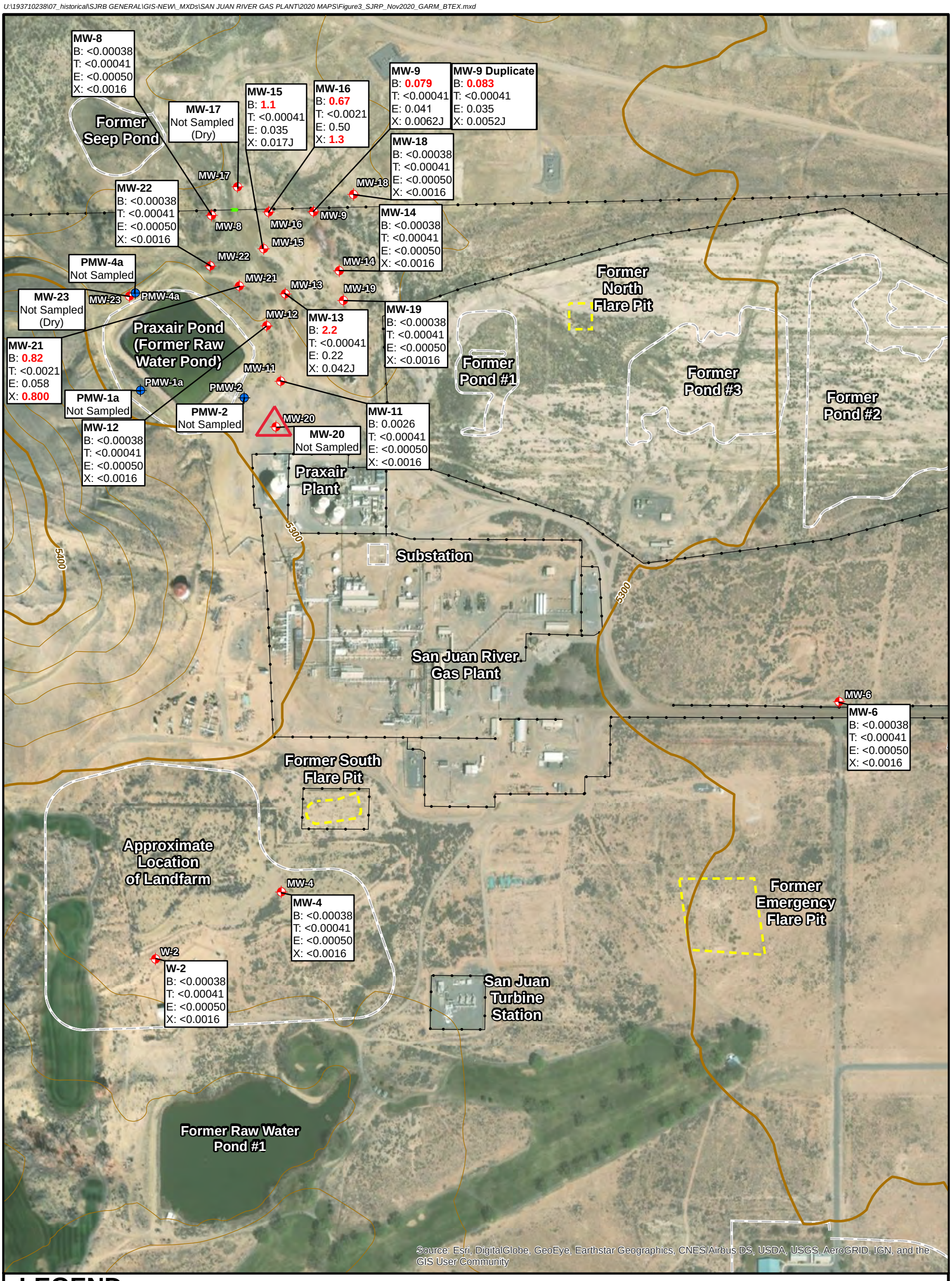
Figure No.: 3

U:\193710238\07_historical\SJRB GENERAL\GIS-NEW_MXDs\SAN JUAN RIVER GAS PLANT\2020 MAPS\Figure3_SJRP_Nov2020_GARM_BTEX.mxd



LEGEND

- ABANDONED MONITORING WELL
- PRAXAIR MONITORING WELL
- 6120 APPROXIMATE GROUND SURFACE CONTOUR AND ELEVATION, FEET
- HISTORICAL FEATURE
- FENCE
- GATE
- FLARE PIT
- MEASURABLE FREE PRODUCT IN WELL

NOTE:
THE SAMPLE FROM MONITORING WELL MW-22 WAS COLLECTED ON NOVEMBER 17, 2020

EXPLANATION OF ANALYTES AND APPLICABLE STANDARDS:
RESULTS IN **BOLDFACE/RED** TYPE INDICATE CONCENTRATION IN EXCESS OF THE STANDARD FOR THAT ANALYTE.
DRY = INSUFFICIENT AMOUNT OF WATER IN WELL TO SAMPLE
NS = NOT SAMPLED
mg/L = MILLIGRAMS PER LITER
<1 = BELOW METHOD DETECTION LIMIT

ANALYTE	NMWQCC STANDARDS
B = Benzene	0.1 mg/L
T = Toluene	0.75 mg/L
E = Ethylbenzene	0.75 mg/L
X = Total Xylenes	0.62 mg/L

N

SCALE IN FEET
0 250 500

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	2/17/2021	SLG	SLG	SRV

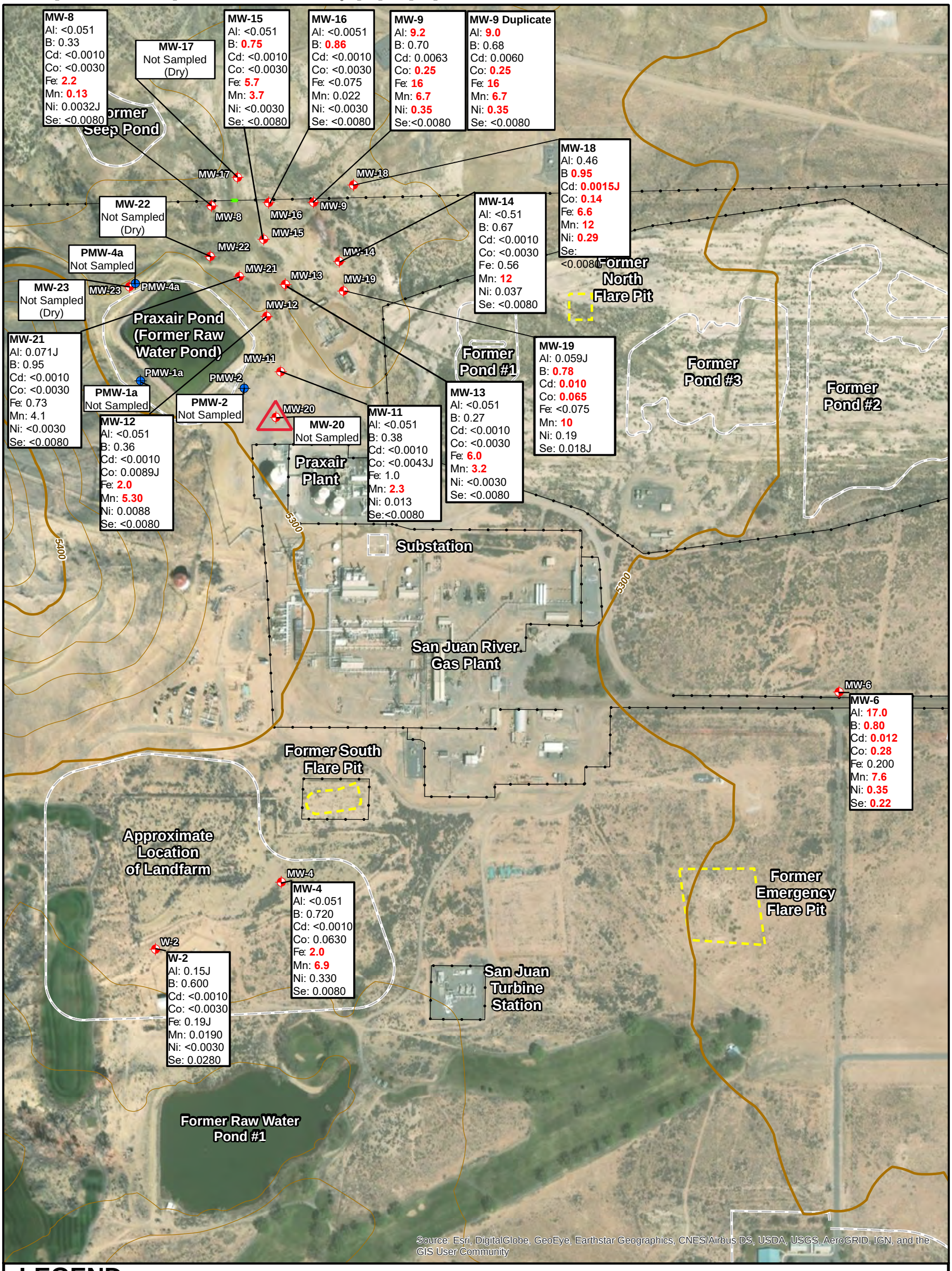
TITLE:
GROUNDWATER ANALYTICAL RESULTS
BTEX CONSTITUENTS
NOVEMBER 16, 2020

PROJECT:
SAN JUAN RIVER GAS PLANT
KIRTLAND, NEW MEXICO

Stantec

Figure No.: **4**

U:\193710238\07_historical\SJRB GENERAL\GIS-NEW_MXDs\SAN JUAN RIVER GAS PLANT\2020 MAPS\Figure5_SJRP_Nov2020_GARM_DissMetals.mxd



LEGEND

- ABANDONED MONITORING WELL
- PRAXAIR MONITORING WELL
- 6120 APPROXIMATE GROUND SURFACE CONTOUR AND ELEVATION, FEET
- HISTORICAL FEATURE
- FENCE
- GATE
- FLARE PIT
- MEASURABLE FREE PRODUCT IN WELL

EXPLANATION OF ANALYTES AND APPLICABLE STANDARDS:

RESULTS IN **BOLDFACE/RED** TYPE INDICATE CONCENTRATION IN EXCESS OF THE STANDARD FOR THAT ANALYTE.
DRY = INSUFFICIENT AMOUNT OF WATER IN WELL TO SAMPLE
NS = NOT SAMPLED
J = INDICATES ESTIMATED CONCENTRATION INDETERMINATE BIAS
J- = INDICATES ESTIMATED CONCENTRATION BIAS LOW
J+ = INDICATES ESTIMATED CONCENTRATION BIAS HIGH
B = COMPOUND WAS FOUND IN THE BLANK AND SAMPLE mg/L = MILLIGRAMS PER LITER
<1 = BELOW METHOD DETECTION LIMIT

ANALYTE	NMWQCC STANDARDS
Al = Aluminum	5 mg/L
B = Boron	0.75 mg/L
Cd = Cadmium	0.01 mg/L
Co = Cobalt	0.05 mg/L
Fe = Iron	1 mg/L
Mn = Manganese	0.2 mg/L
Ni = Nickel	0.2 mg/L
Se = Selenium	0.05 mg/L

N

SCALE IN FEET
0 250 500

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	2/20/2021	SLG	SLG	SRV

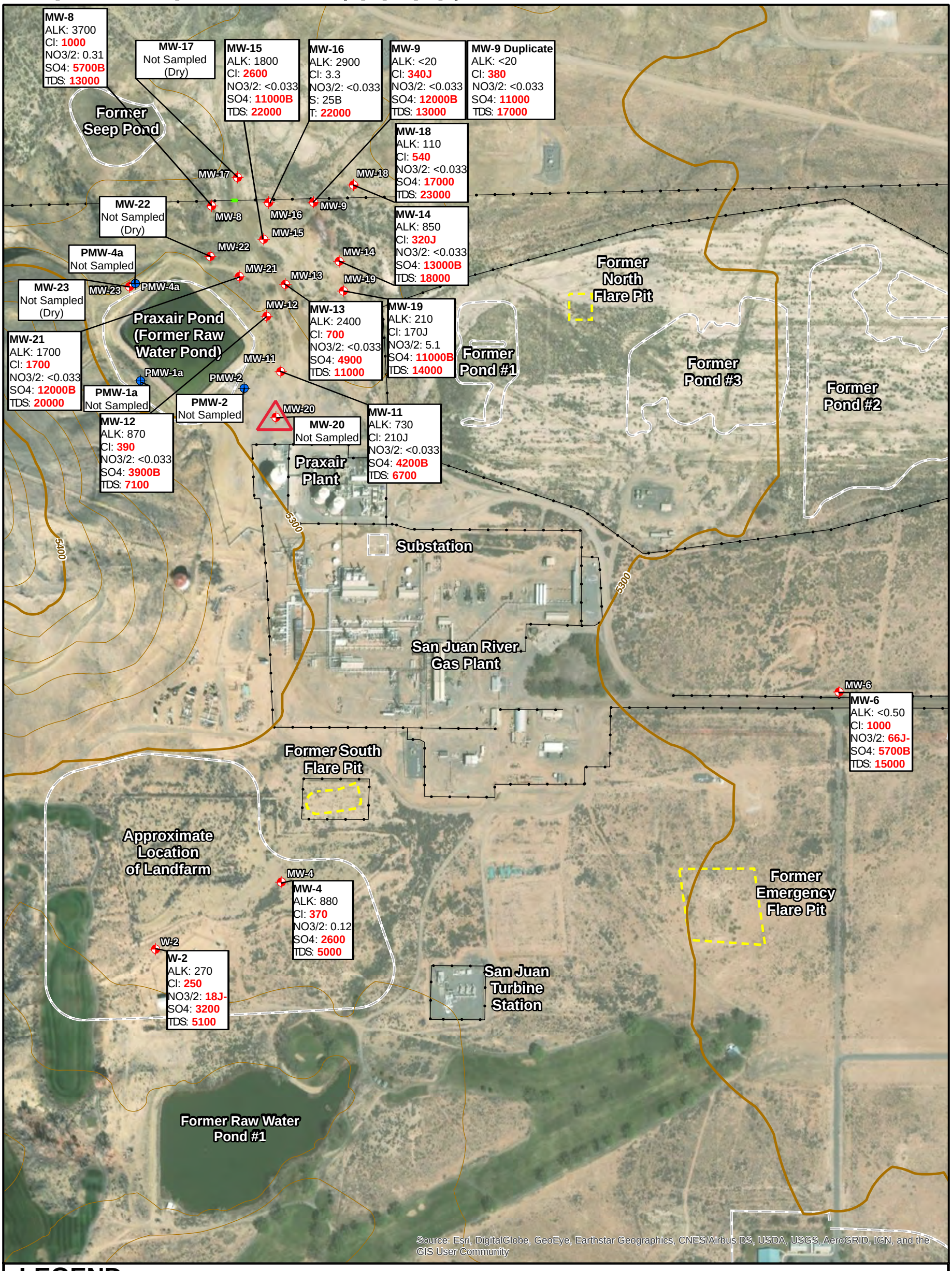
TITLE:
GROUNDWATER ANALYTICAL RESULTS
DISSOLVED METALS
NOVEMBER 16, 2020

PROJECT:
SAN JUAN RIVER GAS PLANT
KIRTLAND, NEW MEXICO

Stantec

Figure No.: **5**

U:\193710238\07_historical\SJRB GENERAL\GIS-NEW_MXDs\SAN JUAN RIVER GAS PLANT\2020 MAPS\Figure5_SJRP_Nov2020_GARM_Inorganics.mxd



LEGEND

- ABANDONED MONITORING WELL
- PRAXAIR MONITORING WELL
- 6120 APPROXIMATE GROUND SURFACE CONTOUR AND ELEVATION, FEET
- HISTORICAL FEATURE
- FENCE
- GATE
- FLARE PIT
- MEASURABLE FREE PRODUCT IN WELL

EXPLANATION OF ANALYTES AND APPLICABLE STANDARDS:

RESULTS IN **BOLDFACE/RED** TYPE INDICATE CONCENTRATION IN EXCESS OF THE STANDARD FOR THAT ANALYTE.
DRY = INSUFFICIENT AMOUNT OF WATER IN WELL TO SAMPLE
NS = NOT SAMPLED
J = INDICATES ESTIMATED CONCENTRATION INDETERMINATE BIAS
J- = INDICATES ESTIMATED CONCENTRATION BIAS LOW
J+ = INDICATES ESTIMATED CONCENTRATION BIAS HIGH
B = COMPOUND WAS FOUND IN THE BLANK AND SAMPLE mg/L = MILLIGRAMS PER LITER
<1 = BELOW METHOD DETECTION LIMIT

ANALYTE	NMWQCC STANDARDS
ALK = Alkalinity	No Standard
Cl = Chloride	250 mg/L
NO3/2 = Nitrate + Nitrite	10 mg/L
SO4 = Sulfate	600 mg/L
TDS = Total Dissolved Solids	1000 mg/L

N

SCALE IN FEET
0 250 500

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	2/20/2021	SLG	SLG	SRV

TITLE:
GROUNDWATER ANALYTICAL RESULTS
INORGANICS
NOVEMBER 16, 2020

PROJECT:
SAN JUAN RIVER GAS PLANT
KIRTLAND, NEW MEXICO

Stantec

Figure No.: 6

APPENDICES

APPENDIX A

From: Knutson, Gerald, NMENV
To: Varsa, Steve
Cc: Sandoval, Melanie, NMENV
Subject: RE: Response to the request to inspect public records
Date: Monday, November 16, 2020 9:06:21 AM

Steve,

I do not know when I can go to the office and scan Monitoring Well 1A. Monitoring Well 2 was not replaced.

-Jake

Gerald Knutson
Environmental Scientist & Specialist A
New Mexico Environment Department
Ground Water Quality Bureau
1190 S. St. Francis Dr., Rm 2350
Santa Fe, NM 87502
(Office) 505-827-2996
gerald.knutson@state.nm.us

From: Varsa, Steve <steve.varsa@stantec.com>
Sent: Monday, November 16, 2020 7:23 AM
To: Knutson, Gerald, NMENV <Gerald.Knutson@state.nm.us>
Cc: Sandoval, Melanie, NMENV <Melanie.Sandoval2@state.nm.us>
Subject: [EXT] RE: Response to the request to inspect public records

Thank you Gerald. The monitoring well information scan also included the start of a log for MW-1A. I apologize, but I would also like to get a copy of the complete log and construction information for that well, plus for MW-2A (not MW-2), if it exists.

Thank you,
Steve

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

From: Knutson, Gerald, NMENV <Gerald.Knutson@state.nm.us>
Sent: Sunday, November 15, 2020 1:44 PM
To: Varsa, Steve <steve.varsa@stantec.com>

Knutson, Gerald, NMENV

From: Ed_Saccoccia@praxair.com
Sent: Wednesday, April 21, 2010 2:31 PM
To: Knutson, Gerald, NMENV
Cc: John_Turnbull@praxair.com; Mark_Garrison@praxair.com
Subject: Praxair Permit DP-1422 Renewal: Information As You Requested
Attachments: MW1-01.JPG; MW1 abandoned.JPG; MW4-03.JPG; MW4 abandoned & MW4A.JPG; MW1 & 4 abandon logs.pdf; MW1A & 4A Lift logs.pdf; MW1A development log.pdf; MW4A development log.pdf; Praxair KirtlandMW1A.xls; Praxair KirtlandMW2.xls; Praxair KirtlandMW4A.xls; praxair_20100330130753.pdf; SKMBT_36110042103300.pdf

Mr. Knutson,
Here is the information you suggested we send you about the new wells and the closing of the old ones. I hope it is not too late to be able to remove some of the conditions from the permit prior to its publication as final. Let me know if you need any additional information.

New Well Construction logs

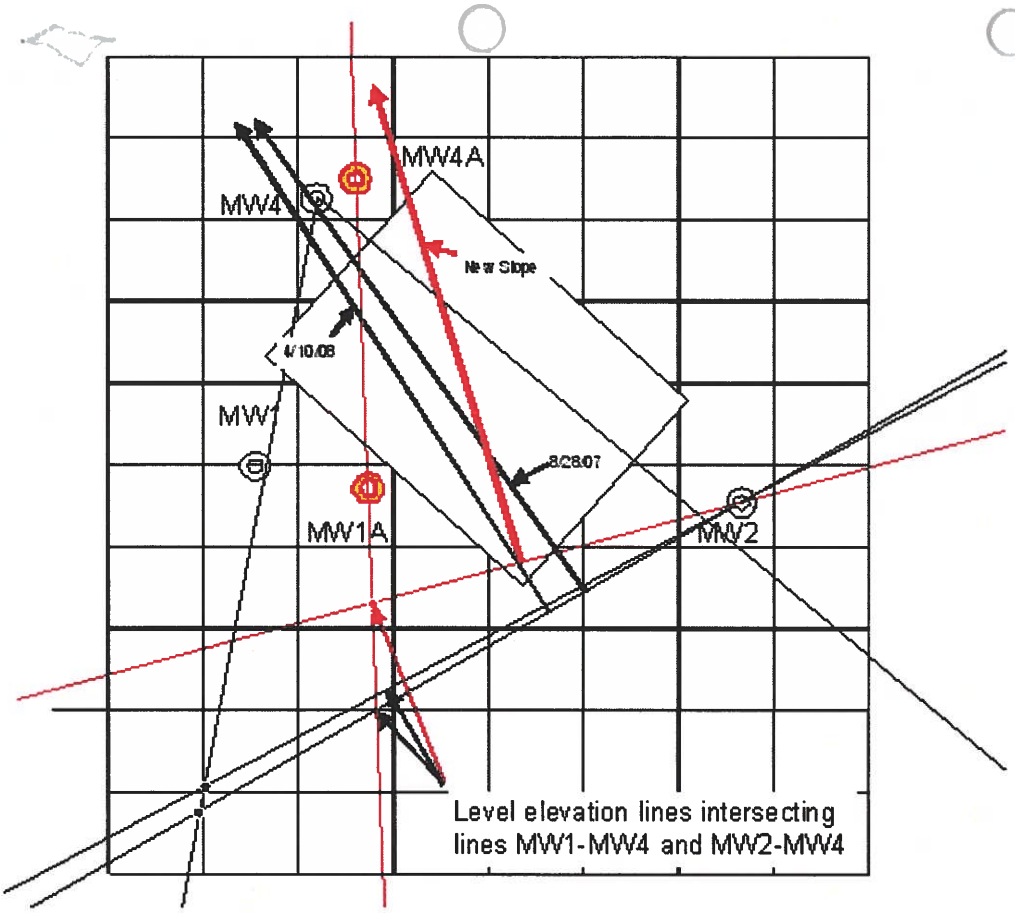
Pictures of new wells

New Well Lift Logs:

Well sample results

Survey of the location of the wells

Gradient map



Also depicted in following file:

Notice of abandonment of the old wells with some proof

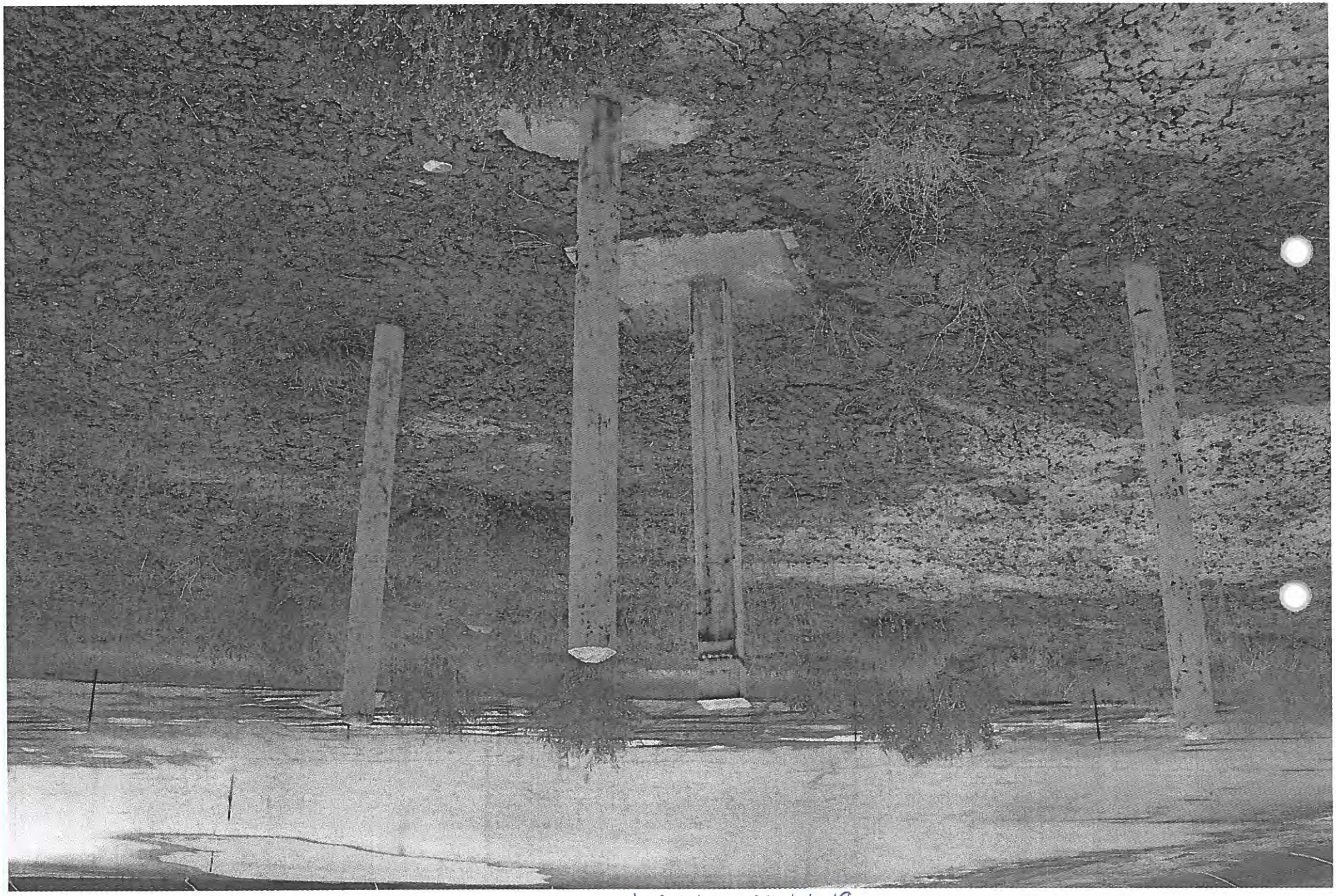
Please consider this email as our notification the wells M1 and M4 have been abandoned.

Plugging records for both abandonded wells:

Pictures of abandonded well sites:

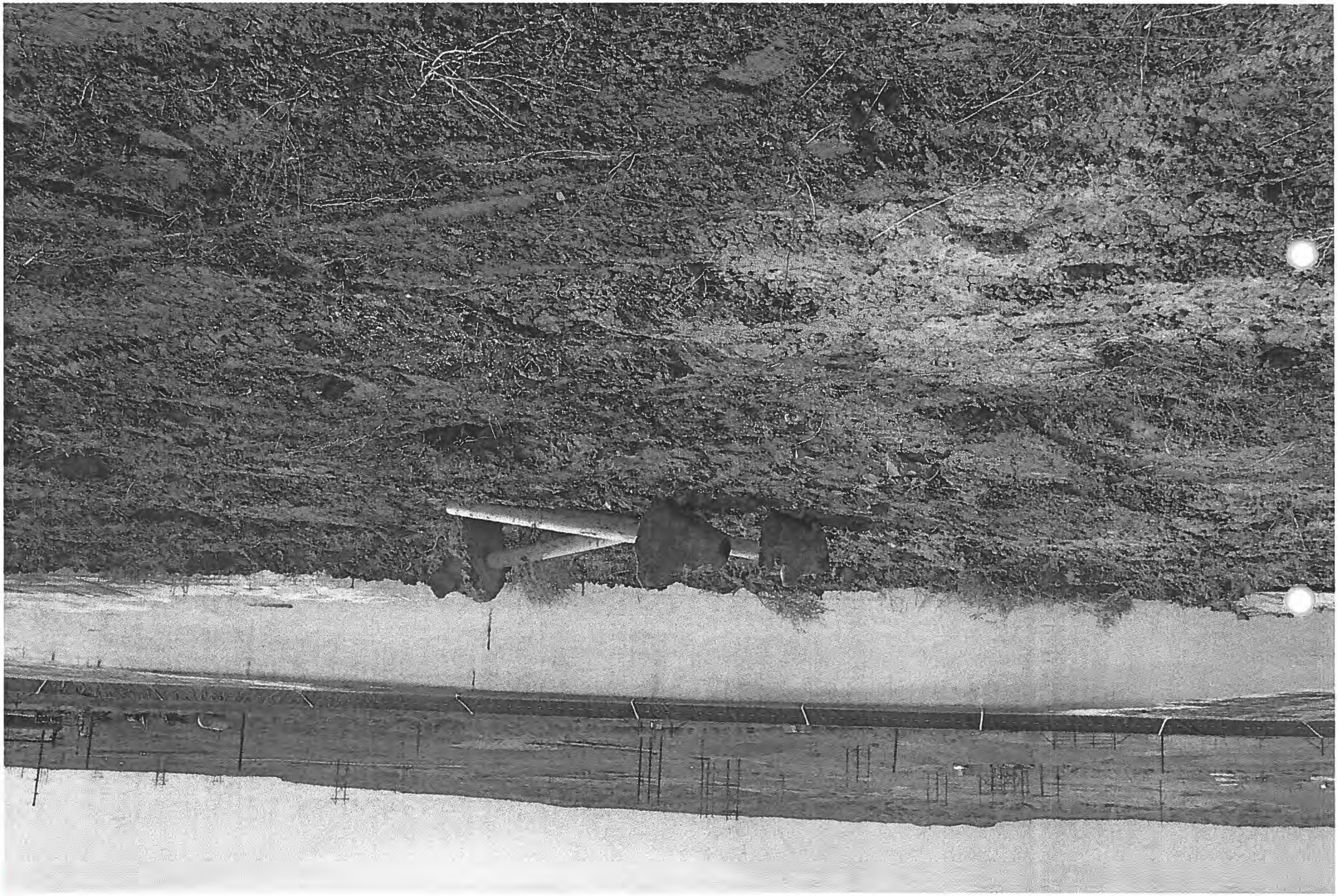
Ed Saccoccia
Environmental Manager
Praxair Inc.
Ed_Saccoccia@praxair.com
Office Phone: +1 (716) 879-7492
Mobile: +1 (716) 238-1657
Office Fax: +1 (716) 879-7398

Please consider the environment before printing this e-mail.



DP-1432 MW-1

Received by OCD: 3/31/2021 3:47:54 PM



DP-1422 MW-1 (abandoned)

Released to Imaging: 10/6/2022 9:53:17 AM

MW-4 DP-1422

MW-4A

DP-1422 MW-4 (Abandoned)

PLUGGING RECORD

NOTE: A Well Plugging Plan of Operations shall be approved by the Office of the State Engineer prior to plugging.

I. GENERAL / WELL OWNERSHIP:

Office of the State Engineer POD Number (Well Number) for plugged well: MW 1

Name of well owner: Pcox A:c Phone No.:

Mailing address: PO Box 127

City: K:rtland State: New Mexico Zip code: 87417

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: Enviro-Drill, Inc

2) New Mexico Well Driller License No.: WD 1176 Expiration Date: 10-2010

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

4) Well plugging occurred on the following date(s): 02-16-10

5) GPS Well Location: Latitude: _____ deg, _____ min, _____ sec
Longitude: _____ deg, _____ min, _____ sec, WGS 84

6) Type of GPS receiver used: Manufacturer _____ Model Number _____

7) Was the well plugged in accordance with a plugging plan approved by the Office of the State Engineer?: Yes

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

III. SIGNATURE:

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

Signature of Well Driller — Date: 04-08-10

Version: December 31, 2007

Received by OCD: 3/31/2021 3:47:54 PM

LOG OF BORING NO. MW1A

Project PeavAcc Job No. 238 OJH 020

Elevation Top of Hole ______ Datum ______ Prepared By Shad Betts Date 02-18-10

Type/Size of Boring ______ Rig Type CME 75 Driller Shad Betts Reviewed By ______ Date ______

DEPTH, FEET	PENETRATION RESISTANCE BLOW/FOOT C	N/R	SAMPLE TYPE	DRY DENSITY, PCF	WATER CONTENT, %	SOIL CLASSIFICATION	SOIL TYPE DESCRIPTION (Modifier, Color, Density, Moisture, etc.)	MAXIMUM SIZE	PARTICLE SIZE DISTRIBUTION, % BOULDERS/COBBLES	GRAVEL	SAND	SILT & CLAY	GRADATION (WELL / MEDIUM / POOR)	GRAIN SHAPE (ANGULAR / SUBANGULAR / SUBROUNDED / ROUNDED)	RELATIVE DENSITY (LOOSE / MED. DENSE / DENSE / VERY DENSE)	PLASTICITY (NONE / LOW / MEDIUM / HIGH)	CONSISTENCY (SOFT / FIRM / STIFF / VERY STIFF / HARD)	CEMENTATION (NONE / LIGHT / MODERATE / HEAVY)
1							Brown Clay with Gravel Dry Soft											
2–4							↓ ↓											
5							Same											
6–9							↓ ↓											
10							Same						GRADATION	GRAIN SHAPE	RELATIVE DENSITY	PLASTICITY	CONSISTENCY	CEMENTATION
11–12							↓											
13							Sand Stone lense from 13.5'–14.5'											
14							↓ ↓											
15							Brown Clay Hard Dry											
16–19							↓ ↓											
20							Same											
21–24							↓ ↓											
25							Same											
26–29							↓ ↓											
30							Same											

GROUNDWATER CONDITIONS

Date ______ No Groundwater Encountered ______

Date ______ Time ______ Depth ______

Date ______ Time ______ Depth ______

1 of 4

Released to Imaging: 10/6/2022 9:53:17 AM

LOG OF BORING NO. MWJA

Project PraxAir .... Job No. 2380JH020

Elevation Top of Hole ______ Datum ______ Prepared By Shad Betts Date 02-18-10

Type/Size of Boring ______ Rig Type CME 75 Driller Shad Betts Reviewed By ______ Date ______

DEPTH, FEET	PENETRATION RESISTANCE BLOW/FOOT C	N/R	SAMPLE TYPE	DRY DENSITY, PCF	WATER CONTENT, %	SOIL CLASSIFICATION	SOIL TYPE DESCRIPTION (Modifier, Color, Density, Moisture, etc.)	MAXIMUM SIZE	PARTICLE SIZE DISTRIBUTION, %: BOULDERS/COBBLES	GRAVEL	SAND	SILT & CLAY	GRADATION (WELL / MEDIUM / POOR)	GRAIN SHAPE (ANGULAR / SUBANGULAR / SUBROUNDED / ROUNDED)	RELATIVE DENSITY (LOOSE / MED. DENSE / DENSE / VERY DENSE)	PLASTICITY (NONE / LOW / MEDIUM / HIGH)	CONSISTENCY (SOFT / FIRM / STIFF / VERY STIFF / HARD)	CEMENTATION (NONE / LIGHT / MODERATE / HEAVY)
1							Clay Dark Brown Soft + Dry											
2							↓ ↓											
3							Light Brown Clay Hard + Dry											
4							↓ ↓											
35																		
6							Shale Black Dry + Hard								RELATIVE DENSITY			
7																		
8							↓ ↓											
9																		
40							Same							GRAIN SHAPE		PLASTICITY	CONSISTENCY	CEMENTATION
1													GRADATION					
2																		
3							↓ ↓											
4																		
45							Same											
6																		
7																		
8							↓ ↓											
9																		
50							Same											
1																		
2																		
3							↓ ↓											
4																		
55							Same											
6																		
7																		
8							↓ ↓											
9																		
60							Same											

GROUNDWATER CONDITIONS

Date ______ No Groundwater Encountered ______

Date ______ Time ______ Depth ______

Date ______ Time ______ Depth ______

2 of 4

LOG OF BORING NO. MW 1A

Project PraxAir Job No. 2380JH020

Elevation Top of Hole ______ Datum ______ Prepared By Shad Betts Date 02-18-10

Type/Size of Boring ______ Rig Type CME 75 Driller Shad Betts Reviewed By ______ Date ______

DEPTH, FEET	PENETRATION RESISTANCE BLOW/FOOT C	N/R	SAMPLE TYPE	DRY DENSITY, PCF	WATER CONTENT, %	SOIL CLASSIFICATION	SOIL TYPE DESCRIPTION (Modifier, Color, Density, Moisture, etc.)	MAXIMUM SIZE	PARTICLE SIZE DISTRIBUTION, % BOULDERS/COBBLES	GRAVEL	SAND	SILT & CLAY	GRADATION (WELL / MEDIUM / POOR)	GRAIN SHAPE (ANGULAR / SUBANGULAR / SUBROUNDED / ROUNDED)	RELATIVE DENSITY (LOOSE / MED. DENSE / DENSE / VERY DENSE)	PLASTICITY (NONE / LOW / MEDIUM / HIGH)	CONSISTENCY (SOFT / FIRM / STIFF / VERY STIFF / HARD)	CEMENTATION (NONE / LIGHT / MODERATE / HEAVY)
1							Clay Dark Brown Soft + Dry											
2							↓ ↓											
3							Shale Black Hard + Dry											
4																		
65							↓ ↓											
6																RELATIVE DENSITY			
7																			
8							↓ ↓											
9																			
70							Sam						GRADATION	GRAIN SHAPE		PLASTICITY	CONSISTENCY	CEMENTATION
1																		
2																		
3							↓ ↓											
4																		
75							Same											
							↓ ↓											
8							Same											
							↓ ↓											
8							Same											
							Shale Black Med Soft Dry											
9							↓ ↓											

GROU ON

LOG OF BORING NO. MW-1A

Project DraxAir

Elevation Top of Hole _____ Datum _____ Job No. 23801H020

Type / Size of Boring _____ Rig Type CME 75 Driller Shad Betts Prepared By Shad Betts Date 02-18-10

Reviewed By _____ Date _____

DEPTH, FEET	PENETRATION RESISTANCE BLOW/FOOT C	PENETRATION RESISTANCE BLOW/FOOT N/R	SAMPLE TYPE	DRY DENSITY, PCF	WATER CONTENT, %	SOIL CLASSIFICATION	SOIL TYPE DESCRIPTION (Modifier, Color, Density, Moisture, etc.)	MAXIMUM SIZE	PARTICLE SIZE DISTRIBUTION, % BOULDERS/COBBLES	GRAVEL	SAND	SILT & CLAY	GRADATION WELL	GRADATION MEDIUM	GRADATION POOR	GRAIN SHAPE ANGULAR	GRAIN SHAPE SUBANGULAR	GRAIN SHAPE SUBROUNDED	GRAIN SHAPE ROUNDED	RELATIVE DENSITY LOOSE	RELATIVE DENSITY MED. DENSE	RELATIVE DENSITY DENSE	RELATIVE DENSITY VERY DENSE	PLASTICITY NONE	PLASTICITY LOW	PLASTICITY MEDIUM	PLASTICITY HIGH	CONSISTENCY SOFT	CONSISTENCY FIRM	CONSISTENCY STIFF	CONSISTENCY VERY STIFF	CONSISTENCY HARD	CEMENTATION NONE	CEMENTATION LIGHT	CEMENTATION MODERATE	CEMENTATION HEAVY
1							med Hard Shale Black Dcy																														
2																																				
3																																				
4																																				
5							Same																													
6																																				
7																																				
8																																				
9																																				
10							Same																													
1																																				
2																																				
3																																				
4																																				
5																																				
6																																				
7																																				
8																																				
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4																																				
5																																				
6																																				
7																																				
8																																				
9																																				
10																																				

GROUNDWATER CONDITIONS

Date _____ No Groundwater Encountered

Date _____ Time _____ Depth _____

Date _____ Time _____ Depth _____

4 of 4

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

POD NUMBER (WELL NUMBER)	OSE FILE NUMBER(S)
MW 1A	
WELL OWNER NAME(S)	PHONE (OPTIONAL)
PraxAir	
WELL OWNER MAILING ADDRESS	CITY / STATE / ZIP
Po Box 127	Kirtland NM 87417

WELL LOCATION (FROM GPS)	DEGREES	MINUTES	SECONDS	
	LATITUDE			N
	LONGITUDE			W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND

* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS

West Side of Evaporation Pond

2. OPTIONAL

(2.5 ACRE)	(10 ACRE)	(40 ACRE)	(160 ACRE)	SECTION	TOWNSHIP	RANGE
¼	¼	¼	¼		☐ NORTH ☐ SOUTH	☐ EAST ☐ WEST

SUBDIVISION NAME	LOT NUMBER	BLOCK NUMBER	UNIT/TRACT

HYDROGRAPHIC SURVEY	MAP NUMBER	TRACT NUMBER

3. DRILLING INFORMATION

LICENSE NUMBER	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD1176	Shad Betts	Enviro-Drill, Inc.

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
02-18-10	02-18-10	101.5'	101.5'	83.6'

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

STATIC WATER LEVEL IN COMPLETED WELL (FT):

DRILLING FLUID: ☒ AIR ☐ MUD ☐ ADDITIVES – SPECIFY:

DRILLING METHOD: ☒ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY:

DEPTH (FT) FROM	DEPTH (FT) TO	BORE HOLE DIA. (IN)	CASING MATERIAL	CONNECTION TYPE (CASING)	INSIDE DIA. CASING (IN)	CASING WALL THICKNESS (IN)	SLOT SIZE (IN)
101.0	76.0	3.75	PVC	Flush	2.067	1/4	.020
76.0	0.0		PVC	Flush	2.067	1/4	Riser

4. WATER BEARING STRATA

DEPTH (FT) FROM	DEPTH (FT) TO	THICKNESS (FT)	FORMATION DESCRIPTION OF PRINCIPAL WATER-BEARING STRATA (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	YIELD (GPM)
83	101	18'	Shale + Sandstone Jensen Formation	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA	TOTAL ESTIMATED WELL YIELD (GPM)

FOR OSE INTERNAL USE — WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER	POD NUMBER	TRN NUMBER
LOCATION		PAGE 1 OF 2

5. SEAL AND PUMP

TYPE OF PUMP: ☐ SUBMERSIBLE ☐ JET ☒ NO PUMP – WELL NOT EQUIPPED
☐ TURBINE ☐ CYLINDER ☐ OTHER – SPECIFY:

ANNULAR SEAL AND GRAVEL PACK	DEPTH (FT) FROM	DEPTH (FT) TO	BORE HOLE DIA. (IN)	MATERIAL TYPE AND SIZE	AMOUNT (CUBIC FT)	METHOD OF PLACEMENT
	101.5	73.0	3.75	10-20 Silica Sand	6.0	Trammied
	73.0	70.0	3.75	Bentonite Chips	1.0	"
	70.0	0-0	3.75	Cement/Bentonite grout		"

6. GEOLOGIC LOG OF WELL

DEPTH (FT) FROM	DEPTH (FT) TO	THICKNESS (FT)	COLOR AND TYPE OF MATERIAL ENCOUNTERED (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	WATER BEARING?
			See Boring log	☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO

ATTACH ADDITIONAL PAGES AS NEEDED TO FULLY DESCRIBE THE GEOLOGIC LOG OF THE WELL.

7. TEST & ADDITIONAL INFO

WELL TEST: METHOD: ☒ BAILER ☐ PUMP ☐ AIR LIFT ☐ OTHER – SPECIFY:
TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

ADDITIONAL STATEMENTS OR EXPLANATIONS. Low Production well. Drilled on 02-18-10 and Set well on 03-15-10. weather Delay caused delay in Project. well produces very slow But I could not Bail the well Dry Bailed 2.6 gal from well

8. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:

Bill Betty — SIGNATURE OF DRILLER
03-22-10 — DATE

FOR OSE INTERNAL USE — WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER	POD NUMBER	TRN NUMBER
LOCATION		PAGE 2 OF 2

01-20-01 03:08PM;

PLUGGING RECORD

NOTE: A Well Plugging Plan of Operations shall be approved by the Office of the State Engineer prior to plugging.

I. GENERAL / WELL OWNERSHIP:

Office of the State Engineer POD Number (Well Number) for plugged well: MW4

Name of well owner: Doux A:C Phone No.: _____

Mailing address: PO Box 127

City: Kirtland State: New Mexico Zip code: 87417

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: Enviro Drill, Inc

2) New Mexico Well Driller License No.: WD1186 Expiration Date: 10-2010

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

4) Well plugging occurred on the following date(s): 02-16-10

5) GPS Well Location: Latitude: _____ deg, _____ min, _____ sec
Longitude: _____ deg, _____ min, _____ sec, WGS 84

6) Type of GPS receiver used: Manufacturer _____ Model Number _____

7) Was the well plugged in accordance with a plugging plan approved by the Office of the State Engineer?: Yes

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

III. SIGNATURE:

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

Signature of Well Driller — Date: 04-08-10

Version: December 31, 2007

LOG OF BORING NO. MW4A

Project Prax Air

Job No. 2380JH020

Elevation Top of Hole _____ Datum _____

Prepared By Shad Betts Date 02-16-10

Type/Size of Boring _____ Rig Type CME 75 Driller Shad Betts

Reviewed By _____ Date _____

DEPTH, FEET	PENETRATION RESISTANCE BLOW/FOOT C	PENETRATION RESISTANCE BLOW/FOOT N/R	SAMPLE TYPE	DRY DENSITY, PCF	WATER CONTENT, %	SOIL CLASSIFICATION	SOIL TYPE DESCRIPTION (Modifier, Color, Density, Moisture, etc.)	MAXIMUM SIZE	PARTICLE SIZE DISTRIBUTION, % BOULDERS/COBBLES	GRAVEL	SAND	SILT & CLAY	GRADATION WELL	GRADATION MEDIUM	GRADATION POOR	GRAIN SHAPE ANGULAR	GRAIN SHAPE SUBANGULAR	GRAIN SHAPE SUBROUNDED	GRAIN SHAPE ROUNDED	RELATIVE DENSITY LOOSE	RELATIVE DENSITY MED. DENSE	RELATIVE DENSITY DENSE	RELATIVE DENSITY VERY DENSE	PLASTICITY NONE	PLASTICITY LOW	PLASTICITY MEDIUM	PLASTICITY HIGH	CONSISTENCY SOFT	CONSISTENCY FIRM	CONSISTENCY STIFF	CONSISTENCY VERY STIFF	CONSISTENCY HARD	CEMENTATION NONE	CEMENTATION LIGHT	CEMENTATION MODERATE	CEMENTATION HEAVY
1							Clay with gravel light Brown Dry + Soft																														
2							Clay light Brown Dry + Soft																														
3							↓ ↓																												
4							↓ ↓																												
5							↓ ↓																												
6							↓ ↓																												
7							↓ ↓																												
8							↓ ↓																												
9							↓ ↓																												
10							↓ ↓																												
1							Shale, Dry, Black Soft																														
2							↓ ↓																												
3							↓ ↓																												
4							↓ ↓																												
5							↓ ↓																												
6							Clay light Brown Dry + Soft																														
7							↓ ↓																												
8							↓ ↓																												
9							↓ ↓																												
10							↓ ↓																												
1							↓ ↓																												
2							↓ ↓																												
3							↓ ↓																												
4							↓ ↓																												
5							↓ ↓																												
6							↓ ↓																												
7							light Brown Sandstone Dry, Hard																														
8							↓ ↓																												
9							↓ ↓																												
30							↓ ↓																												

GRADATION: WELL, MEDIUM, POOR

GRAIN SHAPE: ANGULAR, SUBANGULAR, SUBROUNDED, ROUNDED

RELATIVE DENSITY: LOOSE, MED. DENSE, DENSE, VERY DENSE

PLASTICITY: NONE, LOW, MEDIUM, HIGH

CONSISTENCY: SOFT, FIRM, STIFF, VERY STIFF, HARD

CEMENTATION: NONE, LIGHT, MODERATE, HEAVY

GROUNDWATER CONDITIONS

Date _____ No Groundwater Encountered _____

Date _____ Time _____ Depth _____

Date _____ Time _____ Depth _____

1 of 7

LOG OF BORING NO. MW4A

Project PraxAir

Elevation Top of Hole _____ Datum _____ Job No. 2380JH020

Type / Size of Boring _____ Rig Type CME 75 Driller Shad Betts Prepared By Shad Betts Date 02-16-10

Reviewed By _____ Date _____

DEPTH, FEET	PENETRATION RESISTANCE BLOW / FOOT C	N/R	SAMPLE TYPE	DRY DENSITY, PCF	WATER CONTENT, %	SOIL CLASSIFICATION	SOIL TYPE DESCRIPTION (Modifier, Color, Density, Moisture, etc.)	MAXIMUM SIZE	PARTICLE SIZE DISTRIBUTION, % BOULDERS / COBBLES	GRAVEL	SAND	SILT & CLAY	GRADATION WELL / MEDIUM / POOR	GRAIN SHAPE ANGULAR / SUBANGULAR / SUBROUNDED / ROUNDED	RELATIVE DENSITY LOOSE / MED. DENSE / DENSE / VERY DENSE	PLASTICITY NONE / LOW / MEDIUM / HIGH	CONSISTENCY SOFT / FIRM / STIFF / VERY STIFF / HARD	CEMENTATION NONE / LIGHT / MODERATE / HEAVY
1							light Brown Sandstone hard, Dry											
2							↓ ↓											
3							light Brown Clay Soft + Dry											
4							hard light Brown Sandstone Dry											
35							↓ ↓											
6							6" thick lense Brown Clay Soft											
7							back to light Brown Sandstone											
8							lenses with med Brown Soft Clay											
9							Dark Brown Clay med soft Dry											
40							Black Shale med hard Dry											
1							↓ ↓											
2							light Brown Clay, Dry Soft											
3							light Brown Sandstone hard Dry											
4							↓ ↓											
45							Shale Black hard + Dry											
6							↓ ↓											
7							Same											
8							↓ ↓											
9							Same											
50							↓ ↓											
1							Shale tensed with											
2							light Brown Clay Dry											
3																		
4																		
55																		
6																		
7																		
8																		
9																		
60																		

GRADATION: WELL / MEDIUM / POOR

GRAIN SHAPE: ANGULAR / SUBANGULAR / SUBROUNDED / ROUNDED

RELATIVE DENSITY: LOOSE / MED. DENSE / DENSE / VERY DENSE

PLASTICITY: NONE / LOW / MEDIUM / HIGH

CONSISTENCY: SOFT / FIRM / STIFF / VERY STIFF / HARD

CEMENTATION: NONE / LIGHT / MODERATE / HEAVY

GROUNDWATER CONDITIONS

Date _____ No Groundwater Encountered

Date _____ Time _____ Depth _____

Date _____ Time _____ Depth _____

2 of 7

LOG OF BORING NO. MW4A

Project Prax Air

Job No. 2380JH020

Elevation Top of Hole ____ Datum ____

Prepared By Shad Betts Date 02-16-10

Type/Size of Boring ____ Rig Type CME 75 Driller Shad Betts

Reviewed By ____ Date ____

DEPTH, FEET	PENETRATION RESISTANCE BLOW/FOOT C	PENETRATION RESISTANCE BLOW/FOOT N/R	SAMPLE TYPE	DRY DENSITY, PCF	WATER CONTENT, %	SOIL CLASSIFICATION	SOIL TYPE DESCRIPTION (Modifier, Color, Density, Moisture, etc.)	MAXIMUM SIZE	PARTICLE SIZE DISTRIBUTION, % BOULDERS/COBBLES	GRAVEL	SAND	SILT & CLAY	GRADATION WELL	GRADATION MEDIUM	GRADATION POOR	GRAIN SHAPE ANGULAR	GRAIN SHAPE SUBANGULAR	GRAIN SHAPE SUBROUNDED	GRAIN SHAPE ROUNDED	RELATIVE DENSITY LOOSE	RELATIVE DENSITY MED. DENSE	RELATIVE DENSITY DENSE	RELATIVE DENSITY VERY DENSE	PLASTICITY NONE	PLASTICITY LOW	PLASTICITY MEDIUM	PLASTICITY HIGH	CONSISTENCY SOFT	CONSISTENCY FIRM	CONSISTENCY STIFF	CONSISTENCY VERY STIFF	CONSISTENCY HARD	CEMENTATION NONE	CEMENTATION LIGHT	CEMENTATION MODERATE	CEMENTATION HEAVY
1							Shale Black Dry & hard																														
2							Clay lenses with Shale																														
3							Light Brown Clay Dry Soft																														
4							↓ ↓																														
5							Shale Black hard & Dry																														
6							↓ 02-17-10 ↓																														
7							Shale Black hard & Dry																														
8							↓ ↓																														
9							Same ↓ ↓																														
10							Same ↓ ↓																														
1							Same ↓ ↓																														
2							Light Brown Sandstone hard, Dry																														
3							↓ ↓																														
4							Same ↓ ↓																														
5							Shale Black Hard & Dry																														
6							↓ ↓																														
7																																				
8																																				
9																																				
10																																				

GROUNDWATER CONDITIONS

Date ____ No Groundwater Encountered ____

Date ____ Time ____ Depth ____

Date ____ Time ____ Depth ____

LOG OF BORING NO. MW4A

Project Prax A:S

Elevation Top of Hole _____ Datum _____ Job No. 238OJH020

Type / Size of Boring _____ Rig Type CME 75 Driller Shad Betts Prepared By Shad Betts Date 02-17-10

Reviewed By _____ Date _____

DEPTH, FEET	PENETRATION RESISTANCE BLOW / FOOT C	PENETRATION RESISTANCE BLOW / FOOT N/R	SAMPLE TYPE	DRY DENSITY, PCF	WATER CONTENT, %	SOIL CLASSIFICATION	SOIL TYPE DESCRIPTION (Modifier, Color, Density, Moisture, etc.)	MAXIMUM SIZE	PARTICLE SIZE DISTRIBUTION, % BOULDERS / COBBLES	GRAVEL	SAND	SILT & CLAY	GRADATION WELL	GRADATION MEDIUM	GRADATION POOR	GRAIN SHAPE ANGULAR	GRAIN SHAPE SUBANGULAR	GRAIN SHAPE SUBROUNDED	GRAIN SHAPE ROUNDED	RELATIVE DENSITY LOOSE	RELATIVE DENSITY MED. DENSE	RELATIVE DENSITY DENSE	RELATIVE DENSITY VERY DENSE	PLASTICITY NONE	PLASTICITY LOW	PLASTICITY MEDIUM	PLASTICITY HIGH	CONSISTENCY SOFT	CONSISTENCY FIRM	CONSISTENCY STIFF	CONSISTENCY VERY STIFF	CONSISTENCY HARD	CEMENTATION NONE	CEMENTATION LIGHT	CEMENTATION MODERATE	CEMENTATION HEAVY
1							Shale Black med. hard & Dry																														
2							↓ ↓																														
3							Same ↓ ↓																														
4							↓ ↓																														
5							↓ ↓																														
6							↓ ↓																														
7							↓ ↓																														
8							↓ ↓																														
9							↓ ↓																														
10							↓ ↓																														
1							Sandstone Light Brown hard & Dry ↓ ↓																																
2							↓ ↓																														
3							↓ ↓																														
4							↓ ↓																														
5							Same ↓ ↓																														
6							↓ ↓																														
7							↓ ↓																														
8							↓ ↓																														
9							↓ ↓																														
10							↓ ↓																														
1							Shale Black hard & Dry ↓ ↓																																
2							↓ ↓																														
3							↓ ↓																														
4							↓ ↓																														
5							Same ↓ ↓																														
6							↓ ↓																														
7							↓ ↓																														
8							↓ ↓																														
9							↓ ↓																														
10							↓ ↓																														
1							Same ↓ ↓																														
2							↓ ↓																														
3							↓ ↓																														
4							↓ ↓																														
5							Same ↓ ↓																														
6							↓ ↓																														
7							↓ ↓																														
8							↓ ↓																														
9							↓ ↓																														
10							↓ ↓																														
1							Same ↓ ↓																														
2							↓ ↓																														
3							↓ ↓																														
4							↓ ↓																														
5							Same ↓ ↓																														
6							↓ ↓																														
7							↓ ↓																														
8							↓ ↓																														
9							↓ ↓																														
10							↓ ↓																														

GROUNDWATER CONDITIONS

Date _____ No Groundwater Encountered _____

Date _____ Time _____ Depth _____

Date _____ Time _____ Depth _____

LOG OF BORING NO. MW4A

Project Praxair

Elevation Top of Hole ____ Datum ____ Job No. 2380JH020

Type / Size of Boring ____ Rig Type CME 75 Driller Shad Betts Prepared By Shad Betts Date 02-17-10

Reviewed By ____ Date ____

DEPTH, FEET	PENETRATION RESISTANCE BLOW/FOOT C	PENETRATION RESISTANCE BLOW/FOOT N/R	SAMPLE TYPE	DRY DENSITY, PCF	WATER CONTENT, %	SOIL CLASSIFICATION	SOIL TYPE DESCRIPTION (Modifier, Color, Density, Moisture, etc.)	MAXIMUM SIZE	PARTICLE SIZE DISTRIBUTION, % BOULDERS / COBBLES	GRAVEL	SAND	SILT & CLAY	GRADATION WELL / MEDIUM / POOR	GRAIN SHAPE ANGULAR / SUBANGULAR / SUBROUNDED / ROUNDED	RELATIVE DENSITY LOOSE / MED. DENSE / DENSE / VERY DENSE	PLASTICITY NONE / LOW / MEDIUM / HIGH	CONSISTENCY SOFT / FIRM / STIFF / VERY STIFF / HARD	CEMENTATION NONE / LIGHT / MODERATE / HEAVY
1							Shale Black Hard Dry											
2							↓											
3							Same											
4							↓											
125 5							Same											
6							↓											
7							Same											
8							↓											
9							Same											
130 10							↓											
1							Same											
2							↓											
3							Same											
4							↓											
135 5							Same											
6							↓											
7							Same											
8							↓											
9							Same											
140 10							↓											
1							Same											
2							↓											
3							Same											
4							↓											
145 5							Same											
6							↓											
7							Same											
8							↓											
9							Same											
150 10							↓											

GRADATION: WELL / MEDIUM / POOR

GRAIN SHAPE: ANGULAR / SUBANGULAR / SUBROUNDED / ROUNDED

RELATIVE DENSITY: LOOSE / MED. DENSE / DENSE / VERY DENSE

PLASTICITY: NONE / LOW / MEDIUM / HIGH

CONSISTENCY: SOFT / FIRM / STIFF / VERY STIFF / HARD

CEMENTATION: NONE / LIGHT / MODERATE / HEAVY

GROUNDWATER CONDITIONS

Date ____ No Groundwater Encountered

Date ____ Time ____ Depth ____

Date ____ Time ____ Depth ____

5 of 7

LOG OF BORING NO. MW4A

Project Drax Air

Job No. 238QJH020

Elevation Top of Hole _____ Datum _____

Prepared By Shad Betts Date 02-17-10

Type/Size of Boring _____ Rig Type CME 75 Driller Shad Betts

Reviewed By _____ Date _____

DEPTH, FEET	PENETRATION RESISTANCE BLOW/FOOT C	PENETRATION RESISTANCE BLOW/FOOT N/R	SAMPLE TYPE	DRY DENSITY, PCF	WATER CONTENT, %	SOIL CLASSIFICATION	SOIL TYPE DESCRIPTION (Modifier, Color, Density, Moisture, etc.)	MAXIMUM SIZE	PARTICLE SIZE DISTRIBUTION, % BOULDERS/COBBLES	GRAVEL	SAND	SILT & CLAY	GRADATION WELL MEDIUM POOR	GRAIN SHAPE ANGULAR SUBANGULAR SUBROUNDED ROUNDED	RELATIVE DENSITY LOOSE MED. DENSE DENSE VERY DENSE	PLASTICITY NONE LOW MEDIUM HIGH	CONSISTENCY SOFT FIRM STIFF VERY STIFF HARD	CEMENTATION NONE LIGHT MODERATE HEAVY
1							Shale Black hard Dry											
2							↓											
3							Same											
4							↓											
5							Same											
6							↓											
7							Same											
8							↓											
9							Same											
10							↓											
1							Same											
2							↓											
3							Same											
4							↓											
5							Same											
6							↓											
7							Same											
8							↓											
9							Same											
10							↓											
1							Same											
2							↓											
3							Same											
4							↓											
5							Same											
6							↓											
7							Same											
8							↓											
9							Same											
10							↓											
							Same											

Dat

LOG OF BORING NO. MW4A

Project Pcax A:C

Elevation Top of Hole ____ Datum ____ Job No. 2380JH020

Type / Size of Boring ____ Rig Type CME 75 Driller Shad Betts Prepared By Shad Betts Date 02-17-10

Reviewed By ____ Date ____

DEPTH, FEET	PENETRATION RESISTANCE BLOW/FOOT C	PENETRATION RESISTANCE BLOW/FOOT N/R	SAMPLE TYPE	DRY DENSITY, PCF	WATER CONTENT, %	SOIL CLASSIFICATION	SOIL TYPE DESCRIPTION (Modifier, Color, Density, Moisture, etc.)	MAXIMUM SIZE	PARTICLE SIZE DISTRIBUTION, % BOULDERS / COBBLES	GRAVEL	SAND	SILT & CLAY	GRADATION WELL MEDIUM POOR	GRAIN SHAPE ANGULAR SUBANGULAR SUBROUNDED ROUNDED	RELATIVE DENSITY LOOSE MED. DENSE DENSE VERY DENSE	PLASTICITY NONE LOW MEDIUM HIGH	CONSISTENCY SOFT FIRM STIFF VERY STIFF HARD	CEMENTATION NONE LIGHT MODERATE HEAVY
185							Shale Black hard Dry											
190							Same											
195							Same											
200							Same											
205							Same											
210							Same											

GRADATION: WELL, MEDIUM, POOR
GRAIN SHAPE: ANGULAR, SUBANGULAR, SUBROUNDED, ROUNDED
RELATIVE DENSITY: LOOSE, MED. DENSE, DENSE, VERY DENSE
PLASTICITY: NONE, LOW, MEDIUM, HIGH
CONSISTENCY: SOFT, FIRM, STIFF, VERY STIFF, HARD
CEMENTATION: NONE, LIGHT, MODERATE, HEAVY

GROUNDWATER CONDITIONS

Date ____ No Groundwater Encountered

Date ____ Time ____ Depth ____

Date ____ Time ____ Depth ____

7 of 7

LOG OF BORING NO. MW 1A

Project PeaxAcc

Elevation Top of Hole ______ Datum ______ Job No. 238 JH 020

Type/Size of Boring ______ Rig Type CME 75 Driller Shad Betts Prepared By Shad Betts Date 02-18-10

Reviewed By ______ Date ______

DEPTH, FEET	PENETRATION RESISTANCE BLOW/FOOT C	N/R	SAMPLE TYPE	DRY DENSITY, PCF	WATER CONTENT, %	SOIL CLASSIFICATION	SOIL TYPE DESCRIPTION (Modifier, Color, Density, Moisture, etc.)	MAXIMUM SIZE	PARTICLE SIZE DISTRIBUTION, % BOULDERS/COBBLES	GRAVEL	SAND	SILT & CLAY	GRADATION (WELL / MEDIUM / POOR)	GRAIN SHAPE (ANGULAR / SUBANGULAR / SUBROUNDED / ROUNDED)	RELATIVE DENSITY (LOOSE / MED. DENSE / DENSE / VERY DENSE)	PLASTICITY (NONE / LOW / MEDIUM / HIGH)	CONSISTENCY (SOFT / FIRM / STIFF / VERY STIFF / HARD)	CEMENTATION (NONE / LIGHT / MODERATE / HEAVY)
1							Brown Clay with Gravel Dry Soft											
2																		
3																		
4																		
5							Same											
6																		
7																		
8																		
9																		
10							Same											
1																		
2																		
3							Sand Stone lense from 13.5'-14.5'											
4																		
15							Brown Clay Hard Dry											
6																		
7																		
8																		
9																		
20							Sam											
1																		
2																		
3																		
4																		
25							Same											
6																		
7																		
8																		
9																		
30							Sam											

GROUNDWATER CONDITIONS

Date ______ No Groundwater Encountered

Date ______ Time ______ Depth ______

Date ______ Time ______ Depth ______

1 of 4

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

POD NUMBER (WELL NUMBER)	OSE FILE NUMBER(S)
MW 4A	
WELL OWNER NAME(S)	PHONE (OPTIONAL)
Pnm A:c	
WELL OWNER MAILING ADDRESS	CITY / STATE / ZIP
Po Box 127	K:tland NM 87417

WELL LOCATION (FROM GPS)	DEGREES	MINUTES	SECONDS	
	LATITUDE			N
	LONGITUDE			W

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

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS

North Side of evaporation Pond

2. OPTIONAL

(2.5 ACRE)	(10 ACRE)	(40 ACRE)	(160 ACRE)	SECTION	TOWNSHIP ☐ NORTH ☐ SOUTH	RANGE ☐ EAST ☐ WEST
¼	¼	¼	¼			

SUBDIVISION NAME	LOT NUMBER	BLOCK NUMBER	UNIT/TRACT

HYDROGRAPHIC SURVEY	MAP NUMBER	TRACT NUMBER

3. DRILLING INFORMATION

LICENSE NUMBER	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD 1186	Shad Betts	Env:ro-Drill

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
02-16-10	02-17-10	150.0	210'	90.6

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

STATIC WATER LEVEL IN COMPLETED WELL (FT): 90.6

DRILLING FLUID: ☒ AIR ☐ MUD ☐ ADDITIVES – SPECIFY:

DRILLING METHOD: ☒ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY:

DEPTH (FT) FROM	DEPTH (FT) TO	BORE HOLE DIA. (IN)	CASING MATERIAL	CONNECTION TYPE (CASING)	INSIDE DIA. CASING (IN)	CASING WALL THICKNESS (IN)	SLOT SIZE (IN)
150'	80.0	3.75	PVC	Flush	2.067	1/8	.020
80.0	0.0	"	"	Flush	"	1/8	Riser

4. WATER BEARING STRATA

DEPTH (FT) FROM	DEPTH (FT) TO	THICKNESS (FT)	FORMATION DESCRIPTION OF PRINCIPAL WATER-BEARING STRATA (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	YIELD (GPM)
86.2	TD		Shale & Sandstone Tensed Formation	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA	TOTAL ESTIMATED WELL YIELD (GPM)

FOR OSE INTERNAL USE — WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER	POD NUMBER	TRN NUMBER
LOCATION		PAGE 1 OF 2

5. SEAL AND PUMP

TYPE OF PUMP: ☐ SUBMERSIBLE ☐ JET ☒ NO PUMP – WELL NOT EQUIPPED
☐ TURBINE ☐ CYLINDER ☐ OTHER – SPECIFY:

ANNULAR SEAL AND GRAVEL PACK	DEPTH (FT) FROM	DEPTH (FT) TO	BORE HOLE DIA. (IN)	MATERIAL TYPE AND SIZE	AMOUNT (CUBIC FT)	METHOD OF PLACEMENT
	150	72.0	3.75	10-20 Silica Sand	18.0	Trammied
	72.0	72.6	"	Bentonite Chips	2.0	"
	72.6	0.0	"	Cement/Bentonite grout		"

6. GEOLOGIC LOG OF WELL

DEPTH (FT) FROM	DEPTH (FT) TO	THICKNESS (FT)	COLOR AND TYPE OF MATERIAL ENCOUNTERED (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	WATER BEARING?
			See Boring log	☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO

ATTACH ADDITIONAL PAGES AS NEEDED TO FULLY DESCRIBE THE GEOLOGIC LOG OF THE WELL

7. TEST & ADDITIONAL INFO.

WELL TEST — METHOD: ☒ BAILER ☐ PUMP ☐ AIR LIFT ☐ OTHER – SPECIFY:

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

ADDITIONAL STATEMENTS OR EXPLANATIONS: Bailed 8.7 gal of water, after 1.0 gal the well had clean water

8. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:

SIGNATURE OF DRILLER — DATE: 03-22-10

FOR OSE INTERNAL USE — WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER	POD NUMBER	TRN NUMBER
LOCATION		PAGE 2 OF 2

SMA

Souder, Miller & Associates • 2101 San Juan Boulevard • Farmington, NM 87401-2247
(505) 325-7535 • fax (505) 326-0045

March 30, 2010

Praxair
101 Road 6500
Kirtland, NM 87417

2120082

Attn: Mark Garrison
RE: Monitoring Wells at evaporation pond

Dear Mr. Garrison:

Souder Miller and Associates (SMA) has completed per your instructions and the document provided that outlined work to be completed in item 18. We have located three (3) monitoring wells at the evaporation pond. These wells were then tied to a NGS (National Geodetic Survey) First order Class II monument designated as E 432. The horizontal coordinates are displayed in the North American Datum of 1983 (US Survey Feet) and the vertical elevations are in the North American Vertical Datum of 1988. The attached exhibit shows information pertinent to the wells based on the above referenced information and record data.

Please do not hesitate to contact us if we can be of further assistance or if you have any questions regarding this correspondence.

Sincerely,

SOUDER, MILLER & ASSOCIATES

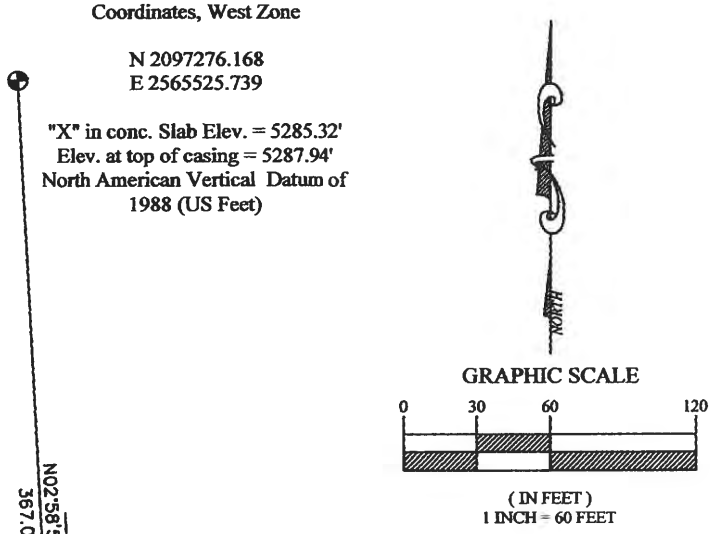
Jon E. Pendergraft, PLS
Senior Surveyor

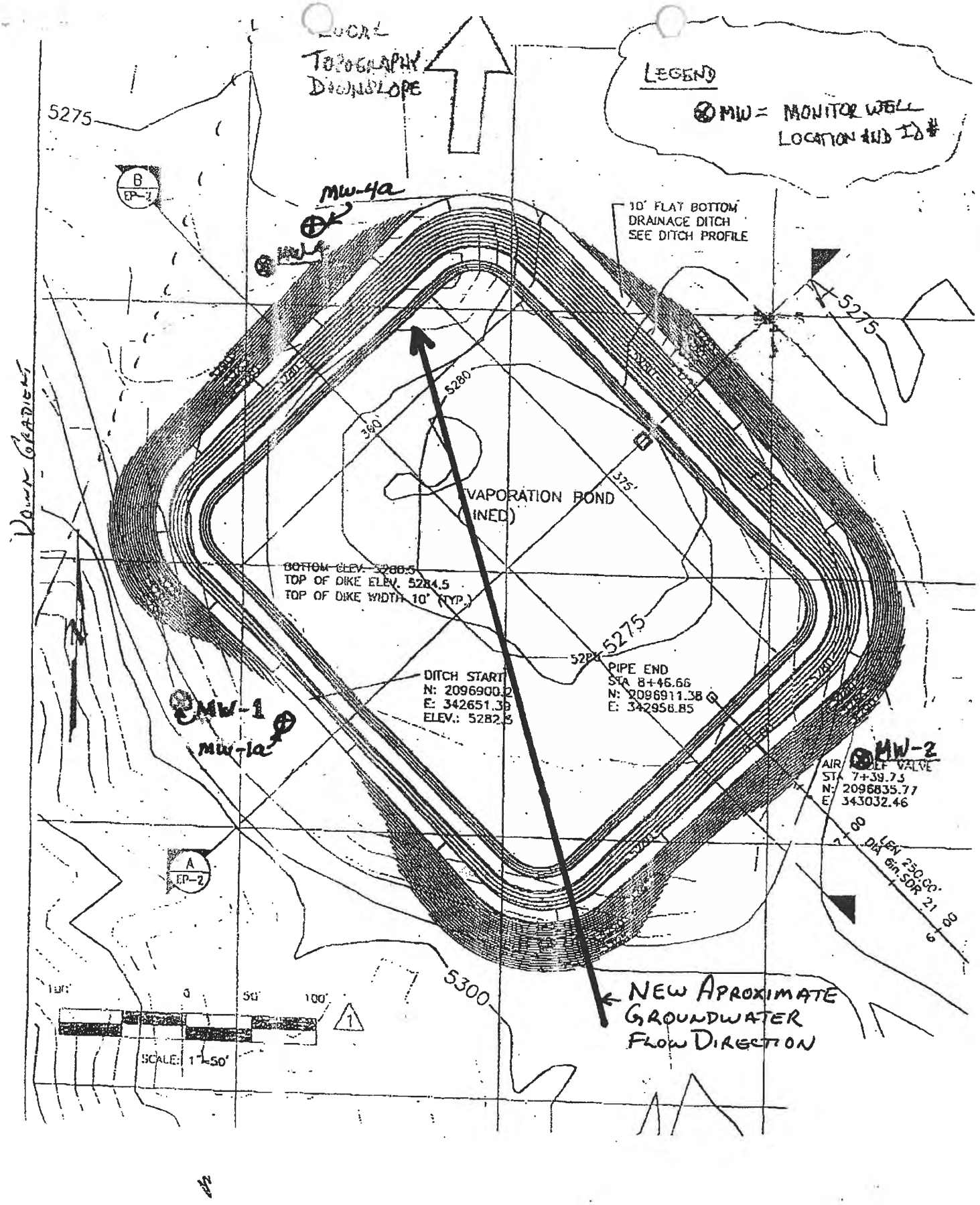
JEP/jep

Enclosure

SMA
Souder, Miller & Associates • 2101 San Juan Boulevard • Farmington, NM 87401-2247
(505) 325-7535 • fax (505) 326-0045

Monitoring Well Exhibit Praxair Site
Evaporation Pond 101 Road 6500
Kirtland, New Mexico, 87417
SMA # 2120082





WELL DEVELOPMENT AND SAMPLING LOG

Project No:		Project Name: Praxair Kirtland	Client: Praxair	Sampling:	
Location: Kirtland Plant		Well No: MW-1A	Activity:	Weather: Clear/cool 60s	
Project Manager: EJC		Date: 3/24/2010	Start Time: 1230	Measuring Point: TOC	
Depth to Water: 79.01		Depth to Product: n/a	Product Thickness: n/a		
Water Column Height: 24.49		Well Dia: 2"	Total Well depth: 103.5		

Sampling Method: Submersible Pump [x] Centrifugal Pump [ ] Peristaltic Pump [ ] Other [ ]

Bottom Valve Bailer [x] Double Check Valve Bailer [ ] Stainless-Steel Kemmerer [ ]

Criteria: 3 to 5 Casing Volumes of Water Removal ___x___ stabilization of Indicator Paramete ___x___ Other ____

Gal/ft x ft of water	Water Volume in Well		Gallons to be removed
	Gallons	Ounces	
24.49 x 0.16	3.92 x 3		11.76 (12)

Time (military)	pH (su)	SC (umhos/cm)	Temp	ORP (millivolts)	D.O. (mg/L)	Turbidity (NTU)	Vol Evac. (gal)	Comments/ Flow rate
1240	8.17	19,100	59.7				3	cloudy
1245	8.02	19,000	59.5				2	sandy/cloudy
1250	8	19,200	60.1				2	sandy/cloudy
1255	8.01	19,150	60				2	sandy/cloudy
1300	8	19,110	60				3	sandy/cloudy

Final: Time	pH	SC	Temp	Eh-ORP	D.O.	Turbidity	Vol Evac. (gal)	Comments/ Flow Rate
1300	8	19110	60				12	pumped/bailed

Comments: Well was purged to near dryness with pump and then bailed.

INSTRUMENTATION: pH Meter HACH Dual meter Temperature Meter HACH

DO Meter Other

Conductivity Meter Solinst Depth/Cond

Water Disposal onsite drums Sample ID MW-1A Sample Time 1300

Tests required on sample: TDS, Chloride, Sulfate, Boron, Iron, Manganese, Molybdenum

MS/MSD _____ BD _____ BD Name/Time _____ TB _____

WELL DEVELOPMENT AND SAMPLING LOG

Project No:		Project Name: Praxair Kirtland	Client: Praxair	Sampling:	
Location: Kirtland Plant	Well No: MW-2	Activity:		Weather: Clear/cool 60s	
Project Manager: EJC	Date: 3/24/2010	Start Time: 1350		Measuring Point: TOC	
Depth to Water: 52.25	Depth to Product: n/a	Product Thickness: n/a			
Water Column Height: 26.35	Well Dia: 2"	Total Well depth: 78.6			

Sampling Method: Submersible Pump [x] Centrifugal Pump [ ] Peristaltic Pump [ ] Other [ ]

Bottom Valve Bailer [ ] Double Check Valve Bailer [ ] Stainless-Steel Kemmerer [ ]

Criteria: 3 to 5 Casing Volumes of Water Removal x stabilization of Indicator Paramete x Other

Gal/ft x ft of water	Water Volume in Well		Gallons to be removed
	Gallons	Ounces	
26.35 x 0.16	4.22 x 3		12.66 (13)

Time (military)	pH (su)	SC (umhos/cm)	Temp	ORP (millivolts)	D.O. (mg/L)	Turbidity (NTU)	Vol Evac. (gal)	Comments/ Flow rate
1350	7.2	8,510	59				2	cloudy
1355	7.15	9,000	58.5				2	clear/not as cloudy
1405	7.12	9,000	60.1				2	clear/not as cloudy
1410	7.15	8,950	60				2	clear/not as cloudy
1415	7.16	8,800	60.2				2	clear/not as cloudy
1420	7.15	8,500	60				2	clear/not as cloudy

Final: Time	pH	SC	Temp	Eh-ORP	D.O.	Turbidity	Vol Evac. (gal)	Comments/ Flow Rate
1420	7.15	9500	60.5				13	pumped good

Comments:

INSTRUMENTATION: pH Meter HACH Dual meter Temperature Meter HACH

DO Meter Other

Conductivity Meter Solinst Depth/Cond

Water Disposal onsite drums Sample ID MW-4A Sample Time 1325

Tests required on sample: TDS, Chloride, Sulfate, Boron, Iron, Manganese, Molybdenum

MS/MSD _____ BD _____ BD Name/Time _____ TB _____

WELL DEVELOPMENT AND SAMPLING LOG

Project No:		Project Name: Praxair Kirtland	Client: Praxair	Sampling:	
Location: Kirtland Plant		Well No: MW-4A	Activity:	Weather: Clear/cool 60s	
Project Manager: EJC		Date: 3/24/2010	Start Time: 1305	Measuring Point: TOC	
Depth to Water: 130.28		Depth to Product: n/a	Product Thickness: n/a		
Water Column Height: 23.52	Well Dia: 2"	Total Well depth: 153.8			

Sampling Method: Submersible Pump [x] Centrifugal Pump [ ] Peristaltic Pump [ ] Other [ ]

Bottom Valve Bailer [ ] Double Check Valve Bailer [ ] Stainless-Steel Kemmerer [ ]

Criteria: 3 to 5 Casing Volumes of Water Removal ___x___ stabilization of Indicator Paramete ___x___ Other ____

Gal/ft x ft of water	Water Volume in Well		Gallons to be removed
	Gallons	Ounces	
23.52 x 0.16	3.76 x 3		11.28 (11)

Time (military)	pH (su)	SC (umhos/cm)	Temp	ORP (millivolts)	D.O. (mg/L)	Turbidity (NTU)	Vol Evac. (gal)	Comments/ Flow rate
1305	6.82	13,500	60.5				2	cloudy
1310	7.01	13,650	61				2	
1315	7.09	13,505	59.5				2	
1320	7.09	13, 500	60				2	
1325	7.1	13,500	60.5				2	

Final: Time	pH	SC	Temp	Eh-ORP	D.O.	Turbidity	Vol Evac. (gal)	Comments/ Flow Rate
1325	7.1	13500	60.5				11	pumped good

Comments:

INSTRUMENTATION: pH Meter HACH Dual meter Temperature Meter HACH

DO Meter Other

Conductivity Meter Solinst Depth/Cond

Water Disposal onsite drums Sample ID MW-4A Sample Time 1325

Tests required on sample: TDS, Chloride, Sulfate, Boron, Iron, Manganese, Molybdenum

MS/MSD _____ BD _____ BD Name/Time _____ TB _____

APPENDIX B

From:	Varsa, Steve
To:	Smith, Cory, EMNRD
Cc:	Griswold, Jim, EMNRD; Wiley, Joe
Bcc:	Varsa, Steve
Subject:	El Paso Natural Gas Company - San Juan River Gas Plant, Kirkland - notice of upcoming product recovery activities
Date:	Thursday, August 13, 2020 8:18:00 AM

Hi Cory -

This correspondence is to provide notice to the NMOCD of planned product recovery activities at the above-referenced El Paso Natural Gas Company (EPNG) site. The site activities are to occur on August 20, 2020. Mobile dual-phase extraction will be utilized to remove hydrocarbons from monitoring well MW-20, using the same methodology employed by Stantec in recent years at several El Paso CGP Company Groundwater Pit sites.

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

Thank you,
Steve

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

From: Smith, Cory, EMNRD
To: Varsa, Steve
Cc: Griswold, Jim, EMNRD; Wiley, Joe
Subject: RE: El Paso Natural Gas Company/San Juan River Gas Plant - Notice of upcoming sampling activities
Date: Thursday, November 05, 2020 9:03:17 AM

Steve,

Thank you for the notice of Sampling

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 6:16 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 Natural Gas Company/San Juan River Gas Plant - Notice of upcoming sampling activities

Hi Cory –

On behalf of El Paso Natural Gas Company (EPNG), this correspondence is to provide notice to the NMOCD of upcoming groundwater sampling and monitoring activities at the above-referenced project site. Field activities are to occur on November 15 and 16, 2020.

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

Thank you,
Steve

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

APPENDIX C

August 24, 2020

Mr. Stephen Varsa
Senior Hydrogeologist
Stantec Consulting Services, Inc.
11153 Aurora Avenue
Des Moines, IA 50322

Dear Steve:

Re: San Juan River Gas Plant, Kirtland, NM (Event #1)

At your request, AcuVac Remediation, LLC (AcuVac) performed one 8.0 hour Mobile Dual Phase Extraction (MDPE), Event #1 on monitoring well MW-20, at the above referenced site (Site) on August 20, 2020. The source of the LNAPL in well MW-20 was a release of unknown origin.

The following is the Report and a copy of the Operating Data collected during Event #1. Additionally, attached with this report, Table #1 contains the Summary Well Data, and Table #2 contains the Summary Recovery Data.

OBJECTIVES

The objectives of this MDPE event was to:

- Maximize liquid and vapor phase petroleum hydrocarbon removal from groundwater and soils in the subsurface formations within the influence of the extraction well.
- Expose the capillary fringe area and below to the extraction well induced vacuums.
- Increase the vapor-phase and liquid LNAPL specific yields with high induced vacuums.
- Create an induced hydraulic gradient to gain hydraulic control of the area surrounding the extraction well during the event periods.
- Complete the MDPE event in a step-wise manner in order to help evaluate the lithologic unit(s) from which the LNAPL is entering the well, and potential influence on nearby monitoring points.

The purpose of MDPE event was the collection of data regarding the recovery of Phase Separated Hydrocarbons (PSH) or affected dissolved phase groundwater present at the Site through the removal of petroleum hydrocarbons in both liquid and vapor phases. PSH is referred to as petroleum hydrocarbons or Light Non-Aqueous Phase Liquids (LNAPL).

METHODS AND EQUIPMENT

AcuVac owns and maintains an inventory of equipment to perform MDPE events. No third party equipment was utilized. The event at the Site was conducted using the AcuVac I-6 System (System) with a Roots RAI-33 blower, used as a vacuum pump, and a Roots RAI-22 positive displacement blower. The table on the following page lists equipment and instrumentation employed, and the data element captured by each.

Equipment and Instrumentation Employed by AcuVac	
Measurement Equipment	**Data Element**
Extraction Well Induced Vacuum and Flow	
Dwyer Magnehelic Gauges	Extraction Well Vacuum
Dwyer Averaging Pitot Tubes / Magnehelic Gauges	Extractions Well Vapor Flow
Observation Wells	
Dwyer Digital Manometer	Vacuum / Pressure Influence
Extraction Well Vapor Monitoring	
V-1 Vacuum Box	Extraction Well Non-Diluted Vapor Sample Collection
HORIBA® Analyzer	Extraction Well Vapor TPH Concentration
QRae Mini III O_2 Monitor	Extraction Well Vapor Oxygen Content
LNAPL Thickness	
Solinst Interface Probes Model 122	Depth to LNAPL and Depth to Groundwater
Liquid Recovery	
Totalizer Flow Meter	Liquid Flow and Total Volume
Redi-Flo 2 Total Fluids Pump	In-Well Pumping
Redi-Flo 2 Pump Controller	Pump Speed and Other Diagnostics
Groundwater Depression / Upwelling	
In-Situ Level Troll 700 Data Logger	Liquid Column in Extraction and Observation Wells
In-Situ Vented Cable with Chamber	Equalize Well Vacuum/Pressure
In-Situ Rugged Reader Data Logger Interface	Capture Readings from Data Logger Trolls
Atmospheric Conditions	
Testo Model 511	Relative and Absolute Barometric Pressure

The vacuum extraction portion of the System consists of a vacuum pump driven by an internal combustion engine (IC engine). The vacuum pump connects to the extraction well, and the vacuum created on the extraction well causes light hydrocarbons in the soil to volatilize and flow through a moisture knockout tank to the vacuum pump and the IC engine where they burn as part of the normal combustion process. Auxiliary propane powers the engine if the well vapors do not provide the required energy.

The IC engine provides the power necessary to achieve and maintain high induced vacuums and/or high well vapor flows needed to maximize the vacuum radius of influence.

Emissions from the engine pass through two of three catalytic converters to maximize destruction of effluent hydrocarbon vapors. The engine's fuel-to-air ratio is adjusted to maintain efficient combustion. Because the engine powers all equipment, the System stops when the engine stops preventing uncontrolled release of hydrocarbons. Since the System operates entirely under vacuum, any leaks in the seals or connections leak into the System and not into the atmosphere. Vacuum loss, low oil pressure, over-speed, or overheating automatically shut down the engine.
Groundwater extraction was provided by an in-well Grundfos Redi-Flo 2 total fluids pump that discharged through a totalizer/volume meter. The discharge line from this meter was then connected to the stand-by tank. The electrical power for the groundwater pump was supplied from a 120v Honda generator. The

groundwater flow rate was adjusted to maintain a target level. An interface meter was used to collect depth to groundwater and depth to LNAPL measurements. Grab samples of recovered liquid were taken periodically in a graduated cylinder to determine the average percentage of LNAPL recovered.

The design of the AcuVac System enabled independent control of both the induced well vacuum and the groundwater pumping functions such that the AcuVac team could control the induced hydraulic gradient to increase exposure of the formation to soil vapor extraction (SVE). The ability to separate the vapor and liquid flows within the extraction well improved the LNAPL recovery rates and enabled the AcuVac team to record data specific to each media.

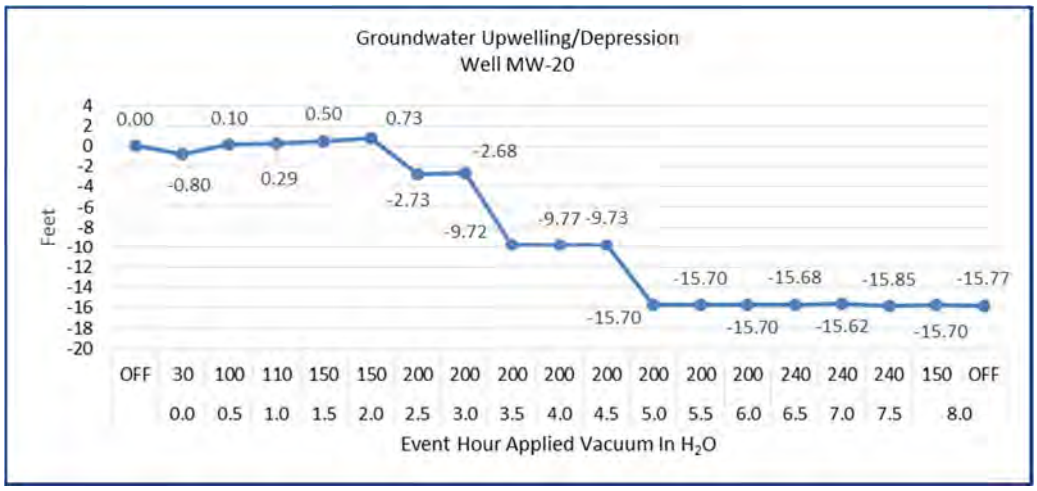
OVERVIEW OF MDPE EVENT #1 - WELL MW-20

For Event #1, the work plan was to perform Soil Vapor Extraction (SVE) only at the start of the event to monitor the extent of groundwater upwelling, if any, created by the SVE, and to evaluate the presence of hydrocarbons in the nearby vadose zone. At the conclusion of the SVE-only portion of the event, groundwater pumping commenced to create a groundwater depression at a predetermined level, and then the groundwater pump was set at a rate required to maintain the depression.

At event hour 2.0, the groundwater pump was started and the total liquids level in the well decreased approximately 2.7 ft at which point the pumping ceased. The pump was cycled on/off to maintain the depression.

At event hour 3.5, the total liquids depression was increased to approximately 9.75 ft, at which point the pump was cycled on/off to maintain the total liquids depression.

At event hour 5.0, the total liquids depression was increased to approximately 15.70 ft below static level. The groundwater pump was cycled on/off for the remainder of the event.



Based upon the Available Well Screen graph below, the top of the sand layer at approximately 20 ft below ground surface was exposed to the induced extraction well vacuum for the duration of Event #1.

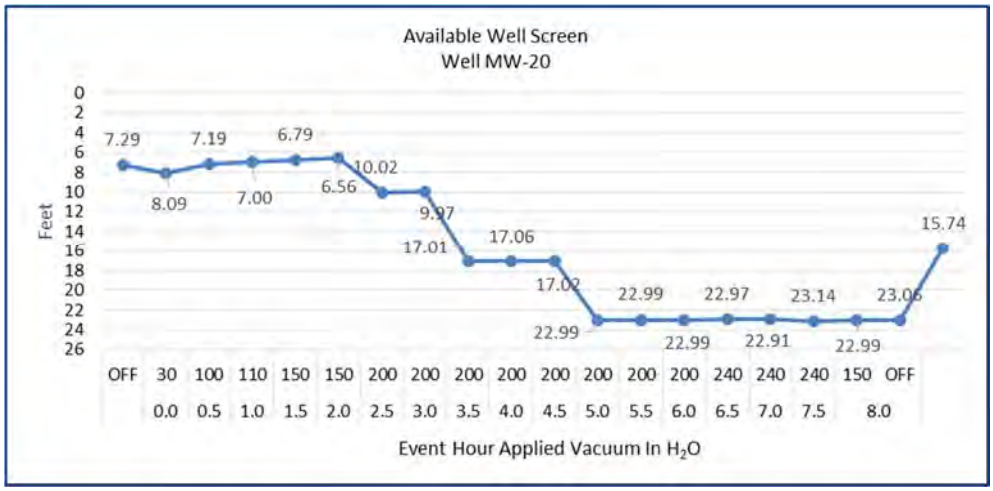


Table A contains the basic data for each well and method performed on each well. Table B contains more detailed information.

Table A
Wells Present on Site

Well Number	Well Diameter (in)	Total Depth (ft)	Screen Interval (ft bgs)	Distance from Extraction Well (ft)
Extraction Well				
MW-20	4.0	45.0	20.0 - 45.0	-
Observation Well				
MW-11	4.0	55.5	15.0 – 55.5	173

Table B
Available Well Screen - Static

Well Number	Well Diameter (in)	Total Depth (ft)	Screen Interval (ft bgs)	Depth to Groundwater Static Ft BTOC	Available Well Screen Static (ft)	Depth to Base of Sand Unit (ft bgs)
Extraction Well						
MW-20	4.0	45.0	20.0 – 45.0	28.16	8.16	29.0
Observation Wells						
MW-11	4.0	55.5	15.0 – 55.5	43.20	28.2	Not Logged

SUMMARY OF MDPE EVENT #1- WELL MW-20

- Event #1 was conducted on August 20, 2020. The total time for Event #1 was 8.0 hours. This was the first event completed from well MW-20, and therefore, there was no comparative data from this well.
- The total liquid volume recovered was 24 gallons (gals) with no measurable liquid LNAPL recovered. A trace amount of LNAPL was observed in the recovery tank upon completion of the event.

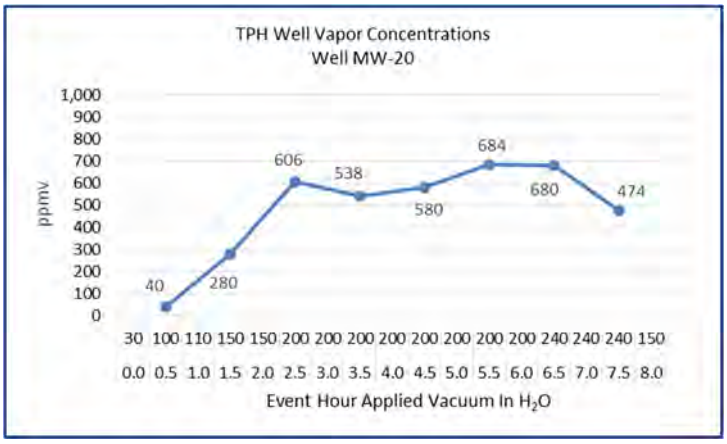
- Based on the HORIBA® analytical data, the total vapor LNAPL burned as IC engine fuel was 0.026 gals for a total liquid and vapor LNAPL recovery of 0.16 gals.
- The total liquid volume and liquid and vapor LNAPL recovered for Event #1 is presented in the table below.

Recovery Summary	
Data Element	Event #1 MW-20 8/20/2020
Event Hours	**8.0**
GW Recovery	24
LNAPL Recovery	
Liquid	-
Vapor	0.026
Total	0.026
Gallons/Hour	**-**

- The HORIBA® analytical data from the influent vapor samples for Event #1 is contained in the table below:

Influent Vapor Data		
Data Element		Event #1 MW-20 8/20/2020
Event Hours		**8.0**
TPH- Maximum	ppmv	684
TPH- Average	ppmv	485
TPH- Minimum	ppmv	40
TPH- Initial	ppmv	40
TPH- Ending	ppmv	474
CO_2	%	1.05
CO	%	0.01
O_2	%	15.3
H_2S	ppm	0.0

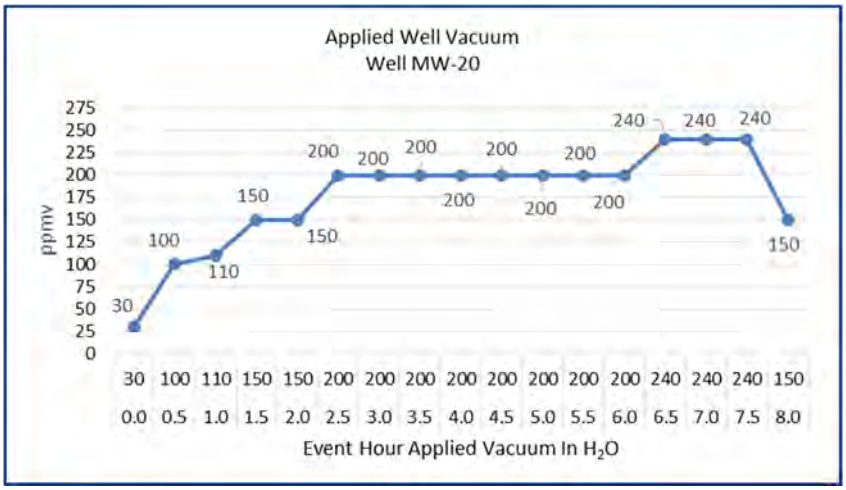
- A graph of the TPH vapor concentrations in the influent vapor samples for well MW-20 for Event #1 is presented below:

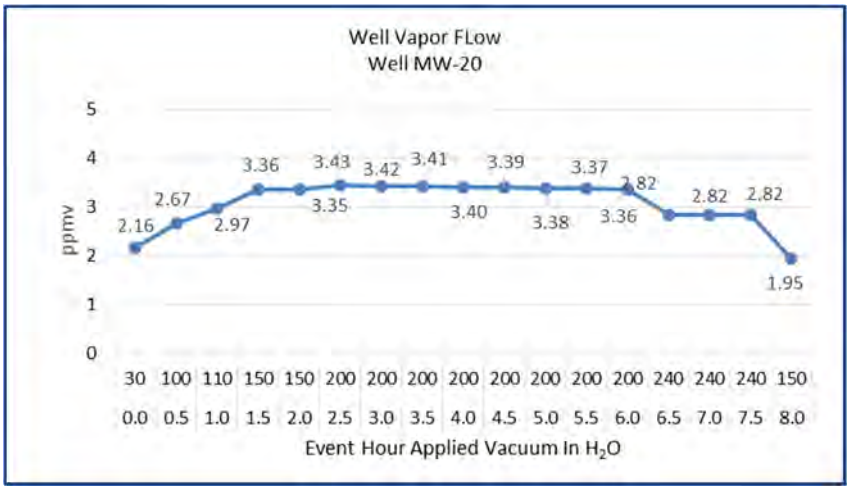


As the total liquid level in well MW-20 was depressed as a result of the groundwater pumping, TPH vapor concentrations increased following a reduction in the total liquid levels approximately 3 ft from the static levels. Vapor concentrations fluctuated from these elevated levels as the test progressed and extraction well total liquid levels were further depressed.

- The extraction well induced vacuum and well vapor flow for Event #1 is contained in the table below:

Well Vacuum and Well Vapor Flow		
Data Element		Event #1 MW-20 08/20/2020
Event Hours		**8.0**
Well Vacuum- Maximum	In H_2O	240.00
Well Vacuum- Average	In H_2O	177.06
Well Vacuum- Minimum	In H_2O	30.00
Well Vapor Flow- Maximum	scfm	3.43
Well Vapor Flow- Average	scfm	3.06
Well Vapor Flow- Minimum	scfm	1.95





The final well vapor sample was obtained at event hour 7.5. The applied well vacuum was reduced in order to obtain the sample, and the well vacuum remained at 150 InH_2O for the remainder of the event.

- The groundwater pump inlet was set at 44.0 feet (ft) below top of casing (BTOC) in well MW-20. The average groundwater pump rate was 0.05 gallons per minute (gpm), and the maximum groundwater pump rate was 0.23 gpm. The total liquid volume recovered was 24 gals.

- The groundwater levels recorded at the start and conclusion of Event #1 are contained in the table below

Groundwater Data Event #1			
		MW-20 EW	MW-11 OW
Event Start			
Depth to Groundwater	Ft BTOC	28.16	26.32
Depth to LNAPL	Ft BTOC	28.16	-
LNAPL Thickness	ft	1.18	-
Hydro Equivalent	Ft BTOC	27.29	26.32
Event Conclusion			
Depth to Groundwater	Ft BTOC	43.20	26.32
Depth to LNAPL	Ft BTOC	42.48	-
LNAPL Thickness	ft	0.72	-
Hydro Equivalent	Ft BTOC	42.67	26.32

EW- Extraction well
OW- Outer well

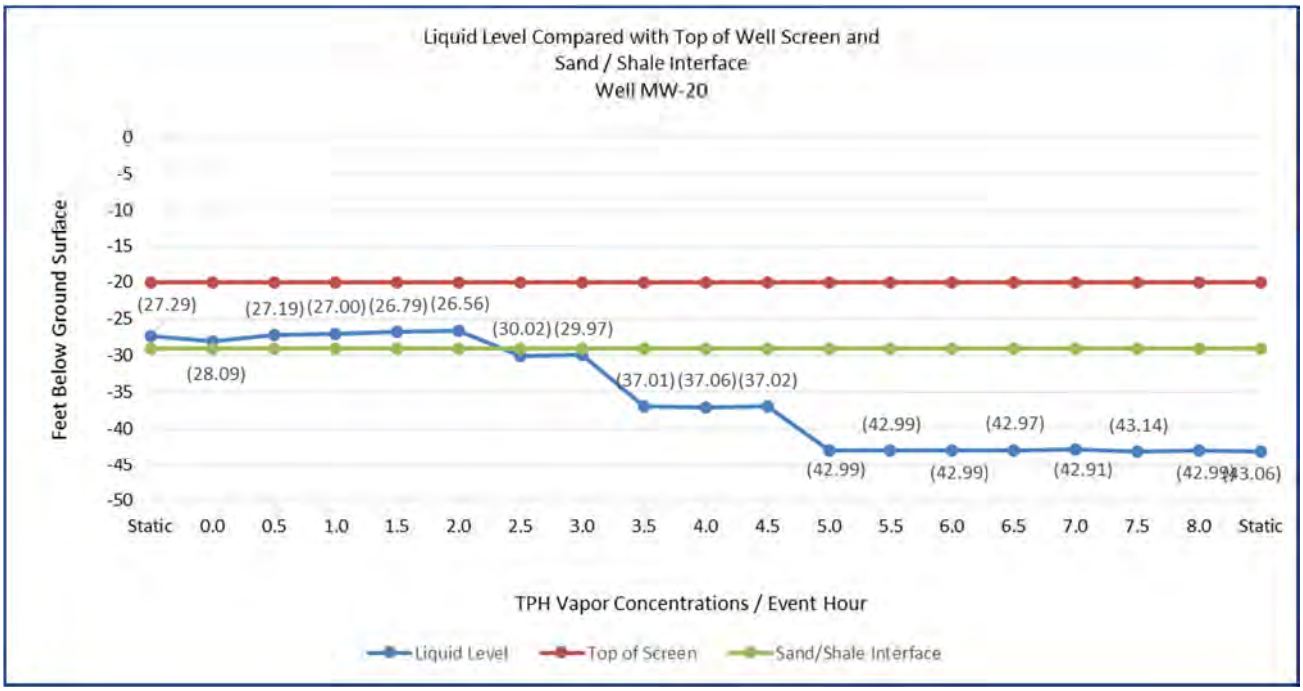
- A LNAPL thickness of 1.18 ft was recorded in well MW-20 prior to the start of Event #1, and a LNAPL thickness of 0.72 ft was present in well MW-20 at the conclusion of Event #1.

The total hydrocarbons removed during the 8.0 hour MDPE Event #1, extraction well MW-20, both as liquid and vapor phases, was 0.026 gallons.

ADDITIONAL INFORMATION EVENT #1

- The groundwater did not contain any free phase LNAPL. However, based upon the odor of the liquid, it contained a high concentration of dissolved phase LNAPL.
- The average groundwater pump rate was extremely low at 0.05 gallons per minute. Well MW-20 was pumped down at event hour 2.5 which produced approximately 7.0 gallons of liquid, at event hour 3.5 which produced approximately 6 gallons of liquid, and again at event hour 5.0 which produced approximately 5 gallons of liquid. After event hour 5.0, only 2.0 gallons of liquid were recovered.
- At the conclusion of the event, 0.72 ft of LNAPL were present on the well. This LNAPL most likely collected above the pump at the conclusion of the event.

- The graph below shows the liquid level in well MW-20 relative to the top of well screen (20 ft bgs) with the sand /shale layer interface and TPH vapor concentration on the axis. The graph illustrates that the TPH vapor concentrations increased as the shale layer was exposed by the groundwater pumping.



METHOD OF CALIBRATION AND CALCULATIONS

The HORIBA® Analytical instrument is calibrated with hexane, carbon monoxide and carbon dioxide. The formula used to calculate the emission rate is:

$$ER = TPH\ (ppmv) \times MW\ (hexane) \times Flow\ Rate\ (scfm) \times 1.58E^{-7} \frac{(min)(lb\ mole)}{(hr)(ppmv)(ft^3)} = lbs/hr$$

INFORMATION INCLUDED WITH REPORT

- Drilling Well Log Well MW-20
- Table #1 Summary Well Data
- Table #2 Summary Recovery Data
- Recorded Data
- Photographs of Event #1

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

Sincerely,
ACUVAC REMEDIATION, LLC

Paul D. Faucher
President

Summary Well Data
Table #1

Event		1
WELL NO.		**MW-20**
Event and Well Data		
Event Date		08/20/2020
Current Event Hours		8.0
Cumulative Event Hours		8.0
Total Depth	ft BGS	45.0
Well Screen	ft BGS	20.0 - 45.0
Well Size	in	4.0
Groundwater Data		
Depth To Groundwater - Static - Start Event	ft BTOC	28.16
Depth To LNAPL - Static - Start Event	ft BTOC	26.98
LNAPL Thickness	ft	1.18
Hydro-Equivalent- Beginning	ft BTOC	27.29
Depth To Groundwater - End Event	ft BTOC	43.20
Depth To NAPL - End Event	ft BTOC	42.48
LNAPL Thickness	ft	0.72
Hydro-Equivalent- Ending	ft BTOC	42.67
Extraction Data		
Maximum Extraction Well Vacuum	In H_2O	240.00
Average Extraction Well Vacuum	In H_2O	177.06
Minimum Extraction Well Vacuum	In H_2O	30.00
Maximum Extraction Well Vapor Flow	scfm	3.43
Average Extraction Well Vapor Flow	scfm	3.06
Minimum Extraction Well Vapor Flow	scfm	1.95
Maximum GW / LNAPL Pump Rate	gpm	0.23
Average GW / LNAPL Pump Rate	gpm	0.05
Influent Data		
Maximum TPH	ppmv	684
Average TPH	ppmv	485
Minimum TPH	ppmv	40
Initial TPH	ppmv	40
Final TPH	ppmv	474
Average CO_2	%	1.05
Average CO	%	0.01
Average O_2	%	15.3
Average H_2S	ppm	0.0

Summary Recovery Data
Table #2

Event		1
WELL NO.		**MW-20**
Recovery Data- Current Event		
Total Liquid Volume Recovered	gals	24
Total Liquid LNAPL Recovered	gals	Trace
Total Liquid LNAPL Recovered / Total Liquid	%	-
Total Liquid LNAPL Recovered / Total LNAPL	%	-
Total Vapor LNAPL Recovered	gals	0.026
Total Vapor LNAPL Recovered / Total LNAPL	%	100.00
Total Vapor and Liquid LNAPL Recovered	gals	0.026
Average LNAPL Recovery	gals/hr	-
Total LNAPL Recovered	lbs	0.16
Total Volume of Well Vapors	cu. ft	1,647
Recovery Data- Cumulative		
Total Liquid Volume Recovered	gals	24
Total Liquid LNAPL Recovered	gals	0
Total Vapor LNAPL Recovered	gals	0.026
Total Vapor and Liquid LNAPL Recovered	gals	0.026
Average LNAPL Recovery	gals/hr	-
Total LNAPL Recovered	lbs	0.16
Total Volume of Well Vapors	cu. ft	1,647

AcuVac Remediation

OPERATING DATA – SVE/MDPE EVENT # 1 PAGE # 1 ACUVAC SYSTEM

Location: San Juan River Gas Plant, Kirtland, NM **Project Managers: Faucher / George**

Well # MW-20		Date	8/20/20					
		Time	0645	0715	0745	0815	0845	0915
		Hr Meter	9462.5					
ENGINE / BLOWER	Engine Speed	RPM	2000	2000	1900	1900	1900	1900
	Oil Pressure	psi	60	60	55	55	55	55
	Water Temp	°F	130	130	135	140	140	140
	Alternator	Volts	14	14	14	14	14	14
	Intake Vacuum	In Hg	18	18	18	18	18	18
	Gas Flow Fuel/Propane	cfh	120	125	125	125	125	125
ATMOSPHERE VACUUM / AIR	Extraction Well Vac.	In H_2O	30	100	110	150	150	200
	Extraction Well Flow	scfm	2.16	2.67	2.97	3.36	3.35	3.43
	Influent Vapor Temp.	°F	66	66	70	74	76	82
	Air Temp	°F	64	64	66	68	70	72
	Barometric Pressure	"Hg	30.16	30.16	30.18	24.84 30.19	24.84 30.19	24.84 30.19
VAPOR / INFLUENT	TPH	ppmv	-	40	-	280	-	606
	CO_2	%	-	.22	-	.18	-	.98
	CO	%	-	0	-	.01	-	.01
	O_2	%	-	15.4	-	15.3	-	15.3
	H_2S	ppm	-	0	-	0	-	0
OW VACUUM	MW-11	In H_2O	0	0	0	0	0	0
		In H_2O						
		In H_2O						
OW DL HEAD	MW-11	ft	12.42	12.42	12.42	12.42	12.42	12.42
		ft						
		ft						
RECOVERY	Totalizer	gals	24585	24585	24585	24585	24585	24592
	Pump Rate	gals/min	-	-	-	-	.23	-
	Total Volume	gals	-	-	-	-	7.0	7.0
	NAPL	% Vol	-	-	-	-	-	-
	NAPL	Gals	-	-	-	-	-	-
EW	Data Logger Head 15.77	ft	14.97	15.87	16.06	16.27	16.50	13.04
	GW Depression	ft	(0.80)	.10	.29	.50	.73	(2.73)
	Extraction Well	DTNAPL	26.98					
	Extraction Well	DTGW	28.16					

NAPL 1.18

AcuVac Remediation

OPERATING NOTES – SVE/MDPE Test # 1 PAGE # 2 ACUVAC SYSTEM

Location: San Juan River Gas Plant, Kirtland, NM Project Managers: Faucher / George

Date:

NOTES

8/19/20 1905 HRS

ARRIVE ON SITE TO SURVEY SITE AND LOCATE PUMP IN THE EXTRACTION WELL.

PERFORMED TAILGATE SAFETY MTG. DISUSSED SITE SPECIFIC HAZARDS.

GAUGE WELLS MW-20 AND MW-11.

PLACE DATA LOGGER IN WELL MW-11 W/MANIFOLD TO HOLD DATA LOGGER AND ACCEPT A DIGITAL MANOMETER.

LOCATED IN WELL PUMP IN WELL MW-20 APPROXIMATELY 1.0 FT ABOVE WELL BOTTOM. DATA LOGGER PLACED 1.5 FT ABOVE PUMP INLET

2000 HRS SECURED THE WELL DEPARTED SITE

8/20/20 0625 ARRIVED ON SITE. POSITIONED THE ACUVAC SYSTEM NEAR WELL MW-20. CONNECTED VAC HOSE TO WELL & SYSTEM. STARTED ACUVAC SYSTEM. OBTAINED STATIC DL READINGS AT WELLS MW-20 AND MW-20. RECORDED STATIC VAC INFLUENCE AT WELL MW-11

0645 STARTED EVENT/TEST. INITIAL VACUUM SET AT 30 IN H2O WVF 2.16 SCFM. DL-IN WELL MW-20 (LEL) ON DECREASING TREND. TIGHT FORMATION. VACUUM MOST LIKELY "FRAGMENTING" WATER COLUMN, RELIEVING PRESSURE ON DL.

0715 INITIAL WELL VAPOR SAMPLE RECORDED TPH VAPOR CONCENTRATIONS OF 40 PPMV.

VAC ↑ 100 IN H_2O, WVF ↑ 2.67 SCFM

AcuVac Remediation

OPERATING DATA – SVE/MDPE EVENT # 1 PAGE # 3 ACUVAC SYSTEM

Location: San Juan River Gas Plant, Kirtland, NM **Project Managers: Faucher / George**

		Date	8/20/20					
Well #		Time	0945	1015	1045	1115	1145	1215
MW-20		Hr Meter						
ENGINE / BLOWER	Engine Speed	RPM	1900	1900	1900	1900	1800	1800
	Oil Pressure	psi	55	55	55	55	55	55
	Water Temp	°F	140	140	145	150	150	155
	Alternator	Volts	14	14	14	14	14	14
	Intake Vacuum	In Hg	18	18	18	18	18	18
	Gas Flow Fuel/Propane	cfh	125	125	125	125	125	125
ATMOSPHERE VACUUM / AIR	Extraction Well Vac.	In H_2O	200	200	200	200	200	200
	Extraction Well Flow	scfm	3.42	3.41	3.40	3.39	3.38	3.37
	Influent Vapor Temp.	°F	86	88	92	94	100	102
	Air Temp	°F	75	79	82	84	88	90
	Barometric Pressure	"Hg	24.84 30.19	24.84 30.19	24.83 30.18	24.83 30.17	24.81 30.15	24.80 30.14
VAPOR / INFLUENT	TPH	ppmv	-	538	-	580	-	684
	CO_2	%	-	.94	-	1.34	-	1.84
	CO	%	-	.01	-	.01	-	.01
	O_2	%	-	15.4	-	15.4	-	15.4
	H_2S	ppm	-	0	-	0	-	0
OW VACUUM	MW-11	In H_2O	0	0	0	0	0	0
		In H_2O						
		In H_2O						
OW DL HEAD	MW-11	ft	12.42	12.42	12.42	12.41	12.42	12.42
		ft						
		ft						
RECOVERY	Totalizer	gals	24592	24598	24601	24602	24607	24608
	Pump Rate	gals/min	.20	.10	.03	.17	.03	.03
	Total Volume	gals	7.0	13.0	16.0	17.0	22	23
	NAPL	% Vol	-	-	-	-	-	-
	NAPL	Gals	-	-	-	-	-	-
EW	Data Logger Head	ft	13.09	6.05	6.00	6.04	.07	.07
	GW Depression	ft	(2.68)	(9.72)	(9.77)	(9.73)	(15.70)	(15.70)
	Extraction Well	DTNAPL						
	Extraction Well	DTGW						

AcuVac Remediation

OPERATING DATA – SVE/MDPE EVENT # 1 PAGE # 4 ACUVAC SYSTEM

Location: San Juan River Gas Plant, Kirtland, NM **Project Managers: Faucher / George**

Well # MW-20		Date	8/20/20					
		Time	1245	1315	1345	1415	1445	
		Hr Meter						
ENGINE / BLOWER	Engine Speed	RPM	1800	1800	1800	1800	1800	
	Oil Pressure	psi	55	55	55	55	55	
	Water Temp	°F	160	160	160	160	160	
	Alternator	Volts	14	14	14	14	14	
	Intake Vacuum	In Hg	18	18	18	18	18	
	Gas Flow Fuel/Propane	cfh	125	125	125	125	125	
ATMOSPHERE VACUUM / AIR	Extraction Well Vac.	In H_2O	200	240	240	240	150	
	Extraction Well Flow	scfm	3.36	2.82	2.82	2.82	1.95	
	Influent Vapor Temp.	°F	106	110	110	110	110	
	Air Temp	°F	91	93	95	97	99	
	Barometric Pressure	"Hg	24.80 30.13	24.78 30.11	24.77 30.10	24.76 30.09	24.75 30.08	
VAPOR / INFLUENT	TPH	ppmv	–	680	–	–	474	
	CO_2	%	–	1.32	–	–	1.68	
	CO	%	–	.01	–	–	.01	
	O_2	%	–	15.2	–	–	15.4	
	H_2S	ppm	–	0	–	–	0	
OW VACUUM	MW-11	In H_2O	0	0	0	0	0	
		In H_2O						
		In H_2O						
OW DL HEAD	MW-11	ft	12.42	12.44	12.44	12.46	12.46	
		ft						
		ft						
RECOVERY	Totalizer	gals	24609	24609	24609	24609	24609	
	Pump Rate	gals/min	–	–	–	–	–	
	Total Volume	gals	24	24	24	24	24	
	NAPL	% Vol	–	–	–	–	–	
	NAPL	Gals	–	–	–	–	–	
EW	Data Logger Head	ft	.07	.09	.15	(.08)	.07	
	GW (Depression)	ft	(15.70)	(15.68)	(15.62)	(15.85)	(15.70)	
	Extraction Well	DTNAPL						
	Extraction Well	DTGW						

AcuVac Remediation

OPERATING NOTES – SVE/MDPE Test # 1 PAGE # 5 ACUVAC SYSTEM

Location: San Juan River Gas Plant, Kirtland, NM **Project Managers: Faucher / George**

Date:

NOTES

08/20/20 0815 WELL VAC ↑ 150 IN H_2O, WVF ↑ 3.36 SCFM. TPH VAPOR CONCENTRATIONS ↑ 280 PPMV

0845 STARTED GW PUMP. PUMPED WELL DOWN APPROX 10 FT TO A DL HEAD OF APPROX 6.0 FT

0915 TPH VAPOR CONCENTRATIONS ↑ 606 PPMV WELL MW-20 REBOUNDED TO A DL HEAD OF 13.04 FT, 2.73 FT BELOW STATIC LEVEL.

1015 PUMPED WELL MW-20 DOWN TO APPROX 40 FT BTOC. DL READING 6.0 FT. OBTAINED WELL VAPOR SAMPLE. TPH CONCENTRATIONS ↓ 538 PPMV TOTAL LIQUID RECOVERY 13.0 GALS MAINTAIN 6.0 FT DL HEAD FOR 1.0 HR.

1115 DL HEAD STEADY AT 6.0 FT. TOTAL LIQUID RECOVERY 17 GALS TPH VAPOR CONCENTRATIONS ↑ 580 PPMV. NO MEASURABLE LNAPL IN THE LIQUID RECOVERED.

1145 PUMPED THE WELL DOWN TO APPROX 42 FT BTOC. DL READING .07 FT DL 1.5 ABOVE PUMP INLET, PUMP APPROX 1.0 FT ABOVE WELL BOTTOM. TOTAL RECOVERY 22 GALS, NO MEASURABLE LNAPL. TPH VAPOR CONCENTRATIONS

1215 MAINTAINED GW DEPRESSION AT 2.5 FT ABOVE WELL BOTTOM TPH VAPOR CONCENTRATIONS ↑ 684 PPMV

1245 NO ADDITIONAL GW RECOVERY. WELL VAC STEADY AT 200 IN H_2O

1315 WELL VAC ↑ 240 IN H_2O, TPH VAPOR CONCENTRATIONS ↑ 630 PPMV NO ADDITIONAL GW PRODUCTION

1445 FINAL WELL VAPOR SAMPLE RECORDED TPH VAPOR CONCENTRATIONS OF 424 PPMV NO ADDITIONAL GW PRODUCTION.

WELL GAUGED AT CONCLUSION OF EVENT 0.72 FT OF LNAPL PRESENT MOST LIKELY ACCUMULATED BELOW THE PUMP.

SAN JUAN GAS PLANT
KIRTLAND, SAN JUAN COUNTY, NM

SAN JUAN GAS PLANT
KIRTLAND, SAN JUAN COUNTY, NM

APPENDIX D

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ANALYTICAL REPORT

Eurofins TestAmerica, Burlington
30 Community Drive
Suite 11
South Burlington, VT 05403
Tel: (802)660-1990

Laboratory Job ID: 200-54833-1
Client Project/Site: San Juan River Plant

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

Attn: Steve Varsa

Marty Edwards

Authorized for release by:
9/8/2020 4:56:50 PM

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

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Laboratory Job ID: 200-54833-1

Table of Contents

Definitions/Glossary

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 200-54833-1

Glossary

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

Case Narrative

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 200-54833-1

Job ID: 200-54833-1

Laboratory: Eurofins TestAmerica, Burlington

Narrative

Job Narrative
200-54833-1

Comments
No additional comments.

Receipt
The samples were received on 8/21/2020 10:35 AM; the samples arrived in good condition, and where required, properly preserved and on ice.

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

Detection Summary

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 200-54833-1

Client Sample ID: INFLUENT — Lab Sample ID: 200-54833-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.46		0.038		mg/m3	60		TO-15	Total/NA
Toluene	7.3		0.045		mg/m3	60		TO-15	Total/NA
Ethylbenzene	1.3		0.052		mg/m3	60		TO-15	Total/NA
m,p-Xylene	14		0.13		mg/m3	60		TO-15	Total/NA
Xylene, o-	2.7		0.052		mg/m3	60		TO-15	Total/NA
Xylene (total)	17		0.18		mg/m3	60		TO-15	Total/NA
TPH GRO as Octane (C5-C10)	260		17		mg/m3	300		TO3	Total/NA

Client Sample ID: STACK — Lab Sample ID: 200-54833-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	0.12		0.00087		mg/m3	1		TO-15	Total/NA
m,p-Xylene	0.20		0.0022		mg/m3	1		TO-15	Total/NA
Xylene, o-	0.070		0.00087		mg/m3	1		TO-15	Total/NA
Xylene (total)	0.27		0.0030		mg/m3	1		TO-15	Total/NA
Benzene - DL	0.62		0.0064		mg/m3	10		TO-15	Total/NA
Toluene - DL	0.32		0.0075		mg/m3	10		TO-15	Total/NA
TPH GRO as Octane (C5-C10)	7.8		0.57		mg/m3	10		TO3	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 200-54833-1

Client Sample ID: INFLUENT

Lab Sample ID: 200-54833-1
Matrix: Air
Date Collected: 08/20/20 13:21
Date Received: 08/21/20 10:35
Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.46		0.038		mg/m3			08/24/20 14:47	60
Toluene	7.3		0.045		mg/m3			08/24/20 14:47	60
Ethylbenzene	1.3		0.052		mg/m3			08/24/20 14:47	60
m,p-Xylene	14		0.13		mg/m3			08/24/20 14:47	60
Xylene, o-	2.7		0.052		mg/m3			08/24/20 14:47	60
Xylene (total)	17		0.18		mg/m3			08/24/20 14:47	60

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH GRO as Octane (C5-C10)	260		17		mg/m3			08/24/20 15:40	300

Client Sample ID: STACK

Lab Sample ID: 200-54833-2
Matrix: Air
Date Collected: 08/20/20 13:26
Date Received: 08/21/20 10:35
Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	0.12		0.00087		mg/m3			08/24/20 16:33	1
m,p-Xylene	0.20		0.0022		mg/m3			08/24/20 16:33	1
Xylene, o-	0.070		0.00087		mg/m3			08/24/20 16:33	1
Xylene (total)	0.27		0.0030		mg/m3			08/24/20 16:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.62		0.0064		mg/m3			08/25/20 12:11	10
Toluene	0.32		0.0075		mg/m3			08/25/20 12:11	10

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH GRO as Octane (C5-C10)	7.8		0.57		mg/m3			09/01/20 11:55	10

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 200-54833-1

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

Lab Sample ID: MB 200-158167/4
Matrix: Air
Analysis Batch: 158167

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00064		0.00064		mg/m3			08/24/20 10:23	1
Toluene	<0.00075		0.00075		mg/m3			08/24/20 10:23	1
Ethylbenzene	<0.00087		0.00087		mg/m3			08/24/20 10:23	1
m,p-Xylene	<0.0022		0.0022		mg/m3			08/24/20 10:23	1
Xylene, o-	<0.00087		0.00087		mg/m3			08/24/20 10:23	1
Xylene (total)	<0.0030		0.0030		mg/m3			08/24/20 10:23	1

Lab Sample ID: LCS 200-158167/3
Matrix: Air
Analysis Batch: 158167

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0332	0.0278		mg/m3		84	73 - 119
Toluene	0.0384	0.0329		mg/m3		86	75 - 122
Ethylbenzene	0.0444	0.0424		mg/m3		96	74 - 122
m,p-Xylene	0.0868	0.0890		mg/m3		103	76 - 121
Xylene, o-	0.0450	0.0425		mg/m3		94	73 - 123

Lab Sample ID: MB 200-158213/4
Matrix: Air
Analysis Batch: 158213

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00064		0.00064		mg/m3			08/25/20 10:22	1
Toluene	<0.00075		0.00075		mg/m3			08/25/20 10:22	1
Ethylbenzene	<0.00087		0.00087		mg/m3			08/25/20 10:22	1
m,p-Xylene	<0.0022		0.0022		mg/m3			08/25/20 10:22	1
Xylene, o-	<0.00087		0.00087		mg/m3			08/25/20 10:22	1
Xylene (total)	<0.0030		0.0030		mg/m3			08/25/20 10:22	1

Lab Sample ID: LCS 200-158213/3
Matrix: Air
Analysis Batch: 158213

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0332	0.0277		mg/m3		83	73 - 119
Toluene	0.0384	0.0323		mg/m3		84	75 - 122
Ethylbenzene	0.0444	0.0377		mg/m3		85	74 - 122
m,p-Xylene	0.0868	0.0769		mg/m3		89	76 - 121
Xylene, o-	0.0450	0.0386		mg/m3		86	73 - 123

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

Lab Sample ID: MB 200-158456/4
Matrix: Air
Analysis Batch: 158456

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH GRO as Octane (C5-C10)	<0.057		0.057		mg/m3			08/24/20 10:23	1

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 200-54833-1

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

Lab Sample ID: LCS 200-158456/3
Matrix: Air
Analysis Batch: 158456

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
n-Octane	0.0481	0.0452		mg/m3		94	70 - 130

Lab Sample ID: MB 200-158635/5
Matrix: Air
Analysis Batch: 158635

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH GRO as Octane (C5-C10)	<0.057		0.057		mg/m3			09/01/20 11:02	1

Lab Sample ID: LCS 200-158635/3
Matrix: Air
Analysis Batch: 158635

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
n-Octane	0.0481	0.0430		mg/m3		89	70 - 130

QC Association Summary

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 200-54833-1

Air - GC/MS VOA

Analysis Batch: 158167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-54833-1	INFLUENT	Total/NA	Air	TO-15	
200-54833-2	STACK	Total/NA	Air	TO-15	
MB 200-158167/4	Method Blank	Total/NA	Air	TO-15	
LCS 200-158167/3	Lab Control Sample	Total/NA	Air	TO-15	

Analysis Batch: 158213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-54833-2 - DL	STACK	Total/NA	Air	TO-15	
MB 200-158213/4	Method Blank	Total/NA	Air	TO-15	
LCS 200-158213/3	Lab Control Sample	Total/NA	Air	TO-15	

Analysis Batch: 158456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-54833-1	INFLUENT	Total/NA	Air	TO3	
MB 200-158456/4	Method Blank	Total/NA	Air	TO3	
LCS 200-158456/3	Lab Control Sample	Total/NA	Air	TO3	

Analysis Batch: 158635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-54833-2	STACK	Total/NA	Air	TO3	
MB 200-158635/5	Method Blank	Total/NA	Air	TO3	
LCS 200-158635/3	Lab Control Sample	Total/NA	Air	TO3	

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 200-54833-1

Client Sample ID: INFLUENT

Lab Sample ID: 200-54833-1
Matrix: Air
Date Collected: 08/20/20 13:21
Date Received: 08/21/20 10:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		60	158167	08/24/20 14:47	A1B	TAL BUR
Total/NA	Analysis	TO3		300	158456	08/24/20 15:40	VTP	TAL BUR

Client Sample ID: STACK

Lab Sample ID: 200-54833-2
Matrix: Air
Date Collected: 08/20/20 13:26
Date Received: 08/21/20 10:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15	DL	10	158213	08/25/20 12:11	K1P	TAL BUR
Total/NA	Analysis	TO-15		1	158167	08/24/20 16:33	A1B	TAL BUR
Total/NA	Analysis	TO3		10	158635	09/01/20 11:55	VTP	TAL BUR

Laboratory References:

TAL BUR = Eurofins TestAmerica, Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Accreditation/Certification Summary

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 200-54833-1

Laboratory: Eurofins TestAmerica, Burlington

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

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2336	02-25-23
Connecticut	State	PH-0751	09-30-21
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	05-16-21
Florida	NELAP	E87467	06-30-21
Minnesota	NELAP	050-999-436	12-31-20
New Hampshire	NELAP	2006	12-18-20
New Jersey	NELAP	VT972	06-30-21
New York	NELAP	10391	04-01-21
Pennsylvania	NELAP	68-00489	04-30-21
Rhode Island	State	LAO00298	12-30-20
US Fish & Wildlife	US Federal Programs	058448	07-31-21
Vermont	State	VT4000	12-31-20
Virginia	NELAP	460209	12-14-20
Wisconsin	State	399133350	08-31-21

Method Summary

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 200-54833-1

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

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL BUR = Eurofins TestAmerica, Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 200-54833-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
200-54833-1	INFLUENT	Air	08/20/20 13:21	08/21/20 10:35	Air Canister (6-Liter) #2863
200-54833-2	STACK	Air	08/20/20 13:26	08/21/20 10:35	Air Canister (6-Liter) #4010

Eurofins TestAmerica, Burlington
30 Community Drive
Suite 11
South Burlington, VT 05403-6809
phone 802.660.1990 fax 802.660.1919

Canister Samples Chain of Custody Record

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

eurofins | Environment Testing TestAmerica

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

Client Contact Information	Client Project Manager: Steve Vesa	Samples Collected By: Steve Vesa
Company Name: Stantec	Phone: 515-710-7523	COC No: 20200820
Address: 11153 Aurora Avenue	Email: steve.vesa@stantec.com	1 of 1 COCs
City/State/Zip: Des Moines, IA 50322		
Phone: 515 253 0830	Site Contact:	For Lab Use Only:
FAX:	Tel/Fax	Walk-in Client:
Project Name: San Juan River Plant	Analysis Turnaround Time	Lab Sampling:
Site/Location: Kirtland, NM	Standard (Specific): Normal TAT	Job / SDG No.:
P O #	Rush (Specify):	(See below for Add'l Items)

Sample Identification	Sample Start Date	Time Start	Sample End Date	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-14/15 (Standard / Low Level)	TO-15 (BTEX)	EPA 3C	EPA 25C	ASTM D-1946	EPA 15/16	Other (Please specify in notes section)	Sample Type	Indoor Air/Ambient Air	Sub-Slab	Soil Gas	Soil-Vapor-Extraction-(SVE)	Landfill Gas	Other (Please specify in notes section)	Sample Specific Notes:
In Sleeve	8/20/20	1320	8/20/20	1321	—	—	—	2863		✓					X		✓			X			6vols
Stack	8/20/20	1325	8/20/20	1326	—	—	—	4010		X					X					X			6vols

Temperature (Fahrenheit)		
	Interior	Ambient
Start		
Stop		

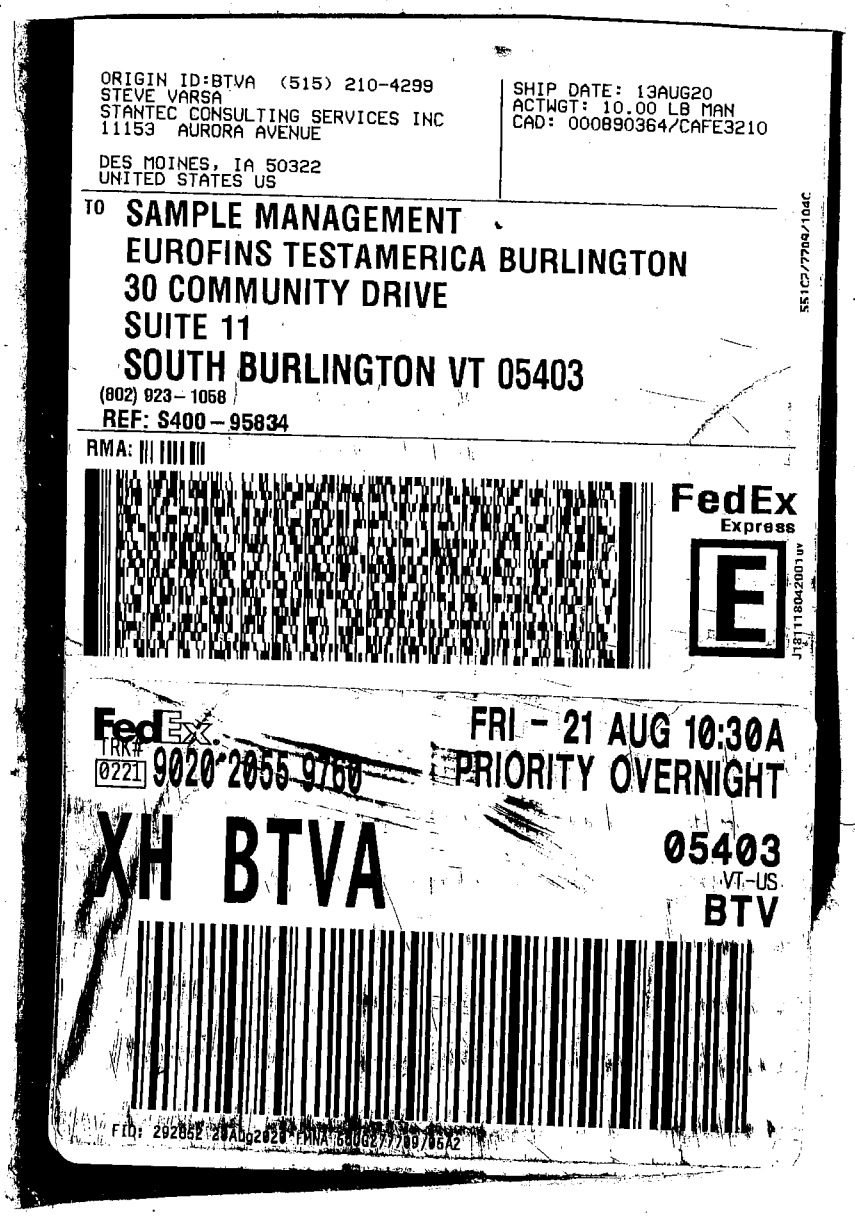
Pressure (inches of Hg)		
	Interior	Ambient
Start		
Stop		

00-54833 COC

Special Instructions/QC Requirements & Comments:
ARF # ERG-STN-08-11-20-SRV-01 (SJRP) Also TPH via TO3

Samples Shipped by: Fedex 902070559760	Date / Time:	Samples Received by: 8/21/2020 10:35
Samples Relinquished by:	Date / Time:	Received by:
Relinquished by:	Date / Time:	Received by:
Lab Use Only: Shipper Name:	Opened by:	Condition:

Form No. CA-C-WI-003, Rev. 2.13, dated 4/10/2019



ORIGIN ID:BTVA (515) 210-4299
STEVE VARSA
STANTEC CONSULTING SERVICES INC
11153 AURORA AVENUE

DES MOINES, IA 50322
UNITED STATES US

SHIP DATE: 13AUG20
ACTWGT: 10.00 LB MAN
CAD: 000890364/CAFE3210

TO SAMPLE MANAGEMENT
EUROFINS TESTAMERICA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 923-1068
REF: S400-95834

RMA:

551C/7708/104C

FedEx Express

J18111804200 1uv

FedEx
TRK# 0221 9020 2055 9760

FRI - 21 AUG 10:30A
PRIORITY OVERNIGHT

XH BTVA

05403
VT-US
BTV

FID: 292862 20AUG2020 FMNA 6606/7708/05A2

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc Job Number: 200-54833-1

Login Number: 54833 **List Source: Eurofins TestAmerica, Burlington**
List Number: 1
Creator: Lavigne, Scott M

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

200-54250-A-2
5025
Location: Air-Storage
Bottle: Summa Canister 6L
Sampled: 7/3/2020 12:00 AM 200-1402845

Loc: 200
54250
#2 A
Air-Storag

Pre-Shipment Clean Canister Certification Report

Canister Cleaning & Pre-Shipment Leak Test

System ID	Max DF#	# Cycles	Cleaning Start Date/Time		System Start Temp(s):		Technician	Can Size	Certification Type:
Top Rack	10	25	7/3/2020	1558	23	23	SML	6 liter	batch

Port	Can ID	Initial[1] (psia)	Final (psia)	Diff.[3]	Final ("Hg)	Initial Reading Gauge:	Initial Reading Date:	Initial Reading Time:	Initial Reading Tech:	Initial Reading Temp:	Final Reading Gauge:	Final Reading Date:	Final Reading Time:	Final Reading Tech:	Final Reading Temp:
1	4323	.01	.01	Ø	29.7	G26	7/4/20	1251	S	23.0	G26	8/9/20	1354	S	23.0
2	5025	.03	.03	Ø	29.5	G26	8/9/20	1431	S	23.0	G26	8/11/20	1306	S	24.0
3	4447	.01	.01	Ø	29.7	G26	7/4/20	1251	S	23.0	G26	8/9/20	1354	S	23.0
4	3271		.01	Ø	29.7	G26					G26				
5	5112		.01	Ø	29.7	G26					G26				
6	5752		.01	Ø	29.7	G26					G26				
7	4916		.01	Ø	29.7	G26					G26				
8	2584		.01	Ø	29.7	G26					G26				
9	4010		.01	Ø	29.7	G26					G26				
10	3322		.01	Ø	29.7	G26					G26				
11	5057		.01	Ø	29.7	G26					G26				
12	2863		.01	Ø	29.7	G26					G26				

[1] Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.
[3] Difference = Final Pressure - Initial Pressure . Acceptance Criteria: (1) The difference must be less than or equal to + 0.25psi. (2) Pressure readings must be at least 24 hours apart.

If time frame was not met, the PM must authorize shipment of canister **PM Authorization** **Date:**

Clean Canister Certification Analysis & Authorization of Release to Inventory

Test Method: ☒ TO15 Routine ☐ TO15 LL

Can ID	Date	Sequence	Analyst	Inventory Level 1	Inventory Level 2	Inventory Level 3	Inventory Level 4	Secondary Review Limited	Secondary Review Review Date	Secondary Review Reviewer
5025	7/16/20	41816	JRB		XXXXXXX				07/06/20	GHG

Inventory Level 1: Individual Canister Certification (TO15LL 0.01).
Inventory Level 2: Individual or Batch Certification (TO15 0.04 ppbv).
Inventory Level 3: Individual or Batch Certification (TO15 0.2 ppbv).
Inventory Level Limited: Canisters may only be used for certain projects.
Dup Tees/Vac gauges (enter IDs if included):

Comments:

Form ID: FAI023:12
Revision Date: 12/18/2018

TestAmerica Burlington

9/8/2020

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-54250-1

SDG No.:

Client Sample ID: 5025 Lab Sample ID: 200-54250-2

Matrix: Air Lab File ID: 41816-05.D

Analysis Method: TO-15 Date Collected: 07/03/2020 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 07/06/2020 11:06

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 156461 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene(Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.040	U	0.040	0.040
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	0.080	U	0.080	0.080
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040
56-23-5	Carbon tetrachloride	0.040	U	0.040	0.040
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040

FORM I TO-15

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-54250-1

SDG No.:

Client Sample ID: 5025 Lab Sample ID: 200-54250-2

Matrix: Air Lab File ID: 41816-05.D

Analysis Method: TO-15 Date Collected: 07/03/2020 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 07/06/2020 11:06

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 156461 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.14	U	0.14	0.14
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040

FORM I TO-15

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-54250-1

SDG No.:

Client Sample ID: 5025 Lab Sample ID: 200-54250-2

Matrix: Air Lab File ID: 41816-05.D

Analysis Method: TO-15 Date Collected: 07/03/2020 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 07/06/2020 11:06

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 156461 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10

Report Date: 07-Jul-2020 09:18:38 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\CHC.i\20200706-41816.b\41816-05.D
Lims ID: 200-54250-A-2
Client ID: 5025
Sample Type: Client
Inject. Date: 06-Jul-2020 11:06:30 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 200.000 mL Dil. Factor: 0.2000
Sample Info: 200-0041816-005
Misc. Info.: 54250-2
Operator ID: ggg Instrument ID: CHC.i

Method: \\chromfs\Burlington\ChromData\CHC.i\20200706-41816.b\TO15_MasterMethod_(v1)_CHC.i.m
Limit Group: AI_TO15_ICAL
Last Update: 07-Jul-2020 09:18:38 Calib Date: 17-Jun-2020 01:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\CHC.i\20200616-41617.b\41617-13.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: CTX1065

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1	Propene	41		2.917				ND	
2	Dichlorodifluoromethane	85		2.981				ND	
3	Chlorodifluoromethane	51		3.024				ND	
4	1,2-Dichloro-1,1,2,2-tetrafluoro	85		3.222				ND	
5	Chloromethane	50		3.339				ND	
6	Butane	43		3.531				ND	
7	Vinyl chloride	62		3.563				ND	
8	Butadiene	54		3.633				ND	
10	Bromomethane	94		4.252				ND	
11	Chloroethane	64		4.476				ND	
13	Vinyl bromide	106		4.849				ND	
14	Trichlorofluoromethane	101		4.961				ND	
17	Ethanol	45		5.511				ND	
20	112TCTFE	101		6.018				ND	
21	1,1-Dichloroethene	96		6.034				ND	
22	Acetone	43		6.232				ND	
23	Carbon disulfide	76		6.397				ND	
24	Isopropyl alcohol	45		6.573				ND	
25	3-Chloro-1-propene	41		6.792				ND	
27	Methylene Chloride	49		7.070				ND	
28	2-Methyl-2-propanol	59		7.336				ND	
29	Methyl tert-butyl ether	73		7.518				ND	
31	trans-1,2-Dichloroethene	61		7.529				ND	
33	Hexane	57		7.955				ND	
34	1,1-Dichloroethane	63		8.366				ND	
35	Vinyl acetate	43		8.462				ND	
37	cis-1,2-Dichloroethene	96		9.460				ND	
38	2-Butanone (MEK)	72		9.508				ND	
39	Ethyl acetate	88		9.589				ND	
* 40	Chlorobromomethane	128	9.898	9.903	-0.005	78	303063	20.0	
41	Tetrahydrofuran	42		9.946				ND	
42	Chloroform	83		10.058				ND	

Report Date: 07-Jul-2020 09:18:38 Chrom Revision: 2.3 21-Jun-2020 18:30:46
Data File: \\chromfs\Burlington\ChromData\CHC.i\20200706-41816.b\41816-05.D

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
S 30 1,2-Dichloroethene, Total	61		10.200				ND	
44 1,1,1-Trichloroethane	97		10.325				ND	
43 Cyclohexane	84		10.336				ND	
45 Carbon tetrachloride	117		10.597				ND	
47 Benzene	78		11.024				ND	
46 Isooctane	57		11.067				ND	
48 1,2-Dichloroethane	62		11.184				ND	
49 n-Heptane	43		11.472				ND	
* 50 1,4-Difluorobenzene	114	11.873	11.873	0.000	95	1910393	20.0	
53 Trichloroethene	95		12.348				ND	
54 1,2-Dichloropropane	63		12.855				ND	
55 Methyl methacrylate	69		13.084				ND	
57 Dibromomethane	174		13.111				ND	
56 1,4-Dioxane	88		13.116				ND	
58 Dichlorobromomethane	83		13.436				ND	
60 cis-1,3-Dichloropropene	75		14.392				ND	
61 4-Methyl-2-pentanone (MIBK)	43		14.691				ND	
65 Toluene	92		15.000				ND	
66 trans-1,3-Dichloropropene	75		15.593				ND	
67 1,1,2-Trichloroethane	83		15.961				ND	
68 Tetrachloroethene	166		16.116				ND	
69 2-Hexanone	43		16.436				ND	
71 Chlorodibromomethane	129		16.724				ND	
72 Ethylene Dibromide	107		16.980				ND	
* 74 Chlorobenzene-d5	117	17.903	17.903	0.000	89	2081729	20.0	
75 Chlorobenzene	112		17.967				ND	
76 Ethylbenzene	91		18.138				ND	
78 m-Xylene & p-Xylene	106		18.389				ND	
79 o-Xylene	106		19.227				ND	
80 Styrene	104		19.275				ND	
81 Bromoform	173		19.691				ND	
82 Isopropylbenzene	105		19.969				ND	
S 73 Xylenes, Total	106		20.100				ND	
84 1,1,2,2-Tetrachloroethane	83		20.647				ND	
85 N-Propylbenzene	91		20.748				ND	
89 2-Chlorotoluene	91		20.945				ND	
88 4-Ethyltoluene	105		20.951				ND	
90 1,3,5-Trimethylbenzene	105		21.068				ND	
92 tert-Butylbenzene	119		21.581				ND	
93 1,2,4-Trimethylbenzene	105		21.682				ND	
94 sec-Butylbenzene	105		21.927				ND	
95 4-Isopropyltoluene	119		22.141				ND	
96 1,3-Dichlorobenzene	146		22.152				ND	
97 1,4-Dichlorobenzene	146		22.290				ND	
98 Benzyl chloride	91		22.477				ND	
100 n-Butylbenzene	91		22.717				ND	
101 1,2-Dichlorobenzene	146		22.813				ND	
103 1,2,4-Trichlorobenzene	180		25.167				ND	
104 Hexachlorobutadiene	225		25.370				ND	
105 Naphthalene	128		25.589				ND	

Report Date: 07-Jul-2020 09:18:38 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Reagents:

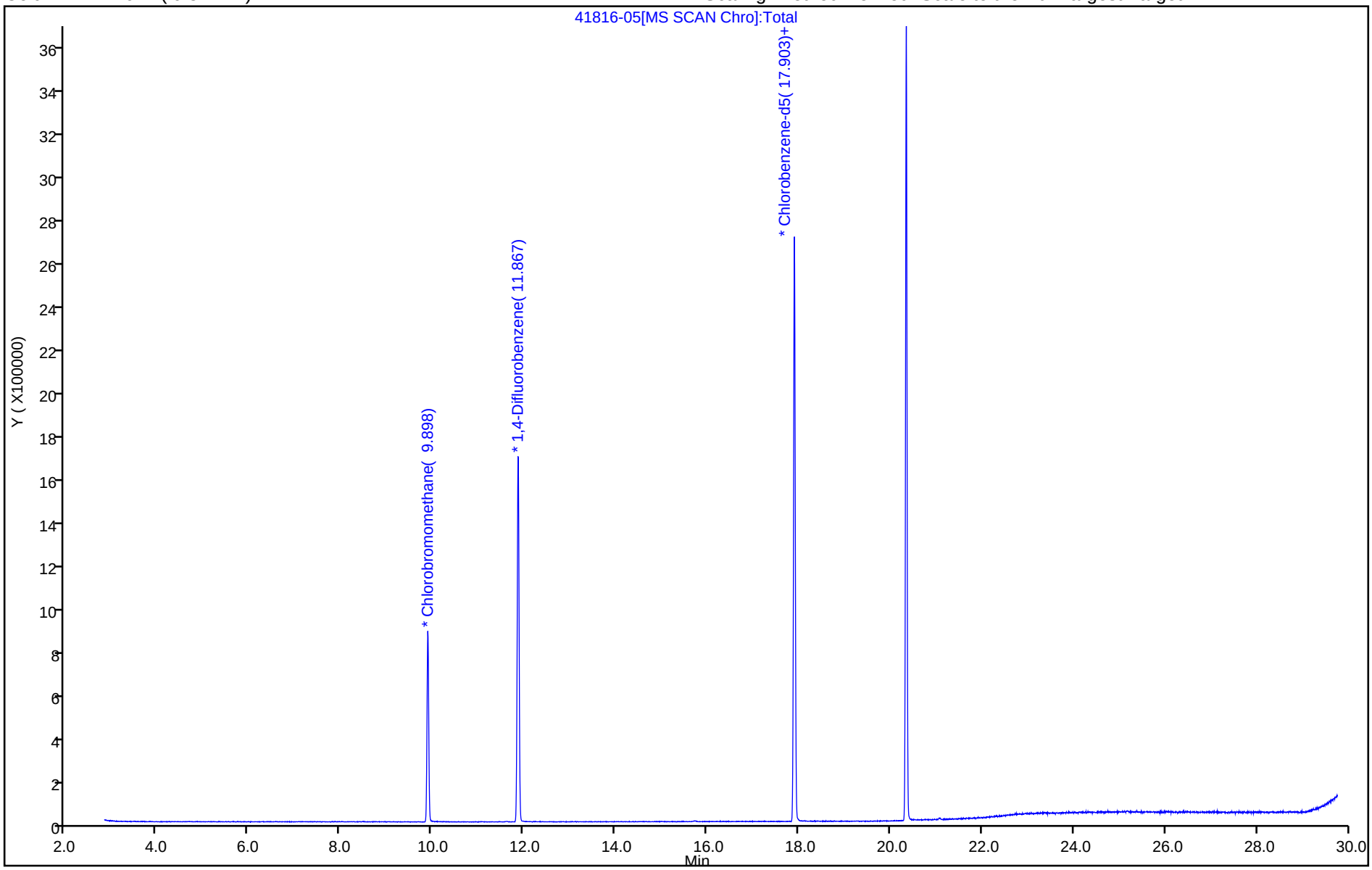
ATTO15CISs_00010 Amount Added: 40.00 Units: mL Run Reagent

Report Date: 07-Jul-2020 09:18:38 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Burlington

Data File:	\\chromfs\Burlington\ChromData\CHC.i\20200706-41816.b\41816-05.D				
Injection Date:	06-Jul-2020 11:06:30	Instrument ID:	CHC.i	Operator ID:	ggg
Lims ID:	200-54250-A-2	Lab Sample ID:	200-54250-2	Worklist Smp#:	5
Client ID:	5025				
Purge Vol:	200.000 mL	Dil. Factor:	0.2000	ALS Bottle#:	5
Method:	TO15_MasterMethod_(v1)_CHC.i	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Summa Canister Dilution Worksheet

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job No.: 200-54833-1

Lab Sample ID	Canister Volume (L)	Preadjusted Pressure ("Hg)	Preadjusted Pressure (atm)	Preadjusted Volume (L)	Adjusted Pressure (psig)	Adjusted Pressure (atm)	Adjusted Volume (L)	Initial Volume (mL)	Dilution Factor	Final Dilution Factor	Pressure Gauge ID	Date	Analyst Initals
200-54833-1	6	-6.6	0.78	4.68	39.0	3.65	21.92		4.69	4.69	g19	08/24/20 12:38	VTP
200-54833-1	6	0	1.00	6.00	42.1	3.86	23.18		3.86	18.11	g19	08/24/20 12:38	VTP
200-54833-1	6	0	1.00	6.00	12	1.82	10.90		1.82	32.89	g19	08/24/20 12:38	VTP

Formulae:

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

Where:

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

APPENDIX E

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. 796816
NMOCD PERMIT: NM -001-0005
Oil Field Waste Document, Form C138
INVOICE:

DATE 8-20-20

DEL. TKT#. 1688

GENERATOR: El Paso

BILL TO: Kaiser Francisco

HAULING CO. Envirotech

DRIVER: D Maes
(Print Full Name)

ORDERED BY: Joseph Hall

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	959	San Juan River Co Pad	1	70			70	
2								'20 AUG 20 4:51 PM
3								
4								
5								

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

☐ Approved ☐ Denied ATTENDANT SIGNATURE

SAN JUAN PRINTING 0818018B

BASIN DISPOSAL

30 Years of Environmental Health and Safety Excellence

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

NO. 800573

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

DATE 11.16.20

DEL. TKT#.

GENERATOR: Energy Minerals & Natural Resources

BILL TO: Energy Minerals & Natural Res.

HAULING CO. El Paso Natural Gas Company L.L.C

DRIVER: Shane C.
(Print Full Name)

ORDERED BY: Joe R

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		San Juan River Gas Plant	1	.70			'20 NOV 16 4:48PM 1 .70	
2								
3								
4								
5								

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

☑ Approved ☐ Denied ATTENDANT SIGNATURE

SAN JUAN PRINTING 2020 1973-1

APPENDIX F

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 400-195980-1
Client Project/Site: San Juan River Plant

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

Attn: Steve Varsa

Marty Edwards

Authorized for release by:
12/2/2020 11:43:31 AM

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

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Laboratory Job ID: 400-195980-1

Table of Contents

Case Narrative

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 400-195980-1

Job ID: 400-195980-1

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

Job Narrative
400-195980-1

Comments
No additional comments.

Receipt
The samples were received on 11/18/2020 9:33 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.1º C.

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

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

Detection Summary

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 400-195980-1

Client Sample ID: TB-01 — Lab Sample ID: 400-195980-1

No Detections.

Client Sample ID: MW-22 — Lab Sample ID: 400-195980-2

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Pensacola

12/2/2020

Sample Summary

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 400-195980-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
400-195980-1	TB-01	Water	11/17/20 11:00	11/18/20 09:33	
400-195980-2	MW-22	Water	11/17/20 11:52	11/18/20 09:33	

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 400-195980-1

Client Sample ID: TB-01
Date Collected: 11/17/20 11:00
Date Received: 11/18/20 09:33

Lab Sample ID: 400-195980-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00038	U	0.0010	0.00038	mg/L			11/23/20 17:10	1
Ethylbenzene	0.00050	U	0.0010	0.00050	mg/L			11/23/20 17:10	1
Toluene	0.00041	U	0.0010	0.00041	mg/L			11/23/20 17:10	1
Xylenes, Total	0.0016	U	0.010	0.0016	mg/L			11/23/20 17:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*90*		*78 - 118*		*11/23/20 17:10*	*1*
Dibromofluoromethane	*93*		*81 - 121*		*11/23/20 17:10*	*1*
Toluene-d8 (Surr)	*109*		*80 - 120*		*11/23/20 17:10*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 400-195980-1

Client Sample ID: MW-22
Date Collected: 11/17/20 11:52
Date Received: 11/18/20 09:33

Lab Sample ID: 400-195980-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00038	U	0.0010	0.00038	mg/L			11/23/20 17:33	1
Ethylbenzene	0.00050	U	0.0010	0.00050	mg/L			11/23/20 17:33	1
Toluene	0.00041	U	0.0010	0.00041	mg/L			11/23/20 17:33	1
Xylenes, Total	0.0016	U	0.010	0.0016	mg/L			11/23/20 17:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*90*		*78 - 118*		*11/23/20 17:33*	*1*
Dibromofluoromethane	*93*		*81 - 121*		*11/23/20 17:33*	*1*
Toluene-d8 (Surr)	*108*		*80 - 120*		*11/23/20 17:33*	*1*

Definitions/Glossary

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 400-195980-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Surrogate Summary

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 400-195980-1

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

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

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(78-118)	(81-121)	(80-120)
400-195744-A-2 MS	Matrix Spike	93	91	108
400-195744-A-2 MSD	Matrix Spike Duplicate	90	93	108
400-195980-1	TB-01	90	93	109
400-195980-2	MW-22	90	93	108
LCS 400-511704/1002	Lab Control Sample	90	91	109
MB 400-511704/4	Method Blank	90	88	107

Surrogate Legend

BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

QC Association Summary

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 400-195980-1

GC/MS VOA

Analysis Batch: 511704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-195980-1	TB-01	Total/NA	Water	8260B	
400-195980-2	MW-22	Total/NA	Water	8260B	
MB 400-511704/4	Method Blank	Total/NA	Water	8260B	
LCS 400-511704/1002	Lab Control Sample	Total/NA	Water	8260B	

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 400-195980-1

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

Lab Sample ID: MB 400-511704/4
Matrix: Water
Analysis Batch: 511704

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00038	U	0.0010	0.00038	mg/L			11/23/20 10:30	1
Ethylbenzene	0.00050	U	0.0010	0.00050	mg/L			11/23/20 10:30	1
Toluene	0.00041	U	0.0010	0.00041	mg/L			11/23/20 10:30	1
Xylenes, Total	0.0016	U	0.010	0.0016	mg/L			11/23/20 10:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*90*		*78 - 118*		*11/23/20 10:30*	*1*
Dibromofluoromethane	*88*		*81 - 121*		*11/23/20 10:30*	*1*
Toluene-d8 (Surr)	*107*		*80 - 120*		*11/23/20 10:30*	*1*

Lab Sample ID: LCS 400-511704/1002
Matrix: Water
Analysis Batch: 511704

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.0500	0.0451		mg/L		90	70 - 130		
Ethylbenzene			0.0500	0.0512		mg/L		102	70 - 130		
Toluene			0.0500	0.0506		mg/L		101	70 - 130		
Xylenes, Total			0.100	0.0982		mg/L		98	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*90*		*78 - 118*
Dibromofluoromethane	*91*		*81 - 121*
Toluene-d8 (Surr)	*109*		*80 - 120*

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 400-195980-1

Client Sample ID: TB-01

Lab Sample ID: 400-195980-1
Matrix: Water
Date Collected: 11/17/20 11:00
Date Received: 11/18/20 09:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	511704	11/23/20 17:10	WPD	TAL PEN

Client Sample ID: MW-22

Lab Sample ID: 400-195980-2
Matrix: Water
Date Collected: 11/17/20 11:52
Date Received: 11/18/20 09:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	511704	11/23/20 17:33	WPD	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-511704/4
Matrix: Water
Date Collected: N/A
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	511704	11/23/20 10:30	WPD	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-511704/1002
Matrix: Water
Date Collected: N/A
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	511704	11/23/20 09:32	WPD	TAL PEN

Laboratory References:

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

Method Summary

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 400-195980-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PEN
5030B	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

Accreditation/Certification Summary

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 400-195980-1

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

Chain of Custody Record

TestAmerica Des Moines SC
214

eurofins
Environment Testing America

400-195980 COC

Client Information	Sampler: SLC	Lab PM: Edwards, Marty P	Carrier Tracking No(s):	COC No: 400-97401-35243.3
Client Contact: Steve Varsa	Phone: 913 980 0281	E-Mail: Marty.Edwards@Eurofinset.com		Page: Page 3 of 5
Company: Stantec Consulting Services Inc				Job #
Address: 11153 Aurora Avenue	Due Date Requested:			
City: Des Moines	TAT Requested (days): STD			
State, Zip: IA, 50322-7904				
Phone:	PO #: See Project Notes			
Email: steve.varsa@stantec.com	WO #:			
Project Name: CMI Kinder Morgan San Juan	Project #: 40012762			
Site: SJRP	SSOW#:			

Analysis Requested

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

L-ERH-STN-10-29-2021
SAH-01 SJRP

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2320B, 2540C, 300_ORGFM_28D, 300_ORGFMS	6010B, 7470A	8260B - BTEX 8260	8260 BTEX Unpreserved	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	A			
TB-01	11/17/2020	1100	G	Water					2		2	Trip Blank
MW-22	11/17/2020	1152	G	Water					2		2	Removed HCL
				Water								
				Water								
				Water								
				Water								
				Water								
				Water								
				Water								
				Water								
				Water								
				Water								

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

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

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

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: Fedex				
Relinquished by:	Date/Time: 11/17/2020 1230	Company: STN	Received by:	Date/Time: 11-18-20 0933	Company: TAPEN
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 0.1°C IR-7

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc Job Number: 400-195980-1

Login Number: 195980 **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	0.1°C IR-7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 400-195924-1
Client Project/Site: San Juan River Plant

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

Attn: Steve Varsa

Marty Edwards

Authorized for release by:
12/11/2020 11:47:44 AM

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

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Laboratory Job ID: 400-195924-1

Table of Contents

Case Narrative

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 400-195924-1

Job ID: 400-195924-1

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

Job Narrative
400-195924-1

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 temperatures of the 3 coolers at receipt time were 0.3º C, 0.5º C and 3.6º C.

GC/MS VOA
Method 8260B: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-13 (400-195924-10), MW-15 (400-195924-12), MW-16 (400-195924-13) and MW-21 (400-195924-16). Elevated reporting limits (RLs) are provided.

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

HPLC/IC
Method 300.0: The following samples were diluted to bring the concentration of target analytes within the calibration range: DUP-01 (400-195924-2), MW-2 (400-195924-3), MW-4 (400-195924-4), MW-6 (400-195924-5), MW-6 (400-195924-5[MS]), MW-6 (400-195924-5[MSD]), MW-8 (400-195924-6), MW-9 (400-195924-7), MW-11 (400-195924-8), MW-12 (400-195924-9), MW-13 (400-195924-10), MW-14 (400-195924-11), MW-15 (400-195924-12), MW-18 (400-195924-14), MW-19 (400-195924-15) and MW-21 (400-195924-16). Elevated reporting limits (RLs) are provided.

Method 300.0: The method blank for analytical batch 400-512539 contained Sulfate above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 300.0: The following samples were re-analyzed outside of the analytical holding time to bring target analyte within calibration range and both sets of data are reported: MW-2 (400-195924-3) and MW-6 (400-195924-5).

Method 300.0: The following samples were analyzed outside of analytical holding time in order to get the rest of the client samples analyzed within holding time.: MW-6 (400-195924-5[MS]) and MW-6 (400-195924-5[MSD]).

Method 300.0: The laboratory control sample duplicate (LCSD) for analytical batch 400-512536 recovered bias high outside control limits for the following analytes: Nitrate Nitrite as N. Since this is a total analyte summary, and the detections in the samples were from Nitrate as N, which recovered within method criteria, the data is reported.

Method 300.0: The continuing calibration verification (CCV) associated with batch 400-512536 recovered above the upper control limit for Nitrate Nitrite as N. Since this is a total analyte summary, and the detections in the samples were from Nitrate as N, which recovered within method criteria, the data is reported.

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

Metals
Method 6010B: The serial dilution performed for the following sample associated with batch 400-512046 was outside control limits: (400-195924-E-5-B SD)

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

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

General Chemistry
Method SM 2320B: The sample duplicate (DUP) precision for analytical batch 400-511709 was outside control limits. Sample non-homogeneity is suspected.

Case Narrative

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 400-195924-1

Job ID: 400-195924-1 (Continued)

Laboratory: Eurofins TestAmerica, Pensacola (Continued)

Method SM 2540C: The sample duplicate (DUP) precision for analytical batch 400-511670 was outside control limits. Sample non-homogeneity is suspected.

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

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

Detection Summary

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 400-195924-1

Client Sample ID: TB-01 — Lab Sample ID: 400-195924-1

No Detections.

Client Sample ID: DUP-01 — Lab Sample ID: 400-195924-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.083		0.0010	0.00038	mg/L	1		8260B	Total/NA
Ethylbenzene	0.035		0.0010	0.00050	mg/L	1		8260B	Total/NA
Xylenes, Total	0.0052	J	0.010	0.0016	mg/L	1		8260B	Total/NA
Chloride	380		100	12	mg/L	100		300.0	Total/NA
Sulfate	11000		500	190	mg/L	500		300.0	Total/NA
Aluminum	9.0		0.20	0.051	mg/L	1		6010B	Dissolved
Barium	0.0091	J	0.010	0.0030	mg/L	1		6010B	Dissolved
Boron	0.68		0.10	0.022	mg/L	1		6010B	Dissolved
Cadmium	0.0060		0.0050	0.0010	mg/L	1		6010B	Dissolved
Cobalt	0.25		0.010	0.0030	mg/L	1		6010B	Dissolved
Copper	0.025		0.020	0.0080	mg/L	1		6010B	Dissolved
Iron	16		0.20	0.075	mg/L	1		6010B	Dissolved
Lead	0.0048	J	0.010	0.0020	mg/L	1		6010B	Dissolved
Manganese	6.7		0.010	0.0030	mg/L	1		6010B	Dissolved
Nickel	0.35		0.0060	0.0030	mg/L	1		6010B	Dissolved
Zinc	0.82		0.020	0.0080	mg/L	1		6010B	Dissolved
Total Dissolved Solids	17000		50	50	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-2 — Lab Sample ID: 400-195924-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	250		10	1.2	mg/L	10		300.0	Total/NA
Nitrate as N	17	E	0.10	0.033	mg/L	1		300.0	Total/NA
Nitrate as N	18	H	1.0	0.33	mg/L	10		300.0	Total/NA
Nitrate Nitrite as N	17	E	0.10	0.033	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	18	* H	1.0	0.33	mg/L	10		300.0	Total/NA
Sulfate	3200	B	100	37	mg/L	100		300.0	Total/NA
Nitrite as N	0.19		0.10	0.026	mg/L	1		300.0	Total/NA
Aluminum	0.15	J	0.20	0.051	mg/L	1		6010B	Dissolved
Barium	0.0094	J	0.010	0.0030	mg/L	1		6010B	Dissolved
Boron	0.60		0.10	0.022	mg/L	1		6010B	Dissolved
Iron	0.19	J	0.20	0.075	mg/L	1		6010B	Dissolved
Lead	0.0049	J	0.010	0.0020	mg/L	1		6010B	Dissolved
Manganese	0.019		0.010	0.0030	mg/L	1		6010B	Dissolved
Selenium	0.028		0.020	0.0080	mg/L	1		6010B	Dissolved
Mercury	0.000070	J	0.00020	0.000070	mg/L	1		7470A	Dissolved
Alkalinity, Total	270		1.0	0.50	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	5100		25	25	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-4 — Lab Sample ID: 400-195924-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	370		100	12	mg/L	100		300.0	Total/NA
Nitrate as N	0.12		0.10	0.033	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	0.12		0.10	0.033	mg/L	1		300.0	Total/NA
Sulfate	2600	B	100	37	mg/L	100		300.0	Total/NA
Barium	0.0072	J	0.010	0.0030	mg/L	1		6010B	Dissolved
Boron	0.72		0.10	0.022	mg/L	1		6010B	Dissolved
Cobalt	0.063		0.010	0.0030	mg/L	1		6010B	Dissolved

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Pensacola

Detection Summary

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 400-195924-1

Client Sample ID: MW-4 (Continued) — Lab Sample ID: 400-195924-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	2.0		0.20	0.075	mg/L	1		6010B	Dissolved
Lead	0.0033	J	0.010	0.0020	mg/L	1		6010B	Dissolved
Manganese	6.9		0.010	0.0030	mg/L	1		6010B	Dissolved
Nickel	0.33		0.0060	0.0030	mg/L	1		6010B	Dissolved
Zinc	0.012	J	0.020	0.0080	mg/L	1		6010B	Dissolved
Mercury	0.000075	J	0.00020	0.000070	mg/L	1		7470A	Dissolved
Alkalinity, Total	880		1.0	0.50	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	5000		25	25	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-6 — Lab Sample ID: 400-195924-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	730		100	12	mg/L	100		300.0	Total/NA
Nitrate as N	61	E	0.10	0.033	mg/L	1		300.0	Total/NA
Nitrate as N	66	H	1.0	0.33	mg/L	10		300.0	Total/NA
Nitrate Nitrite as N	61	E	0.10	0.033	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	66	* H	1.0	0.33	mg/L	10		300.0	Total/NA
Sulfate	10000	B	500	190	mg/L	500		300.0	Total/NA
Aluminum	17		0.20	0.051	mg/L	1		6010B	Dissolved
Barium	0.0060	J	0.010	0.0030	mg/L	1		6010B	Dissolved
Boron	0.80		0.10	0.022	mg/L	1		6010B	Dissolved
Cadmium	0.012		0.0050	0.0010	mg/L	1		6010B	Dissolved
Cobalt	0.28		0.010	0.0030	mg/L	1		6010B	Dissolved
Copper	0.028		0.020	0.0080	mg/L	1		6010B	Dissolved
Iron	0.20		0.20	0.075	mg/L	1		6010B	Dissolved
Lead	0.0082	J	0.010	0.0020	mg/L	1		6010B	Dissolved
Manganese	7.6		0.010	0.0030	mg/L	1		6010B	Dissolved
Nickel	0.35		0.0060	0.0030	mg/L	1		6010B	Dissolved
Selenium	0.22		0.020	0.0080	mg/L	1		6010B	Dissolved
Zinc	0.63		0.020	0.0080	mg/L	1		6010B	Dissolved
Mercury	0.000075	J	0.00020	0.000070	mg/L	1		7470A	Dissolved
Total Dissolved Solids	15000		50	50	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-8 — Lab Sample ID: 400-195924-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1000		200	24	mg/L	200		300.0	Total/NA
Nitrate as N	0.31		0.10	0.033	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	0.31		0.10	0.033	mg/L	1		300.0	Total/NA
Sulfate	5700	B	200	74	mg/L	200		300.0	Total/NA
Arsenic	0.0054	J	0.010	0.0030	mg/L	1		6010B	Dissolved
Barium	0.025		0.010	0.0030	mg/L	1		6010B	Dissolved
Boron	0.33		0.10	0.022	mg/L	1		6010B	Dissolved
Iron	2.2		0.20	0.075	mg/L	1		6010B	Dissolved
Lead	0.0028	J	0.010	0.0020	mg/L	1		6010B	Dissolved
Manganese	0.13		0.010	0.0030	mg/L	1		6010B	Dissolved
Molybdenum	0.037	J	0.10	0.0040	mg/L	1		6010B	Dissolved
Nickel	0.0032	J	0.0060	0.0030	mg/L	1		6010B	Dissolved
Alkalinity, Total	3700		1.0	0.50	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	13000		50	50	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Pensacola

Detection Summary

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 400-195924-1

Client Sample ID: MW-9 — Lab Sample ID: 400-195924-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.079		0.0010	0.00038	mg/L	1		8260B	Total/NA
Ethylbenzene	0.041		0.0010	0.00050	mg/L	1		8260B	Total/NA
Xylenes, Total	0.0062	J	0.010	0.0016	mg/L	1		8260B	Total/NA
Chloride	340	J	500	60	mg/L	500		300.0	Total/NA
Sulfate	12000	B	500	190	mg/L	500		300.0	Total/NA
Aluminum	9.2		0.20	0.051	mg/L	1		6010B	Dissolved
Barium	0.0087	J	0.010	0.0030	mg/L	1		6010B	Dissolved
Boron	0.70		0.10	0.022	mg/L	1		6010B	Dissolved
Cadmium	0.0063		0.0050	0.0010	mg/L	1		6010B	Dissolved
Cobalt	0.25		0.010	0.0030	mg/L	1		6010B	Dissolved
Copper	0.026		0.020	0.0080	mg/L	1		6010B	Dissolved
Iron	16		0.20	0.075	mg/L	1		6010B	Dissolved
Lead	0.0059	J	0.010	0.0020	mg/L	1		6010B	Dissolved
Manganese	7.2		0.010	0.0030	mg/L	1		6010B	Dissolved
Nickel	0.35		0.0060	0.0030	mg/L	1		6010B	Dissolved
Zinc	0.88		0.020	0.0080	mg/L	1		6010B	Dissolved
Total Dissolved Solids	18000		50	50	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-11 — Lab Sample ID: 400-195924-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.0026		0.0010	0.00038	mg/L	1		8260B	Total/NA
Chloride	210	J	500	60	mg/L	500		300.0	Total/NA
Sulfate	4200	B	500	190	mg/L	500		300.0	Total/NA
Barium	0.018		0.010	0.0030	mg/L	1		6010B	Dissolved
Boron	0.38		0.10	0.022	mg/L	1		6010B	Dissolved
Cobalt	0.0043	J	0.010	0.0030	mg/L	1		6010B	Dissolved
Iron	1.0		0.20	0.075	mg/L	1		6010B	Dissolved
Lead	0.0063	J	0.010	0.0020	mg/L	1		6010B	Dissolved
Manganese	2.3		0.010	0.0030	mg/L	1		6010B	Dissolved
Nickel	0.013		0.0060	0.0030	mg/L	1		6010B	Dissolved
Alkalinity, Total	730		1.0	0.50	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	6700		25	25	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-12 — Lab Sample ID: 400-195924-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	390		100	12	mg/L	100		300.0	Total/NA
Sulfate	3900	B	100	37	mg/L	100		300.0	Total/NA
Barium	0.014		0.010	0.0030	mg/L	1		6010B	Dissolved
Boron	0.36		0.10	0.022	mg/L	1		6010B	Dissolved
Cobalt	0.0089	J	0.010	0.0030	mg/L	1		6010B	Dissolved
Iron	2.0		0.20	0.075	mg/L	1		6010B	Dissolved
Lead	0.0051	J	0.010	0.0020	mg/L	1		6010B	Dissolved
Manganese	5.3		0.010	0.0030	mg/L	1		6010B	Dissolved
Nickel	0.0088		0.0060	0.0030	mg/L	1		6010B	Dissolved
Mercury	0.00010	J	0.00020	0.000070	mg/L	1		7470A	Dissolved
Alkalinity, Total	870		1.0	0.50	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	7100		25	25	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Pensacola

Detection Summary

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 400-195924-1

Client Sample ID: MW-13 — Lab Sample ID: 400-195924-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	2.2		0.010	0.0038	mg/L	10		8260B	Total/NA
Ethylbenzene	0.22		0.010	0.0050	mg/L	10		8260B	Total/NA
Xylenes, Total	0.042	J	0.10	0.016	mg/L	10		8260B	Total/NA
Chloride	700		100	12	mg/L	100		300.0	Total/NA
Sulfate	4900		200	74	mg/L	200		300.0	Total/NA
Arsenic	0.0034	J	0.010	0.0030	mg/L	1		6010B	Dissolved
Barium	0.019		0.010	0.0030	mg/L	1		6010B	Dissolved
Boron	0.27		0.10	0.022	mg/L	1		6010B	Dissolved
Iron	6.0		0.20	0.075	mg/L	1		6010B	Dissolved
Lead	0.0037	J	0.010	0.0020	mg/L	1		6010B	Dissolved
Manganese	3.2		0.010	0.0030	mg/L	1		6010B	Dissolved
Silver	0.0010	J	0.0050	0.0010	mg/L	1		6010B	Dissolved
Alkalinity, Total	2400		1.0	0.50	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	11000		50	50	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-14 — Lab Sample ID: 400-195924-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	320	J	500	60	mg/L	500		300.0	Total/NA
Sulfate	13000	B	500	190	mg/L	500		300.0	Total/NA
Barium	0.0092	J	0.010	0.0030	mg/L	1		6010B	Dissolved
Boron	0.67		0.10	0.022	mg/L	1		6010B	Dissolved
Iron	0.56		0.20	0.075	mg/L	1		6010B	Dissolved
Lead	0.0059	J	0.010	0.0020	mg/L	1		6010B	Dissolved
Manganese	12		0.010	0.0030	mg/L	1		6010B	Dissolved
Nickel	0.037		0.0060	0.0030	mg/L	1		6010B	Dissolved
Silver	0.0019	J	0.0050	0.0010	mg/L	1		6010B	Dissolved
Zinc	0.016	J	0.020	0.0080	mg/L	1		6010B	Dissolved
Mercury	0.000070	J	0.00020	0.000070	mg/L	1		7470A	Dissolved
Alkalinity, Total	850		1.0	0.50	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	18000		50	50	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-15 — Lab Sample ID: 400-195924-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.1		0.010	0.0038	mg/L	10		8260B	Total/NA
Ethylbenzene	0.035		0.010	0.0050	mg/L	10		8260B	Total/NA
Xylenes, Total	0.017	J	0.10	0.016	mg/L	10		8260B	Total/NA
Chloride	2600		500	60	mg/L	500		300.0	Total/NA
Sulfate	11000	B	500	190	mg/L	500		300.0	Total/NA
Arsenic	0.0035	J	0.010	0.0030	mg/L	1		6010B	Dissolved
Barium	0.0092	J	0.010	0.0030	mg/L	1		6010B	Dissolved
Boron	0.75		0.10	0.022	mg/L	1		6010B	Dissolved
Iron	5.7		0.20	0.075	mg/L	1		6010B	Dissolved
Lead	0.0045	J	0.010	0.0020	mg/L	1		6010B	Dissolved
Manganese	3.7		0.010	0.0030	mg/L	1		6010B	Dissolved
Alkalinity, Total	1800		1.0	0.50	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	22000		50	50	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Pensacola

Detection Summary

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 400-195924-1

Client Sample ID: MW-16 — Lab Sample ID: 400-195924-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.67		0.0050	0.0019	mg/L	5		8260B	Total/NA
Ethylbenzene	0.50		0.0050	0.0025	mg/L	5		8260B	Total/NA
Xylenes, Total	1.3		0.050	0.0080	mg/L	5		8260B	Total/NA
Chloride	3.3		1.0	0.12	mg/L	1		300.0	Total/NA
Sulfate	25	B	1.0	0.37	mg/L	1		300.0	Total/NA
Arsenic	0.0050	J	0.010	0.0030	mg/L	1		6010B	Dissolved
Barium	0.015		0.010	0.0030	mg/L	1		6010B	Dissolved
Boron	0.86		0.10	0.022	mg/L	1		6010B	Dissolved
Lead	0.0043	J	0.010	0.0020	mg/L	1		6010B	Dissolved
Manganese	0.022		0.010	0.0030	mg/L	1		6010B	Dissolved
Alkalinity, Total	2900		1.0	0.50	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	22000		50	50	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-18 — Lab Sample ID: 400-195924-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	540		500	60	mg/L	500		300.0	Total/NA
Sulfate	17000	B	500	190	mg/L	500		300.0	Total/NA
Aluminum	0.46		0.20	0.051	mg/L	1		6010B	Dissolved
Barium	0.011		0.010	0.0030	mg/L	1		6010B	Dissolved
Boron	0.95		0.10	0.022	mg/L	1		6010B	Dissolved
Cadmium	0.0015	J	0.0050	0.0010	mg/L	1		6010B	Dissolved
Cobalt	0.14		0.010	0.0030	mg/L	1		6010B	Dissolved
Iron	6.6		0.20	0.075	mg/L	1		6010B	Dissolved
Lead	0.0075	J	0.010	0.0020	mg/L	1		6010B	Dissolved
Manganese	12		0.010	0.0030	mg/L	1		6010B	Dissolved
Nickel	0.29		0.0060	0.0030	mg/L	1		6010B	Dissolved
Zinc	0.20		0.020	0.0080	mg/L	1		6010B	Dissolved
Alkalinity, Total	110		1.0	0.50	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	23000		50	50	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-19 — Lab Sample ID: 400-195924-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	170	J	500	60	mg/L	500		300.0	Total/NA
Nitrate as N	5.1		0.10	0.033	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	5.1		0.10	0.033	mg/L	1		300.0	Total/NA
Sulfate	11000	B	500	190	mg/L	500		300.0	Total/NA
Aluminum	0.059	J	0.20	0.051	mg/L	1		6010B	Dissolved
Barium	0.011		0.010	0.0030	mg/L	1		6010B	Dissolved
Boron	0.78		0.10	0.022	mg/L	1		6010B	Dissolved
Cadmium	0.010		0.0050	0.0010	mg/L	1		6010B	Dissolved
Cobalt	0.065		0.010	0.0030	mg/L	1		6010B	Dissolved
Lead	0.0054	J	0.010	0.0020	mg/L	1		6010B	Dissolved
Manganese	10		0.010	0.0030	mg/L	1		6010B	Dissolved
Nickel	0.19		0.0060	0.0030	mg/L	1		6010B	Dissolved
Selenium	0.018	J	0.020	0.0080	mg/L	1		6010B	Dissolved
Zinc	0.12		0.020	0.0080	mg/L	1		6010B	Dissolved
Mercury	0.000070	J	0.00020	0.000070	mg/L	1		7470A	Dissolved
Alkalinity, Total	210		1.0	0.50	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	14000		50	50	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Pensacola

Detection Summary

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 400-195924-1

Client Sample ID: MW-21 Lab Sample ID: 400-195924-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.82		0.0050	0.0019	mg/L	5		8260B	Total/NA
Ethylbenzene	0.058		0.0050	0.0025	mg/L	5		8260B	Total/NA
Xylenes, Total	0.80		0.050	0.0080	mg/L	5		8260B	Total/NA
Chloride	1700		500	60	mg/L	500		300.0	Total/NA
Sulfate	12000	B	500	190	mg/L	500		300.0	Total/NA
Aluminum	0.071	J	0.20	0.051	mg/L	1		6010B	Dissolved
Barium	0.012		0.010	0.0030	mg/L	1		6010B	Dissolved
Boron	0.95		0.10	0.022	mg/L	1		6010B	Dissolved
Iron	0.73		0.20	0.075	mg/L	1		6010B	Dissolved
Lead	0.0066	J	0.010	0.0020	mg/L	1		6010B	Dissolved
Manganese	4.1		0.010	0.0030	mg/L	1		6010B	Dissolved
Alkalinity, Total	1700		1.0	0.50	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	20000		50	50	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Pensacola

Sample Summary

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 400-195924-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
400-195924-1	TB-01	Water	11/16/20 07:00	11/17/20 09:36	
400-195924-2	DUP-01	Water	11/16/20 08:28	11/17/20 09:36	
400-195924-3	MW-2	Water	11/16/20 12:50	11/17/20 09:36	
400-195924-4	MW-4	Water	11/16/20 13:05	11/17/20 09:36	
400-195924-5	MW-6	Water	11/16/20 07:20	11/17/20 09:36	
400-195924-6	MW-8	Water	11/16/20 10:59	11/17/20 09:36	
400-195924-7	MW-9	Water	11/16/20 07:58	11/17/20 09:36	
400-195924-8	MW-11	Water	11/16/20 11:55	11/17/20 09:36	
400-195924-9	MW-12	Water	11/16/20 12:10	11/17/20 09:36	
400-195924-10	MW-13	Water	11/16/20 10:52	11/17/20 09:36	
400-195924-11	MW-14	Water	11/16/20 08:45	11/17/20 09:36	
400-195924-12	MW-15	Water	11/16/20 10:25	11/17/20 09:36	
400-195924-13	MW-16	Water	11/16/20 09:40	11/17/20 09:36	
400-195924-14	MW-18	Water	11/16/20 08:25	11/17/20 09:36	
400-195924-15	MW-19	Water	11/16/20 09:10	11/17/20 09:36	
400-195924-16	MW-21	Water	11/16/20 11:25	11/17/20 09:36	

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 400-195924-1

Client Sample ID: TB-01
Date Collected: 11/16/20 07:00
Date Received: 11/17/20 09:36

Lab Sample ID: 400-195924-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00038	U	0.0010	0.00038	mg/L			11/25/20 15:37	1
Ethylbenzene	0.00050	U	0.0010	0.00050	mg/L			11/25/20 15:37	1
Toluene	0.00041	U	0.0010	0.00041	mg/L			11/25/20 15:37	1
Xylenes, Total	0.0016	U	0.010	0.0016	mg/L			11/25/20 15:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*84*		*78 - 118*		*11/25/20 15:37*	*1*
Dibromofluoromethane	*117*		*81 - 121*		*11/25/20 15:37*	*1*
Toluene-d8 (Surr)	*87*		*80 - 120*		*11/25/20 15:37*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 400-195924-1

Client Sample ID: DUP-01

Date Collected: 11/16/20 08:28
Date Received: 11/17/20 09:36

Lab Sample ID: 400-195924-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.083**		0.0010	0.00038	mg/L			11/21/20 11:50	1
Ethylbenzene	**0.035**		0.0010	0.00050	mg/L			11/21/20 11:50	1
Toluene	0.00041	U	0.0010	0.00041	mg/L			11/21/20 11:50	1
Xylenes, Total	**0.0052**	**J**	0.010	0.0016	mg/L			11/21/20 11:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*86*		*78 - 118*		*11/21/20 11:50*	*1*
Dibromofluoromethane	*108*		*81 - 121*		*11/21/20 11:50*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*11/21/20 11:50*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**380**		100	12	mg/L			11/30/20 02:28	100
Nitrate as N	0.033	U	0.10	0.033	mg/L			11/17/20 19:30	1
Nitrate Nitrite as N	0.033	U	0.10	0.033	mg/L			11/17/20 19:30	1
Sulfate	**11000**		500	190	mg/L			12/03/20 15:27	500
Nitrite as N	0.026	U	0.10	0.026	mg/L			11/17/20 19:30	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**9.0**		0.20	0.051	mg/L		11/23/20 11:24	11/24/20 17:08	1
Arsenic	0.0030	U	0.010	0.0030	mg/L		11/23/20 11:24	11/24/20 17:08	1
Barium	**0.0091**	**J**	0.010	0.0030	mg/L		11/23/20 11:24	11/24/20 17:08	1
Boron	**0.68**		0.10	0.022	mg/L		11/23/20 11:24	11/24/20 17:08	1
Cadmium	**0.0060**		0.0050	0.0010	mg/L		11/23/20 11:24	11/24/20 17:08	1
Chromium	0.0050	U	0.010	0.0050	mg/L		11/23/20 11:24	11/24/20 17:08	1
Cobalt	**0.25**		0.010	0.0030	mg/L		11/23/20 11:24	11/24/20 17:08	1
Copper	**0.025**		0.020	0.0080	mg/L		11/23/20 11:24	11/24/20 17:08	1
Iron	**16**		0.20	0.075	mg/L		11/23/20 11:24	11/24/20 17:08	1
Lead	**0.0048**	**J**	0.010	0.0020	mg/L		11/23/20 11:24	11/24/20 17:08	1
Manganese	**6.7**		0.010	0.0030	mg/L		11/23/20 11:24	11/24/20 17:08	1
Molybdenum	0.0040	U	0.10	0.0040	mg/L		11/23/20 11:24	11/24/20 17:08	1
Nickel	**0.35**		0.0060	0.0030	mg/L		11/23/20 11:24	11/24/20 17:08	1
Selenium	0.0080	U	0.020	0.0080	mg/L		11/23/20 11:24	11/24/20 17:08	1
Silver	0.0010	U	0.0050	0.0010	mg/L		11/23/20 11:24	11/24/20 17:08	1
Zinc	**0.82**		0.020	0.0080	mg/L		11/23/20 11:24	11/24/20 17:08	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		11/18/20 09:00	11/18/20 18:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	0.50	U	1.0	0.50	mg/L			11/20/20 18:20	1
Total Dissolved Solids	**17000**		50	50	mg/L			11/21/20 23:59	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 400-195924-1

Client Sample ID: MW-2

Date Collected: 11/16/20 12:50
Date Received: 11/17/20 09:36

Lab Sample ID: 400-195924-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00038	U	0.0010	0.00038	mg/L			11/21/20 12:15	1
Ethylbenzene	0.00050	U	0.0010	0.00050	mg/L			11/21/20 12:15	1
Toluene	0.00041	U	0.0010	0.00041	mg/L			11/21/20 12:15	1
Xylenes, Total	0.0016	U	0.010	0.0016	mg/L			11/21/20 12:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*88*		*78 - 118*		*11/21/20 12:15*	*1*
Dibromofluoromethane	*111*		*81 - 121*		*11/21/20 12:15*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*11/21/20 12:15*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**250**		10	1.2	mg/L			11/30/20 02:51	10
Nitrate as N	**17**	**E**	0.10	0.033	mg/L			11/17/20 20:38	1
Nitrate as N	**18**	**H**	1.0	0.33	mg/L			11/30/20 02:51	10
Nitrate Nitrite as N	**17**	**E**	0.10	0.033	mg/L			11/17/20 20:38	1
Nitrate Nitrite as N	**18**	*** H**	1.0	0.33	mg/L			11/30/20 02:51	10
Sulfate	**3200**	**B**	100	37	mg/L			12/01/20 12:18	100
Nitrite as N	**0.19**		0.10	0.026	mg/L			11/17/20 20:38	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.15**	**J**	0.20	0.051	mg/L		11/23/20 11:24	11/24/20 17:13	1
Arsenic	0.0030	U	0.010	0.0030	mg/L		11/23/20 11:24	11/24/20 17:13	1
Barium	**0.0094**	**J**	0.010	0.0030	mg/L		11/23/20 11:24	11/24/20 17:13	1
Boron	**0.60**		0.10	0.022	mg/L		11/23/20 11:24	11/24/20 17:13	1
Cadmium	0.0010	U	0.0050	0.0010	mg/L		11/23/20 11:24	11/24/20 17:13	1
Chromium	0.0050	U	0.010	0.0050	mg/L		11/23/20 11:24	11/24/20 17:13	1
Cobalt	0.0030	U	0.010	0.0030	mg/L		11/23/20 11:24	11/24/20 17:13	1
Copper	0.0080	U	0.020	0.0080	mg/L		11/23/20 11:24	11/24/20 17:13	1
Iron	**0.19**	**J**	0.20	0.075	mg/L		11/23/20 11:24	11/24/20 17:13	1
Lead	**0.0049**	**J**	0.010	0.0020	mg/L		11/23/20 11:24	11/24/20 17:13	1
Manganese	**0.019**		0.010	0.0030	mg/L		11/23/20 11:24	11/24/20 17:13	1
Molybdenum	0.0040	U	0.10	0.0040	mg/L		11/23/20 11:24	11/24/20 17:13	1
Nickel	0.0030	U	0.0060	0.0030	mg/L		11/23/20 11:24	11/24/20 17:13	1
Selenium	**0.028**		0.020	0.0080	mg/L		11/23/20 11:24	11/24/20 17:13	1
Silver	0.0010	U	0.0050	0.0010	mg/L		11/23/20 11:24	11/24/20 17:13	1
Zinc	0.0080	U	0.020	0.0080	mg/L		11/23/20 11:24	11/24/20 17:13	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.000070**	**J**	0.00020	0.000070	mg/L		11/18/20 09:00	11/18/20 18:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**270**		1.0	0.50	mg/L			11/20/20 18:27	1
Total Dissolved Solids	**5100**		25	25	mg/L			11/21/20 23:59	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 400-195924-1

Client Sample ID: MW-4

Date Collected: 11/16/20 13:05
Date Received: 11/17/20 09:36

Lab Sample ID: 400-195924-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00038	U	0.0010	0.00038	mg/L			11/21/20 12:40	1
Ethylbenzene	0.00050	U	0.0010	0.00050	mg/L			11/21/20 12:40	1
Toluene	0.00041	U	0.0010	0.00041	mg/L			11/21/20 12:40	1
Xylenes, Total	0.0016	U	0.010	0.0016	mg/L			11/21/20 12:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*88*		*78 - 118*		*11/21/20 12:40*	*1*
Dibromofluoromethane	*109*		*81 - 121*		*11/21/20 12:40*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*11/21/20 12:40*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**370**		100	12	mg/L			12/01/20 10:01	100
Nitrate as N	**0.12**		0.10	0.033	mg/L			11/17/20 21:01	1
Nitrate Nitrite as N	**0.12**		0.10	0.033	mg/L			11/17/20 21:01	1
Sulfate	**2600**	**B**	100	37	mg/L			12/01/20 10:01	100
Nitrite as N	0.026	U	0.10	0.026	mg/L			11/17/20 21:01	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.051	U	0.20	0.051	mg/L		11/23/20 11:24	11/24/20 17:19	1
Arsenic	0.0030	U	0.010	0.0030	mg/L		11/23/20 11:24	11/24/20 17:19	1
Barium	**0.0072**	**J**	0.010	0.0030	mg/L		11/23/20 11:24	11/24/20 17:19	1
Boron	**0.72**		0.10	0.022	mg/L		11/23/20 11:24	11/24/20 17:19	1
Cadmium	0.0010	U	0.0050	0.0010	mg/L		11/23/20 11:24	11/24/20 17:19	1
Chromium	0.0050	U	0.010	0.0050	mg/L		11/23/20 11:24	11/24/20 17:19	1
Cobalt	**0.063**		0.010	0.0030	mg/L		11/23/20 11:24	11/24/20 17:19	1
Copper	0.0080	U	0.020	0.0080	mg/L		11/23/20 11:24	11/24/20 17:19	1
Iron	**2.0**		0.20	0.075	mg/L		11/23/20 11:24	11/24/20 17:19	1
Lead	**0.0033**	**J**	0.010	0.0020	mg/L		11/23/20 11:24	11/24/20 17:19	1
Manganese	**6.9**		0.010	0.0030	mg/L		11/23/20 11:24	11/24/20 17:19	1
Molybdenum	0.0040	U	0.10	0.0040	mg/L		11/23/20 11:24	11/24/20 17:19	1
Nickel	**0.33**		0.0060	0.0030	mg/L		11/23/20 11:24	11/24/20 17:19	1
Selenium	0.0080	U	0.020	0.0080	mg/L		11/23/20 11:24	11/24/20 17:19	1
Silver	0.0010	U	0.0050	0.0010	mg/L		11/23/20 11:24	11/24/20 17:19	1
Zinc	**0.012**	**J**	0.020	0.0080	mg/L		11/23/20 11:24	11/24/20 17:19	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.000075**	**J**	0.00020	0.000070	mg/L		11/18/20 09:00	11/18/20 18:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**880**		1.0	0.50	mg/L			11/19/20 17:30	1
Total Dissolved Solids	**5000**		25	25	mg/L			11/21/20 23:59	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 400-195924-1

Client Sample ID: MW-6

Date Collected: 11/16/20 07:20
Date Received: 11/17/20 09:36

Lab Sample ID: 400-195924-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00038	U	0.0010	0.00038	mg/L			11/21/20 08:57	1
Ethylbenzene	0.00050	U	0.0010	0.00050	mg/L			11/21/20 08:57	1
Toluene	0.00041	U	0.0010	0.00041	mg/L			11/21/20 08:57	1
Xylenes, Total	0.0016	U	0.010	0.0016	mg/L			11/21/20 08:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*89*		*78 - 118*		*11/21/20 08:57*	*1*
Dibromofluoromethane	*110*		*81 - 121*		*11/21/20 08:57*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*11/21/20 08:57*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**730**		100	12	mg/L			11/30/20 06:16	100
Nitrate as N	**61**	**E**	0.10	0.033	mg/L			11/17/20 14:56	1
Nitrate as N	**66**	**H**	1.0	0.33	mg/L			11/29/20 18:52	10
Nitrate Nitrite as N	**61**	**E**	0.10	0.033	mg/L			11/17/20 14:56	1
Nitrate Nitrite as N	**66**	*** H**	1.0	0.33	mg/L			11/29/20 18:52	10
Sulfate	**10000**	**B**	500	190	mg/L			12/01/20 01:10	500
Nitrite as N	0.026	U	0.10	0.026	mg/L			11/17/20 14:56	1
Nitrite as N	0.26	U * H	1.0	0.26	mg/L			11/29/20 18:52	10

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**17**		0.20	0.051	mg/L		11/23/20 11:24	11/24/20 17:24	1
Arsenic	0.0030	U	0.010	0.0030	mg/L		11/23/20 11:24	11/24/20 17:24	1
Barium	**0.0060**	**J**	0.010	0.0030	mg/L		11/23/20 11:24	11/24/20 17:24	1
Boron	**0.80**		0.10	0.022	mg/L		11/23/20 11:24	11/24/20 17:24	1
Cadmium	**0.012**		0.0050	0.0010	mg/L		11/23/20 11:24	11/24/20 17:24	1
Chromium	0.0050	U	0.010	0.0050	mg/L		11/23/20 11:24	11/24/20 17:24	1
Cobalt	**0.28**		0.010	0.0030	mg/L		11/23/20 11:24	11/24/20 17:24	1
Copper	**0.028**		0.020	0.0080	mg/L		11/23/20 11:24	11/24/20 17:24	1
Iron	**0.20**		0.20	0.075	mg/L		11/23/20 11:24	11/24/20 17:24	1
Lead	**0.0082**	**J**	0.010	0.0020	mg/L		11/23/20 11:24	11/24/20 17:24	1
Manganese	**7.6**		0.010	0.0030	mg/L		11/23/20 11:24	11/24/20 17:24	1
Molybdenum	0.0040	U	0.10	0.0040	mg/L		11/23/20 11:24	11/24/20 17:24	1
Nickel	**0.35**		0.0060	0.0030	mg/L		11/23/20 11:24	11/24/20 17:24	1
Selenium	**0.22**		0.020	0.0080	mg/L		11/23/20 11:24	11/24/20 17:24	1
Silver	0.0010	U	0.0050	0.0010	mg/L		11/23/20 11:24	11/24/20 17:24	1
Zinc	**0.63**		0.020	0.0080	mg/L		11/23/20 11:24	11/24/20 17:24	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.000075**	**J**	0.00020	0.000070	mg/L		11/18/20 09:00	11/18/20 18:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	0.50	U	1.0	0.50	mg/L			11/20/20 19:54	1
Total Dissolved Solids	**15000**		50	50	mg/L			11/21/20 23:37	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 400-195924-1

Client Sample ID: MW-8

Date Collected: 11/16/20 10:59
Date Received: 11/17/20 09:36

Lab Sample ID: 400-195924-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00038	U	0.0010	0.00038	mg/L			11/21/20 15:00	1
Ethylbenzene	0.00050	U	0.0010	0.00050	mg/L			11/21/20 15:00	1
Toluene	0.00041	U	0.0010	0.00041	mg/L			11/21/20 15:00	1
Xylenes, Total	0.0016	U	0.010	0.0016	mg/L			11/21/20 15:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*91*		*78 - 118*		*11/21/20 15:00*	*1*
Dibromofluoromethane	*91*		*81 - 121*		*11/21/20 15:00*	*1*
Toluene-d8 (Surr)	*108*		*80 - 120*		*11/21/20 15:00*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1000**		200	24	mg/L			12/01/20 10:24	200
Nitrate as N	**0.31**		0.10	0.033	mg/L			11/17/20 17:58	1
Nitrate Nitrite as N	**0.31**		0.10	0.033	mg/L			11/17/20 17:58	1
Sulfate	**5700**	**B**	200	74	mg/L			12/01/20 10:24	200
Nitrite as N	0.026	U	0.10	0.026	mg/L			11/17/20 17:58	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.051	U	0.20	0.051	mg/L		11/23/20 11:24	11/24/20 18:06	1
Arsenic	**0.0054**	**J**	0.010	0.0030	mg/L		11/23/20 11:24	11/24/20 18:06	1
Barium	**0.025**		0.010	0.0030	mg/L		11/23/20 11:24	11/24/20 18:06	1
Boron	**0.33**		0.10	0.022	mg/L		11/23/20 11:24	11/24/20 18:06	1
Cadmium	0.0010	U	0.0050	0.0010	mg/L		11/23/20 11:24	11/24/20 18:06	1
Chromium	0.0050	U	0.010	0.0050	mg/L		11/23/20 11:24	11/24/20 18:06	1
Cobalt	0.0030	U	0.010	0.0030	mg/L		11/23/20 11:24	11/24/20 18:06	1
Copper	0.0080	U	0.020	0.0080	mg/L		11/23/20 11:24	11/24/20 18:06	1
Iron	**2.2**		0.20	0.075	mg/L		11/23/20 11:24	11/24/20 18:06	1
Lead	**0.0028**	**J**	0.010	0.0020	mg/L		11/23/20 11:24	11/24/20 18:06	1
Manganese	**0.13**		0.010	0.0030	mg/L		11/23/20 11:24	11/24/20 18:06	1
Molybdenum	**0.037**	**J**	0.10	0.0040	mg/L		11/23/20 11:24	11/24/20 18:06	1
Nickel	**0.0032**	**J**	0.0060	0.0030	mg/L		11/23/20 11:24	11/24/20 18:06	1
Selenium	0.0080	U	0.020	0.0080	mg/L		11/23/20 11:24	11/24/20 18:06	1
Silver	0.0010	U	0.0050	0.0010	mg/L		11/23/20 11:24	11/24/20 18:06	1
Zinc	0.0080	U	0.020	0.0080	mg/L		11/23/20 11:24	11/24/20 18:06	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		11/18/20 09:00	11/18/20 18:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**3700**		1.0	0.50	mg/L			11/19/20 17:45	1
Total Dissolved Solids	**13000**		50	50	mg/L			11/21/20 23:59	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 400-195924-1

Client Sample ID: MW-9

Date Collected: 11/16/20 07:58
Date Received: 11/17/20 09:36

Lab Sample ID: 400-195924-7

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.079**		0.0010	0.00038	mg/L			11/21/20 15:27	1
Ethylbenzene	**0.041**		0.0010	0.00050	mg/L			11/21/20 15:27	1
Toluene	0.00041	U	0.0010	0.00041	mg/L			11/21/20 15:27	1
Xylenes, Total	**0.0062**	**J**	0.010	0.0016	mg/L			11/21/20 15:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*88*		*78 - 118*		*11/21/20 15:27*	*1*
Dibromofluoromethane	*92*		*81 - 121*		*11/21/20 15:27*	*1*
Toluene-d8 (Surr)	*107*		*80 - 120*		*11/21/20 15:27*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**340**	**J**	500	60	mg/L			12/01/20 11:10	500
Nitrate as N	0.033	U	0.10	0.033	mg/L			11/17/20 15:18	1
Nitrate Nitrite as N	0.033	U	0.10	0.033	mg/L			11/17/20 15:18	1
Sulfate	**12000**	**B**	500	190	mg/L			12/01/20 11:10	500
Nitrite as N	0.026	U	0.10	0.026	mg/L			11/17/20 15:18	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**9.2**		0.20	0.051	mg/L		11/23/20 11:24	11/24/20 18:11	1
Arsenic	0.0030	U	0.010	0.0030	mg/L		11/23/20 11:24	11/24/20 18:11	1
Barium	**0.0087**	**J**	0.010	0.0030	mg/L		11/23/20 11:24	11/24/20 18:11	1
Boron	**0.70**		0.10	0.022	mg/L		11/23/20 11:24	11/24/20 18:11	1
Cadmium	**0.0063**		0.0050	0.0010	mg/L		11/23/20 11:24	11/24/20 18:11	1
Chromium	0.0050	U	0.010	0.0050	mg/L		11/23/20 11:24	11/24/20 18:11	1
Cobalt	**0.25**		0.010	0.0030	mg/L		11/23/20 11:24	11/24/20 18:11	1
Copper	**0.026**		0.020	0.0080	mg/L		11/23/20 11:24	11/24/20 18:11	1
Iron	**16**		0.20	0.075	mg/L		11/23/20 11:24	11/24/20 18:11	1
Lead	**0.0059**	**J**	0.010	0.0020	mg/L		11/23/20 11:24	11/24/20 18:11	1
Manganese	**7.2**		0.010	0.0030	mg/L		11/23/20 11:24	11/24/20 18:11	1
Molybdenum	0.0040	U	0.10	0.0040	mg/L		11/23/20 11:24	11/24/20 18:11	1
Nickel	**0.35**		0.0060	0.0030	mg/L		11/23/20 11:24	11/24/20 18:11	1
Selenium	0.0080	U	0.020	0.0080	mg/L		11/23/20 11:24	11/24/20 18:11	1
Silver	0.0010	U	0.0050	0.0010	mg/L		11/23/20 11:24	11/24/20 18:11	1
Zinc	**0.88**		0.020	0.0080	mg/L		11/23/20 11:24	11/24/20 18:11	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		11/18/20 09:00	11/18/20 18:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	0.50	U	1.0	0.50	mg/L			11/20/20 18:49	1
Total Dissolved Solids	**18000**		50	50	mg/L			11/21/20 23:59	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 400-195924-1

Client Sample ID: MW-11

Date Collected: 11/16/20 11:55
Date Received: 11/17/20 09:36

Lab Sample ID: 400-195924-8

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.0026**		0.0010	0.00038	mg/L			11/21/20 15:55	1
Ethylbenzene	0.00050	U	0.0010	0.00050	mg/L			11/21/20 15:55	1
Toluene	0.00041	U	0.0010	0.00041	mg/L			11/21/20 15:55	1
Xylenes, Total	0.0016	U	0.010	0.0016	mg/L			11/21/20 15:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*88*		*78 - 118*		*11/21/20 15:55*	*1*
Dibromofluoromethane	*93*		*81 - 121*		*11/21/20 15:55*	*1*
Toluene-d8 (Surr)	*110*		*80 - 120*		*11/21/20 15:55*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**210**	**J**	500	60	mg/L			12/01/20 10:47	500
Nitrate as N	0.033	U	0.10	0.033	mg/L			11/17/20 19:52	1
Nitrate Nitrite as N	0.033	U	0.10	0.033	mg/L			11/17/20 19:52	1
Sulfate	**4200**	**B**	500	190	mg/L			12/01/20 10:47	500
Nitrite as N	0.026	U	0.10	0.026	mg/L			11/17/20 19:52	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.051	U	0.20	0.051	mg/L		11/23/20 11:24	11/24/20 18:17	1
Arsenic	0.0030	U	0.010	0.0030	mg/L		11/23/20 11:24	11/24/20 18:17	1
Barium	**0.018**		0.010	0.0030	mg/L		11/23/20 11:24	11/24/20 18:17	1
Boron	**0.38**		0.10	0.022	mg/L		11/23/20 11:24	11/24/20 18:17	1
Cadmium	0.0010	U	0.0050	0.0010	mg/L		11/23/20 11:24	11/24/20 18:17	1
Chromium	0.0050	U	0.010	0.0050	mg/L		11/23/20 11:24	11/24/20 18:17	1
Cobalt	**0.0043**	**J**	0.010	0.0030	mg/L		11/23/20 11:24	11/24/20 18:17	1
Copper	0.0080	U	0.020	0.0080	mg/L		11/23/20 11:24	11/24/20 18:17	1
Iron	**1.0**		0.20	0.075	mg/L		11/23/20 11:24	11/24/20 18:17	1
Lead	**0.0063**	**J**	0.010	0.0020	mg/L		11/23/20 11:24	11/24/20 18:17	1
Manganese	**2.3**		0.010	0.0030	mg/L		11/23/20 11:24	11/24/20 18:17	1
Molybdenum	0.0040	U	0.10	0.0040	mg/L		11/23/20 11:24	11/24/20 18:17	1
Nickel	**0.013**		0.0060	0.0030	mg/L		11/23/20 11:24	11/24/20 18:17	1
Selenium	0.0080	U	0.020	0.0080	mg/L		11/23/20 11:24	11/24/20 18:17	1
Silver	0.0010	U	0.0050	0.0010	mg/L		11/23/20 11:24	11/24/20 18:17	1
Zinc	0.0080	U	0.020	0.0080	mg/L		11/23/20 11:24	11/24/20 18:17	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		11/18/20 09:00	11/18/20 18:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**730**		1.0	0.50	mg/L			11/20/20 18:16	1
Total Dissolved Solids	**6700**		25	25	mg/L			11/21/20 23:59	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 400-195924-1

Client Sample ID: MW-12

Date Collected: 11/16/20 12:10
Date Received: 11/17/20 09:36

Lab Sample ID: 400-195924-9

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00038	U	0.0010	0.00038	mg/L			11/21/20 16:22	1
Ethylbenzene	0.00050	U	0.0010	0.00050	mg/L			11/21/20 16:22	1
Toluene	0.00041	U	0.0010	0.00041	mg/L			11/21/20 16:22	1
Xylenes, Total	0.0016	U	0.010	0.0016	mg/L			11/21/20 16:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*89*		*78 - 118*		*11/21/20 16:22*	*1*
Dibromofluoromethane	*91*		*81 - 121*		*11/21/20 16:22*	*1*
Toluene-d8 (Surr)	*107*		*80 - 120*		*11/21/20 16:22*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**390**		100	12	mg/L			12/01/20 11:55	100
Nitrate as N	0.033	U	0.10	0.033	mg/L			11/17/20 20:15	1
Nitrate Nitrite as N	0.033	U	0.10	0.033	mg/L			11/17/20 20:15	1
Sulfate	**3900**	**B**	100	37	mg/L			12/01/20 11:55	100
Nitrite as N	0.026	U	0.10	0.026	mg/L			11/17/20 20:15	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.051	U	0.20	0.051	mg/L		11/23/20 11:24	11/24/20 18:22	1
Arsenic	0.0030	U	0.010	0.0030	mg/L		11/23/20 11:24	11/24/20 18:22	1
Barium	**0.014**		0.010	0.0030	mg/L		11/23/20 11:24	11/24/20 18:22	1
Boron	**0.36**		0.10	0.022	mg/L		11/23/20 11:24	11/24/20 18:22	1
Cadmium	0.0010	U	0.0050	0.0010	mg/L		11/23/20 11:24	11/24/20 18:22	1
Chromium	0.0050	U	0.010	0.0050	mg/L		11/23/20 11:24	11/24/20 18:22	1
Cobalt	**0.0089**	**J**	0.010	0.0030	mg/L		11/23/20 11:24	11/24/20 18:22	1
Copper	0.0080	U	0.020	0.0080	mg/L		11/23/20 11:24	11/24/20 18:22	1
Iron	**2.0**		0.20	0.075	mg/L		11/23/20 11:24	11/24/20 18:22	1
Lead	**0.0051**	**J**	0.010	0.0020	mg/L		11/23/20 11:24	11/24/20 18:22	1
Manganese	**5.3**		0.010	0.0030	mg/L		11/23/20 11:24	11/24/20 18:22	1
Molybdenum	0.0040	U	0.10	0.0040	mg/L		11/23/20 11:24	11/24/20 18:22	1
Nickel	**0.0088**		0.0060	0.0030	mg/L		11/23/20 11:24	11/24/20 18:22	1
Selenium	0.0080	U	0.020	0.0080	mg/L		11/23/20 11:24	11/24/20 18:22	1
Silver	0.0010	U	0.0050	0.0010	mg/L		11/23/20 11:24	11/24/20 18:22	1
Zinc	0.0080	U	0.020	0.0080	mg/L		11/23/20 11:24	11/24/20 18:22	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00010**	**J**	0.00020	0.000070	mg/L		11/18/20 09:00	11/18/20 18:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**870**		1.0	0.50	mg/L			11/19/20 17:52	1
Total Dissolved Solids	**7100**		25	25	mg/L			11/21/20 23:59	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 400-195924-1

Client Sample ID: MW-13

Date Collected: 11/16/20 10:52
Date Received: 11/17/20 09:36

Lab Sample ID: 400-195924-10

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**2.2**		0.010	0.0038	mg/L			11/21/20 11:25	10
Ethylbenzene	**0.22**		0.010	0.0050	mg/L			11/21/20 11:25	10
Toluene	0.0041	U	0.010	0.0041	mg/L			11/21/20 11:25	10
Xylenes, Total	**0.042**	**J**	0.10	0.016	mg/L			11/21/20 11:25	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*90*		*78 - 118*		*11/21/20 11:25*	*10*
Dibromofluoromethane	*96*		*81 - 121*		*11/21/20 11:25*	*10*
Toluene-d8 (Surr)	*109*		*80 - 120*		*11/21/20 11:25*	*10*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**700**		100	12	mg/L			11/30/20 07:25	100
Nitrate as N	0.033	U	0.10	0.033	mg/L			11/17/20 17:35	1
Nitrate Nitrite as N	0.033	U	0.10	0.033	mg/L			11/17/20 17:35	1
Sulfate	**4900**		200	74	mg/L			12/03/20 18:30	200
Nitrite as N	0.026	U	0.10	0.026	mg/L			11/17/20 17:35	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.051	U	0.20	0.051	mg/L		11/23/20 11:24	11/24/20 18:27	1
Arsenic	**0.0034**	**J**	0.010	0.0030	mg/L		11/23/20 11:24	11/24/20 18:27	1
Barium	**0.019**		0.010	0.0030	mg/L		11/23/20 11:24	11/24/20 18:27	1
Boron	**0.27**		0.10	0.022	mg/L		11/23/20 11:24	11/24/20 18:27	1
Cadmium	0.0010	U	0.0050	0.0010	mg/L		11/23/20 11:24	11/24/20 18:27	1
Chromium	0.0050	U	0.010	0.0050	mg/L		11/23/20 11:24	11/24/20 18:27	1
Cobalt	0.0030	U	0.010	0.0030	mg/L		11/23/20 11:24	11/24/20 18:27	1
Copper	0.0080	U	0.020	0.0080	mg/L		11/23/20 11:24	11/24/20 18:27	1
Iron	**6.0**		0.20	0.075	mg/L		11/23/20 11:24	11/24/20 18:27	1
Lead	**0.0037**	**J**	0.010	0.0020	mg/L		11/23/20 11:24	11/24/20 18:27	1
Manganese	**3.2**		0.010	0.0030	mg/L		11/23/20 11:24	11/24/20 18:27	1
Molybdenum	0.0040	U	0.10	0.0040	mg/L		11/23/20 11:24	11/24/20 18:27	1
Nickel	0.0030	U	0.0060	0.0030	mg/L		11/23/20 11:24	11/24/20 18:27	1
Selenium	0.0080	U	0.020	0.0080	mg/L		11/23/20 11:24	11/24/20 18:27	1
Silver	**0.0010**	**J**	0.0050	0.0010	mg/L		11/23/20 11:24	11/24/20 18:27	1
Zinc	0.0080	U	0.020	0.0080	mg/L		11/23/20 11:24	11/24/20 18:27	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		11/18/20 09:00	11/18/20 18:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**2400**		1.0	0.50	mg/L			11/20/20 18:47	1
Total Dissolved Solids	**11000**		50	50	mg/L			11/21/20 23:59	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 400-195924-1

Client Sample ID: MW-14

Date Collected: 11/16/20 08:45
Date Received: 11/17/20 09:36

Lab Sample ID: 400-195924-11

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00038	U	0.0010	0.00038	mg/L			11/21/20 16:50	1
Ethylbenzene	0.00050	U	0.0010	0.00050	mg/L			11/21/20 16:50	1
Toluene	0.00041	U	0.0010	0.00041	mg/L			11/21/20 16:50	1
Xylenes, Total	0.0016	U	0.010	0.0016	mg/L			11/21/20 16:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*78 - 118*		*11/21/20 16:50*	*1*
Dibromofluoromethane	*91*		*81 - 121*		*11/21/20 16:50*	*1*
Toluene-d8 (Surr)	*108*		*80 - 120*		*11/21/20 16:50*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**320**	**J**	500	60	mg/L			12/01/20 02:19	500
Nitrate as N	0.033	U	0.10	0.033	mg/L			11/17/20 16:04	1
Nitrate Nitrite as N	0.033	U	0.10	0.033	mg/L			11/17/20 16:04	1
Sulfate	**13000**	**B**	500	190	mg/L			12/01/20 02:19	500
Nitrite as N	0.026	U	0.10	0.026	mg/L			11/17/20 16:04	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.051	U	0.20	0.051	mg/L		11/23/20 11:24	11/24/20 18:33	1
Arsenic	0.0030	U	0.010	0.0030	mg/L		11/23/20 11:24	11/24/20 18:33	1
Barium	**0.0092**	**J**	0.010	0.0030	mg/L		11/23/20 11:24	11/24/20 18:33	1
Boron	**0.67**		0.10	0.022	mg/L		11/23/20 11:24	11/24/20 18:33	1
Cadmium	0.0010	U	0.0050	0.0010	mg/L		11/23/20 11:24	11/24/20 18:33	1
Chromium	0.0050	U	0.010	0.0050	mg/L		11/23/20 11:24	11/24/20 18:33	1
Cobalt	0.0030	U	0.010	0.0030	mg/L		11/23/20 11:24	11/24/20 18:33	1
Copper	0.0080	U	0.020	0.0080	mg/L		11/23/20 11:24	11/24/20 18:33	1
Iron	**0.56**		0.20	0.075	mg/L		11/23/20 11:24	11/24/20 18:33	1
Lead	**0.0059**	**J**	0.010	0.0020	mg/L		11/23/20 11:24	11/24/20 18:33	1
Manganese	**12**		0.010	0.0030	mg/L		11/23/20 11:24	11/24/20 18:33	1
Molybdenum	0.0040	U	0.10	0.0040	mg/L		11/23/20 11:24	11/24/20 18:33	1
Nickel	**0.037**		0.0060	0.0030	mg/L		11/23/20 11:24	11/24/20 18:33	1
Selenium	0.0080	U	0.020	0.0080	mg/L		11/23/20 11:24	11/24/20 18:33	1
Silver	**0.0019**	**J**	0.0050	0.0010	mg/L		11/23/20 11:24	11/24/20 18:33	1
Zinc	**0.016**	**J**	0.020	0.0080	mg/L		11/23/20 11:24	11/24/20 18:33	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.000070**	**J**	0.00020	0.000070	mg/L		11/18/20 09:00	11/18/20 18:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**850**		1.0	0.50	mg/L			11/20/20 18:35	1
Total Dissolved Solids	**18000**		50	50	mg/L			11/21/20 23:59	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 400-195924-1

Client Sample ID: MW-15

Date Collected: 11/16/20 10:25
Date Received: 11/17/20 09:36

Lab Sample ID: 400-195924-12

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.1**		0.010	0.0038	mg/L			11/21/20 11:48	10
Ethylbenzene	**0.035**		0.010	0.0050	mg/L			11/21/20 11:48	10
Toluene	0.0041	U	0.010	0.0041	mg/L			11/21/20 11:48	10
Xylenes, Total	**0.017**	**J**	0.10	0.016	mg/L			11/21/20 11:48	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*90*		*78 - 118*		*11/21/20 11:48*	*10*
Dibromofluoromethane	*95*		*81 - 121*		*11/21/20 11:48*	*10*
Toluene-d8 (Surr)	*110*		*80 - 120*		*11/21/20 11:48*	*10*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2600**		500	60	mg/L			12/01/20 09:16	500
Nitrate as N	0.033	U	0.10	0.033	mg/L			11/17/20 17:13	1
Nitrate Nitrite as N	0.033	U	0.10	0.033	mg/L			11/17/20 17:13	1
Sulfate	**11000**	**B**	500	190	mg/L			12/01/20 09:16	500
Nitrite as N	0.026	U	0.10	0.026	mg/L			11/17/20 17:13	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.051	U	0.20	0.051	mg/L		11/23/20 11:24	11/24/20 18:38	1
Arsenic	**0.0035**	**J**	0.010	0.0030	mg/L		11/23/20 11:24	11/24/20 18:38	1
Barium	**0.0092**	**J**	0.010	0.0030	mg/L		11/23/20 11:24	11/24/20 18:38	1
Boron	**0.75**		0.10	0.022	mg/L		11/23/20 11:24	11/24/20 18:38	1
Cadmium	0.0010	U	0.0050	0.0010	mg/L		11/23/20 11:24	11/24/20 18:38	1
Chromium	0.0050	U	0.010	0.0050	mg/L		11/23/20 11:24	11/24/20 18:38	1
Cobalt	0.0030	U	0.010	0.0030	mg/L		11/23/20 11:24	11/24/20 18:38	1
Copper	0.0080	U	0.020	0.0080	mg/L		11/23/20 11:24	11/24/20 18:38	1
Iron	**5.7**		0.20	0.075	mg/L		11/23/20 11:24	11/24/20 18:38	1
Lead	**0.0045**	**J**	0.010	0.0020	mg/L		11/23/20 11:24	11/24/20 18:38	1
Manganese	**3.7**		0.010	0.0030	mg/L		11/23/20 11:24	11/24/20 18:38	1
Molybdenum	0.0040	U	0.10	0.0040	mg/L		11/23/20 11:24	11/24/20 18:38	1
Nickel	0.0030	U	0.0060	0.0030	mg/L		11/23/20 11:24	11/24/20 18:38	1
Selenium	0.0080	U	0.020	0.0080	mg/L		11/23/20 11:24	11/24/20 18:38	1
Silver	0.0010	U	0.0050	0.0010	mg/L		11/23/20 11:24	11/24/20 18:38	1
Zinc	0.0080	U	0.020	0.0080	mg/L		11/23/20 11:24	11/24/20 18:38	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		11/18/20 09:00	11/18/20 18:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**1800**		1.0	0.50	mg/L			11/24/20 14:18	1
Total Dissolved Solids	**22000**		50	50	mg/L			11/21/20 23:37	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 400-195924-1

Client Sample ID: MW-16

Date Collected: 11/16/20 09:40
Date Received: 11/17/20 09:36

Lab Sample ID: 400-195924-13

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.67**		0.0050	0.0019	mg/L			11/21/20 10:38	5
Ethylbenzene	**0.50**		0.0050	0.0025	mg/L			11/21/20 10:38	5
Toluene	0.0021	U	0.0050	0.0021	mg/L			11/21/20 10:38	5
Xylenes, Total	**1.3**		0.050	0.0080	mg/L			11/21/20 10:38	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*78 - 118*		*11/21/20 10:38*	*5*
Dibromofluoromethane	*97*		*81 - 121*		*11/21/20 10:38*	*5*
Toluene-d8 (Surr)	*108*		*80 - 120*		*11/21/20 10:38*	*5*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3.3**		1.0	0.12	mg/L			12/01/20 02:42	1
Nitrate as N	0.033	U	0.10	0.033	mg/L			11/17/20 16:50	1
Nitrate Nitrite as N	0.033	U	0.10	0.033	mg/L			11/17/20 16:50	1
Sulfate	**25**	**B**	1.0	0.37	mg/L			12/01/20 02:42	1
Nitrite as N	0.026	U	0.10	0.026	mg/L			11/17/20 16:50	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.051	U	0.20	0.051	mg/L		11/23/20 11:24	11/24/20 18:43	1
Arsenic	**0.0050**	**J**	0.010	0.0030	mg/L		11/23/20 11:24	11/24/20 18:43	1
Barium	**0.015**		0.010	0.0030	mg/L		11/23/20 11:24	11/24/20 18:43	1
Boron	**0.86**		0.10	0.022	mg/L		11/23/20 11:24	11/24/20 18:43	1
Cadmium	0.0010	U	0.0050	0.0010	mg/L		11/23/20 11:24	11/24/20 18:43	1
Chromium	0.0050	U	0.010	0.0050	mg/L		11/23/20 11:24	11/24/20 18:43	1
Cobalt	0.0030	U	0.010	0.0030	mg/L		11/23/20 11:24	11/24/20 18:43	1
Copper	0.0080	U	0.020	0.0080	mg/L		11/23/20 11:24	11/24/20 18:43	1
Iron	0.075	U	0.20	0.075	mg/L		11/23/20 11:24	11/24/20 18:43	1
Lead	**0.0043**	**J**	0.010	0.0020	mg/L		11/23/20 11:24	11/24/20 18:43	1
Manganese	**0.022**		0.010	0.0030	mg/L		11/23/20 11:24	11/24/20 18:43	1
Molybdenum	0.0040	U	0.10	0.0040	mg/L		11/23/20 11:24	11/24/20 18:43	1
Nickel	0.0030	U	0.0060	0.0030	mg/L		11/23/20 11:24	11/24/20 18:43	1
Selenium	0.0080	U	0.020	0.0080	mg/L		11/23/20 11:24	11/24/20 18:43	1
Silver	0.0010	U	0.0050	0.0010	mg/L		11/23/20 11:24	11/24/20 18:43	1
Zinc	0.0080	U	0.020	0.0080	mg/L		11/23/20 11:24	11/24/20 18:43	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		11/18/20 09:00	11/18/20 18:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**2900**		1.0	0.50	mg/L			11/20/20 17:58	1
Total Dissolved Solids	**22000**		50	50	mg/L			11/21/20 23:37	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 400-195924-1

Client Sample ID: MW-18

Date Collected: 11/16/20 08:25
Date Received: 11/17/20 09:36

Lab Sample ID: 400-195924-14

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00038	U	0.0010	0.00038	mg/L			11/21/20 17:18	1
Ethylbenzene	0.00050	U	0.0010	0.00050	mg/L			11/21/20 17:18	1
Toluene	0.00041	U	0.0010	0.00041	mg/L			11/21/20 17:18	1
Xylenes, Total	0.0016	U	0.010	0.0016	mg/L			11/21/20 17:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*88*		*78 - 118*		*11/21/20 17:18*	*1*
Dibromofluoromethane	*91*		*81 - 121*		*11/21/20 17:18*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*11/21/20 17:18*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**540**		500	60	mg/L			12/01/20 09:39	500
Nitrate as N	0.033	U	0.10	0.033	mg/L			11/17/20 15:41	1
Nitrate Nitrite as N	0.033	U	0.10	0.033	mg/L			11/17/20 15:41	1
Sulfate	**17000**	**B**	500	190	mg/L			12/01/20 09:39	500
Nitrite as N	0.026	U	0.10	0.026	mg/L			11/17/20 15:41	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.46**		0.20	0.051	mg/L		11/23/20 11:24	11/24/20 18:49	1
Arsenic	0.0030	U	0.010	0.0030	mg/L		11/23/20 11:24	11/24/20 18:49	1
Barium	**0.011**		0.010	0.0030	mg/L		11/23/20 11:24	11/24/20 18:49	1
Boron	**0.95**		0.10	0.022	mg/L		11/23/20 11:24	11/24/20 18:49	1
Cadmium	**0.0015**	**J**	0.0050	0.0010	mg/L		11/23/20 11:24	11/24/20 18:49	1
Chromium	0.0050	U	0.010	0.0050	mg/L		11/23/20 11:24	11/24/20 18:49	1
Cobalt	**0.14**		0.010	0.0030	mg/L		11/23/20 11:24	11/24/20 18:49	1
Copper	0.0080	U	0.020	0.0080	mg/L		11/23/20 11:24	11/24/20 18:49	1
Iron	**6.6**		0.20	0.075	mg/L		11/23/20 11:24	11/24/20 18:49	1
Lead	**0.0075**	**J**	0.010	0.0020	mg/L		11/23/20 11:24	11/24/20 18:49	1
Manganese	**12**		0.010	0.0030	mg/L		11/23/20 11:24	11/24/20 18:49	1
Molybdenum	0.0040	U	0.10	0.0040	mg/L		11/23/20 11:24	11/24/20 18:49	1
Nickel	**0.29**		0.0060	0.0030	mg/L		11/23/20 11:24	11/24/20 18:49	1
Selenium	0.0080	U	0.020	0.0080	mg/L		11/23/20 11:24	11/24/20 18:49	1
Silver	0.0010	U	0.0050	0.0010	mg/L		11/23/20 11:24	11/24/20 18:49	1
Zinc	**0.20**		0.020	0.0080	mg/L		11/23/20 11:24	11/24/20 18:49	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		11/18/20 09:00	11/18/20 18:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**110**		1.0	0.50	mg/L			11/24/20 14:23	1
Total Dissolved Solids	**23000**		50	50	mg/L			11/21/20 23:59	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 400-195924-1

Client Sample ID: MW-19

Date Collected: 11/16/20 09:10
Date Received: 11/17/20 09:36

Lab Sample ID: 400-195924-15

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00038	U	0.0010	0.00038	mg/L			11/21/20 17:45	1
Ethylbenzene	0.00050	U	0.0010	0.00050	mg/L			11/21/20 17:45	1
Toluene	0.00041	U	0.0010	0.00041	mg/L			11/21/20 17:45	1
Xylenes, Total	0.0016	U	0.010	0.0016	mg/L			11/21/20 17:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*91*		*78 - 118*		*11/21/20 17:45*	*1*
Dibromofluoromethane	*92*		*81 - 121*		*11/21/20 17:45*	*1*
Toluene-d8 (Surr)	*108*		*80 - 120*		*11/21/20 17:45*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**170**	**J**	500	60	mg/L			12/01/20 03:04	500
Nitrate as N	**5.1**		0.10	0.033	mg/L			11/17/20 16:27	1
Nitrate Nitrite as N	**5.1**		0.10	0.033	mg/L			11/17/20 16:27	1
Sulfate	**11000**	**B**	500	190	mg/L			12/01/20 03:04	500
Nitrite as N	0.026	U	0.10	0.026	mg/L			11/17/20 16:27	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.059**	**J**	0.20	0.051	mg/L		11/23/20 11:24	11/24/20 18:54	1
Arsenic	0.0030	U	0.010	0.0030	mg/L		11/23/20 11:24	11/24/20 18:54	1
Barium	**0.011**		0.010	0.0030	mg/L		11/23/20 11:24	11/24/20 18:54	1
Boron	**0.78**		0.10	0.022	mg/L		11/23/20 11:24	11/24/20 18:54	1
Cadmium	**0.010**		0.0050	0.0010	mg/L		11/23/20 11:24	11/24/20 18:54	1
Chromium	0.0050	U	0.010	0.0050	mg/L		11/23/20 11:24	11/24/20 18:54	1
Cobalt	**0.065**		0.010	0.0030	mg/L		11/23/20 11:24	11/24/20 18:54	1
Copper	0.0080	U	0.020	0.0080	mg/L		11/23/20 11:24	11/24/20 18:54	1
Iron	0.075	U	0.20	0.075	mg/L		11/23/20 11:24	11/24/20 18:54	1
Lead	**0.0054**	**J**	0.010	0.0020	mg/L		11/23/20 11:24	11/24/20 18:54	1
Manganese	**10**		0.010	0.0030	mg/L		11/23/20 11:24	11/24/20 18:54	1
Molybdenum	0.0040	U	0.10	0.0040	mg/L		11/23/20 11:24	11/24/20 18:54	1
Nickel	**0.19**		0.0060	0.0030	mg/L		11/23/20 11:24	11/24/20 18:54	1
Selenium	**0.018**	**J**	0.020	0.0080	mg/L		11/23/20 11:24	11/24/20 18:54	1
Silver	0.0010	U	0.0050	0.0010	mg/L		11/23/20 11:24	11/24/20 18:54	1
Zinc	**0.12**		0.020	0.0080	mg/L		11/23/20 11:24	11/24/20 18:54	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.000070**	**J**	0.00020	0.000070	mg/L		11/18/20 09:00	11/18/20 18:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**210**		1.0	0.50	mg/L			11/20/20 18:10	1
Total Dissolved Solids	**14000**		50	50	mg/L			11/21/20 23:59	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 400-195924-1

Client Sample ID: MW-21

Date Collected: 11/16/20 11:25
Date Received: 11/17/20 09:36

Lab Sample ID: 400-195924-16

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.82**		0.0050	0.0019	mg/L			11/21/20 11:02	5
Ethylbenzene	**0.058**		0.0050	0.0025	mg/L			11/21/20 11:02	5
Toluene	0.0021	U	0.0050	0.0021	mg/L			11/21/20 11:02	5
Xylenes, Total	**0.80**		0.050	0.0080	mg/L			11/21/20 11:02	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*91*		*78 - 118*		*11/21/20 11:02*	*5*
Dibromofluoromethane	*95*		*81 - 121*		*11/21/20 11:02*	*5*
Toluene-d8 (Surr)	*111*		*80 - 120*		*11/21/20 11:02*	*5*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1700**		500	60	mg/L			12/01/20 08:53	500
Nitrate as N	0.033	U	0.10	0.033	mg/L			11/17/20 18:21	1
Nitrate Nitrite as N	0.033	U	0.10	0.033	mg/L			11/17/20 18:21	1
Sulfate	**12000**	**B**	500	190	mg/L			12/01/20 08:53	500
Nitrite as N	0.026	U	0.10	0.026	mg/L			11/17/20 18:21	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.071**	**J**	0.20	0.051	mg/L		11/23/20 11:24	11/24/20 19:15	1
Arsenic	0.0030	U	0.010	0.0030	mg/L		11/23/20 11:24	11/24/20 19:15	1
Barium	**0.012**		0.010	0.0030	mg/L		11/23/20 11:24	11/24/20 19:15	1
Boron	**0.95**		0.10	0.022	mg/L		11/23/20 11:24	11/24/20 19:15	1
Cadmium	0.0010	U	0.0050	0.0010	mg/L		11/23/20 11:24	11/24/20 19:15	1
Chromium	0.0050	U	0.010	0.0050	mg/L		11/23/20 11:24	11/24/20 19:15	1
Cobalt	0.0030	U	0.010	0.0030	mg/L		11/23/20 11:24	11/24/20 19:15	1
Copper	0.0080	U	0.020	0.0080	mg/L		11/23/20 11:24	11/24/20 19:15	1
Iron	**0.73**		0.20	0.075	mg/L		11/23/20 11:24	11/24/20 19:15	1
Lead	**0.0066**	**J**	0.010	0.0020	mg/L		11/23/20 11:24	11/24/20 19:15	1
Manganese	**4.1**		0.010	0.0030	mg/L		11/23/20 11:24	11/24/20 19:15	1
Molybdenum	0.0040	U	0.10	0.0040	mg/L		11/23/20 11:24	11/24/20 19:15	1
Nickel	0.0030	U	0.0060	0.0030	mg/L		11/23/20 11:24	11/24/20 19:15	1
Selenium	0.0080	U	0.020	0.0080	mg/L		11/23/20 11:24	11/24/20 19:15	1
Silver	0.0010	U	0.0050	0.0010	mg/L		11/23/20 11:24	11/24/20 19:15	1
Zinc	0.0080	U	0.020	0.0080	mg/L		11/23/20 11:24	11/24/20 19:15	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		11/18/20 09:00	11/18/20 18:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**1700**		1.0	0.50	mg/L			11/20/20 20:04	1
Total Dissolved Solids	**20000**		50	50	mg/L			11/21/20 23:59	1

Definitions/Glossary

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 400-195924-1

Qualifiers

GC/MS VOA

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

HPLC/IC

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
B	Compound was found in the blank and sample.
E	Result exceeded calibration range.
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Definitions/Glossary

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 400-195924-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Surrogate Summary

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 400-195924-1

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

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

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(78-118)	(81-121)	(80-120)
400-195736-A-5 MS	Matrix Spike	92	92	110
400-195736-A-5 MSD	Matrix Spike Duplicate	92	91	110
400-195848-A-9 MS	Matrix Spike	79	112	87
400-195848-A-9 MSD	Matrix Spike Duplicate	79	111	86
400-195924-1	TB-01	84	117	87
400-195924-2	DUP-01	86	108	96
400-195924-3	MW-2	88	111	92
400-195924-4	MW-4	88	109	95
400-195924-5	MW-6	89	110	93
400-195924-5 MS	MW-6	79	106	93
400-195924-5 MSD	MW-6	79	109	92
400-195924-6	MW-8	91	91	108
400-195924-7	MW-9	88	92	107
400-195924-8	MW-11	88	93	110
400-195924-9	MW-12	89	91	107
400-195924-10	MW-13	90	96	109
400-195924-11	MW-14	92	91	108
400-195924-12	MW-15	90	95	110
400-195924-13	MW-16	92	97	108
400-195924-14	MW-18	88	91	106
400-195924-15	MW-19	91	92	108
400-195924-16	MW-21	91	95	111
LCS 400-511608/1002	Lab Control Sample	80	105	94
LCS 400-511612/1002	Lab Control Sample	91	91	111
LCS 400-512036/1002	Lab Control Sample	80	112	88
MB 400-511608/4	Method Blank	86	109	94
MB 400-511612/4	Method Blank	91	91	107
MB 400-512036/4	Method Blank	88	113	88

Surrogate Legend

BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

QC Association Summary

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 400-195924-1

GC/MS VOA

Analysis Batch: 511608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-195924-2	DUP-01	Total/NA	Water	8260B	
400-195924-3	MW-2	Total/NA	Water	8260B	
400-195924-4	MW-4	Total/NA	Water	8260B	
400-195924-5	MW-6	Total/NA	Water	8260B	
MB 400-511608/4	Method Blank	Total/NA	Water	8260B	
LCS 400-511608/1002	Lab Control Sample	Total/NA	Water	8260B	
400-195924-5 MS	MW-6	Total/NA	Water	8260B	
400-195924-5 MSD	MW-6	Total/NA	Water	8260B	

Analysis Batch: 511612

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-195924-6	MW-8	Total/NA	Water	8260B	
400-195924-7	MW-9	Total/NA	Water	8260B	
400-195924-8	MW-11	Total/NA	Water	8260B	
400-195924-9	MW-12	Total/NA	Water	8260B	
400-195924-10	MW-13	Total/NA	Water	8260B	
400-195924-11	MW-14	Total/NA	Water	8260B	
400-195924-12	MW-15	Total/NA	Water	8260B	
400-195924-13	MW-16	Total/NA	Water	8260B	
400-195924-14	MW-18	Total/NA	Water	8260B	
400-195924-15	MW-19	Total/NA	Water	8260B	
400-195924-16	MW-21	Total/NA	Water	8260B	
MB 400-511612/4	Method Blank	Total/NA	Water	8260B	
LCS 400-511612/1002	Lab Control Sample	Total/NA	Water	8260B	

Analysis Batch: 512036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-195924-1	TB-01	Total/NA	Water	8260B	
MB 400-512036/4	Method Blank	Total/NA	Water	8260B	
LCS 400-512036/1002	Lab Control Sample	Total/NA	Water	8260B	

HPLC/IC

Analysis Batch: 511043

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-195924-2	DUP-01	Total/NA	Water	300.0	
400-195924-3	MW-2	Total/NA	Water	300.0	
400-195924-4	MW-4	Total/NA	Water	300.0	
400-195924-5	MW-6	Total/NA	Water	300.0	
400-195924-6	MW-8	Total/NA	Water	300.0	
400-195924-7	MW-9	Total/NA	Water	300.0	
400-195924-8	MW-11	Total/NA	Water	300.0	
400-195924-9	MW-12	Total/NA	Water	300.0	
400-195924-10	MW-13	Total/NA	Water	300.0	
400-195924-11	MW-14	Total/NA	Water	300.0	
400-195924-12	MW-15	Total/NA	Water	300.0	
400-195924-13	MW-16	Total/NA	Water	300.0	
400-195924-14	MW-18	Total/NA	Water	300.0	
400-195924-15	MW-19	Total/NA	Water	300.0	
400-195924-16	MW-21	Total/NA	Water	300.0	
MB 400-511043/4	Method Blank	Total/NA	Water	300.0	

QC Association Summary

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 400-195924-1

HPLC/IC (Continued)

Analysis Batch: 511043 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 400-511043/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 400-511043/7	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 400-511043/5	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 512536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-195924-3	MW-2	Total/NA	Water	300.0	
400-195924-5	MW-6	Total/NA	Water	300.0	
MB 400-512536/21	Method Blank	Total/NA	Water	300.0	
LCS 400-512536/23	Lab Control Sample	Total/NA	Water	300.0	
LCSD 400-512536/24	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 400-512536/22	Lab Control Sample	Total/NA	Water	300.0	
400-195924-5 MS	MW-6	Total/NA	Water	300.0	
400-195924-5 MSD	MW-6	Total/NA	Water	300.0	

Analysis Batch: 512539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-195924-2	DUP-01	Total/NA	Water	300.0	
400-195924-3	MW-2	Total/NA	Water	300.0	
400-195924-3	MW-2	Total/NA	Water	300.0	
400-195924-4	MW-4	Total/NA	Water	300.0	
400-195924-5	MW-6	Total/NA	Water	300.0	
400-195924-5	MW-6	Total/NA	Water	300.0	
400-195924-6	MW-8	Total/NA	Water	300.0	
400-195924-7	MW-9	Total/NA	Water	300.0	
400-195924-8	MW-11	Total/NA	Water	300.0	
400-195924-9	MW-12	Total/NA	Water	300.0	
400-195924-10	MW-13	Total/NA	Water	300.0	
400-195924-11	MW-14	Total/NA	Water	300.0	
400-195924-12	MW-15	Total/NA	Water	300.0	
400-195924-13	MW-16	Total/NA	Water	300.0	
400-195924-14	MW-18	Total/NA	Water	300.0	
400-195924-15	MW-19	Total/NA	Water	300.0	
400-195924-16	MW-21	Total/NA	Water	300.0	
MB 400-512539/21	Method Blank	Total/NA	Water	300.0	
MB 400-512539/50	Method Blank	Total/NA	Water	300.0	
MB 400-512539/94	Method Blank	Total/NA	Water	300.0	
LCS 400-512539/23	Lab Control Sample	Total/NA	Water	300.0	
LCS 400-512539/52	Lab Control Sample	Total/NA	Water	300.0	
LCS 400-512539/96	Lab Control Sample	Total/NA	Water	300.0	
LCSD 400-512539/24	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 400-512539/53	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 400-512539/97	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 400-512539/22	Lab Control Sample	Total/NA	Water	300.0	
MRL 400-512539/51	Lab Control Sample	Total/NA	Water	300.0	
400-195924-5 MS	MW-6	Total/NA	Water	300.0	
400-195924-5 MS	MW-6	Total/NA	Water	300.0	
400-195924-5 MSD	MW-6	Total/NA	Water	300.0	
400-195924-5 MSD	MW-6	Total/NA	Water	300.0	

QC Association Summary

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 400-195924-1

HPLC/IC

Analysis Batch: 513023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-195924-2	DUP-01	Total/NA	Water	300.0	
400-195924-10	MW-13	Total/NA	Water	300.0	
MB 400-513023/4	Method Blank	Total/NA	Water	300.0	
LCS 400-513023/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 400-513023/7	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 400-513023/5	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 510908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-195924-6	MW-8	Dissolved	Water	7470A	
400-195924-7	MW-9	Dissolved	Water	7470A	
400-195924-8	MW-11	Dissolved	Water	7470A	
400-195924-9	MW-12	Dissolved	Water	7470A	
400-195924-10	MW-13	Dissolved	Water	7470A	
400-195924-11	MW-14	Dissolved	Water	7470A	
400-195924-12	MW-15	Dissolved	Water	7470A	
400-195924-13	MW-16	Dissolved	Water	7470A	
400-195924-14	MW-18	Dissolved	Water	7470A	
400-195924-15	MW-19	Dissolved	Water	7470A	
400-195924-16	MW-21	Dissolved	Water	7470A	
MB 400-510908/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-510908/15-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 511099

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-195924-2	DUP-01	Dissolved	Water	7470A	
400-195924-3	MW-2	Dissolved	Water	7470A	
400-195924-4	MW-4	Dissolved	Water	7470A	
400-195924-5	MW-6	Dissolved	Water	7470A	
MB 400-511099/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-511099/15-A	Lab Control Sample	Total/NA	Water	7470A	
400-195924-5 MS	MW-6	Dissolved	Water	7470A	
400-195924-5 MSD	MW-6	Dissolved	Water	7470A	

Analysis Batch: 511285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-195924-2	DUP-01	Dissolved	Water	7470A	511099
400-195924-3	MW-2	Dissolved	Water	7470A	511099
400-195924-4	MW-4	Dissolved	Water	7470A	511099
400-195924-5	MW-6	Dissolved	Water	7470A	511099
400-195924-6	MW-8	Dissolved	Water	7470A	510908
400-195924-7	MW-9	Dissolved	Water	7470A	510908
400-195924-8	MW-11	Dissolved	Water	7470A	510908
400-195924-9	MW-12	Dissolved	Water	7470A	510908
400-195924-10	MW-13	Dissolved	Water	7470A	510908
400-195924-11	MW-14	Dissolved	Water	7470A	510908
400-195924-12	MW-15	Dissolved	Water	7470A	510908
400-195924-13	MW-16	Dissolved	Water	7470A	510908
400-195924-14	MW-18	Dissolved	Water	7470A	510908

QC Association Summary

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 400-195924-1

Metals (Continued)

Analysis Batch: 511285 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-195924-15	MW-19	Dissolved	Water	7470A	510908
400-195924-16	MW-21	Dissolved	Water	7470A	510908
MB 400-510908/14-A	Method Blank	Total/NA	Water	7470A	510908
MB 400-511099/14-A	Method Blank	Total/NA	Water	7470A	511099
LCS 400-510908/15-A	Lab Control Sample	Total/NA	Water	7470A	510908
LCS 400-511099/15-A	Lab Control Sample	Total/NA	Water	7470A	511099
400-195924-5 MS	MW-6	Dissolved	Water	7470A	511099
400-195924-5 MSD	MW-6	Dissolved	Water	7470A	511099

Prep Batch: 511775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-195924-2	DUP-01	Dissolved	Water	3005A	
400-195924-3	MW-2	Dissolved	Water	3005A	
400-195924-4	MW-4	Dissolved	Water	3005A	
400-195924-5	MW-6	Dissolved	Water	3005A	
400-195924-6	MW-8	Dissolved	Water	3005A	
400-195924-7	MW-9	Dissolved	Water	3005A	
400-195924-8	MW-11	Dissolved	Water	3005A	
400-195924-9	MW-12	Dissolved	Water	3005A	
400-195924-10	MW-13	Dissolved	Water	3005A	
400-195924-11	MW-14	Dissolved	Water	3005A	
400-195924-12	MW-15	Dissolved	Water	3005A	
400-195924-13	MW-16	Dissolved	Water	3005A	
400-195924-14	MW-18	Dissolved	Water	3005A	
400-195924-15	MW-19	Dissolved	Water	3005A	
400-195924-16	MW-21	Dissolved	Water	3005A	
MB 400-511775/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 400-511775/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
400-195924-5 MS	MW-6	Dissolved	Water	3005A	
400-195924-5 MSD	MW-6	Dissolved	Water	3005A	

Analysis Batch: 512046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-195924-2	DUP-01	Dissolved	Water	6010B	511775
400-195924-3	MW-2	Dissolved	Water	6010B	511775
400-195924-4	MW-4	Dissolved	Water	6010B	511775
400-195924-5	MW-6	Dissolved	Water	6010B	511775
400-195924-6	MW-8	Dissolved	Water	6010B	511775
400-195924-7	MW-9	Dissolved	Water	6010B	511775
400-195924-8	MW-11	Dissolved	Water	6010B	511775
400-195924-9	MW-12	Dissolved	Water	6010B	511775
400-195924-10	MW-13	Dissolved	Water	6010B	511775
400-195924-11	MW-14	Dissolved	Water	6010B	511775
400-195924-12	MW-15	Dissolved	Water	6010B	511775
400-195924-13	MW-16	Dissolved	Water	6010B	511775
400-195924-14	MW-18	Dissolved	Water	6010B	511775
400-195924-15	MW-19	Dissolved	Water	6010B	511775
400-195924-16	MW-21	Dissolved	Water	6010B	511775
MB 400-511775/1-A	Method Blank	Total Recoverable	Water	6010B	511775
LCS 400-511775/2-A	Lab Control Sample	Total Recoverable	Water	6010B	511775
400-195924-5 MS	MW-6	Dissolved	Water	6010B	511775

QC Association Summary

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 400-195924-1

Metals (Continued)

Analysis Batch: 512046 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-195924-5 MSD	MW-6	Dissolved	Water	6010B	511775

General Chemistry

Analysis Batch: 511460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-195924-4	MW-4	Total/NA	Water	SM 2320B	
400-195924-6	MW-8	Total/NA	Water	SM 2320B	
400-195924-9	MW-12	Total/NA	Water	SM 2320B	
MB 400-511460/4	Method Blank	Total/NA	Water	SM 2320B	
LCS 400-511460/5	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 511670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-195924-5	MW-6	Total/NA	Water	SM 2540C	
400-195924-12	MW-15	Total/NA	Water	SM 2540C	
400-195924-13	MW-16	Total/NA	Water	SM 2540C	
MB 400-511670/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-511670/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 511671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-195924-2	DUP-01	Total/NA	Water	SM 2540C	
400-195924-3	MW-2	Total/NA	Water	SM 2540C	
400-195924-4	MW-4	Total/NA	Water	SM 2540C	
400-195924-6	MW-8	Total/NA	Water	SM 2540C	
400-195924-7	MW-9	Total/NA	Water	SM 2540C	
400-195924-8	MW-11	Total/NA	Water	SM 2540C	
400-195924-9	MW-12	Total/NA	Water	SM 2540C	
400-195924-10	MW-13	Total/NA	Water	SM 2540C	
400-195924-11	MW-14	Total/NA	Water	SM 2540C	
400-195924-14	MW-18	Total/NA	Water	SM 2540C	
400-195924-15	MW-19	Total/NA	Water	SM 2540C	
400-195924-16	MW-21	Total/NA	Water	SM 2540C	
MB 400-511671/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-511671/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 511709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-195924-2	DUP-01	Total/NA	Water	SM 2320B	
400-195924-3	MW-2	Total/NA	Water	SM 2320B	
400-195924-5	MW-6	Total/NA	Water	SM 2320B	
400-195924-7	MW-9	Total/NA	Water	SM 2320B	
400-195924-8	MW-11	Total/NA	Water	SM 2320B	
400-195924-10	MW-13	Total/NA	Water	SM 2320B	
400-195924-11	MW-14	Total/NA	Water	SM 2320B	
400-195924-13	MW-16	Total/NA	Water	SM 2320B	
400-195924-15	MW-19	Total/NA	Water	SM 2320B	
400-195924-16	MW-21	Total/NA	Water	SM 2320B	
MB 400-511709/4	Method Blank	Total/NA	Water	SM 2320B	
LCS 400-511709/5	Lab Control Sample	Total/NA	Water	SM 2320B	

QC Association Summary

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 400-195924-1

General Chemistry

Analysis Batch: 511995

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-195924-12	MW-15	Total/NA	Water	SM 2320B	
400-195924-14	MW-18	Total/NA	Water	SM 2320B	
MB 400-511995/4	Method Blank	Total/NA	Water	SM 2320B	
LCS 400-511995/5	Lab Control Sample	Total/NA	Water	SM 2320B	

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 400-195924-1

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

Lab Sample ID: MB 400-511608/4
Matrix: Water
Analysis Batch: 511608

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00038	U	0.0010	0.00038	mg/L			11/21/20 08:08	1
Ethylbenzene	0.00050	U	0.0010	0.00050	mg/L			11/21/20 08:08	1
Toluene	0.00041	U	0.0010	0.00041	mg/L			11/21/20 08:08	1
Xylenes, Total	0.0016	U	0.010	0.0016	mg/L			11/21/20 08:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*86*		*78 - 118*		*11/21/20 08:08*	*1*
Dibromofluoromethane	*109*		*81 - 121*		*11/21/20 08:08*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*11/21/20 08:08*	*1*

Lab Sample ID: LCS 400-511608/1002
Matrix: Water
Analysis Batch: 511608

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.0500	0.0477		mg/L		95	70 - 130		
Ethylbenzene			0.0500	0.0441		mg/L		88	70 - 130		
Toluene			0.0500	0.0437		mg/L		87	70 - 130		
Xylenes, Total			0.100	0.0876		mg/L		88	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*80*		*78 - 118*
Dibromofluoromethane	*105*		*81 - 121*
Toluene-d8 (Surr)	*94*		*80 - 120*

Lab Sample ID: 400-195924-5 MS
Matrix: Water
Analysis Batch: 511608

Client Sample ID: MW-6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	0.00038	U	0.0500	0.0538		mg/L		108	56 - 142		
Ethylbenzene	0.00050	U	0.0500	0.0476		mg/L		95	58 - 131		
Toluene	0.00041	U	0.0500	0.0486		mg/L		97	65 - 130		
Xylenes, Total	0.0016	U	0.100	0.0926		mg/L		93	59 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*79*		*78 - 118*
Dibromofluoromethane	*106*		*81 - 121*
Toluene-d8 (Surr)	*93*		*80 - 120*

Lab Sample ID: 400-195924-5 MSD
Matrix: Water
Analysis Batch: 511608

Client Sample ID: MW-6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.00038	U	0.0500	0.0556		mg/L		111	56 - 142	3	30
Ethylbenzene	0.00050	U	0.0500	0.0493		mg/L		99	58 - 131	4	30
Toluene	0.00041	U	0.0500	0.0492		mg/L		98	65 - 130	1	30

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 400-195924-1

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

Lab Sample ID: 400-195924-5 MSD
Matrix: Water
Analysis Batch: 511608

Client Sample ID: MW-6
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	0.0016	U	0.100	0.0964		mg/L		96	59 - 130	4	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*79*		*78 - 118*
Dibromofluoromethane	*109*		*81 - 121*
Toluene-d8 (Surr)	*92*		*80 - 120*

Lab Sample ID: MB 400-511612/4
Matrix: Water
Analysis Batch: 511612

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00038	U	0.0010	0.00038	mg/L			11/21/20 09:27	1
Ethylbenzene	0.00050	U	0.0010	0.00050	mg/L			11/21/20 09:27	1
Toluene	0.00041	U	0.0010	0.00041	mg/L			11/21/20 09:27	1
Xylenes, Total	0.0016	U	0.010	0.0016	mg/L			11/21/20 09:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*91*		*78 - 118*		*11/21/20 09:27*	*1*
Dibromofluoromethane	*91*		*81 - 121*		*11/21/20 09:27*	*1*
Toluene-d8 (Surr)	*107*		*80 - 120*		*11/21/20 09:27*	*1*

Lab Sample ID: LCS 400-511612/1002
Matrix: Water
Analysis Batch: 511612

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.0500	0.0475		mg/L		95	70 - 130		
Ethylbenzene			0.0500	0.0559		mg/L		112	70 - 130		
Toluene			0.0500	0.0544		mg/L		109	70 - 130		
Xylenes, Total			0.100	0.108		mg/L		108	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*91*		*78 - 118*
Dibromofluoromethane	*91*		*81 - 121*
Toluene-d8 (Surr)	*111*		*80 - 120*

Lab Sample ID: MB 400-512036/4
Matrix: Water
Analysis Batch: 512036

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00038	U	0.0010	0.00038	mg/L			11/25/20 08:35	1
Ethylbenzene	0.00050	U	0.0010	0.00050	mg/L			11/25/20 08:35	1
Toluene	0.00041	U	0.0010	0.00041	mg/L			11/25/20 08:35	1
Xylenes, Total	0.0016	U	0.010	0.0016	mg/L			11/25/20 08:35	1

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 400-195924-1

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

Lab Sample ID: MB 400-512036/4
Matrix: Water
Analysis Batch: 512036

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	88		78 - 118		11/25/20 08:35	1
Dibromofluoromethane	113		81 - 121		11/25/20 08:35	1
Toluene-d8 (Surr)	88		80 - 120		11/25/20 08:35	1

Lab Sample ID: LCS 400-512036/1002
Matrix: Water
Analysis Batch: 512036

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.0475		mg/L		95	70 - 130
Ethylbenzene	0.0500	0.0410		mg/L		82	70 - 130
Toluene	0.0500	0.0402		mg/L		80	70 - 130
Xylenes, Total	0.100	0.0803		mg/L		80	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	80		78 - 118
Dibromofluoromethane	112		81 - 121
Toluene-d8 (Surr)	88		80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 400-511043/4
Matrix: Water
Analysis Batch: 511043

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.033	U	0.10	0.033	mg/L			11/17/20 10:22	1
Nitrate Nitrite as N	0.033	U	0.10	0.033	mg/L			11/17/20 10:22	1
Nitrite as N	0.026	U	0.10	0.026	mg/L			11/17/20 10:22	1

Lab Sample ID: LCS 400-511043/6
Matrix: Water
Analysis Batch: 511043

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	2.26	2.13		mg/L		94	90 - 110
Nitrate Nitrite as N	5.30	4.97		mg/L		94	90 - 110
Nitrite as N	3.04	2.84		mg/L		94	90 - 110

Lab Sample ID: LCSD 400-511043/7
Matrix: Water
Analysis Batch: 511043

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	2.26	2.14		mg/L		95	90 - 110	0	15
Nitrate Nitrite as N	5.30	4.99		mg/L		94	90 - 110	0	15
Nitrite as N	3.04	2.85		mg/L		94	90 - 110	0	15

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 400-195924-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MRL 400-511043/5
Matrix: Water
Analysis Batch: 511043

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	0.226	0.167		mg/L		74	50 - 150
Nitrate Nitrite as N	0.530	0.337		mg/L		64	50 - 150
Nitrite as N	0.304	0.170		mg/L		56	50 - 150

Lab Sample ID: MB 400-512536/21
Matrix: Water
Analysis Batch: 512536

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.033	U	0.10	0.033	mg/L			11/29/20 17:20	1
Nitrate Nitrite as N	0.033	U	0.10	0.033	mg/L			11/29/20 17:20	1
Nitrite as N	0.026	U	0.10	0.026	mg/L			11/29/20 17:20	1

Lab Sample ID: LCS 400-512536/23
Matrix: Water
Analysis Batch: 512536

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	2.26	2.40		mg/L		106	90 - 110
Nitrate Nitrite as N	5.30	5.79		mg/L		109	90 - 110
Nitrite as N	3.04	3.39	*	mg/L		112	90 - 110

Lab Sample ID: LCSD 400-512536/24
Matrix: Water
Analysis Batch: 512536

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	2.26	2.44		mg/L		108	90 - 110	2	15
Nitrate Nitrite as N	5.30	5.88	*	mg/L		111	90 - 110	2	15
Nitrite as N	3.04	3.44	*	mg/L		113	90 - 110	1	15

Lab Sample ID: MRL 400-512536/22
Matrix: Water
Analysis Batch: 512536

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	0.226	0.227		mg/L		101	50 - 150
Nitrate Nitrite as N	0.530	0.531		mg/L		100	50 - 150
Nitrite as N	0.304	0.304		mg/L		100	50 - 150

Lab Sample ID: 400-195924-5 MS
Matrix: Water
Analysis Batch: 512536

Client Sample ID: MW-6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	66	H	22.6	92.6	H	mg/L		118	80 - 120
Nitrate Nitrite as N	66	* H	53.0	127	H	mg/L		115	80 - 120
Nitrite as N	0.26	U * H	30.4	34.5	H	mg/L		114	80 - 120

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 400-195924-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 400-195924-5 MSD — **Client Sample ID: MW-6**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 512536

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	66	H	22.6	92.7	H	mg/L		119	80 - 120	0	20
Nitrate Nitrite as N	66	* H	53.0	127	H	mg/L		116	80 - 120	0	20
Nitrite as N	0.26	U * H	30.4	34.7	H	mg/L		114	80 - 120	0	20

Lab Sample ID: MB 400-512539/21 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 512539

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.12	U	1.0	0.12	mg/L			11/29/20 17:20	1
Sulfate	0.37	U	1.0	0.37	mg/L			11/29/20 17:20	1

Lab Sample ID: MB 400-512539/50 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 512539

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.12	U	1.0	0.12	mg/L			11/30/20 04:45	1
Sulfate	0.37	U	1.0	0.37	mg/L			11/30/20 04:45	1

Lab Sample ID: MB 400-512539/94 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 512539

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.12	U	1.0	0.12	mg/L			11/30/20 23:39	1
Sulfate	0.411	J	1.0	0.37	mg/L			11/30/20 23:39	1

Lab Sample ID: LCS 400-512539/23 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 512539

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	10.8		mg/L		108	90 - 110
Sulfate	10.0	10.4		mg/L		104	90 - 110

Lab Sample ID: LCS 400-512539/52 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 512539

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	11.0		mg/L		110	90 - 110
Sulfate	10.0	10.7		mg/L		107	90 - 110

Lab Sample ID: LCS 400-512539/96 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 512539

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	11.0		mg/L		110	90 - 110

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 400-195924-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 400-512539/96
Matrix: Water
Analysis Batch: 512539

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			10.0	10.6		mg/L		106	90 - 110		

Lab Sample ID: LCSD 400-512539/24
Matrix: Water
Analysis Batch: 512539

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			10.0	11.0		mg/L		110	90 - 110	1	15
Sulfate			10.0	10.5		mg/L		105	90 - 110	1	15

Lab Sample ID: LCSD 400-512539/53
Matrix: Water
Analysis Batch: 512539

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			10.0	11.0		mg/L		110	90 - 110	0	15
Sulfate			10.0	10.4		mg/L		104	90 - 110	3	15

Lab Sample ID: LCSD 400-512539/97
Matrix: Water
Analysis Batch: 512539

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			10.0	11.0		mg/L		110	90 - 110	1	15
Sulfate			10.0	10.6		mg/L		106	90 - 110	0	15

Lab Sample ID: MRL 400-512539/22
Matrix: Water
Analysis Batch: 512539

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			1.00	1.03		mg/L		103	50 - 150		
Sulfate			1.00	1.49		mg/L		149	50 - 150		

Lab Sample ID: MRL 400-512539/51
Matrix: Water
Analysis Batch: 512539

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			1.00	1.06		mg/L		106	50 - 150		
Sulfate			1.00	1.01		mg/L		101	50 - 150		

Lab Sample ID: 400-195924-5 MS
Matrix: Water
Analysis Batch: 512539

Client Sample ID: MW-6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	730		1000	1850		mg/L		112	80 - 120		

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 400-195924-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 400-195924-5 MS — **Client Sample ID: MW-6**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 512539

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate	10000	B	5000	15200		mg/L		103	80 - 120		

Lab Sample ID: 400-195924-5 MSD — **Client Sample ID: MW-6**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 512539

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	730		1000	1890		mg/L		116	80 - 120	2	20

Lab Sample ID: 400-195924-5 MSD — **Client Sample ID: MW-6**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 512539

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	10000	B	5000	15000		mg/L		99	80 - 120	1	20

Lab Sample ID: MB 400-513023/4 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 513023

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.12	U	1.0	0.12	mg/L			12/03/20 13:56	1
Sulfate	0.37	U	1.0	0.37	mg/L			12/03/20 13:56	1

Lab Sample ID: LCS 400-513023/6 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 513023

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	9.74		mg/L		97	90 - 110
Sulfate	10.0	10.4		mg/L		104	90 - 110

Lab Sample ID: LCSD 400-513023/7 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 513023

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	10.0	9.76		mg/L		98	90 - 110	0	15
Sulfate	10.0	10.3		mg/L		103	90 - 110	1	15

Lab Sample ID: MRL 400-513023/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 513023

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1.00	0.950	J	mg/L		95	50 - 150
Sulfate	1.00	0.945	J	mg/L		94	50 - 150

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 400-195924-1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 400-511775/1-A
Matrix: Water
Analysis Batch: 512046

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 511775

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.051	U	0.20	0.051	mg/L		11/23/20 11:24	11/24/20 16:58	1
Arsenic	0.0030	U	0.010	0.0030	mg/L		11/23/20 11:24	11/24/20 16:58	1
Barium	0.0030	U	0.010	0.0030	mg/L		11/23/20 11:24	11/24/20 16:58	1
Boron	0.022	U	0.10	0.022	mg/L		11/23/20 11:24	11/24/20 16:58	1
Cadmium	0.0010	U	0.0050	0.0010	mg/L		11/23/20 11:24	11/24/20 16:58	1
Chromium	0.0050	U	0.010	0.0050	mg/L		11/23/20 11:24	11/24/20 16:58	1
Cobalt	0.0030	U	0.010	0.0030	mg/L		11/23/20 11:24	11/24/20 16:58	1
Copper	0.0080	U	0.020	0.0080	mg/L		11/23/20 11:24	11/24/20 16:58	1
Iron	0.075	U	0.20	0.075	mg/L		11/23/20 11:24	11/24/20 16:58	1
Lead	0.0020	U	0.010	0.0020	mg/L		11/23/20 11:24	11/24/20 16:58	1
Manganese	0.0030	U	0.010	0.0030	mg/L		11/23/20 11:24	11/24/20 16:58	1
Molybdenum	0.0040	U	0.10	0.0040	mg/L		11/23/20 11:24	11/24/20 16:58	1
Nickel	0.0030	U	0.0060	0.0030	mg/L		11/23/20 11:24	11/24/20 16:58	1
Selenium	0.0080	U	0.020	0.0080	mg/L		11/23/20 11:24	11/24/20 16:58	1
Silver	0.0010	U	0.0050	0.0010	mg/L		11/23/20 11:24	11/24/20 16:58	1
Zinc	0.0080	U	0.020	0.0080	mg/L		11/23/20 11:24	11/24/20 16:58	1

Lab Sample ID: LCS 400-511775/2-A
Matrix: Water
Analysis Batch: 512046

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 511775

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10.0	10.3		mg/L		103	80 - 120
Arsenic	1.00	0.934		mg/L		93	80 - 120
Barium	1.00	1.00		mg/L		100	80 - 120
Boron	1.00	0.981		mg/L		98	80 - 120
Cadmium	0.500	0.476		mg/L		95	80 - 120
Chromium	1.00	0.924		mg/L		92	80 - 120
Cobalt	1.00	0.968		mg/L		97	80 - 120
Copper	1.00	0.944		mg/L		94	80 - 120
Iron	10.0	9.56		mg/L		96	80 - 120
Lead	1.00	0.996		mg/L		100	80 - 120
Manganese	1.00	0.938		mg/L		94	80 - 120
Molybdenum	1.00	0.976		mg/L		98	80 - 120
Nickel	1.00	1.01		mg/L		101	80 - 120
Selenium	1.00	0.960		mg/L		96	80 - 120
Silver	0.500	0.472		mg/L		94	80 - 120
Zinc	1.00	0.926		mg/L		93	80 - 120

Lab Sample ID: 400-195924-5 MS
Matrix: Water
Analysis Batch: 512046

Client Sample ID: MW-6
Prep Type: Dissolved
Prep Batch: 511775

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	17		10.0	26.6		mg/L		95	75 - 125
Arsenic	0.0030	U	1.00	1.00		mg/L		100	75 - 125
Barium	0.0060	J	1.00	0.944		mg/L		94	75 - 125
Boron	0.80		1.00	1.71		mg/L		92	75 - 125
Cadmium	0.012		0.500	0.504		mg/L		98	75 - 125

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 400-195924-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 400-195924-5 MS
Matrix: Water
Analysis Batch: 512046

Client Sample ID: MW-6
Prep Type: Dissolved
Prep Batch: 511775

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	0.0050	U	1.00	0.836		mg/L		84	75 - 125
Cobalt	0.28		1.00	1.31		mg/L		103	75 - 125
Copper	0.028		1.00	0.934		mg/L		91	75 - 125
Iron	0.20		10.0	8.90		mg/L		87	75 - 125
Lead	0.0082	J	1.00	0.988		mg/L		98	75 - 125
Manganese	7.6		1.00	8.58	4	mg/L		98	75 - 125
Molybdenum	0.0040	U	1.00	0.909		mg/L		91	75 - 125
Nickel	0.35		1.00	1.38		mg/L		104	75 - 125
Selenium	0.22		1.00	1.30		mg/L		109	75 - 125
Silver	0.0010	U	0.500	0.503		mg/L		101	75 - 125
Zinc	0.63		1.00	1.48		mg/L		85	75 - 125

Lab Sample ID: 400-195924-5 MSD
Matrix: Water
Analysis Batch: 512046

Client Sample ID: MW-6
Prep Type: Dissolved
Prep Batch: 511775

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	17		10.0	26.5		mg/L		94	75 - 125	0	20
Arsenic	0.0030	U	1.00	0.994		mg/L		99	75 - 125	1	20
Barium	0.0060	J	1.00	0.936		mg/L		93	75 - 125	1	20
Boron	0.80		1.00	1.70		mg/L		91	75 - 125	1	20
Cadmium	0.012		0.500	0.500		mg/L		98	75 - 125	1	20
Chromium	0.0050	U	1.00	0.836		mg/L		84	75 - 125	0	20
Cobalt	0.28		1.00	1.30		mg/L		103	75 - 125	0	20
Copper	0.028		1.00	0.929		mg/L		90	75 - 125	1	20
Iron	0.20		10.0	8.78		mg/L		86	75 - 125	1	20
Lead	0.0082	J	1.00	0.982		mg/L		97	75 - 125	1	20
Manganese	7.6		1.00	8.57	4	mg/L		96	75 - 125	0	20
Molybdenum	0.0040	U	1.00	0.902		mg/L		90	75 - 125	1	20
Nickel	0.35		1.00	1.38		mg/L		103	75 - 125	0	20
Selenium	0.22		1.00	1.29		mg/L		107	75 - 125	1	20
Silver	0.0010	U	0.500	0.498		mg/L		100	75 - 125	1	20
Zinc	0.63		1.00	1.47		mg/L		85	75 - 125	0	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-510908/14-A
Matrix: Water
Analysis Batch: 511285

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 510908

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		11/18/20 09:00	11/18/20 17:34	1

Lab Sample ID: LCS 400-510908/15-A
Matrix: Water
Analysis Batch: 511285

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 510908

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00101	0.000980		mg/L		97	80 - 120

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 400-195924-1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: MB 400-511099/14-A
Matrix: Water
Analysis Batch: 511285

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 511099

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		11/18/20 09:00	11/18/20 18:33	1

Lab Sample ID: LCS 400-511099/15-A
Matrix: Water
Analysis Batch: 511285

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 511099

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00101	0.000970		mg/L		96	80 - 120

Lab Sample ID: 400-195924-5 MS
Matrix: Water
Analysis Batch: 511285

Client Sample ID: MW-6
Prep Type: Dissolved
Prep Batch: 511099

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.000075	J	0.00201	0.00190		mg/L		90	80 - 120

Lab Sample ID: 400-195924-5 MSD
Matrix: Water
Analysis Batch: 511285

Client Sample ID: MW-6
Prep Type: Dissolved
Prep Batch: 511099

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.000075	J	0.00201	0.00186		mg/L		89	80 - 120	2	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 400-511460/4
Matrix: Water
Analysis Batch: 511460

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	0.50	U	1.0	0.50	mg/L			11/19/20 15:10	1

Lab Sample ID: LCS 400-511460/5
Matrix: Water
Analysis Batch: 511460

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	100	96.0		mg/L		96	80 - 120

Lab Sample ID: MB 400-511709/4
Matrix: Water
Analysis Batch: 511709

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	0.50	U	1.0	0.50	mg/L			11/20/20 17:18	1

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 400-195924-1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCS 400-511709/5
Matrix: Water
Analysis Batch: 511709

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	100	98.1		mg/L		98	80 - 120

Lab Sample ID: MB 400-511995/4
Matrix: Water
Analysis Batch: 511995

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	0.50	U	1.0	0.50	mg/L			11/24/20 13:27	1

Lab Sample ID: LCS 400-511995/5
Matrix: Water
Analysis Batch: 511995

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	100	94.1		mg/L		94	80 - 120

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 400-511670/1
Matrix: Water
Analysis Batch: 511670

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			11/21/20 23:37	1

Lab Sample ID: LCS 400-511670/2
Matrix: Water
Analysis Batch: 511670

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	293	322		mg/L		110	78 - 122

Lab Sample ID: MB 400-511671/1
Matrix: Water
Analysis Batch: 511671

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			11/21/20 23:59	1

Lab Sample ID: LCS 400-511671/2
Matrix: Water
Analysis Batch: 511671

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	293	296		mg/L		101	78 - 122

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 400-195924-1

Client Sample ID: TB-01

Date Collected: 11/16/20 07:00
Date Received: 11/17/20 09:36

Lab Sample ID: 400-195924-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	512036	11/25/20 15:37	WPD	TAL PEN

Client Sample ID: DUP-01

Date Collected: 11/16/20 08:28
Date Received: 11/17/20 09:36

Lab Sample ID: 400-195924-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	511608	11/21/20 11:50	WPD	TAL PEN
Total/NA	Analysis	300.0		1			511043	11/17/20 19:30	CAC	TAL PEN
Total/NA	Analysis	300.0		500			513023	12/03/20 15:27	TAJ	TAL PEN
Total/NA	Analysis	300.0		100			512539	11/30/20 02:28	TAJ	TAL PEN
Dissolved	Prep	3005A			50 mL	50 mL	511775	11/23/20 11:24	KWN	TAL PEN
Dissolved	Analysis	6010B		1			512046	11/24/20 17:08	GESP	TAL PEN
Dissolved	Prep	7470A			40 mL	40 mL	511099	11/18/20 09:00	NET	TAL PEN
Dissolved	Analysis	7470A		1			511285	11/18/20 18:47	NET	TAL PEN
Total/NA	Analysis	SM 2320B		1			511709	11/20/20 18:20	RRC	TAL PEN
Total/NA	Analysis	SM 2540C		1	5 mL	50 mL	511671	11/21/20 23:59	DEK	TAL PEN

Client Sample ID: MW-2

Date Collected: 11/16/20 12:50
Date Received: 11/17/20 09:36

Lab Sample ID: 400-195924-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	511608	11/21/20 12:15	WPD	TAL PEN
Total/NA	Analysis	300.0		1			511043	11/17/20 20:38	CAC	TAL PEN
Total/NA	Analysis	300.0		10			512536	11/30/20 02:51	TAJ	TAL PEN
Total/NA	Analysis	300.0		10			512539	11/30/20 02:51	TAJ	TAL PEN
Total/NA	Analysis	300.0		100			512539	12/01/20 12:18	TAJ	TAL PEN
Dissolved	Prep	3005A			50 mL	50 mL	511775	11/23/20 11:24	KWN	TAL PEN
Dissolved	Analysis	6010B		1			512046	11/24/20 17:13	GESP	TAL PEN
Dissolved	Prep	7470A			40 mL	40 mL	511099	11/18/20 09:00	NET	TAL PEN
Dissolved	Analysis	7470A		1			511285	11/18/20 18:48	NET	TAL PEN
Total/NA	Analysis	SM 2320B		1			511709	11/20/20 18:27	RRC	TAL PEN
Total/NA	Analysis	SM 2540C		1	10 mL	50 mL	511671	11/21/20 23:59	DEK	TAL PEN

Client Sample ID: MW-4

Date Collected: 11/16/20 13:05
Date Received: 11/17/20 09:36

Lab Sample ID: 400-195924-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	511608	11/21/20 12:40	WPD	TAL PEN
Total/NA	Analysis	300.0		1			511043	11/17/20 21:01	CAC	TAL PEN
Total/NA	Analysis	300.0		100			512539	12/01/20 10:01	TAJ	TAL PEN

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 400-195924-1

Client Sample ID: MW-4

Lab Sample ID: 400-195924-4

Date Collected: 11/16/20 13:05
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
Dissolved	Prep	3005A			50 mL	50 mL	511775	11/23/20 11:24	KWN	TAL PEN
Dissolved	Analysis	6010B		1			512046	11/24/20 17:19	GESP	TAL PEN
Dissolved	Prep	7470A			40 mL	40 mL	511099	11/18/20 09:00	NET	TAL PEN
Dissolved	Analysis	7470A		1			511285	11/18/20 18:50	NET	TAL PEN
Total/NA	Analysis	SM 2320B		1			511460	11/19/20 17:30	RRC	TAL PEN
Total/NA	Analysis	SM 2540C		1	10 mL	50 mL	511671	11/21/20 23:59	DEK	TAL PEN

Client Sample ID: MW-6

Lab Sample ID: 400-195924-5

Date Collected: 11/16/20 07:20
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	8260B		1	5 mL	5 mL	511608	11/21/20 08:57	WPD	TAL PEN
Total/NA	Analysis	300.0		1			511043	11/17/20 14:56	CAC	TAL PEN
Total/NA	Analysis	300.0		10			512536	11/29/20 18:52	TAJ	TAL PEN
Total/NA	Analysis	300.0		100	10 mL	1.0 mL	512539	11/30/20 06:16	TAJ	TAL PEN
Total/NA	Analysis	300.0		500			512539	12/01/20 01:10	TAJ	TAL PEN
Dissolved	Prep	3005A			50 mL	50 mL	511775	11/23/20 11:24	KWN	TAL PEN
Dissolved	Analysis	6010B		1			512046	11/24/20 17:24	GESP	TAL PEN
Dissolved	Prep	7470A			40 mL	40 mL	511099	11/18/20 09:00	NET	TAL PEN
Dissolved	Analysis	7470A		1			511285	11/18/20 18:52	NET	TAL PEN
Total/NA	Analysis	SM 2320B		1			511709	11/20/20 19:54	RRC	TAL PEN
Total/NA	Analysis	SM 2540C		1	5 mL	50 mL	511670	11/21/20 23:37	DEK	TAL PEN

Client Sample ID: MW-8

Lab Sample ID: 400-195924-6

Date Collected: 11/16/20 10:59
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	8260B		1	5 mL	5 mL	511612	11/21/20 15:00	WPD	TAL PEN
Total/NA	Analysis	300.0		1			511043	11/17/20 17:58	CAC	TAL PEN
Total/NA	Analysis	300.0		200			512539	12/01/20 10:24	TAJ	TAL PEN
Dissolved	Prep	3005A			50 mL	50 mL	511775	11/23/20 11:24	KWN	TAL PEN
Dissolved	Analysis	6010B		1			512046	11/24/20 18:06	GESP	TAL PEN
Dissolved	Prep	7470A			40 mL	40 mL	510908	11/18/20 09:00	NET	TAL PEN
Dissolved	Analysis	7470A		1			511285	11/18/20 18:08	NET	TAL PEN
Total/NA	Analysis	SM 2320B		1			511460	11/19/20 17:45	RRC	TAL PEN
Total/NA	Analysis	SM 2540C		1	5 mL	50 mL	511671	11/21/20 23:59	DEK	TAL PEN

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 400-195924-1

Client Sample ID: MW-9

Lab Sample ID: 400-195924-7

Date Collected: 11/16/20 07:58
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	8260B		1	5 mL	5 mL	511612	11/21/20 15:27	WPD	TAL PEN
Total/NA	Analysis	300.0		1			511043	11/17/20 15:18	CAC	TAL PEN
Total/NA	Analysis	300.0		500			512539	12/01/20 11:10	TAJ	TAL PEN
Dissolved	Prep	3005A			50 mL	50 mL	511775	11/23/20 11:24	KWN	TAL PEN
Dissolved	Analysis	6010B		1			512046	11/24/20 18:11	GESP	TAL PEN
Dissolved	Prep	7470A			40 mL	40 mL	510908	11/18/20 09:00	NET	TAL PEN
Dissolved	Analysis	7470A		1			511285	11/18/20 18:10	NET	TAL PEN
Total/NA	Analysis	SM 2320B		1			511709	11/20/20 18:49	RRC	TAL PEN
Total/NA	Analysis	SM 2540C		1	5 mL	50 mL	511671	11/21/20 23:59	DEK	TAL PEN

Client Sample ID: MW-11

Lab Sample ID: 400-195924-8

Date Collected: 11/16/20 11:55
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	8260B		1	5 mL	5 mL	511612	11/21/20 15:55	WPD	TAL PEN
Total/NA	Analysis	300.0		1			511043	11/17/20 19:52	CAC	TAL PEN
Total/NA	Analysis	300.0		500			512539	12/01/20 10:47	TAJ	TAL PEN
Dissolved	Prep	3005A			50 mL	50 mL	511775	11/23/20 11:24	KWN	TAL PEN
Dissolved	Analysis	6010B		1			512046	11/24/20 18:17	GESP	TAL PEN
Dissolved	Prep	7470A			40 mL	40 mL	510908	11/18/20 09:00	NET	TAL PEN
Dissolved	Analysis	7470A		1			511285	11/18/20 18:12	NET	TAL PEN
Total/NA	Analysis	SM 2320B		1			511709	11/20/20 18:16	RRC	TAL PEN
Total/NA	Analysis	SM 2540C		1	10 mL	50 mL	511671	11/21/20 23:59	DEK	TAL PEN

Client Sample ID: MW-12

Lab Sample ID: 400-195924-9

Date Collected: 11/16/20 12:10
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	8260B		1	5 mL	5 mL	511612	11/21/20 16:22	WPD	TAL PEN
Total/NA	Analysis	300.0		1			511043	11/17/20 20:15	CAC	TAL PEN
Total/NA	Analysis	300.0		100			512539	12/01/20 11:55	TAJ	TAL PEN
Dissolved	Prep	3005A			50 mL	50 mL	511775	11/23/20 11:24	KWN	TAL PEN
Dissolved	Analysis	6010B		1			512046	11/24/20 18:22	GESP	TAL PEN
Dissolved	Prep	7470A			40 mL	40 mL	510908	11/18/20 09:00	NET	TAL PEN
Dissolved	Analysis	7470A		1			511285	11/18/20 18:14	NET	TAL PEN
Total/NA	Analysis	SM 2320B		1			511460	11/19/20 17:52	RRC	TAL PEN
Total/NA	Analysis	SM 2540C		1	10 mL	50 mL	511671	11/21/20 23:59	DEK	TAL PEN

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 400-195924-1

Client Sample ID: MW-13

Date Collected: 11/16/20 10:52
Date Received: 11/17/20 09:36

Lab Sample ID: 400-195924-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	5 mL	5 mL	511612	11/21/20 11:25	WPD	TAL PEN
Total/NA	Analysis	300.0		1			511043	11/17/20 17:35	CAC	TAL PEN
Total/NA	Analysis	300.0		200			513023	12/03/20 18:30	TAJ	TAL PEN
Total/NA	Analysis	300.0		100			512539	11/30/20 07:25	TAJ	TAL PEN
Dissolved	Prep	3005A			50 mL	50 mL	511775	11/23/20 11:24	KWN	TAL PEN
Dissolved	Analysis	6010B		1			512046	11/24/20 18:27	GESP	TAL PEN
Dissolved	Prep	7470A			40 mL	40 mL	510908	11/18/20 09:00	NET	TAL PEN
Dissolved	Analysis	7470A		1			511285	11/18/20 18:20	NET	TAL PEN
Total/NA	Analysis	SM 2320B		1			511709	11/20/20 18:47	RRC	TAL PEN
Total/NA	Analysis	SM 2540C		1	5 mL	50 mL	511671	11/21/20 23:59	DEK	TAL PEN

Client Sample ID: MW-14

Date Collected: 11/16/20 08:45
Date Received: 11/17/20 09:36

Lab Sample ID: 400-195924-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	511612	11/21/20 16:50	WPD	TAL PEN
Total/NA	Analysis	300.0		1			511043	11/17/20 16:04	CAC	TAL PEN
Total/NA	Analysis	300.0		500			512539	12/01/20 02:19	TAJ	TAL PEN
Dissolved	Prep	3005A			50 mL	50 mL	511775	11/23/20 11:24	KWN	TAL PEN
Dissolved	Analysis	6010B		1			512046	11/24/20 18:33	GESP	TAL PEN
Dissolved	Prep	7470A			40 mL	40 mL	510908	11/18/20 09:00	NET	TAL PEN
Dissolved	Analysis	7470A		1			511285	11/18/20 18:22	NET	TAL PEN
Total/NA	Analysis	SM 2320B		1			511709	11/20/20 18:35	RRC	TAL PEN
Total/NA	Analysis	SM 2540C		1	5 mL	50 mL	511671	11/21/20 23:59	DEK	TAL PEN

Client Sample ID: MW-15

Date Collected: 11/16/20 10:25
Date Received: 11/17/20 09:36

Lab Sample ID: 400-195924-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	5 mL	5 mL	511612	11/21/20 11:48	WPD	TAL PEN
Total/NA	Analysis	300.0		1			511043	11/17/20 17:13	CAC	TAL PEN
Total/NA	Analysis	300.0		500			512539	12/01/20 09:16	TAJ	TAL PEN
Dissolved	Prep	3005A			50 mL	50 mL	511775	11/23/20 11:24	KWN	TAL PEN
Dissolved	Analysis	6010B		1			512046	11/24/20 18:38	GESP	TAL PEN
Dissolved	Prep	7470A			40 mL	40 mL	510908	11/18/20 09:00	NET	TAL PEN
Dissolved	Analysis	7470A		1			511285	11/18/20 18:24	NET	TAL PEN
Total/NA	Analysis	SM 2320B		1			511995	11/24/20 14:18	RRC	TAL PEN
Total/NA	Analysis	SM 2540C		1	5 mL	50 mL	511670	11/21/20 23:37	DEK	TAL PEN

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 400-195924-1

Client Sample ID: MW-16

Date Collected: 11/16/20 09:40
Date Received: 11/17/20 09:36

Lab Sample ID: 400-195924-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	5 mL	5 mL	511612	11/21/20 10:38	WPD	TAL PEN
Total/NA	Analysis	300.0		1			511043	11/17/20 16:50	CAC	TAL PEN
Total/NA	Analysis	300.0		1			512539	12/01/20 02:42	TAJ	TAL PEN
Dissolved	Prep	3005A			50 mL	50 mL	511775	11/23/20 11:24	KWN	TAL PEN
Dissolved	Analysis	6010B		1			512046	11/24/20 18:43	GESP	TAL PEN
Dissolved	Prep	7470A			40 mL	40 mL	510908	11/18/20 09:00	NET	TAL PEN
Dissolved	Analysis	7470A		1			511285	11/18/20 18:25	NET	TAL PEN
Total/NA	Analysis	SM 2320B		1			511709	11/20/20 17:58	RRC	TAL PEN
Total/NA	Analysis	SM 2540C		1	5 mL	50 mL	511670	11/21/20 23:37	DEK	TAL PEN

Client Sample ID: MW-18

Date Collected: 11/16/20 08:25
Date Received: 11/17/20 09:36

Lab Sample ID: 400-195924-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	511612	11/21/20 17:18	WPD	TAL PEN
Total/NA	Analysis	300.0		1			511043	11/17/20 15:41	CAC	TAL PEN
Total/NA	Analysis	300.0		500			512539	12/01/20 09:39	TAJ	TAL PEN
Dissolved	Prep	3005A			50 mL	50 mL	511775	11/23/20 11:24	KWN	TAL PEN
Dissolved	Analysis	6010B		1			512046	11/24/20 18:49	GESP	TAL PEN
Dissolved	Prep	7470A			40 mL	40 mL	510908	11/18/20 09:00	NET	TAL PEN
Dissolved	Analysis	7470A		1			511285	11/18/20 18:27	NET	TAL PEN
Total/NA	Analysis	SM 2320B		1			511995	11/24/20 14:23	RRC	TAL PEN
Total/NA	Analysis	SM 2540C		1	5 mL	50 mL	511671	11/21/20 23:59	DEK	TAL PEN

Client Sample ID: MW-19

Date Collected: 11/16/20 09:10
Date Received: 11/17/20 09:36

Lab Sample ID: 400-195924-15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	511612	11/21/20 17:45	WPD	TAL PEN
Total/NA	Analysis	300.0		1			511043	11/17/20 16:27	CAC	TAL PEN
Total/NA	Analysis	300.0		500			512539	12/01/20 03:04	TAJ	TAL PEN
Dissolved	Prep	3005A			50 mL	50 mL	511775	11/23/20 11:24	KWN	TAL PEN
Dissolved	Analysis	6010B		1			512046	11/24/20 18:54	GESP	TAL PEN
Dissolved	Prep	7470A			40 mL	40 mL	510908	11/18/20 09:00	NET	TAL PEN
Dissolved	Analysis	7470A		1			511285	11/18/20 18:29	NET	TAL PEN
Total/NA	Analysis	SM 2320B		1			511709	11/20/20 18:10	RRC	TAL PEN
Total/NA	Analysis	SM 2540C		1	5 mL	50 mL	511671	11/21/20 23:59	DEK	TAL PEN

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 400-195924-1

Client Sample ID: MW-21

Lab Sample ID: 400-195924-16

Date Collected: 11/16/20 11:25
Date Received: 11/17/20 09:36

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	5 mL	5 mL	511612	11/21/20 11:02	WPD	TAL PEN
Total/NA	Analysis	300.0		1			511043	11/17/20 18:21	CAC	TAL PEN
Total/NA	Analysis	300.0		500			512539	12/01/20 08:53	TAJ	TAL PEN
Dissolved	Prep	3005A			50 mL	50 mL	511775	11/23/20 11:24	KWN	TAL PEN
Dissolved	Analysis	6010B		1			512046	11/24/20 19:15	GESP	TAL PEN
Dissolved	Prep	7470A			40 mL	40 mL	510908	11/18/20 09:00	NET	TAL PEN
Dissolved	Analysis	7470A		1			511285	11/18/20 18:31	NET	TAL PEN
Total/NA	Analysis	SM 2320B		1			511709	11/20/20 20:04	RRC	TAL PEN
Total/NA	Analysis	SM 2540C		1	5 mL	50 mL	511671	11/21/20 23:59	DEK	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-510908/14-A

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			40 mL	40 mL	510908	11/18/20 09:00	NET	TAL PEN
Total/NA	Analysis	7470A		1			511285	11/18/20 17:34	NET	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-511043/4

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			511043	11/17/20 10:22	CAC	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-511099/14-A

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			40 mL	40 mL	511099	11/18/20 09:00	NET	TAL PEN
Total/NA	Analysis	7470A		1			511285	11/18/20 18:33	NET	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-511460/4

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2320B		1			511460	11/19/20 15:10	RRC	TAL PEN

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 400-195924-1

Client Sample ID: Method Blank — **Lab Sample ID: MB 400-511608/4**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	511608	11/21/20 08:08	WPD	TAL PEN

Client Sample ID: Method Blank — **Lab Sample ID: MB 400-511612/4**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	511612	11/21/20 09:27	WPD	TAL PEN

Client Sample ID: Method Blank — **Lab Sample ID: MB 400-511670/1**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	50 mL	50 mL	511670	11/21/20 23:37	DEK	TAL PEN

Client Sample ID: Method Blank — **Lab Sample ID: MB 400-511671/1**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	50 mL	50 mL	511671	11/21/20 23:59	DEK	TAL PEN

Client Sample ID: Method Blank — **Lab Sample ID: MB 400-511709/4**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2320B		1			511709	11/20/20 17:18	RRC	TAL PEN

Client Sample ID: Method Blank — **Lab Sample ID: MB 400-511775/1-A**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	511775	11/23/20 11:24	KWN	TAL PEN
Total Recoverable	Analysis	6010B		1			512046	11/24/20 16:58	GESP	TAL PEN

Client Sample ID: Method Blank — **Lab Sample ID: MB 400-511995/4**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2320B		1			511995	11/24/20 13:27	RRC	TAL PEN

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 400-195924-1

Client Sample ID: Method Blank — Lab Sample ID: MB 400-512036/4

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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	512036	11/25/20 08:35	WPD	TAL PEN

Client Sample ID: Method Blank — Lab Sample ID: MB 400-512536/21

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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			512536	11/29/20 17:20	TAJ	TAL PEN

Client Sample ID: Method Blank — Lab Sample ID: MB 400-512539/21

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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			512539	11/29/20 17:20	TAJ	TAL PEN

Client Sample ID: Method Blank — Lab Sample ID: MB 400-512539/50

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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	10 mL	1.0 mL	512539	11/30/20 04:45	TAJ	TAL PEN

Client Sample ID: Method Blank — Lab Sample ID: MB 400-512539/94

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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			512539	11/30/20 23:39	TAJ	TAL PEN

Client Sample ID: Method Blank — Lab Sample ID: MB 400-513023/4

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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			513023	12/03/20 13:56	TAJ	TAL PEN

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 400-510908/15-A

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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			40 mL	40 mL	510908	11/18/20 09:00	NET	TAL PEN
Total/NA	Analysis	7470A		1			511285	11/18/20 17:35	NET	TAL PEN

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 400-195924-1

Client Sample ID: Lab Control Sample — **Lab Sample ID: LCS 400-511043/6**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			511043	11/17/20 11:08	CAC	TAL PEN

Client Sample ID: Lab Control Sample — **Lab Sample ID: LCS 400-511099/15-A**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			40 mL	40 mL	511099	11/18/20 09:00	NET	TAL PEN
Total/NA	Analysis	7470A		1			511285	11/18/20 18:35	NET	TAL PEN

Client Sample ID: Lab Control Sample — **Lab Sample ID: LCS 400-511460/5**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2320B		1			511460	11/19/20 15:18	RRC	TAL PEN

Client Sample ID: Lab Control Sample — **Lab Sample ID: LCS 400-511608/1002**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	511608	11/21/20 07:05	WPD	TAL PEN

Client Sample ID: Lab Control Sample — **Lab Sample ID: LCS 400-511612/1002**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	511612	11/21/20 08:42	WPD	TAL PEN

Client Sample ID: Lab Control Sample — **Lab Sample ID: LCS 400-511670/2**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	50 mL	50 mL	511670	11/21/20 23:37	DEK	TAL PEN

Client Sample ID: Lab Control Sample — **Lab Sample ID: LCS 400-511671/2**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	50 mL	50 mL	511671	11/21/20 23:59	DEK	TAL PEN

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 400-195924-1

Client Sample ID: Lab Control Sample — **Lab Sample ID: LCS 400-511709/5**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2320B		1			511709	11/20/20 17:27	RRC	TAL PEN

Client Sample ID: Lab Control Sample — **Lab Sample ID: LCS 400-511775/2-A**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	511775	11/23/20 11:24	KWN	TAL PEN
Total Recoverable	Analysis	6010B		1			512046	11/24/20 17:03	GESP	TAL PEN

Client Sample ID: Lab Control Sample — **Lab Sample ID: LCS 400-511995/5**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2320B		1			511995	11/24/20 13:34	RRC	TAL PEN

Client Sample ID: Lab Control Sample — **Lab Sample ID: LCS 400-512036/1002**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	512036	11/25/20 07:13	WPD	TAL PEN

Client Sample ID: Lab Control Sample — **Lab Sample ID: LCS 400-512536/23**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			512536	11/29/20 18:06	TAJ	TAL PEN

Client Sample ID: Lab Control Sample — **Lab Sample ID: LCS 400-512539/23**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			512539	11/29/20 18:06	TAJ	TAL PEN

Client Sample ID: Lab Control Sample — **Lab Sample ID: LCS 400-512539/52**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			512539	11/30/20 05:30	TAJ	TAL PEN

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 400-195924-1

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 400-512539/96

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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	10 mL	1.0 mL	512539	12/01/20 00:25	TAJ	TAL PEN

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 400-513023/6

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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			513023	12/03/20 14:42	TAJ	TAL PEN

Client Sample ID: Lab Control Sample Dup — Lab Sample ID: LCSD 400-511043/7

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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			511043	11/17/20 11:30	CAC	TAL PEN

Client Sample ID: Lab Control Sample Dup — Lab Sample ID: LCSD 400-512536/24

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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	10 mL	1.0 mL	512536	11/29/20 18:29	TAJ	TAL PEN

Client Sample ID: Lab Control Sample Dup — Lab Sample ID: LCSD 400-512539/24

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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			512539	11/29/20 18:29	TAJ	TAL PEN

Client Sample ID: Lab Control Sample Dup — Lab Sample ID: LCSD 400-512539/53

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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			512539	11/30/20 05:53	TAJ	TAL PEN

Client Sample ID: Lab Control Sample Dup — Lab Sample ID: LCSD 400-512539/97

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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	10 mL	1.0 mL	512539	12/01/20 00:48	TAJ	TAL PEN

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 400-195924-1

Client Sample ID: Lab Control Sample Dup — **Lab Sample ID: LCSD 400-513023/7**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			513023	12/03/20 15:05	TAJ	TAL PEN

Client Sample ID: Lab Control Sample — **Lab Sample ID: MRL 400-511043/5**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			511043	11/17/20 10:45	CAC	TAL PEN

Client Sample ID: Lab Control Sample — **Lab Sample ID: MRL 400-512536/22**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			512536	11/29/20 17:43	TAJ	TAL PEN

Client Sample ID: Lab Control Sample — **Lab Sample ID: MRL 400-512539/22**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			512539	11/29/20 17:43	TAJ	TAL PEN

Client Sample ID: Lab Control Sample — **Lab Sample ID: MRL 400-512539/51**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	10 mL	1.0 mL	512539	11/30/20 05:08	TAJ	TAL PEN

Client Sample ID: Lab Control Sample — **Lab Sample ID: MRL 400-513023/5**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			513023	12/03/20 14:19	TAJ	TAL PEN

Client Sample ID: MW-6 — **Lab Sample ID: 400-195924-5 MS**
Date Collected: 11/16/20 07:20 — **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	8260B		1	5 mL	5 mL	511608	11/21/20 10:37	WPD	TAL PEN
Total/NA	Analysis	300.0		10			512536	11/29/20 19:14	TAJ	TAL PEN
Total/NA	Analysis	300.0		100	10 mL	1.0 mL	512539	11/30/20 06:39	TAJ	TAL PEN
Total/NA	Analysis	300.0		500			512539	12/01/20 01:33	TAJ	TAL PEN

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 400-195924-1

Client Sample ID: MW-6

Lab Sample ID: 400-195924-5 MS

Date Collected: 11/16/20 07:20
Date Received: 11/17/20 09:36

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			50 mL	50 mL	511775	11/23/20 11:24	KWN	TAL PEN
Dissolved	Analysis	6010B		1			512046	11/24/20 17:35	GESP	TAL PEN
Dissolved	Prep	7470A			40 mL	40 mL	511099	11/18/20 09:00	NET	TAL PEN
Dissolved	Analysis	7470A		1			511285	11/18/20 18:56	NET	TAL PEN

Client Sample ID: MW-6

Lab Sample ID: 400-195924-5 MSD

Date Collected: 11/16/20 07:20
Date Received: 11/17/20 09:36

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	511608	11/21/20 11:01	WPD	TAL PEN
Total/NA	Analysis	300.0		10			512536	11/29/20 19:37	TAJ	TAL PEN
Total/NA	Analysis	300.0		100	10 mL	1.0 mL	512539	11/30/20 07:02	TAJ	TAL PEN
Total/NA	Analysis	300.0		500			512539	12/01/20 01:56	TAJ	TAL PEN
Dissolved	Prep	3005A			50 mL	50 mL	511775	11/23/20 11:24	KWN	TAL PEN
Dissolved	Analysis	6010B		1			512046	11/24/20 17:40	GESP	TAL PEN
Dissolved	Prep	7470A			40 mL	40 mL	511099	11/18/20 09:00	NET	TAL PEN
Dissolved	Analysis	7470A		1			511285	11/18/20 18:58	NET	TAL PEN

Laboratory References:

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

Method Summary

Client: Stantec Consulting Services Inc
Project/Site: San Juan River Plant

Job ID: 400-195924-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PEN
300.0	Anions, Ion Chromatography	MCAWW	TAL PEN
6010B	Metals (ICP)	SW846	TAL PEN
7470A	Mercury (CVAA)	SW846	TAL PEN
SM 2320B	Alkalinity	SM	TAL PEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PEN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PEN
5030B	Purge and Trap	SW846	TAL PEN
7470A	Preparation, Mercury	SW846	TAL PEN

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

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: San Juan River Plant

Job ID: 400-195924-1

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

Chain of Custody Record

TestAmerica Des Moines SC
214

eurofins Environment Testing America

Client Information	Sampler: SRC	Lab PM: Edwards, Marty P	Carrier Tracking No(s):	COC No: 400-97401-35243.2
Client Contact: Steve Varsa	Phone: 913 9800281	E-Mail: Marty.Edwards@Eurofinset.com		Page: Page 1 of 2 SRC
Company: Stantec Consulting Services Inc				Job #:
Address: 11153 Aurora Avenue	Due Date Requested:			
City: Des Moines	TAT Requested (days): STD			
State, Zip: IA, 50322-7904				
Phone:	PO #: See Project Notes			
Email: steve.varsa@stantec.com	WO #:			
Project Name: CMI Kinder Morgan San Juan	Project #: 40012762			
Site: SAN JUAN	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M -, N -, O -, P -, Q -, R -, S -, T -, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

400-195924 COC

W-SRM-STN-10-29-20-SAH 01 SJRP

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2320B, 2540C, 300_ORGFM_28D, 300_ORGFMS	6010B, 7470A	8260B - BTEX 8260	8260B-BKY 8260C N2 HCL	Total Number of containers	Special Instructions/Note:
Preservation Code:							N	D	A			
TB-01	11/16/2020	0700	G	Water					2		2	Trip Blank
DUP-01	11/16/2020	0828	G	Water	Y	-	1	1	-	3	5	Blind Dup
MW-2	11/16/2020	1250	G	Water	Y	-	1	1	-	3	5	
MW-4	11/16/2020	1305	G	Water	Y	-	1	1	-	3	5	
MW-6	11/16/2020	0720	G	Water	Y	Y	2	2	-	6	10	MS MSD
MW-8	11/16/2020	1059	G	Water	Y	N	1	1	-	3	5	
MW-9	11/16/2020	0758	G	Water	Y	-	1	1	-	3	5	
MW-11	11/16/2020	1155	G	Water	Y	-	1	1	-	3	5	
MW-12	11/16/2020	1210	G	Water	Y	N	1	1	-	3	5	
MW-13	11/16/2020	1052	G	Water	Y	-	1	1	-	3	5	
MW-14	11/16/2020	0845	G	Water	Y	-	1	1	-	3	5	

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

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

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

Special Instructions/QC Requirements:

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

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Sam R Clay	11/16/2020 1500	STN		11-17-20 0936	TAPEN
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 0.3°C, 0.5°C, 3.6°C IR-8

Ver: 01/16/2019

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

Chain of Custody Record

TestAmerica Des Moines SC
214

eurofins Environment Testing America

Client Information	Sampler: FRONT	Lab PM: Edwards, Marty P	Carrier Tracking No(s):	COC No: 400-97401-35243.2
Client Contact: Steve Varsa	Phone:	E-Mail: Marty.Edwards@Eurofinset com		Page: Page 2 of 2 SRC
Company: Stantec Consulting Services Inc				Job #:
Address: 11153 Aurora Avenue	Due Date Requested:			
City: Des Moines	TAT Requested (days): STD			
State, Zip: IA, 50322-7904				
Phone:	PO #: See Project Notes			
Email: steve.varsa@stantec.com	WO #:			
Project Name: CMI Kinder Morgan San Juan	Project #: 40012762			
Site: FRONT	SSOW#:			

Analysis Requested

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

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2320B, 2540C, 300_ORGFM_28D, 300_ORGFMS	6010B, 7470A	8260B - BTEX	8260B - BTEX 40mL no HCL	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	A			
MW-15	11/16/2020	1025	G	Water	Y	–	1	1	–	3	5	
MW-16	11/16/2020	0940	G	Water	Y	–	1	1	–	3	5	
MW-18	11/16/2020	0825	G	Water	Y	–	1	1	–	3	5	
MW-19	11/16/2020	0910	G	Water	Y	N	2	2	–	6	10	DO NOT MS MSD
MW-21	11/16/2020	1125	G	Water	Y	N	1	1	–	3	5	
				Water								
				Water								
				Water								
				Water								
				Water								
				Water								

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

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

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

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: Fedex				
Relinquished by: Sean R Clancy	Date/Time: 11/16/2020 1500	Company: STN	Received by: [signature]	Date/Time: 11-17-20 0936	Company: TAPEN
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc

Job Number: 400-195924-1
SDG Number:

Login Number: 195924
List Number: 1
Creator: Conrady, Hank W

List Source: Eurofins TestAmerica, Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.5°C 0.3°C 3.6°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	

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 22320

CONDITIONS

Operator:	OGRID:
El Paso Natural Gas Company, L.L.C 1001 Louisiana Street Houston, TX 77002	7046
	Action Number: 22320
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Accepted for the record. See App ID 123175 for most updated status.	10/6/2022