3R – 425

2013 AGWMR

08 / 22 / 2014

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ConocoPhillips

Mr. Glenn von Gonten
New Mexico Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

August 22, 2014

Re: NMOCD Case No. 3R-425, 2013 Annual Groundwater Monitoring Report

Dear Mr. von Gonten:

Enclosed is the 2013 Annual Groundwater Monitoring Report for the San Juan 29-7 Unit 37 site. This report, prepared by Conestoga-Rovers & Associates (CRA), contains the results of groundwater monitoring from March, June, September, and December 2013.

Please let me know if you have any questions.

Sincerely,

David C. Hathaway, P.E.

Enc

CONESTOGA-ROVERS & ASSOCIATES

www.CRAworld.com

Final Report

2013 ANNUAL GROUNDWATER SAMPLING REPORT

ConocoPhillips San Juan 29-7 Unit 37
Rio Arriba County, New Mexico
API# 30-039-07643
NMOCD# 3R-425

Prepared for: ConocoPhillips

Conestoga-Rovers & Associates
6121 Indian School Road, NE Suite 200
Albuquerque, New Mexico 87110

September 2014 • 075034 • Report No. 5

Partners in Sustainability

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Section 1.0 Introduction

ConocoPhillips Company (ConocoPhillips) retained Conestoga-Rovers & Associates (CRA) to conduct site characterization and soil and groundwater remediation at the San Juan 29-7 Unit 37 natural gas well (Site). The Site is located within Unit Letter N, Section 12, Township 29N, Range 7W, Rio Arriba County, New Mexico (Latitude: 36.73552° N; Longitude: -107.52488° W) (**Figure 1**). This report summarizes the remediation status and groundwater data that were collected in 2013 and early 2014.

Site characterization activities were conducted at the Site in 2010 and 2011 to delineate soil and groundwater impacted by a release that occurred from an above-ground condensate tank. The site characterization indicated hydrocarbon impacts from the release that exceeded New Mexico Water Quality Control Commission (NMWQCC) standards, including benzene, toluene and total xylenes in groundwater and total benzene, toluene, ethylbenzene, and xylenes (BTEX), and total petroleum hydrocarbons (TPH) in the vadose zone soil. Soil impacts were delineated in the area of the release to a maximum depth of approximately 110 feet-below ground surface (ft-bgs) or to the top of groundwater. Groundwater was impacted in the immediate area of the release and extended to approximately 60 feet down-gradient from the release. A total of 18 soil borings and eight (8) monitor wells have been utilized to characterize subsurface soil and groundwater conditions (**Figure 2**). Soil and groundwater impacts were treated in 2012 with a chemical oxidant at the Site.

1.1 Site History

The Site is located on land owned by Mr. Richard Hodgson and the surface is leased by ConocoPhillips. The well is currently operated by Burlington Resources Oil and Gas Company LP, a wholly owned subsidiary of ConocoPhillips. A Site detail map is included as **Figure 2**.

ConocoPhillips discovered a leaking inspection plate gasket on the above-ground condensate tank on August 26, 2010. Approximately 23 barrels (bbls) of condensate were released and fully contained within the berm; however, no liquids were recovered. The release was immediately reported to the New Mexico Oil Conservation Division (NMOCD) with a C-141 Release Notification and Corrective Action form, filed by ConocoPhillips on September 16, 2010.

1.2 Site Setting

The Site is located in Rio Arriba County, New Mexico, on privately owned ranch land. The elevation at the Site is approximately 6,292 feet above mean sea level (amsl). The Tertiary-aged San Jose Formation crops out as sandstone bluffs visible to the north and south of the Site and locally reaching an elevation of approximately 6,652 feet amsl.

Subsurface soils at the Site consist primarily of silts inter-bedded with fine sands and clays. Groundwater is located at approximately 110 ft-bgs and locally flows towards the south-southwest.

Regional groundwater flow is unknown, but, likely according to the United States Geological Survey Delgadita Mesa, NM topographic map, if groundwater flow mimics topography, it trends south/southeast.

An Environmental Data Resources (EDR) report on the subject property identified the Gould Pass National Wetland Inventory within a one mile radius of the Site. According to the EDR radius map included in the report, the largest section of the Wetland Inventory is located upgradient of the Site.

1.3 Summary of Previous Investigations

Following the discovery of the release of condensate from the above-ground tank at the site, approximately 5,100 cubic yards (yd^3) of soil was excavated from the area below the former tank location between September 24, 2010 and January 3, 2011. The excavation measured approximately 70 ft by 120 ft by 30 ft deep (**Figure 2**). The horizontal and vertical extent of the hydrocarbon-impacted area was not determined at that time. For practical and safety reasons and due to limitations posed by surface structures, the southern extent of the excavation and the vertical extent of the excavation were halted at approximately 30 ft-bgs. At completion of the excavation approximately 3,444 yards of hydrocarbon impacted soil had been removed and transported to the Industrial Ecosystems, Incorporated landfarm located in Aztec, New Mexico. The excavation was subsequently back filled with clean soil.

To further delineate vertical impacts of the release, Tetra Tech Inc. sampled subsurface soils in the impacted area and in close proximity to the release point (soil boring B-1) between January 12 and 14, 2011 (Pre-treatment Soil Boring B-1, **Figure 2**). Impacts were noted in the soil above the NMOCD recommended field screening level for organic vapors (100 ppm) from 30 ft-bgs to the total depth of the soil boring at 129.5 ft-bgs All analytical results for soil samples collected from B-1 were below the recommended NMOCD remediation action levels with the exception of the sample collected from 30 to 32 ft-bgs that had a total BTEX concentration and total TPH concentration which exceed the NMOCD recommended action limits for total BTEX and TPH at 50 mg/kg, and 100 mg/kg, respectively .

Analytical results from the groundwater sample collected from the open borehole, B-1, indicated BTEX in groundwater above the NMWQCC standard. Between February 28 and March 4, 2011, Tetra Tech advanced two additional soil borings, B-2 and B-3, in or near the center of the previously excavated area (Pre-treatment Soil Boring B-2 and B-3, **Figure 2**) and installed four soil borings/monitor wells (MW-1 through MW-4) at the Site.

Field screening of B-2 soil samples indicated soil impacts above the NMOCD field screening action level of 100 ppm. The total BTEX concentration of 122.5 mg/kg also exceeded the NMOCD action level from 45 to 47 ft-bgs in boring B-2.

Field screening of soil samples collected from B-3 showed no signs of hydrocarbon impacts to a total depth of 57 ft-bgs No samples were collected for laboratory analysis from B-3 since no hydrocarbon impacts were observed during field screening activities and groundwater was not encountered.

Due to the elevated organic vapors encountered in B-2, Monitor Well MW-1 was installed approximately 20 ft south of B-2. The analytical results for this well from the March 2011 groundwater sampling event indicated that only benzene was detected above the NMWQCC standard at a concentration of 0.066 mg/L. Three additional monitor wells, MW-2, MW-3, and MW-4, were installed at the Site (**Figure 2**). One monitor well (MW-4) was installed up-gradient of the release and two monitor wells (MW-2 and MW-3) were installed down-gradient of the release. None of these monitor wells showed any detection of hydrocarbon constituents above the NMWQCC groundwater quality standards.

To further evaluate Site conditions and to delineate areas of remediation, 11 borings were advanced and four monitor wells were installed by CRA at the Site from September 2011 to October 2011 (**Figure 2**). Monitor wells were installed within the release area, MW-1 and MW-8, upgradient of the release area, MW-4 and MW-7, and MW-2, MW-3, MW-5 and MW-6 down gradient of the area..

Field screening of soil samples and laboratory results indicated impacts (organic vapors > 100 ppm) in the immediate area of the release to depths ranging from 40 ft-bgs to 110 ft-bgs. Soil analytical results indicated Total BTEX and TPH above the NMOCD recommended action levels in four of the borings, B-4, B-5/MW-8, and B-8, which are located within the excavation area and one boring, B-10, located approximately 10 feet south of the excavation. In addition, soil boring B-6/MW-6 located approximately 60 feet southeast of the excavation indicated the TPH concentration above the NMOCD recommended action limit.

During this portion of the Site characterization, groundwater was encountered at approximately 110 ft-bgs, which is consistent with groundwater levels encountered during previous phases of the site characterization. The groundwater flow direction was determined to be towards the south-southwest. The analytical results for groundwater indicated that the benzene concentrations exceeded the NMWQCC standard at three locations (MW-1, MW-6 and MW-8). Toluene and total xylenes concentrations exceeded the standards at one location (MW-8).

For in-situ site remediation activities, CRA retained DeepEarth Technologies, Inc. (DTI) to implement the *Cool-Ox*™ Technology, a patented in-situ process that uses a solution of calcium peroxide that generates a slow release of hydrogen peroxide and facilitates the oxidation of petroleum hydrocarbons.

From December 2011 to February 2012, the *Cool-Ox*™ solution was injected in the area shown in **Figure 2**. DTI utilized a direct push technology (DPT) drill rig supported by DTI's mixing and injection trailer (the Deep-Shot-Rig™) to advance temporary 1.5-inch diameter injection points.

Approximately 52,889 gallons were used to inject the solution into the subsurface soil and groundwater using 93 injection points on 8-foot spacings in an approximate area of 5,950 ft^2 (70 ft x 85 ft) to treat approximately 8,815 yd^3 of impacted soil. The solution was primarily injected into the subsurface from the bottom of the injection point to approximately 30 ft-bgs. In addition to groundwater treatment using the direct-push rig, the solution was directly injected into groundwater Monitor Wells MW-1, MW-6, MW-7 and MW-8 with approximately 8,000 gallons of solution.

To evaluate the effectiveness of the *Cool-Ox*™ treatment, subsurface soil and groundwater conditions were analyzed at the Site after the treatment. Groundwater samples were collected and analyzed on a quarterly basis (February 2012, June 2012, September 2012 and January 2013). The subsurface soil was sampled in the area of the *Cool-Ox*™ treatment by advancing five (5) soil borings in August 2012.

A more thorough discussion of the *Cool-Ox*™ treatment site activities can be found in the April 2013 CRA *Subsurface Remediation and Annual Groundwater Monitoring Report*.

Section 2.0 Monitoring Well Installation

During the September 2012 sampling event, the casing in Monitor Well MW-8 was noted to be deformed (likely due to subsidence of fill material), preventing sampling with a 1.5-inch polyethylene bailer. A 0.5-inch polyethylene bailer was utilized, but removal of three volumes of groundwater could not be achieved. Sampling was attempted again during the January 2013 sampling event with the same outcome. Due to this damage, likely caused by the settling of fill material in the former excavation area, CRA discontinued sampling of this well.

A Well Plugging Plan of Operations for MW-8 was submitted by CRA to the New Mexico Office of the State Engineer (NMOSE) on July 2, 2013 and approved on July 11, 2013. On July, 16, 2013, National Exploration, Wells, and Pumps (National EWP) plugged and abandoned MW-8. Monitor Well MW-8 was plugged and abandoned with a cement-bentonite grout via tremmie pipe, filling the well from the bottom to the top. Surface completion materials were removed and disposed of as non-hazardous solid waste.

A replacement well, MW-8R was subsequently installed by National EWP adjacent to the location of MW-8. A separate boring log therefore was not generated for replacement Monitor Well MW-8R. MW-8R was installed to a total depth of 120 feet bgs. The well was constructed of 2-inch diameter, schedule 40, flush-joint, PVC casing and screen. The monitoring well consists of a 0.5-foot long, threaded PVC bottom plug and 15 feet of flush-joint, threaded, factory-slotted (0.010-inch) well screen. The annular space around the well screen was filled with 10/20 gradation silica sand to approximately two feet above the well screen, followed by approximately three feet of 3/8-inch bentonite chips. A cement/bentonite grout was placed from the top of the bentonite chips to ground surface. The

wellhead is protected with a flush-mount completion set within a 24-inch by 24-inch by 4-inch thick concrete pad.

Soil cuttings were field screened for volatile organic compounds (VOCs) using the heated headspace method. At approximately 32 ft-bgs, photoionization detector readings were greater than 100 parts per million (ppm). From this point on, cuttings generated during monitoring well installation were placed in properly labeled 55-gallon drums. A waste characterization sample was collected as required for waste disposal. Analytical results from the waste characterization soil sample are included in **Appendix A**.

Seven 55-gallon drums of hydrocarbon impacted soil cuttings were transported to the Envirotech, Inc. Soil Remediation Facility #2 on September 10, 2013. Waste disposal documentation is included as **Appendix B**.

2.1 Soil Analytical Results

A confirmation soil sample was collected at a depth of approximately 107 feet bgs from MW-8R drill cuttings. The sample was placed in laboratory-supplied containers, labeled, placed on ice, and transported under chain of custody documentation to Pace Analytical (Pace) of Lenexa, Kansas. The sample was analyzed for total petroleum hydrocarbons (TPH) diesel and gasoline range organics (DRO/GRO) by EPA method 8015B, BTEX by EPA method 8260, and pH by EPA method 9045.

The sample returned TPH-GRO analytical results of 382 mg/kg, TPH-DRO of 124 mg/kg, a toluene concentration of 0.314 mg/kg, an ethylbenzene concentration of 0.453 mg/kg, and a concentration of 9.6 mg/kg for xylenes. The sample was below laboratory detection limits for benzene. Laboratory analytical reports for the confirmation soil sampling can be found in **Appendix A**.

Section 3.0 Groundwater Monitoring Summary

Groundwater sampling events were conducted at the Site on March 26, June 11, 2013, and September 10, 2013, and on January 7, 2014. Prior to collection of groundwater samples from monitoring wells MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, and MW-8R, depth to groundwater in each well was measured using an oil/water interface probe (**Table 1**). Groundwater potentiometric surface maps for these monitoring events are presented as **Figures 3, 4, 5,** and **6**, respectively. CRA groundwater sampling field forms are included as **Appendix C**. Groundwater elevation data collected from MW-1 are somewhat anomalous likely due to this well's location near the center of the formerly excavated and backfilled area. Some subsidence in this area may have therefore affected the previously surveyed casing elevation. Generally, groundwater was encountered across the Site at approximately 108 feet bgs. The groundwater potentiometric surface elevations have been consistent with little variability by season and throughout the history of monitoring the wells at the Site.

For all of these monitoring periods, the groundwater flow at the site was towards the south-southwest and the average groundwater gradient across the Site was 0.014 feet per foot, consistent with historical results.

3.1 Groundwater Monitoring Methodology

During monitoring events, at least three well volumes were purged from Site Monitor Wells with a Monsoon™ submersible pump prior to sampling. Purge water generated during purging of Site monitor wells was placed in the on-Site produced water tank. Groundwater samples were placed in laboratory prepared bottles, packed on ice, and shipped under chain-of-custody documentation to Pace Analytical Services, Inc. of Lenexa, KS.

Groundwater samples were analyzed for the presence of BTEX by EPA method 8260, dissolved manganese and selenium by EPA method 6010, nitrate (as nitrogen) by EPA method 353.2, sulfate by EPA method 300.0, total dissolved solids (TDS) by method SM 2540C, and heterotrophic plate count (HPC) by method SM 9215B. A summary of analytical results is presented in **Table 1**. Completed groundwater laboratory analytical results are presented in **Appendix D**.

3.2 Groundwater Monitoring Analytical Results

The NMWQCC mandates that groundwater quality in New Mexico be protected, and has issued groundwater quality standards in Title 20, Chapter 6, Part 2, Section 3103 of the New Mexico Administrative Code (20.6.2.3103 NMAC). Groundwater quality standards have been set for the protection of human health, domestic water supply, and irrigation use.

A groundwater hydrocarbon concentration map and a groundwater inorganic concentration map are included as **Figures 7** and **8**, respectively. A groundwater field parameters map displaying pH, oxidation-reduction potential (ORP) and dissolved oxygen (DO) is included as **Figure 9**. Groundwater analytical results are discussed below.

March 2013

- **BTEX:** The NMWQCC domestic water supply groundwater quality standards for benzene, toluene, ethylbenzene, and xylene are 0.01 mg/L, 0.75 mg/L, 0.75 mg/L, and 0.62 mg/L, respectively. All groundwater sampling results from the March 2013 event were below NMWQCC standards for BTEX. MW-8 was not sampled during this event due to a deformed well casing.
- **Dissolved Manganese:** The NMWQCC domestic water supply groundwater quality standard for dissolved manganese is 0.2 mg/L. Monitoring Wells MW-1, MW-3, MW-5, and MW-6 exceeded this standard with analytical results of 0.49 mg/L, 1.83 mg/L, 0.356 mg/L, and 0.282 mg/L, respectively.

- **Dissolved Selenium:** The NMWQCC domestic water supply groundwater quality standard for dissolved selenium is 0.05 mg/L. Monitoring Wells MW-1, MW-2, and MW-6 exceeded this standard with analytical results of 0.079 mg/L, 0.0728 mg/L, and 0.0602 mg/L, respectively.
- **Nitrate (as Nitrogen):** The NMWQCC domestic water supply groundwater quality standard for nitrate is 10 mg/L. Monitoring Wells MW-1, MW-2, and MW-6 exceeded this standard with analytical results of 37.0 mg/L, 43.3 mg/L, and 30.9 mg/L, respectively.
- **Sulfate:** The NMWQCC domestic water supply groundwater quality standard for sulfate is 600 mg/L. Monitoring Wells MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, and MW-7 exceeded this standard with analytical results of 1,000 mg/L, 1,200 mg/L, 1,080 mg/L, 1,200 mg/L, 1,700 mg/L, 945 mg/L, and 1,730 mg/L, respectively.
- **TDS:** The NMWQCC domestic water supply groundwater quality standard for TDS is 1,000 mg/L. Monitoring Wells MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, and MW-7 exceeded this standard with analytical results of 1,980 mg/L, 1,930 mg/L, 2,030 mg/L, 1,950 mg/L, 2,370 mg/L, 1,740 mg/L, and 3,050 mg/L, respectively.

June 2013

- **BTEX:** All groundwater sample results were below NMWQCC standards for BTEX during the June 2013 sampling event. MW-8 was not sampled during this event due to a deformed well casing.
- **Dissolved Manganese:** Monitoring Wells MW-1, MW-3, MW-5, and MW-6 exceeded the standard with analytical results of 0.52 mg/L, 1.75 mg/L, 0.609 mg/L, and 0.328 mg/L, respectively.
- **Dissolved Selenium:** Monitoring Wells MW-1, MW-2, and MW-6 exceeded the standard with analytical results of 0.056 mg/L, 0.0666 mg/L, and 0.0621 mg/L, respectively.
- **Nitrate (as Nitrogen):** Monitoring Wells MW-1, MW-2, MW-6, and MW-7 exceeded the standard with analytical results of 31.1 mg/L, 40.6 mg/L, 27.6 mg/L, and 18.7 mg/L, respectively.
- **Sulfate:** Monitoring Wells MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, and MW-7 exceeded the standard with analytical results of 1,050 mg/L, 1,230 mg/L, 1,110 mg/L, 1,260 mg/L, 1,630 mg/L, 946 mg/L, and 1,700 mg/L, respectively.

September 2013

- **BTEX:** Monitoring well MW-8R exceeded the NMWQCC standard for benzene with an analytical result of 0.01 mg/L.
- **Dissolved Manganese:** Monitoring Wells MW-3, MW-5, MW-6, and MW-8R exceeded the standard with analytical results of 1.70 mg/L, 0.368 mg/L, 0.299 mg/L and 0.395 mg/L, respectively.
- **Dissolved Selenium:** Monitoring Well MW-2 exceeded the standard with an analytical result of 0.0657 mg/L.

- **Nitrate (as Nitrogen):** Monitoring Wells MW-1, MW-2, MW-6, MW-7, and MW-8R exceeded the standard with analytical results of 18.7 mg/L, 35.6 mg/L, 22.7 mg/L, 31.4 mg/L, and 38.6 mg/L, respectively.
- **Sulfate:** Monitoring Wells MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, and MW-8R exceeded the standard with analytical results of 1,130 mg/L, 1,200 mg/L, 1,120 mg/L, 1,180 mg/L, 1,640 mg/L, 929 mg/L, 1,740 mg/L, and 1,230 mg/L, respectively.
- **TDS:** Monitoring Wells MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, and MW-8R exceeded the standard with analytical results of 2,090 mg/L, 2,210 mg/L, 1,910 mg/L, 2,090 mg/L, 2,540 mg/L, 1,710 mg/L, 3,080 mg/L, and 2,430 mg/L, respectively.

January 2014

- **BTEX:** Monitoring well MW-8R exceeded the NMWQCC standards for benzene and xylenes with analytical results of 0.179 mg/L, and 0.690, respectively.
- **Dissolved Manganese:** Monitoring Wells MW-3, MW-5, MW-6, MW-7, and MW-8R exceeded the standard with analytical results of 1.77 mg/L, 0.396 mg/L, 0.268 mg/L, 0.452 mg/L, and 0.255 mg/L, respectively.
- **Dissolved Selenium:** Monitoring Well MW-2 exceeded the standard with an analytical result of 0.0745 mg/L.
- **Nitrate (as Nitrogen):** Monitoring Wells MW-1, MW-2, MW-6, MW-7, and MW-8R exceeded the standard with analytical results of 22.5 mg/L, 33.5 mg/L, 19.5 mg/L, 28.5 mg/L, and 28.3 mg/L, respectively.
- **Sulfate:** Monitoring Wells MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, and MW-8R exceeded the standard with analytical results of 1,040 mg/L, 1,300 mg/L, 1,180 mg/L, 1,350 mg/L, 1,740 mg/L, 984 mg/L, 1,950 mg/L, and 1,360 mg/L, respectively.
- **TDS:** Monitoring Wells MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, and MW-8R exceeded the standard with analytical results of 1,990 mg/L, 2,390 mg/L, 1,970 mg/L, 1,960 mg/L, 2,770 mg/L, 2,060 mg/L, 3,320 mg/L, and 2,900 mg/L, respectively.

Section 4.0 Conclusions and Recommendations

The groundwater samples collected prior to subsurface treatment with *Cool-Ox*™ showed detections of benzene, toluene and xylenes above the NMWQCC standards at Monitor Wells MW-1, MW-6 and MW-8. The *Cool-Ox*™ treatment has evidently attenuated the BTEX concentrations previously detected in groundwater of Monitor Wells MW-1 and MW-6.

Post-treatment groundwater sample results from MW-8, however, indicated concentrations of benzene, toluene and xylenes above the NMWQCC standards. Samples collected from replacement Monitor Well MW-8R show concentrations of benzene and xylenes again above NMWQCC standards for these constituents.

CRA recommends reinjection of *Cool-Ox*™, or similar chemical oxidant, directly into Monitor Well MW-8R to further oxidize and biodegrade hydrocarbons in the vicinity of this monitor well. An injection of *Cool-Ox*™ directly into other Site monitor wells is also recommended to increase aerobic conditions and, in turn, precipitate manganese out of the groundwater. CRA will submit a separate work plan detailing proposed remediation activities for NMOCD approval.

Monitoring Well MW-4 is located upgradient of the hydrocarbon release area, therefore groundwater samples from this well can be considered to represent background conditions. Sulfate and TDS concentrations in groundwater samples collected from this well consistently exceed NMWQCC standards. Sulfate and TDS concentrations in downgradient monitoring wells are within the same order of magnitude as the background concentrations.

CRA will continue to monitor groundwater at the Site on a quarterly basis until BTEX and inorganic constituents are below NMWQCC standards for eight consecutive quarters or background concentrations have been reached.

Monitor Wells MW-1, MW-4 and MW-7, upgradient from MW-8R, have displayed 8 consecutive quarters of BTEX concentrations below the NMWQCC standards and therefore these constituents will not continue to be analyzed in groundwater samples from these wells. Analysis of HPC will also be discontinued in all site wells. Groundwater samples will be collected from all Site monitor wells and analyzed for BTEX (except as noted), dissolved manganese and selenium, sulfate, nitrate, and TDS.

FIGURES

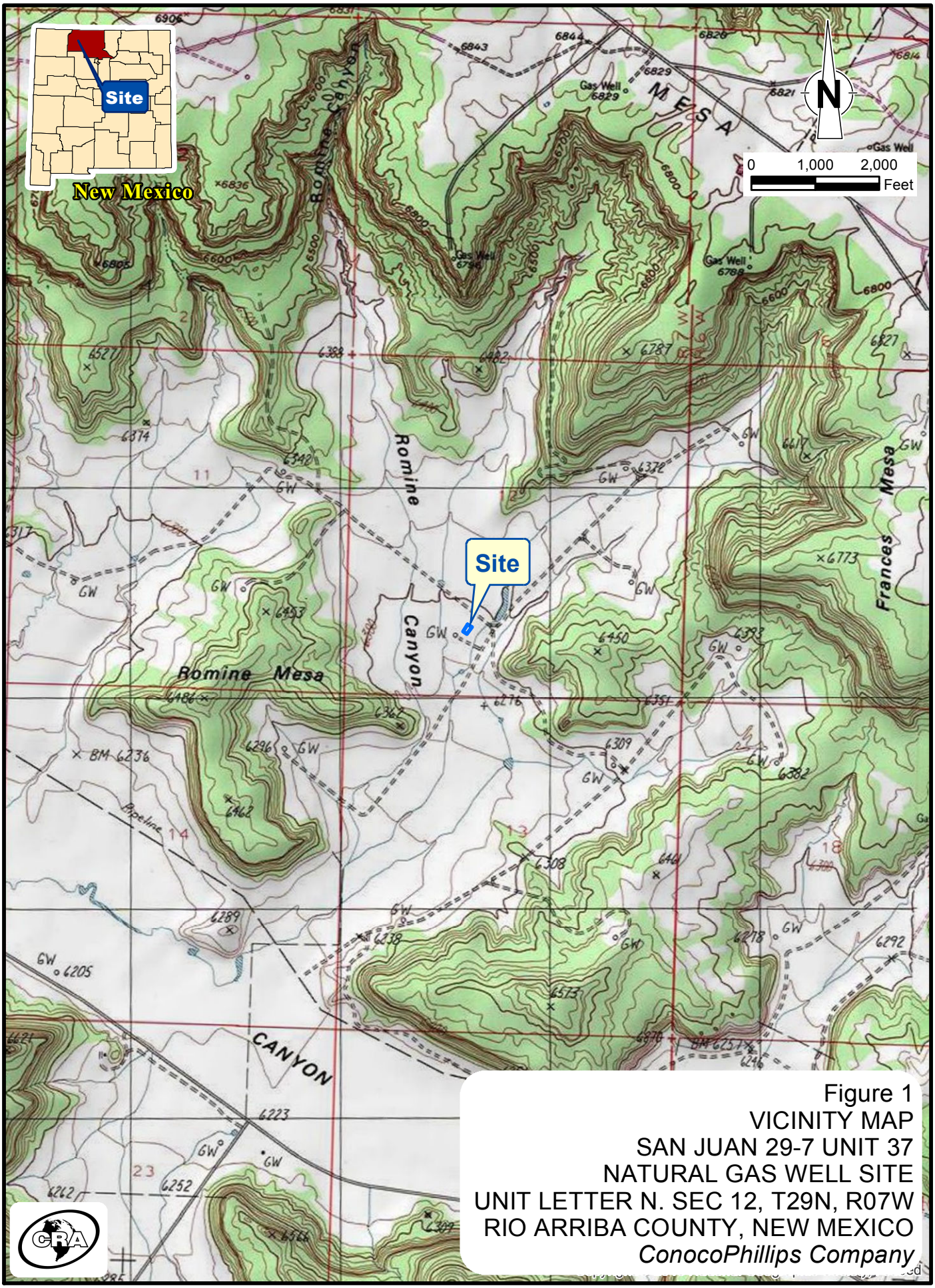

Figure 1
VICINITY MAP
SAN JUAN 29-7 UNIT 37
NATURAL GAS WELL SITE
UNIT LETTER N. SEC 12, T29N, R07W
RIO ARRIBA COUNTY, NEW MEXICO
ConocoPhillips Company

RE: USGS 7.5 Minute Topographic Maps.

3/5/2014

Figure 2
SITE DETAIL MAP
SAN JUAN 29-7 UNIT 37
NATURAL GAS WELL SITE
UNIT LETTER N. SEC 12, T29N, R07W
RIO ARRIBA COUNTY, NEW MEXICO
ConocoPhillips Company

75034-4MN01(005)PR-BR001 3/5/2014

Figure 3
MARCH 2013
GROUNDWATER POTENTIOMETRIC SURFACE MAP
SAN JUAN 29-7 UNIT 37
NATURAL GAS WELL SITE
UNIT LETTER N. SEC 12, T29N, R07W
RIO ARRIBA COUNTY, NEW MEXICO
ConocoPhillips Company

75034-4MN01(005)PR-BR002 3/5/2014

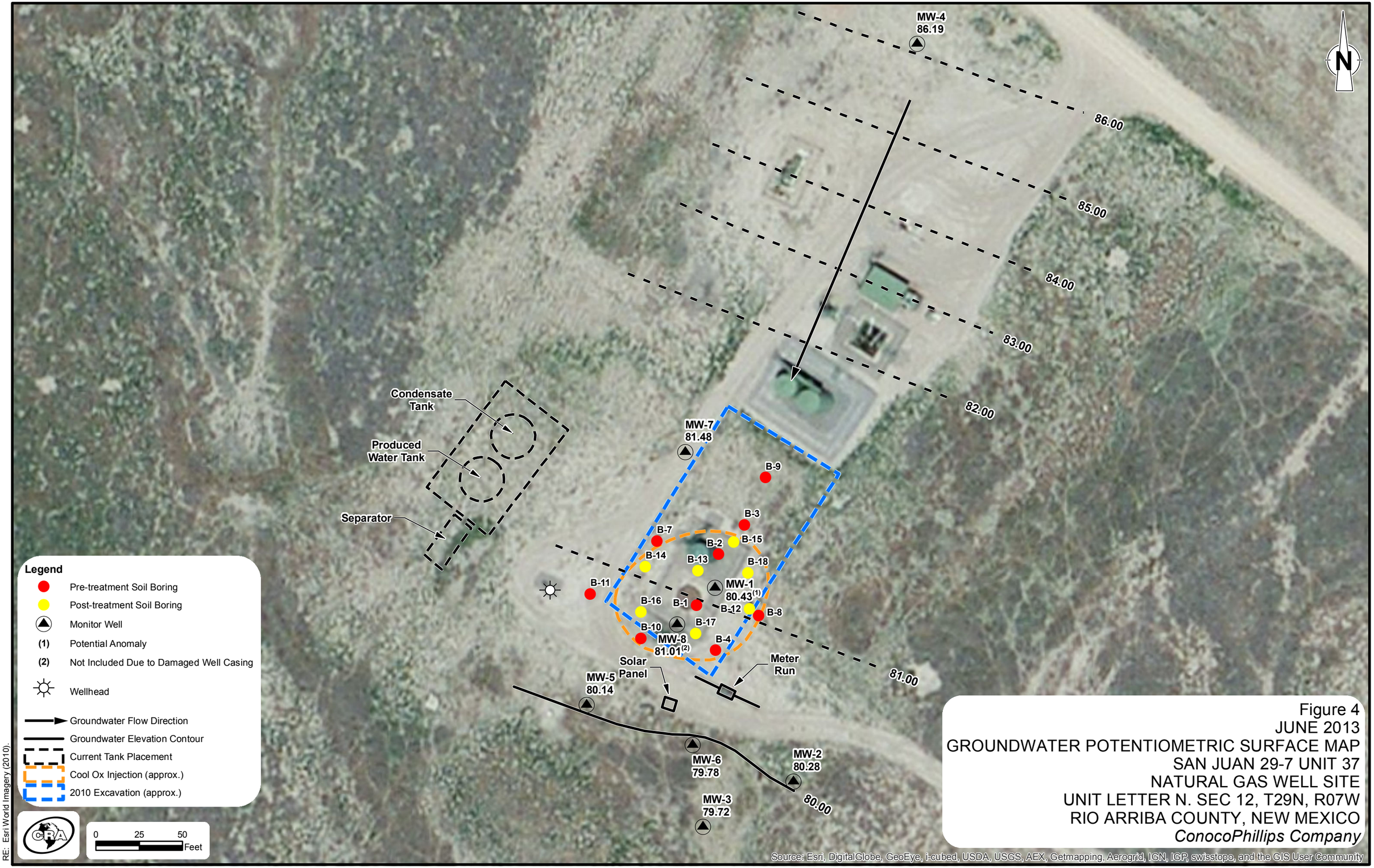

Figure 4
JUNE 2013
GROUNDWATER POTENTIOMETRIC SURFACE MAP
SAN JUAN 29-7 UNIT 37
NATURAL GAS WELL SITE
UNIT LETTER N. SEC 12, T29N, R07W
RIO ARRIBA COUNTY, NEW MEXICO
ConocoPhillips Company

75034-4MN01(005)PR-BR003 3/5/2014

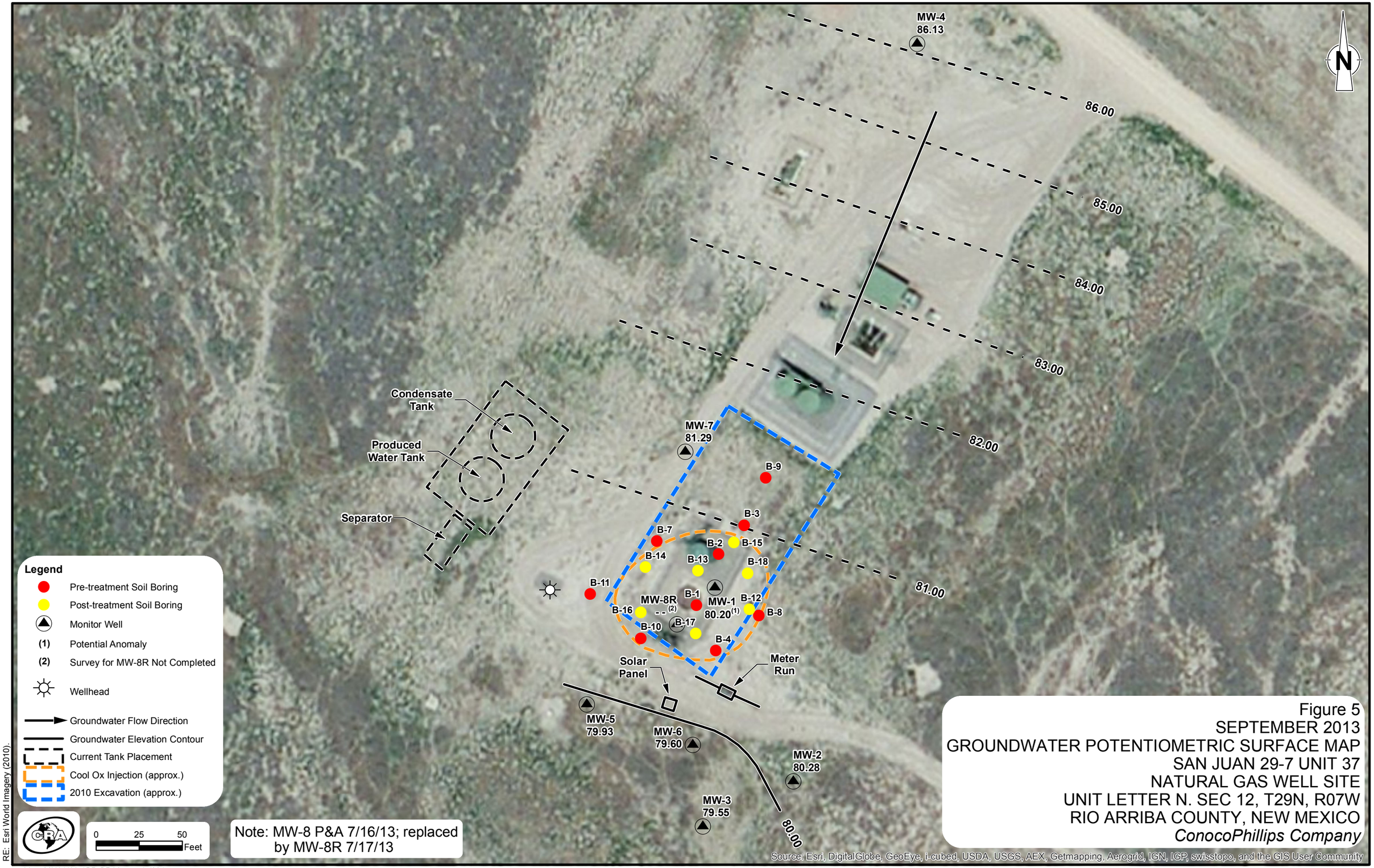

Figure 5
SEPTEMBER 2013
GROUNDWATER POTENTIOMETRIC SURFACE MAP
SAN JUAN 29-7 UNIT 37
NATURAL GAS WELL SITE
UNIT LETTER N. SEC 12, T29N, R07W
RIO ARRIBA COUNTY, NEW MEXICO
ConocoPhillips Company

RE: Esri World Imagery (2010).

75034-4MN01(005)PR-BR004 4/7/2014

Figure 6
JANUARY 2014
GROUNDWATER POTENTIOMETRIC SURFACE MAP
SAN JUAN 29-7 UNIT 37
NATURAL GAS WELL SITE
UNIT LETTER N. SEC 12, T29N, R07W
RIO ARRIBA COUNTY, NEW MEXICO
ConocoPhillips Company

75034-4MN01(005)PR-BR005 3/5/2014

Notes:
1) Analytical results reported in mg/L.
2) Bold notation indicates a level that exceeds the New Mexico Water Quality Control Commission standard.
3) NS = not sampled

MW-7				
Date	3/26/2013	6/11/2013	9/10/2013	1/7/2014
Benzene	< 0.001	< 0.001	< 0.001	< 0.001
Toluene	< 0.001	< 0.001	< 0.001	< 0.001
Ethylbenzene	< 0.001	< 0.001	< 0.001	< 0.001
Xylenes	< 0.003	< 0.003	< 0.003	< 0.003

MW-4				
Date	3/26/2013	6/11/2013	9/10/2013	1/7/2014
Benzene	< 0.001	< 0.001	< 0.001	< 0.001
Toluene	< 0.001	< 0.001	< 0.001	< 0.001
Ethylbenzene	< 0.001	< 0.001	< 0.001	< 0.001
Xylenes	< 0.003	< 0.003	< 0.003	< 0.003

MW-8R				
Date	3/26/2013	6/11/2013	9/10/2013	1/7/2014
Benzene	NS	NS	**0.010**	**0.179**
Toluene	NS	NS	0.0171	0.353
Ethylbenzene	NS	NS	0.0017	0.0105
Xylenes	NS	NS	0.0615	**0.690**

MW-1				
Date	3/26/2013	6/11/2013	9/10/2013	1/7/2014
Benzene	< 0.001	< 0.001	< 0.001	< 0.001
Toluene	< 0.001	< 0.001	< 0.001	< 0.001
Ethylbenzene	< 0.001	< 0.001	< 0.001	< 0.001
Xylenes	< 0.003	< 0.003	< 0.003	< 0.003

MW-6				
Date	3/26/2013	6/11/2013	9/10/2013	1/7/2014
Benzene	0.0022	< 0.001	< 0.001	0.0026
Toluene	< 0.001	< 0.001	< 0.001	< 0.001
Ethylbenzene	< 0.001	< 0.001	< 0.001	< 0.001
Xylenes	< 0.003	< 0.003	< 0.003	0.0034

MW-5				
Date	3/26/2013	6/11/2013	9/10/2013	1/7/2014
Benzene	< 0.001	< 0.001	< 0.001	< 0.001
Toluene	< 0.001	< 0.001	< 0.001	< 0.001
Ethylbenzene	< 0.001	< 0.001	< 0.001	< 0.001
Xylenes	< 0.003	< 0.003	< 0.003	< 0.003

MW-2				
Date	3/26/2013	6/11/2013	9/10/2013	1/7/2014
Benzene	< 0.001	< 0.001	< 0.001	< 0.001
Toluene	< 0.001	< 0.001	< 0.001	< 0.001
Ethylbenzene	< 0.001	< 0.001	< 0.001	< 0.001
Xylenes	< 0.003	< 0.003	< 0.003	< 0.003

MW-3				
Date	3/26/2013	6/11/2013	9/10/2013	1/7/2014
Benzene	< 0.001	< 0.001	< 0.001	< 0.001
Toluene	< 0.001	< 0.001	< 0.001	< 0.001
Ethylbenzene	< 0.001	< 0.001	< 0.001	< 0.001
Xylenes	< 0.003	< 0.003	< 0.003	< 0.003

Condensate Tank
Produced Water Tank
Separator
Solar Panel
Meter Run
B-1
B-2
B-3
B-4
B-7
B-8
B-9
B-10
B-11
B-12
B-13
B-14
B-15
B-16
B-17
B-18

Legend
- Pre-treatment Soil Boring
- Post-treatment Soil Boring
- Monitor Well
- Wellhead
- Current Tank Placement
- Cool Ox Injection (approx.)
- 2010 Excavation (approx.)

0 25 50 Feet

RE: Esri World Imagery (2010).

Figure 7
GROUNDWATER HYDROCARBON ANALYTICAL RESULTS MAP
SAN JUAN 29-7 UNIT 37
NATURAL GAS WELL SITE
UNIT LETTER N. SEC 12, T29N, R07W
RIO ARRIBA COUNTY, NEW MEXICO
ConocoPhillips Company

Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

Notes:
1) Analytical results reported in mg/L.
2) Bold notation indicates a level that exceeds the New Mexico Water Quality Control Commission standard.
3) NS = not sampled
4) NA = not analyzed

MW-7				
Date	3/26/2013	6/11/2013	9/10/2013	1/7/2014
Manganese	< 0.005	0.0082	0.168	**0.452**
Selenium	< 0.015	< 0.015	< 0.015	< 0.015
Nitrate	5.3	**18.7**	**31.4**	**28.5**
Sulfate	**1730**	**1700**	**1740**	**1950**
TDS	**3050**	NA	**3080**	**3320**

MW-4				
Date	3/26/2013	6/11/2013	9/10/2013	1/7/2014
Manganese	0.0605	0.0484	0.0303	0.0265
Selenium	0.0441	0.0369	0.0369	0.0381
Nitrate	8.9	7.3	8.6	5.5
Sulfate	**1200**	**1260**	**1180**	**1350**
TDS	**1950**	NA	**2090**	**1960**

MW-8R				
Date	3/26/2013	6/11/2013	9/10/2013	1/7/2014
Manganese	NS	NS	**0.395**	**0.255**
Selenium	NS	NS	0.038	0.0374
Nitrate	NS	NS	**38.6**	**28.3**
Sulfate	NS	NS	**1230**	**1360**
TDS	NS	NS	**2430**	**2900**

MW-1				
Date	3/26/2013	6/11/2013	9/10/2013	1/7/2014
Manganese	**0.49**	**0.52**	0.164	0.132
Selenium	**0.079**	**0.056**	0.0482	0.0349
Nitrate	**37.0**	**31.1**	**18.7**	**22.5**
Sulfate	**1000**	**1050**	**1130**	**1040**
TDS	**1980**	NA	**2090**	**1990**

MW-6				
Date	3/26/2013	6/11/2013	9/10/2013	1/7/2014
Manganese	**0.282**	**0.328**	**0.299**	**0.268**
Selenium	**0.0602**	**0.0621**	0.0389	0.0417
Nitrate	**30.9**	**27.6**	**22.7**	**19.5**
Sulfate	**945**	**946**	**929**	**984**
TDS	**1740**	NA	**1710**	**2060**

MW-5				
Date	3/26/2013	6/11/2013	9/10/2013	1/7/2014
Manganese	**0.356**	**0.609**	**0.368**	**0.396**
Selenium	< 0.015	< 0.015	< 0.015	< 0.015
Nitrate	0.30	0.25	< 0.10	< 0.10
Sulfate	**1700**	**1630**	**1640**	**1740**
TDS	**2370**	NA	**2540**	**2770**

MW-2				
Date	3/26/2013	6/11/2013	9/10/2013	1/7/2014
Manganese	0.0188	0.0086	< 0.005	0.0069
Selenium	**0.0728**	**0.0666**	**0.0657**	**0.0745**
Nitrate	**43.3**	**40.6**	**35.6**	**33.5**
Sulfate	**1200**	**1230**	**1200**	**1300**
TDS	**1930**	NA	**2210**	**2390**

MW-3				
Date	3/26/2013	6/11/2013	9/10/2013	1/7/2014
Manganese	**1.830**	**1.750**	**1.700**	**1.770**
Selenium	< 0.015	< 0.015	< 0.015	< 0.015
Nitrate	0.42	0.76	1.40	0.15
Sulfate	**1080**	**1110**	**1120**	**1180**
TDS	**2030**	NA	**1910**	**1970**

Condensate Tank
Produced Water Tank
Separator
Solar Panel
Meter Run
B-1
B-2
B-3
B-4
B-7
B-8
B-9
B-10
B-11
B-12
B-13
B-14
B-15
B-16
B-17
B-18

Legend
- Pre-treatment Soil Boring
- Post-treatment Soil Boring
- Monitor Well
- Wellhead
- Current Tank Placement
- Cool Ox Injection (approx.)
- 2010 Excavation (approx.)

0 25 50 Feet

RE: Esri World Imagery (2010).

75034-4MN01(005)PR-BR007 3/5/2014

Figure 8
GROUNDWATER INORGANIC ANALYTICAL RESULTS MAP
SAN JUAN 29-7 UNIT 37
NATURAL GAS WELL SITE
UNIT LETTER N. SEC 12, T29N, R07W
RIO ARRIBA COUNTY, NEW MEXICO
ConocoPhillips Company

Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

Notes:
1) Analytical results reported in millivolts (ORP) and mg/L (DO).
2) N/A = not analyzed.

MW-7				
Date	3/26/2013	6/11/2013	9/10/2013	1/7/2014
pH	11.22	11.08	9.81	8.56
ORP	-49.00	16.00	74.00	-28.40
DO	22.01	2.30	21.27	12.10

MW-4				
Date	3/26/2013	6/11/2013	9/10/2013	1/7/2014
pH	7.42	7.73	7.07	7.38
ORP	51.80	105.20	180.50	-18.30
DO	3.32	0.36	4.08	6.07

MW-8R				
Date	3/26/2013	6/11/2013	9/10/2013	1/7/2014
pH	N/A	N/A	7.04	6.85
ORP	N/A	N/A	85.70	-52.40
DO	N/A	N/A	7.81	1.85

MW-1				
Date	3/26/2013	6/11/2013	9/10/2013	1/7/2014
pH	7.47	7.53	7.13	7.28
ORP	54.90	103.30	78.40	-47.00
DO	4.36	2.21	6.61	N/A

MW-6				
Date	3/26/2013	6/11/2013	9/10/2013	1/7/2014
pH	6.97	7.04	6.48	6.74
ORP	69.90	114.20	105.90	-29.70
DO	4.01	2.96	1.45	2.30

MW-5				
Date	3/26/2013	6/11/2013	9/10/2013	1/7/2014
pH	7.11	6.33	6.52	6.74
ORP	38.70	111.70	56.20	67.50
DO	5.00	5.40	4.86	2.20

MW-2				
Date	3/26/2013	6/11/2013	9/10/2013	1/7/2014
pH	6.95	6.85	6.59	6.59
ORP	61.90	121.60	95.70	11.60
DO	4.35	7.89	6.78	5.60

MW-3				
Date	3/26/2013	6/11/2013	9/10/2013	1/7/2014
pH	7.03	6.90	7.00	7.23
ORP	-85.30	-61.90	-97.00	-137.40
DO	3.10	N/A	7.09	2.30

Condensate Tank
Produced Water Tank
Separator
Solar Panel
Meter Run
B-1
B-2
B-3
B-4
B-7
B-8
B-9
B-10
B-11
B-12
B-13
B-14
B-15
B-16
B-17
B-18

Legend
- Pre-treatment Soil Boring
- Post-treatment Soil Boring
- Monitor Well
- Wellhead
- Current Tank Placement
- Cool Ox Injection (approx.)
- 2010 Excavation (approx.)

0 25 50 Feet

RE: Esri World Imagery (2010).

Figure 9
FIELD PARAMETERS RESULTS MAP
SAN JUAN 29-7 UNIT 37
NATURAL GAS WELL SITE
UNIT LETTER N. SEC 12, T29N, R07W
RIO ARRIBA COUNTY, NEW MEXICO
ConocoPhillips Company

TABLES

TABLE 1
GROUNDWATER ELEVATIONS AND ANALYTICAL SUMMARY
CONOCOPHILLIPS SAN JUAN 29-7 UNIT 37

Well ID	**TOC Elevation (ft)*	*Date*	*Depth to Groundwater (ft-below TOC)*	*Groundwater Elevation (ft)*	***Benzene (mg/L)***	***Toluene (mg/L)***	***Ethylbenzene (mg/L)***	***Xylenes (total) (mg/L)***	***TPH-DRO (mg/L)***	***TPH-GRO (mg/L)***	***Manganese (dissolved) (mg/L)***	***Selenium (dissolved) (mg/L)***	***Nitrate (as N) (mg/L)***	***Sulfate (mg/L)***	***Total dissolved solids (TDS) (mg/L)***	***Heterotrophic Plate Count (CFU/mL)***
MW-1	189.24	3/17/2011	108.91	80.33	**0.066**	0.39	0.011	0.084	0.28	1.5	**2.77**	<0.01	<0.500	**1,610**	**2730**	NA
		8/17/2011	108.81	80.43	**0.0189**	0.0068	<0.001	0.0044	<0.50	<0.50	**0.318**	<0.015	0.25	**1,500**	**2480**	180,000
		10/18/2011	108.87	80.37	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	300,000
		2/23/2012	108.74	80.50	<0.001	<0.001	<0.001	<0.003	NA	NA	**6.40**	**0.055**	0.78	**1,710**	**2,480**	23,000
		6/5/2012	108.75	80.49	<0.001	0.002	<0.001	<0.003	NA	NA	**5.15**	0.033	9.4	**1,520**	NA	93,000
		6/5/2012 (DUP)	108.75	80.49	<0.001	0.002	<0.001	<0.003	NA	NA	NA	NA	NA	NA	NA	NA
		9/18/2012	108.68	80.56	<0.001	<0.001	<0.001	<0.003	NA	NA	**2.60**	0.044	**27.5**	**1,070**	**2,140**	>80000
		9/18/2012 (DUP)	108.68	80.56	<0.001	<0.001	<0.001	<0.003	NA	NA	NA	NA	NA	NA	NA	>80,000
		1/8/2013	108.62	80.62	<0.001	<0.001	<0.001	<0.003	NA	NA	**1.10**	**0.568**	**25.3**	**1,150**	**2,180**	76,000
		1/8/2013 (DUP)	108.62	80.62	<0.001	<0.001	<0.001	<0.003	NA	NA	**NA**	**NA**	**NA**	**NA**	**NA**	142,000
		3/26/2013	108.69	80.55	<0.001	<0.001	<0.001	<0.003	NA	NA	**0.49**	**0.079**	**37**	**1,000**	**1,980**	280,000
		6/11/2013	108.81	80.43	<0.001	<0.001	<0.001	<0.003	NA	NA	**0.52**	**0.056**	**31.1**	**1,050**	NA	81,500
		6/11/2013 (DUP)	108.81	80.43	<0.001	<0.001	<0.001	<0.003	NA	NA	NA	NA	NA	NA	NA	NA
		9/10/2013	109.04	80.2	<0.001	<0.001	<0.001	<0.003	NA	NA	0.164	0.0492	**18.7**	**1,130**	**2,090**	2,300
		1/7/2014	109.26	79.98	<0.001	<0.001	<0.001	<0.003	NA	NA	0.132	0.0349	**22.50**	**1,040**	**1,990**	335,000
MW-2	189.6	3/17/2011	109.20	80.40	<0.001	<0.001	<0.001	<0.001	< 0.11	< 0.1	**0.334**	**0.0664**	**55.8**	**1,000**	**2950**	NA
		8/17/2011	109.10	80.50	<0.001	<0.001	<0.001	<0.003	<0.50	<0.50	0.179	**0.0726**	**71.9 E / 54.1**	**1,040**	**2110**	61,000
		10/18/2011	109.13	80.47	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	124,000
		2/23/2012	109.05	80.55	<0.001	<0.001	<0.001	<0.003	NA	NA	0.0360	**0.059**	**44.9**	**1,350**	**2,220**	14,900
		6/5/2012	109.10	80.50	<0.001	<0.001	<0.001	<0.003	NA	NA	0.0078	**0.061**	4.3	**1,500**	NA	32,000
		9/18/2012	109.28	80.32	<0.001	<0.001	<0.001	<0.003	NA	NA	0.0194	**0.067**	**42.5**	**1,150**	**2,440**	6,500
		1/8/2013	109.07	80.53	<0.001	<0.001	<0.001	<0.003	NA	NA	0.0057	**0.0688**	**41.8**	**1,230**	**2,590**	29,000
		3/26/2013	109.12	80.48	<0.001	<0.001	<0.001	<0.003	NA	NA	0.0188	**0.0728**	**43.3**	**1,200**	**1,930**	4,100
		6/11/2013	109.32	80.28	<0.001	<0.001	<0.001	<0.003	NA	NA	0.0086	**0.0666**	**40.6**	**1,230**	NA	18,000
		9/10/2013	109.32	80.28	<0.001	<0.001	<0.001	<0.003	NA	NA	<0.0050	**0.0657**	**35.6**	**1,200**	**2,210**	160
		1/7/2014	109.71	79.89	<0.001	<0.001	<0.001	<0.003	NA	NA	0.0069	**0.0745**	**33.5**	**1,300**	**2,390**	2,435
MW-3	189.13	3/17/2011	109.42	79.71	<0.001	0.013	<0.001	0.0042	< 0.1	< 0.1	**1.79**	0.0316	**29.7**	**857**	**2360**	NA
		8/17/2011	109.35	79.78	<0.001	<0.001	<0.001	<0.003	<0.50	<0.50	**1.42**	**0.0524**	**33.0**	**972**	**1960**	18,000
		10/18/2011	109.37	79.76	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	230,000
		2/23/2012	109.26	79.87	<0.001	<0.001	<0.001	<0.003	NA	NA	**1.600**	0.038	**22.0**	**1,140**	**2,050**	11,900
		6/5/2012	109.28	79.85	<0.001	<0.001	<0.001	<0.003	NA	NA	**1.430**	0.048	**15.0**	**1,380**	NA	22,000
		9/18/2012	109.3	79.83	<0.001	<0.001	<0.001	<0.003	NA	NA	**1.240**	0.032	12.2	1,050	2,150	23,000
		1/8/2013	109.28	79.85	<0.001	<0.001	<0.001	<0.003	NA	NA	**1.620**	0.0673	24.6	1,140	2,240	51,000
		3/26/2013	109.33	79.80	<0.001	<0.001	<0.001	<0.003	NA	NA	**1.830**	<0.015	0.42	**1,080**	**2,030**	70
		6/11/2013	109.41	79.72	<0.001	<0.001	<0.001	<0.003	NA	NA	**1.750**	<0.015	0.76	**1,110**	NA	830
		9/10/2013	109.58	79.55	<0.001	<0.001	<0.001	<0.003	NA	NA	**1.700**	<0.015	1.4	**1,120**	**1,910**	110
		1/7/2014	109.7	79.43	<0.001	<0.001	<0.001	<0.003	NA	NA	**1.770**	<0.015	0.15	**1,180**	**1,970**	284
		1/7/2014 (DUP)	109.7	79.43	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	350
MW-4	197.6	3/17/2011	111.11	86.49	<0.001	<0.001	<0.001	<0.001	0.14	< 0.1	0.022	0.042	**10.4**	**1,290**	**2650**	NA
		8/17/2011	111.10	86.50	<0.001	<0.001	<0.001	<0.003	<0.50	<0.50	0.0062	0.0402	9.4	**1,240**	**2000**	9800
		10/18/2011	111.16	86.44	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	90,000
		2/23/2012	111.14	86.46	<0.001	<0.001	<0.001	<0.003	NA	NA	0.0170	0.0350	8.6	**1,380**	**2,070**	40,000
		6/5/2012	111.20	86.40	<0.001	<0.001	<0.001	<0.003	NA	NA	0.0814	0.0369	7.5	**1,540**	NA	49,000
		9/18/2012	111.12	86.48	<0.001	<0.001	<0.001	<0.003	NA	NA	0.1030	0.0394	7.8	**1,190**	**2,180**	4,000
		1/8/2013	111.14	86.46	<0.001	<0.001	<0.001	<0.003	NA	NA	0.0289	0.0386	9.3	**1,240**	**2,230**	202,000
		3/26/2013	111.23	86.37	<0.001	<0.001	<0.001	<0.003	NA	NA	0.0605	0.0441	8.9	**1,200**	**1,950**	42,500
		6/11/2013	111.41	86.19	<0.001	<0.001	<0.001	<0.003	NA	NA	0.0484	0.0369	7.3	**1,260**	NA	33,000
		9/10/2013	111.47	86.13	<0.001	<0.001	<0.001	<0.003	NA	NA	0.0303	0.0369	8.6	**1,180**	**2,090**	910
		1/7/2014	111.66	85.94	<0.001	<0.001	<0.001	<0.003	NA	NA	0.0265	0.0381	5.5	**1,350**	**1,960**	1,160

TABLE 1
GROUNDWATER ELEVATIONS AND ANALYTICAL SUMMARY
CONOCOPHILLIPS SAN JUAN 29-7 UNIT 37

Well ID	**TOC Elevation (ft)*	*Date*	*Depth to Groundwater (ft-below TOC)*	*Groundwater Elevation (ft)*	***Benzene (mg/L)***	***Toluene (mg/L)***	***Ethylbenzene (mg/L)***	***Xylenes (total) (mg/L)***	***TPH-DRO (mg/L)***	***TPH-GRO (mg/L)***	***Manganese (dissolved) (mg/L)***	***Selenium (dissolved) (mg/L)***	***Nitrate (as N) (mg/L)***	***Sulfate (mg/L)***	***Total dissolved solids (TDS) (mg/L)***	***Heterotrophic Plate Count (CFU/mL)***
MW-5	188.7	10/18/2011	118.05	70.65	<0.001	<0.001	<0.001	< 0.003	< 0.5	< 0.5	NA	NA	NA	NA	NA	970,000
		2/23/2012	108.44	80.26	<0.001	<0.001	<0.001	<0.003	NA	NA	**1.10**	<0.015	0.12	**3,500**	**2,760**	252,000
		6/5/2012	108.38	80.32	<0.001	<0.001	<0.001	<0.003	NA	NA	**0.868**	<0.015	<0.10	**2,040**	NA	63,000
		9/18/2012	108.11	80.59	<0.001	<0.001	<0.001	<0.003	NA	NA	**0.791**	<0.015	<0.10	**1,620**	**2,830**	130,000
		1/8/2013	108.36	80.34	<0.001	<0.001	<0.001	<0.003	NA	NA	**0.58**	<0.015	<0.10	**1,710**	**2,950**	102,000
		3/26/2013	108.72	79.98	<0.001	<0.001	<0.001	<0.003	NA	NA	**0.356**	<0.015	0.3	**1,700**	**2,370**	16,950
		6/11/2013	108.56	80.14	<0.001	<0.001	<0.001	<0.003	NA	NA	**0.609**	<0.015	0.25	**1,630**	NA	20,500
		9/10/2013	108.77	79.93	<0.001	<0.001	<0.001	<0.003	NA	NA	**0.368**	<0.015	<0.10	**1,640**	**2,540**	660
		1/7/2014	108.91	79.79	<0.001	<0.001	<0.001	<0.003	NA	NA	**0.396**	<0.015	<0.10	**1,740**	**2,770**	5,450
MW-6	188.03	10/18/2011	109.55	78.48	**0.033**	<0.001	<0.001	0.012	< 0.5	< 0.5	NA	NA	NA	NA	NA	720,000
		2/23/2012	108.01	80.02	<0.001	<0.001	<0.001	<0.003	NA	NA	<0.005	**0.0590**	**25.8**	**950**	**1,760**	8,900
		6/5/2012	108.05	79.98	<0.001	<0.001	<0.001	<0.003	NA	NA	**1.600**	0.0454	**35.0**	**1,090**	NA	35,000
		9/18/2012	108.06	79.97	<0.001	<0.001	<0.001	<0.003	NA	NA	**1.110**	0.0460	**29.5**	**955**	**1,990**	12,000
		1/8/2013	108.07	79.96	0.0012	<0.001	<0.001	<0.003	NA	NA	0.158	**0.0536**	**25.6**	**978**	**1,980**	1,910,000
		3/26/2013	108.09	79.94	0.0022	<0.001	<0.001	<0.003	NA	NA	**0.282**	**0.0602**	**30.9**	**945**	**1,740**	25,500
		6/11/2013	108.25	79.78	<0.001	<0.001	<0.001	<0.003	NA	NA	**0.328**	**0.0621**	**27.6**	**946**	NA	4,750
		9/10/2013	108.43	79.6	<0.001	<0.001	<0.001	<0.003	NA	NA	**0.299**	0.0389	**22.7**	**929**	**1,710**	65
		1/7/2014	108.7	79.33	0.0026	<0.001	<0.001	0.0034	NA	NA	**0.268**	0.0417	**19.5**	**984**	**2,060**	2,460
MW-7	189.93	10/18/2011	119.70	70.23	<0.001	<0.001	<0.001	<0.003	< 0.5	< 0.5	NA	NA	NA	NA	NA	2,000,000
		2/23/2012	106.58	83.35	<0.001	0.001	<0.001	0.003	NA	NA	<0.005	0.022	4.6	**3,320**	**4,660**	<1
		6/5/2012	107.95	81.98	<0.001	<0.001	<0.001	<0.003	NA	NA	0.019	0.030	1.1	**1,820**	NA	8
		9/18/2012	108.1	81.83	<0.001	<0.001	<0.001	<0.003	NA	NA	0.012	0.024	1.0	**1,610**	**4,280**	1,900
		1/8/2013	108.13	81.8	<0.001	<0.001	<0.001	<0.003	NA	NA	0.0093	0.0164	1.3	**1,770**	**3,400**	145,000
		3/26/2013	108.24	81.69	<0.001	<0.001	<0.001	<0.003	NA	NA	<0.005	<0.015	5.3	**1,730**	**3,050**	79
		6/11/2013	108.45	81.48	<0.001	<0.001	<0.001	<0.003	NA	NA	0.0082	<0.015	**18.7**	**1,700**	NA	18
		9/10/2013	108.64	81.29	<0.001	<0.001	<0.001	<0.003	NA	NA	0.168	<0.015	**31.4**	**1,740**	**3,080**	110
		1/7/2014	108.8	81.13	<0.001	<0.001	<0.001	<0.003	NA	NA	**0.452**	<0.015	**28.5**	**1,950**	**3,320**	8,300
MW-8	189.86	10/19/2011	--	--	**0.15**	**1.24**	0.070	**1.43**	< 0.5	7.1	NA	NA	NA	NA	NA	2,300,000
		2/23/2012	108.71	81.15	**0.036**	**0.772**	0.054	**1.35**	NA	NA	<0.005	0.049	3.2	**813**	**5,790**	14
		2/23/2012 (DUP)	108.71	81.15	**0.069**	**0.876**	0.109	**1.66**	NA	NA	NA	NA	NA	NA	NA	NA
		6/5/2012	108.65	81.21	**0.013**	0.120	0.025	0.447	NA	NA	0.022	0.045	**18.1**	**793**	NA	630
		9/20/2012	108.64	81.22	0.0098	0.002	0.006	0.342	NA	NA	NA	NA	**21.8**	**1,130**	**2,960**	NA
		1/8/2013	108.56	81.30	**0.0369**	0.0199	0.0018	0.0488	NA	NA	NA	NA	**30.4**	**1,260**	**2,700**	222,000
		3/26/2013	108.63	81.23	Not sampled due to damaged well casing.											
		6/11/2013	108.85	81.01	Not sampled due to damaged well casing.											
MW-8R	--	9/10/2013	108.39	--	**0.0100**	0.0171	0.0017	0.0615	NA	NA	**0.395**	0.038	**38.6**	**1,230**	**2,430**	5,700
		9/10/2013 (DUP)	108.39	--	0.0083	0.0125	0.0018	0.0443	NA	NA	NA	NA	NA	NA	NA	8,700
		1/7/2014	108.65	--	**0.179**	0.353	0.0105	**0.69**	NA	NA	**0.255**	0.0374	**28.3**	**1,360**	**2,900**	425,000
		1/7/2014 (DUP)	108.65	--	**0.192**	0.344	0.0107	**0.715**	NA	NA	NA	NA	NA	NA	NA	NA
NMWQCC Standards					**0.01**	**0.75**	**0.75**	**0.62**	**NE**	**NE**	**0.2**	**0.05**	**10**	**600**	**1,000**	**NE**

Notes:
MW = Monitoring Well
NMWQCC = New Mexico Water Quality Control Commission
BOLD = Exceeds NMWQCC Groundwater Quality Standard
mg/L = milligrams per liter (parts per million)
'< ' = Analyte not detected above set laboratory detection limit
E = Analyte concentration exceeded the calibration range
ft = Feet
TOC = Top of Casing
* = Elevation relative to an arbitrary 200 feet
NE = Not Established
NA = Not analyzed
TPH DRO = total petroleum hydrocarbons diesel range organics
TPH GRO = total petroleum hydrocarbons gasoline range organics
-- = No data
Cells shaded in gray indicate groundwater samples collected prior to CoolOx™ treatment

APPENDIX A

SOILS LABORATORY ANALYTICAL RESULTS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

August 06, 2013

Christine Matthews
CRA
6121 Indian School Rd NE
Suite 200
Albuquerque, NM 87110

RE: Project: 075034San Juan 29-7 Unit37Conf
Pace Project No.: 60149543

Dear Christine Matthews:
Enclosed are the analytical results for sample(s) received by the laboratory on July 25, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Alice Flanagan

alice.flanagan@pacelabs.com
Project Manager

Enclosures

cc: Kelly Blanchard, COP Conestoga-Rovers & Associa
Angela Bown, COP Conestoga-Rovers & Associa
Cassie Brown, COP Conestoga-Rovers & Associa
Jason Ploss, COP Conestoga-Rovers & Associa

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: 075034San Juan 29-7 Unit37Conf
Pace Project No.: 60149543

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 13-012-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-13-4
Utah Certification #: KS000212013-3
Illinois Certification #: 003097

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE SUMMARY

Project: 075034San Juan 29-7 Unit37Conf
Pace Project No.: 60149543

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60149543001	**SS-075034-071713-JC-MW8R-107**	Solid	07/17/13 09:15	07/25/13 07:20
60149543002	**SS-075034-071713-JC-WASTE**	Solid	07/19/13 12:15	07/25/13 07:20
60149543003	**TRIP BLANK**	Solid	07/19/13 08:00	07/25/13 07:20

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SAMPLE ANALYTE COUNT

Project: 075034San Juan 29-7 Unit37Conf
Pace Project No.: 60149543

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60149543001	**SS-075034-071713-JC-MW8R-107**	EPA 8015B	JDH	3
		EPA 8015B	SDR	2
		EPA 8260	RAB	8
		ASTM D2974	DWC	1
		EPA 9045	NDL	1
60149543002	**SS-075034-071713-JC-WASTE**	EPA 8015B	JDH	3
		EPA 8015B	SDR	2
		EPA 6010	JGP	7
		EPA 7470	NDJ	1
		EPA 8260	RAB	5
		EPA 8260	RAB	9
		ASTM D2974	DWC	1
		SW-846 7.3.4.2	AJM	1
		EPA 9045	NDL	1
		ASTM D92	DJR	1
		SW-846 7.3.3.2	AJM	1
60149543003	**TRIP BLANK**	EPA 8260	RAB	8
		ASTM D2974	DWC	1

Pace Analytical Services, Inc.
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Lenexa, KS 66219
(913)599-5665

PROJECT NARRATIVE

Project: 075034San Juan 29-7 Unit37Conf
Pace Project No.: 60149543

Method: **EPA 8015B**
Description: 8015B Diesel Range Organics
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: August 06, 2013

General Information:
2 samples were analyzed for EPA 8015B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3546 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, Inc.
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(913)599-5665

PROJECT NARRATIVE

Project: 075034San Juan 29-7 Unit37Conf
Pace Project No.: 60149543

Method: **EPA 8015B**
Description: Gasoline Range Organics
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: August 06, 2013

General Information:
2 samples were analyzed for EPA 8015B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 5035A/5030B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: GCV/4388

S2: Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from sample re-analysis).

- MS (Lab ID: 1227358)
  - 4-Bromofluorobenzene (S)
- MSD (Lab ID: 1227359)
  - 4-Bromofluorobenzene (S)
- SS-075034-071713-JC-MW8R-107 (Lab ID: 60149543001)
  - 4-Bromofluorobenzene (S)

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: GCV/4388

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60149543001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1227358)

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

PROJECT NARRATIVE

Project: 075034San Juan 29-7 Unit37Conf
Pace Project No.: 60149543

Method: **EPA 8015B**
Description: Gasoline Range Organics
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: August 06, 2013

QC Batch: GCV/4388

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60149543001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- TPH-GRO

- MSD (Lab ID: 1227359)
  - TPH-GRO

Additional Comments:

Pace Analytical Services, Inc.
9608 Loiret Blvd.
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(913)599-5665

PROJECT NARRATIVE

Project: 075034San Juan 29-7 Unit37Conf
Pace Project No.: 60149543

Method: **EPA 6010**
Description: 6010 MET ICP, TCLP
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: August 06, 2013

General Information:
1 sample was analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

PROJECT NARRATIVE

Project: 075034San Juan 29-7 Unit37Conf
Pace Project No.: 60149543

Method: **EPA 7470**
Description: 7470 Mercury, TCLP
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: August 06, 2013

General Information:
1 sample was analyzed for EPA 7470. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 7470 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

PROJECT NARRATIVE

Project: 075034San Juan 29-7 Unit37Conf
Pace Project No.: 60149543

Method: **EPA 8260**
Description: 8260 MSV TCLP
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: August 06, 2013

General Information:
1 sample was analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, Inc.
9608 Loiret Blvd.
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PROJECT NARRATIVE

Project: 075034San Juan 29-7 Unit37Conf
Pace Project No.: 60149543

Method: **EPA 8260**
Description: 8260 MSV 5035A VOA
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: August 06, 2013

General Information:
3 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: MSV/55198

S3: Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

- SS-075034-071713-JC-MW8R-107 (Lab ID: 60149543001)
  - Toluene-d8 (S)

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

PROJECT NARRATIVE

Project: 075034San Juan 29-7 Unit37Conf
Pace Project No.: 60149543

Method: **SW-846 7.3.4.2**
Description: Reactive Sulfide
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: August 06, 2013

General Information:
1 sample was analyzed for SW-846 7.3.4.2. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, Inc.
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Lenexa, KS 66219
(913)599-5665

PROJECT NARRATIVE

Project: 075034San Juan 29-7 Unit37Conf
Pace Project No.: 60149543

Method: **EPA 9045**
Description: 9045 pH Soil
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: August 06, 2013

General Information:
2 samples were analyzed for EPA 9045. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H3: Sample was received or analysis requested beyond the recognized method holding time.
- SS-075034-071713-JC-MW8R-107 (Lab ID: 60149543001)
- SS-075034-071713-JC-WASTE (Lab ID: 60149543002)

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

PROJECT NARRATIVE

Project: 075034San Juan 29-7 Unit37Conf
Pace Project No.: 60149543

Method: **ASTM D92**
Description: Flashpoint, Open Cup
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: August 06, 2013

General Information:
1 sample was analyzed for ASTM D92. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

PROJECT NARRATIVE

Project: 075034San Juan 29-7 Unit37Conf
Pace Project No.: 60149543

Method: **SW-846 7.3.3.2**
Description: 733C S Reactive Cyanide
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: August 06, 2013

General Information:
1 sample was analyzed for SW-846 7.3.3.2. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

Pace Analytical Services, Inc.
9608 Loiret Blvd.
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(913)599-5665

ANALYTICAL RESULTS

Project: 075034San Juan 29-7 Unit37Conf
Pace Project No.: 60149543

Sample: SS-075034-071713-JC-MW8R-107 **Lab ID: 60149543001** Collected: 07/17/13 09:15 Received: 07/25/13 07:20 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 3546								
TPH-DRO	**124**	mg/kg	11.0	1.8	1	07/26/13 00:00	08/05/13 12:00		
Surrogates									
n-Tetracosane (S)	59	%	20-159		1	07/26/13 00:00	08/05/13 12:00	646-31-1	
p-Terphenyl (S)	39	%	24-147		1	07/26/13 00:00	08/05/13 12:00	92-94-4	
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
TPH-GRO	**382**	mg/kg	10.8		1	07/29/13 00:00	07/30/13 17:32		M1
Surrogates									
4-Bromofluorobenzene (S)	186	%	67-139		1	07/29/13 00:00	07/30/13 17:32	460-00-4	S2
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
Benzene	ND	ug/kg	5.5	2.7	1		07/26/13 16:08	71-43-2	
Ethylbenzene	**453**	ug/kg	278	139	50		07/29/13 17:13	100-41-4	
Toluene	**314**	ug/kg	278	139	50		07/29/13 17:13	108-88-3	
Xylene (Total)	**9600**	ug/kg	278	139	50		07/29/13 17:13	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	98	%	76-125		1		07/26/13 16:08	1868-53-7	
Toluene-d8 (S)	492	%	80-120		1		07/26/13 16:08	2037-26-5	S3
4-Bromofluorobenzene (S)	105	%	80-120		1		07/26/13 16:08	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	76-132		1		07/26/13 16:08	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**9.3**	%	0.50	0.50	1		07/26/13 00:00		
9045 pH Soil	Analytical Method: EPA 9045								
pH at 25 Degrees C	**8.4**	Std. Units	0.10	0.10	1		07/29/13 15:46		H3

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: 075034San Juan 29-7 Unit37Conf
Pace Project No.: 60149543

Sample: SS-075034-071713-JC-WASTE **Lab ID: 60149543002** Collected: 07/19/13 12:15 Received: 07/25/13 07:20 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 3546								
TPH-DRO	**140**	mg/kg	11.7	1.9	1	07/26/13 00:00	08/05/13 13:06		
Surrogates									
n-Tetracosane (S)	71	%	20-159		1	07/26/13 00:00	08/05/13 13:06	646-31-1	
p-Terphenyl (S)	47	%	24-147		1	07/26/13 00:00	08/05/13 13:06	92-94-4	
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
TPH-GRO	**30.0**	mg/kg	11.6		1	07/29/13 00:00	07/30/13 18:15		
Surrogates									
4-Bromofluorobenzene (S)	83	%	67-139		1	07/29/13 00:00	07/30/13 18:15	460-00-4	
6010 MET ICP, TCLP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
	Leachate Method/Date: EPA 1311; 07/31/13 00:00								
Arsenic	ND	mg/L	0.50		1	07/31/13 11:25	08/01/13 16:11	7440-38-2	
Barium	ND	mg/L	2.5		1	07/31/13 11:25	08/01/13 16:11	7440-39-3	
Cadmium	ND	mg/L	0.050		1	07/31/13 11:25	08/01/13 16:11	7440-43-9	
Chromium	ND	mg/L	0.10		1	07/31/13 11:25	08/01/13 16:11	7440-47-3	
Lead	ND	mg/L	0.50		1	07/31/13 11:25	08/01/13 16:11	7439-92-1	
Selenium	ND	mg/L	0.50		1	07/31/13 11:25	08/01/13 16:11	7782-49-2	
Silver	ND	mg/L	0.10		1	07/31/13 11:25	08/01/13 16:11	7440-22-4	
7470 Mercury, TCLP	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
	Leachate Method/Date: EPA 1311; 07/31/13 00:00								
Mercury	ND	mg/L	0.0020	0.0010	1	08/01/13 10:30	08/01/13 13:19	7439-97-6	
8260 MSV TCLP	Analytical Method: EPA 8260 Leachate Method/Date: EPA 1311; 07/31/13 00:00								
Benzene	ND	ug/L	50.0	25.0	1		08/02/13 03:56	71-43-2	
Surrogates									
1,2-Dichloroethane-d4 (S)	95	%	80-120		1		08/02/13 03:56	17060-07-0	
Toluene-d8 (S)	105	%	80-120		1		08/02/13 03:56	2037-26-5	
4-Bromofluorobenzene (S)	95	%	80-120		1		08/02/13 03:56	460-00-4	
Dibromofluoromethane (S)	99	%	80-120		1		08/02/13 03:56	1868-53-7	
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
Benzene	ND	ug/kg	6.0	3.0	1		07/29/13 12:50	71-43-2	
TOTAL BTEX	**22.4**	ug/kg	6.0	3.0	1		07/29/13 12:50		
Ethylbenzene	ND	ug/kg	6.0	3.0	1		07/29/13 12:50	100-41-4	
Toluene	ND	ug/kg	6.0	3.0	1		07/29/13 12:50	108-88-3	
Xylene (Total)	**22.4**	ug/kg	6.0	3.0	1		07/29/13 12:50	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	99	%	76-125		1		07/29/13 12:50	1868-53-7	
Toluene-d8 (S)	103	%	80-120		1		07/29/13 12:50	2037-26-5	
4-Bromofluorobenzene (S)	100	%	80-120		1		07/29/13 12:50	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	76-132		1		07/29/13 12:50	17060-07-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 075034San Juan 29-7 Unit37Conf
Pace Project No.: 60149543

Sample: SS-075034-071713-JC-WASTE **Lab ID: 60149543002** Collected: 07/19/13 12:15 Received: 07/25/13 07:20 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**15.0**	%	0.50	0.50	1		07/26/13 00:00		
Reactive Sulfide	Analytical Method: SW-846 7.3.4.2								
Sulfide, Reactive	ND	mg/kg	100		1		07/26/13 10:15		
9045 pH Soil	Analytical Method: EPA 9045								
pH at 25 Degrees C	**8.3**	Std. Units	0.10	0.10	1		07/29/13 15:46		H3
Flashpoint, Open Cup	Analytical Method: ASTM D92								
Flashpoint	**>210**	deg F			1		07/26/13 07:49		
733C S Reactive Cyanide	Analytical Method: SW-846 7.3.3.2								
Cyanide, Reactive	ND	mg/kg	0.025	0.0052	1		07/26/13 11:26		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 075034San Juan 29-7 Unit37Conf
Pace Project No.: 60149543

Sample: TRIP BLANK **Lab ID: 60149543003** Collected: 07/19/13 08:00 Received: 07/25/13 07:20 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
Benzene	ND	ug/kg	5.0	2.5	1		07/26/13 15:07	71-43-2	
Ethylbenzene	ND	ug/kg	5.0	2.5	1		07/26/13 15:07	100-41-4	
Toluene	ND	ug/kg	5.0	2.5	1		07/26/13 15:07	108-88-3	
Xylene (Total)	ND	ug/kg	5.0	2.5	1		07/26/13 15:07	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	99	%	76-125		1		07/26/13 15:07	1868-53-7	
Toluene-d8 (S)	101	%	80-120		1		07/26/13 15:07	2037-26-5	
4-Bromofluorobenzene (S)	99	%	80-120		1		07/26/13 15:07	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	76-132		1		07/26/13 15:07	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	ND	%	0.50	0.50	1		07/26/13 00:00		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 075034San Juan 29-7 Unit37Conf
Pace Project No.: 60149543

QC Batch: GCV/4388 Analysis Method: EPA 8015B
QC Batch Method: EPA 5035A/5030B Analysis Description: Gasoline Range Organics
Associated Lab Samples: 60149543001, 60149543002

METHOD BLANK: 1227356 Matrix: Solid
Associated Lab Samples: 60149543001, 60149543002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-GRO	mg/kg	ND	10.0	07/30/13 13:39	
4-Bromofluorobenzene (S)	%	97	67-139	07/30/13 13:39	

LABORATORY CONTROL SAMPLE: 1227357

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-GRO	mg/kg	50	45.0	90	65-143	
4-Bromofluorobenzene (S)	%			93	67-139	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1227358 1227359

Parameter	Units	60149543001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH-GRO	mg/kg	382	53.8	53.8	385	309	5	-135	40-151	22	33	M1
4-Bromofluorobenzene (S)	%						178	155	67-139			S2

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 075034San Juan 29-7 Unit37Conf
Pace Project No.: 60149543

QC Batch: MERP/7556 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury TCLP
Associated Lab Samples: 60149543002

METHOD BLANK: 1228444 Matrix: Water
Associated Lab Samples: 60149543002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/L	ND	0.0020	08/01/13 13:15	

LABORATORY CONTROL SAMPLE: 1228445

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	.005	0.0041	82	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1228446 1228447

Parameter	Units	60149543002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	.015	.015	0.014	0.016	96	104	75-125	8	20	

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QUALITY CONTROL DATA

Project: 075034San Juan 29-7 Unit37Conf
Pace Project No.: 60149543

QC Batch: MPRP/23684
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET TCLP
Associated Lab Samples: 60149543002

METHOD BLANK: 1228484 Matrix: Water
Associated Lab Samples: 60149543002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.50	08/01/13 16:08	
Barium	mg/L	ND	2.5	08/01/13 16:08	
Cadmium	mg/L	ND	0.050	08/01/13 16:08	
Chromium	mg/L	ND	0.10	08/01/13 16:08	
Lead	mg/L	ND	0.50	08/01/13 16:08	
Selenium	mg/L	ND	0.50	08/01/13 16:08	
Silver	mg/L	ND	0.10	08/01/13 16:08	

LABORATORY CONTROL SAMPLE: 1228485

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	1	0.95	95	80-120	
Barium	mg/L	1	1.0	104	80-120	
Cadmium	mg/L	1	0.97	97	80-120	
Chromium	mg/L	1	0.97	97	80-120	
Lead	mg/L	1	0.97	97	80-120	
Selenium	mg/L	1	0.95	95	80-120	
Silver	mg/L	.5	0.48	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1228486 1228487

Parameter	Units	60149543002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	10	10	9.7	9.9	97	98	75-125	2	20	
Barium	mg/L	ND	10	10	11.8	12.0	104	107	75-125	2	20	
Cadmium	mg/L	ND	10	10	9.8	10.0	98	100	75-125	2	20	
Chromium	mg/L	ND	10	10	9.5	9.6	95	96	75-125	1	20	
Lead	mg/L	ND	10	10	9.4	9.6	94	96	75-125	2	20	
Selenium	mg/L	ND	10	10	9.9	10.1	99	101	75-125	2	20	
Silver	mg/L	ND	5	5	4.8	4.9	96	98	75-125	2	20	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 075034San Juan 29-7 Unit37Conf
Pace Project No.: 60149543

QC Batch: MSV/55297
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV TCLP
Associated Lab Samples: 60149543002

METHOD BLANK: 1229216
Matrix: Water
Associated Lab Samples: 60149543002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	50.0	08/02/13 03:40	
1,2-Dichloroethane-d4 (S)	%	95	80-120	08/02/13 03:40	
4-Bromofluorobenzene (S)	%	94	80-120	08/02/13 03:40	
Toluene-d8 (S)	%	104	80-120	08/02/13 03:40	

LABORATORY CONTROL SAMPLE: 1229217

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	1000	986	99	73-122	
1,2-Dichloroethane-d4 (S)	%			100	80-120	
4-Bromofluorobenzene (S)	%			99	80-120	
Toluene-d8 (S)	%			105	80-120	

MATRIX SPIKE SAMPLE: 1229218

Parameter	Units	60149543002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	ND	1000	900	90	48-150	
1,2-Dichloroethane-d4 (S)	%				95	80-120	
4-Bromofluorobenzene (S)	%				95	80-120	
Toluene-d8 (S)	%				106	80-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 075034San Juan 29-7 Unit37Conf
Pace Project No.: 60149543

QC Batch: MSV/55198
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 60149543001, 60149543003

METHOD BLANK: 1226569 Matrix: Solid
Associated Lab Samples: 60149543001, 60149543003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/kg	ND	5.0	07/26/13 14:05	
Ethylbenzene	ug/kg	ND	5.0	07/26/13 14:05	
Toluene	ug/kg	ND	5.0	07/26/13 14:05	
Xylene (Total)	ug/kg	ND	5.0	07/26/13 14:05	
1,2-Dichloroethane-d4 (S)	%	96	76-132	07/26/13 14:05	
4-Bromofluorobenzene (S)	%	98	80-120	07/26/13 14:05	
Toluene-d8 (S)	%	100	80-120	07/26/13 14:05	

LABORATORY CONTROL SAMPLE: 1226570

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/kg	100	109	109	77-120	
Ethylbenzene	ug/kg	100	116	116	76-120	
Toluene	ug/kg	100	111	111	74-120	
Xylene (Total)	ug/kg	300	348	116	75-120	
1,2-Dichloroethane-d4 (S)	%			96	76-132	
4-Bromofluorobenzene (S)	%			99	80-120	
Toluene-d8 (S)	%			102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1226571 1226572

Parameter	Units	60148198006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/kg	ND	126	127	115	106	92	83	40-145	8	47	H1
Ethylbenzene	ug/kg	ND	126	127	121	110	96	87	40-151	9	48	H1
Toluene	ug/kg	ND	126	127	119	109	94	85	40-150	9	46	H1
Xylene (Total)	ug/kg	ND	377	382	351	322	93	84	40-153	9	47	
1,2-Dichloroethane-d4 (S)	%						100	101	76-132			
4-Bromofluorobenzene (S)	%						100	99	80-120			
Toluene-d8 (S)	%						101	101	80-120			

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 075034San Juan 29-7 Unit37Conf
Pace Project No.: 60149543

QC Batch: MSV/55218 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 60149543001, 60149543002

METHOD BLANK: 1227334 Matrix: Solid
Associated Lab Samples: 60149543001, 60149543002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/kg	ND	5.0	07/29/13 11:28	
Ethylbenzene	ug/kg	ND	5.0	07/29/13 11:28	
Toluene	ug/kg	ND	5.0	07/29/13 11:28	
TOTAL BTEX	ug/kg	ND	5.0	07/29/13 11:28	
Xylene (Total)	ug/kg	ND	5.0	07/29/13 11:28	
1,2-Dichloroethane-d4 (S)	%	94	76-132	07/29/13 11:28	
4-Bromofluorobenzene (S)	%	99	80-120	07/29/13 11:28	
Toluene-d8 (S)	%	99	80-120	07/29/13 11:28	

LABORATORY CONTROL SAMPLE: 1227335

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/kg	100	108	108	77-120	
Ethylbenzene	ug/kg	100	115	115	76-120	
Toluene	ug/kg	100	110	110	74-120	
TOTAL BTEX	ug/kg		671			
Xylene (Total)	ug/kg	300	338	113	75-120	
1,2-Dichloroethane-d4 (S)	%			93	76-132	
4-Bromofluorobenzene (S)	%			98	80-120	
Toluene-d8 (S)	%			100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1227336 1227337

Parameter	Units	60149543002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/kg	ND	119	119	164	110	138	93	40-145	39	47	
Ethylbenzene	ug/kg	ND	119	119	120	111	100	92	40-151	8	48	
Toluene	ug/kg	ND	119	119	118	112	99	93	40-150	5	46	
TOTAL BTEX	ug/kg	22.4			784	690				13		
Xylene (Total)	ug/kg	22.4	355	357	382	357	101	93	40-153	7	47	
1,2-Dichloroethane-d4 (S)	%						96	98	76-132			
4-Bromofluorobenzene (S)	%						102	103	80-120			
Toluene-d8 (S)	%						101	103	80-120			

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 075034San Juan 29-7 Unit37Conf
Pace Project No.: 60149543

QC Batch: OEXT/39491 Analysis Method: EPA 8015B
QC Batch Method: EPA 3546 Analysis Description: EPA 8015B
Associated Lab Samples: 60149543001, 60149543002

METHOD BLANK: 1226055 Matrix: Solid
Associated Lab Samples: 60149543001, 60149543002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-DRO	mg/kg	ND	10	07/31/13 21:32	
n-Tetracosane (S)	%	72	20-159	07/31/13 21:32	
p-Terphenyl (S)	%	59	24-147	07/31/13 21:32	

LABORATORY CONTROL SAMPLE: 1226056

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-DRO	mg/kg	83.1	74.9	90	64-120	
n-Tetracosane (S)	%			78	20-159	
p-Terphenyl (S)	%			60	24-147	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1226057 1226058

Parameter	Units	60149543001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH-DRO	mg/kg	124	91.8	91.5	191	189	73	72	10-150	1	45	
n-Tetracosane (S)	%						68	69	20-159			
p-Terphenyl (S)	%						44	47	24-147			

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 075034San Juan 29-7 Unit37Conf
Pace Project No.: 60149543

QC Batch: PMST/8748 Analysis Method: ASTM D2974
QC Batch Method: ASTM D2974 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 60149543001, 60149543002, 60149543003

METHOD BLANK: 1226107 Matrix: Solid
Associated Lab Samples: 60149543001, 60149543002, 60149543003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	07/26/13 00:00	

SAMPLE DUPLICATE: 1226108

Parameter	Units	60149543001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	9.3	9.3	0	20	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 075034San Juan 29-7 Unit37Conf
Pace Project No.: 60149543

QC Batch: WET/42560 Analysis Method: SW-846 7.3.4.2
QC Batch Method: SW-846 7.3.4.2 Analysis Description: Reactive Sulfide
Associated Lab Samples: 60149543002

METHOD BLANK: 1226138 Matrix: Solid
Associated Lab Samples: 60149543002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide, Reactive	mg/kg	ND	100	07/26/13 10:15	

LABORATORY CONTROL SAMPLE: 1226139

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Reactive	mg/kg	200	198	99	77-110	

MATRIX SPIKE SAMPLE: 1226140

Parameter	Units	60149543002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Reactive	mg/kg	ND	500	505	101	67-116	

SAMPLE DUPLICATE: 1226141

Parameter	Units	60149322001 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Reactive	mg/kg	ND	ND		30	

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QUALITY CONTROL DATA

Project: 075034San Juan 29-7 Unit37Conf
Pace Project No.: 60149543

QC Batch: WET/42590 Analysis Method: EPA 9045
QC Batch Method: EPA 9045 Analysis Description: 9045 pH
Associated Lab Samples: 60149543001, 60149543002

SAMPLE DUPLICATE: 1227201

Parameter	Units	60149543001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.4	8.4	0	3	

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QUALITY CONTROL DATA

Project: 075034San Juan 29-7 Unit37Conf
Pace Project No.: 60149543

QC Batch: WETA/25591
QC Batch Method: SW-846 7.3.3.2
Analysis Method: SW-846 7.3.3.2
Analysis Description: 733C Reactive Cyanide
Associated Lab Samples: 60149543002

METHOD BLANK: 1226131 Matrix: Solid
Associated Lab Samples: 60149543002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide, Reactive	mg/kg	ND	0.025	07/26/13 11:18	

LABORATORY CONTROL SAMPLE: 1226132

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide, Reactive	mg/kg	.5	0.53	106	71-123	

MATRIX SPIKE SAMPLE: 1226134

Parameter	Units	60149543002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide, Reactive	mg/kg	ND	.5	0.54	106	57-132	

SAMPLE DUPLICATE: 1226133

Parameter	Units	4081426001 Result	Dup Result	RPD	Max RPD	Qualifiers
Cyanide, Reactive	mg/kg	<0.0052	.0055J		23	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALIFIERS

Project: 075034San Juan 29-7 Unit37Conf
Pace Project No.: 60149543

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

H1	Analysis conducted outside the EPA method holding time.
H3	Sample was received or analysis requested beyond the recognized method holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
S2	Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from sample re-analysis).
S3	Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 075034San Juan 29-7 Unit37Conf
Pace Project No.: 60149543

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60149543001	**SS-075034-071713-JC-MW8R-107**	EPA 3546	OEXT/39491	EPA 8015B	GCSV/15038
60149543002	**SS-075034-071713-JC-WASTE**	EPA 3546	OEXT/39491	EPA 8015B	GCSV/15038
60149543001	**SS-075034-071713-JC-MW8R-107**	EPA 5035A/5030B	GCV/4388	EPA 8015B	GCV/4390
60149543002	**SS-075034-071713-JC-WASTE**	EPA 5035A/5030B	GCV/4388	EPA 8015B	GCV/4390
60149543002	**SS-075034-071713-JC-WASTE**	EPA 3010	MPRP/23684	EPA 6010	ICP/18578
60149543002	**SS-075034-071713-JC-WASTE**	EPA 7470	MERP/7556	EPA 7470	MERC/7514
60149543002	**SS-075034-071713-JC-WASTE**	EPA 8260	MSV/55297		
60149543001	**SS-075034-071713-JC-MW8R-107**	EPA 8260	MSV/55198		
60149543001	**SS-075034-071713-JC-MW8R-107**	EPA 8260	MSV/55218		
60149543002	**SS-075034-071713-JC-WASTE**	EPA 8260	MSV/55218		
60149543003	**TRIP BLANK**	EPA 8260	MSV/55198		
60149543001	**SS-075034-071713-JC-MW8R-107**	ASTM D2974	PMST/8748		
60149543002	**SS-075034-071713-JC-WASTE**	ASTM D2974	PMST/8748		
60149543003	**TRIP BLANK**	ASTM D2974	PMST/8748		
60149543002	**SS-075034-071713-JC-WASTE**	SW-846 7.3.4.2	WET/42560		
60149543001	**SS-075034-071713-JC-MW8R-107**	EPA 9045	WET/42590		
60149543002	**SS-075034-071713-JC-WASTE**	EPA 9045	WET/42590		
60149543002	**SS-075034-071713-JC-WASTE**	ASTM D92	WET/42558		
60149543002	**SS-075034-071713-JC-WASTE**	SW-846 7.3.3.2	WETA/25591		

Pace Analytical
www.pacelabs.com

Sample Condition Upon Receipt

WO# : 60149543

60149543

Client Name: CRA_NM

Optional
Proj Due Date:
Proj Name:

Courier: Fed Ex ☑ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other ☐

Tracking #: 7963 0460 2719 Pace Shipping Label Used? Yes ☐ No ☑

Custody Seal on Cooler/Box Present: Yes ☑ No ☐ Seals intact: Yes ☑ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☑ Foam ☐ None ☐ Other ☑ ZPLC

Thermometer Used: T-112 / T-194 **Type of Ice:** (Wet) Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 2.9

Date and initials of person examining contents: 7-25-13 BA

Temperature should be above freezing to 6°C

Chain of Custody present:	☑Yes ☐No ☐N/A	1.
Chain of Custody filled out:	☑Yes ☐No ☐N/A	2.
Chain of Custody relinquished:	☐Yes ☑No ☐N/A	3.
Sampler name & signature on COC:	☑Yes ☐No ☐N/A	4.
Samples arrived within holding time:	☑Yes ☐No ☐N/A	5.
Short Hold Time analyses (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time requested:	☐Yes ☑No ☐N/A	7.
Sufficient volume:	☑Yes ☐No ☐N/A	8.
Correct containers used:	☑Yes ☐No ☐N/A	
Pace containers used:	☑Yes ☐No ☐N/A	9.
Containers intact:	☑Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☑N/A	11.
Filtered volume received for dissolved tests?	☐Yes ☐No ☑N/A	12.
Sample labels match COC: Includes date/time/ID/analyses Matrix: SL	☑Yes ☐No ☐N/A	13.
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	14.
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☐Yes ☑No	Initial when completed / Lot # of added preservative
Trip Blank present: Pace Trip Blank lot # (if purchased):	☑Yes ☑No BA 7-25-13 ☐N/A	15.
Headspace in VOA vials (>6mm):	☐Yes ☐No ☑N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☑No ☐N/A	17. List State: NM

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: 7/25/13

Pace Analytical
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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page. 1 of 1

Section A Required Client Information		Section B Required Project Information:		Section C Invoice Information:	
Company:	CRA	Report To	Christine Mathews	Attention:	ENFOS
Address	6121 Indian School Rd NE, Ste 200	Copy To	Kelly Blanchard, Angela Bown, Cassie Brown	Company Name:	
	Albequerque, NM 87110			Address:	
Email To:	cmathews@craworld.com	Purchase Order No.:	Pending	Pace Quote Reference:	
Phone:	(505)884-0672 Fax (505)884-4932	Project Name	San Juan 29-7 Unit 37 Confirmation Drilling	Pace Project Manager:	Alice Flanagan
Requested Due Date/TAT:	standard	Project Number	075034-95	Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NM

Requested Analysis Filtered (Y/N)

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID
(A-Z, 0-9 / -)
Sample IDs MUST BE UNIQUE

ITEM #	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	8260 BTEX	8015 TPH GRO	8015 TPH DRO	pH	Reactive cyanide	Reactive sulfide	Ignitability/Corrosivity	TCLP Volatile Extraction	TCLP Semivolatile Extraction	TCLP RCRA Metals	TCLP total BTEX	Percent Moisture	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	SS-075034-071713-JC-MWER-07	G			7.17.13	1415		4	X									X	X	X	X								4WGFU 001
2	SS-075034-071713-JC-WASTE				7.17.13	1500			X									✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		6WGFU 002
3																													2VOA(TB) 003
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

6014 9543

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
				Brent Okz / PACE	7-25-13	0720	2.9	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: JOSH KARCHER

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 7-24-13

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

APPENDIX B

WASTE DISPOSAL DOCUMENTATION

ConocoPhillips

Thomas R. Wynn
Site Manager, RM&R

ConocoPhillips Company
1608-01 Phillips Building
Bartlesville, OK 74004
918.661.0310
Tom.r.wynn@conocophillips.com

December 7, 2011

CRA Associates
Attn: Mr. Phil Hurley, P.E.
2270 Springlake Road,
Suite 800
Dallas, TX 75234

RE: Disposal of wastes on behalf of ConocoPhillips Risk Management and Remediation (RM&R) Group **(updated with additional personnel)**

Mr. Hurley:

Pursuant to the current Master Services Agreement between ConocoPhillips and Conestoga-Rovers and Associates (CRA), CRA is performing certain activities related to the possible management of wastes at RM&R project sites. These activities may result in the generation of hazardous and/or non-hazardous wastes that must be appropriately managed and transported offsite to a ConocoPhillips approved waste management facility for treatment, storage or disposal in compliance with applicable state and federal regulatory requirements.

ConocoPhillips Risk Management and Remediation Group delegates the limited authority to CRA for the purpose of preparing and signing waste manifests or shipping papers, subject to the terms and conditions of this agreement and the applicable Master Service Agreement (MSA). ConocoPhillips understands and acknowledges that CRA may delegate specified authority to authorized subcontractors; however, CRA's use of subcontractors shall be governed by the applicable provisions of the MSA. Only the following Company employees of CRA are authorized to sign said documents: See Exhibit A attached. Provided CRA fulfills the requirements of the MSA and RM&R Management System Section 6.2.4 requirements for waste management, ConocoPhillips will indemnify, defend and hold harmless CRA, its officers, directors and employees from and against any and all claims, damages, losses, expenses and other liabilities arising from the rights herein granted unless CRA is negligent or willfully wrong in its signing.

The designated Contractor employee(s) shall review RM&R's Management System Section on Waste Management and follow the procedures described therein. The Contractor certifies by signing under "Agreed to" section below, that the designated Contractor employee(s) shall have all necessary training to perform this work.

Please return a signed copy of this letter to me signifying agreement with this procedure to transport wastes from ConocoPhillips sites. In addition, please upload completed manifests to the Livelink project file and verify they have been uploaded.

If you have any questions, please contact me at (918) 661 - 0310.

Sincerely,

Thomas R. Wynn
ConocoPhillips Site Manager

Agreed to:

By: _____ Position: Vice President Date: 12/8/11

File: Waste Management Authorization Letters CRA TX, NM and KS (Livelink)

Exhibit A:

List of Delegated Personnel

Kansas
Kirk Hoeffner
Ryan Bailey
Travis Kogl
Adam Vediz
Nicholas Laskares

Tulsa/OKC
Kevin Howard
Greg Barton
Mark Cox
Heather Tittjung
Matt Kaiser
Dave Kendrick
Vernon Ashworth
Justin Coons
Matt Kaiser
Greg Scheffe
Leland Hamby
Glenn St. John

Dallas
Moshghan Mansoori
Trent Ripley
Carey Neal
Barry Bates
Michael Terrell
Mike Carter
Brian Zoltowski
Jennifer Clark
Art Greeley
Phillip Lewallen
Christopher Neill
Jason Rankin

Houston
Keith Kilson
Eric Bassett
Layne Fuller
David Casida
Joe Christ
Joe Lewandowski
Nick Neill
Chris Vela

Austin
Daniel Hancock
Amanda Gruesbeck
Reese Miller
Martin Mata

Midland
Ken Horton
Desiree Crenshaw
James Ornelas
Tom Larson
Hoy Bryson

Albuquerque/Colorado
Kelly Blanchard
Christine Mathews
Cassandre Brown
Will Lambert
Jason Ploss
John (Brad) Stephenson
Paul (Matt) Burrows
Dennis McCormick
Tom Habberfield
Justin Covey
David Bonga

envirotech

Bill of Lading

MANIFEST # 44633 10079-0014

DATE 9-10-13 JOB # ~~2015-1410~~

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

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLS	COMPANY	TRK#	TIME	DRIVER SIGNATURE
1	COP SJ 29-7 Unit 37	LFII	Cont water Sill	B-22	—	7	Envirotech	631	1210	Buck
						7				

RESULTS:			LANDFARM EMPLOYEE:	NOTES:
<292	CHLORIDE TEST	1	Ron Bailey BGW	
	PAINT FILTER TEST	1	Certification of above receival & placement	ENTERED SEP 12 2013

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

TRANSPORTER CO. Envirotech NAME Buck Baldwin SIGNATURE Buck

COMPANY CONTACT Donald Ortiz PHONE 632-0615 DATE 9-10-13

Signatures required prior to distribution of the legal document.

White - Company Records, Yellow - Billing, Pink - Customer

10079-0014

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-138
Revised August 1, 2011

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

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. **Generator Name and Address:**
ConocoPhillips Company, 1380G Plaza Office Bldg., 315 Johnstone Ave., Bartlesville, OK 74004

2. **Originating Site:**
San Juan 29-7 Unit 37(5293)

3. **Location of Material (Street Address, City, State or ULSTR):**
Unit N, Section 12, T29N, R07W, Navajo City, NM 87412

4. **Source and Description of Waste:** Remediation activities at gas production site. Installation of monitoring wells. Site contaminans of concern are associated with condensate from gas production activities.

Estimated Volume 6 · yd^3 / (bbls) Known Volume (to be entered by the operator at the end of the haul) 7 yd^3 / (bbls)

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

I, Terry S. Lauck, representative or authorized agent for ConocoPhillips Company do hereby
PRINT & SIGN NAME COMPANY NAME

certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

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

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

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

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, _____, representative for ConocoPhillips Company authorize Envirotech to
Generator Signature

complete the required testing/sign the Generator Waste Testing Certification.

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

5. **Transporter: Young Environmental Services DBA Envirotech**

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: Envirotech Inc. Soil Remediation Facility #2 Permit # NM-01-0011

Address of Facility: #43 Road 7175, South of Bloomfield NM 87413

Method of Treatment and/or Disposal:

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

Waste Acceptance Status:

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

PRINT NAME: Kendra Runnung TITLE: Waste Coordinator DATE: 9/10/13

SIGNATURE: Kendra Runnung TELEPHONE NO.: (505) 632-0615
Surface Waste Management Facility Authorized Agent

FORM MUST BE COMPLETED BEFORE WASTE IS TRANSPORTED

» **UST Exemption: Complete Sections A and B, check "UST Exemption" box in Section B.**
» **E&P Exemption: Complete Sections A and B, check "E&P Exemption" box in Section B.**
» **All Others: Complete Sections A through G as appropriate.**
» **Indicate if analytical testing results are attached and status of the material in Section B.**

☒ **Repeat Waste Generation with Current and Applicable Waste Determination Form:** *If a Waste Determination Form was completed on this material within the last 3 years* and there have been no changes in material components or the process generating the material, complete Sections A and B only and file the completed form in the Livelink "Waste Management" folder for the subject site.*

Date of most recent complete Waste Determination Form on File _____

☐ **All Others:** *If a Waste Determination Form (WDF) has not been completed in the last 3 years* for the material or if the material components or the material generation process has changed since this material was last generated, complete the entire Waste Determination Form. Maintain a copy of the completed form in the Livelink "Waste Management" folder for the subject site.*

**State or local regulations may require a waste determination on a more frequent interval. PM&R uses 3 years as a maximum period.*

A. MATERIAL GENERATOR INFORMATION

1. RM&R Site No.: 5293 2. Site Name: San Juan 29-7 Unit 37 3. SIC Code: 1311
4. Site Area Name: _____ 5. Site Address: T29N, R07W, Section 12, Unit N
6. City: Navajo City 7. County: Rio Arriba 8. State: NM
9. EPA ID No.: _____ 10. State ID No.: _____ 11. Other ID: _____
12. Project Contact Name: Terry Lauck 13. Project Contact Phone No.: _____
14. Material Generation Start Date (date material is contained): 7-17-13 15. Date Form Completed: 08/26/2013

B. MATERIAL INFORMATION

1. Material Name: Non-Hazardous Soil Drums
2. Material Generation Process: Remediation activities/monitoring well installation at gas production well site
3. Specific Location of Material at the Site: On site/varies

☐ **UST Exemption:** *Petroleum contaminated media and debris that fail the test for TCLP but are managed under a Federal/State UST Corrective Action program are solid wastes that are expressly excluded from the definition of a hazardous waste (40 CFR 261.4(b)(10)). Project file has the necessary analytical data.*

☒ **E&P Exemption:** *Petroleum contaminated media and debris generated by drilling fluids, produced waters, and other wastes associated with the exploration, development or production of crude oil, natural gas or geothermal energy are solid wastes that are expressly excluded from the definition of a hazardous waste (40 CFR 261.4(b)(5). Project file has the necessary analytical data.*

Note: Materials conforming to either of the above two hazardous waste exemptions must still be managed according to RM&R non-hazardous waste procedures.

☐ Analytical testing results on material attached.

Material is: ☐ **RCRA Hazardous** ☐ **Non-RCRA Hazardous** ☒ **Non-Hazardous**

Section A and B signatures required below:

Prepared by (name and company): Jones, Lesley — Digitally signed by Jones, Lesley DN: dc=int, dc=cra, ou=CRAInc, ou=DAL, ou=Users, cn=Jones, Lesley Date: 2013.08.26 15:33:55 -05'00'

ConocoPhillips Company Representative: _____ 8/30/2013

*** Remainder of form need not be completed if the project-related waste conforms to UST or E&P Exemption criteria ***

APPENDIX C

GROUNDWATER SAMPLING FIELD FORMS

WELL SAMPLING FIELD INFORMATION FORM

ITE/PROJECT NAME: San Juan 29-7 37 JOB# 075034

SAMPLE ID: GW-075034-032613-CM-MW-1 WELL# MW-1

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	SAMPLE TIME (24 HOUR)	WATER VOL. IN CASING (GALLONS)	ACTUAL VOL. PURGED (GALLONS)
3-25-13	3-26-13	1335	2.466	7.5

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED Y (N) (CIRCLE ONE)

SAMPLING EQUIPMENT.....DEDICATED Y (N) (CIRCLE ONE)

PURGING DEVICE	A	A - SUBMERSIBLE PUMP B - PERISTALTIC PUMP	D - GAS LIFT PUMP E - PURGE PUMP	G - BAILER H - WATERRA®	X= PURGING DEVICE OTHER (SPECIFY)
SAMPLING DEVICE	A	C - BLADDER PUMP	F - DIPPER BOTTLE	X - OTHER	X= SAMPLING DEVICE OTHER (SPECIFY)
PURGING MATERIAL	B	A - TEFLON B - STAINLESS STEEL	D - PVC E - POLYETHYLENE		X= PURGING MATERIAL OTHER (SPECIFY)
SAMPLING MATERIAL	B	C - POLYPROPYLENE	X - OTHER		X= SAMPLING MATERIAL OTHER (SPECIFY)
PURGE TUBING	E	A - TEFLON B - TYGON	D - POLYPROPYLENE E - POLYETHYLENE	G - COMBINATION TEFLON/POLYPROPYLENE	X= PURGE TUBING OTHER (SPECIFY)
SAMPLING TUBING	E	C - ROPE	F - SILICONE	X - OTHER	X= SAMPLING TUBING OTHER (SPECIFY)
FILTERING DEVICES 0.45	A	A - IN-LINE DISPOSABLE	B - PRESSURE	C - VACUUM	.45 micron for metals only

FIELD MEASUREMENTS

DEPTH TO WATER 108.69 (feet) WELL ELEVATION (feet)

WELL DEPTH 124.05 (feet) GROUNDWATER ELEVATION (feet)

TEMPERATURE	pH	TDS	CONDUCTIVITY	ORP	VOLUME
16.42 (°C)	7.47 (std)	1.796 (g/L)	2764 (µS/cm)	56.1 (mV)	6.5 (gal)
16.43 (°C)	7.47 (std)	1.804 (g/L)	2776 (µS/cm)	55.6 (mV)	7.0 (gal)
16.44 (°C)	7.47 (std)	1.810 (g/L)	2784 (µS/cm)	54.9 (mV)	7.5 (gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)

FIELD COMMENTS

SAMPLE APPEARANCE: cloudy ODOR: none COLOR: ~~brown~~ clear SHEEN Y/N no

WEATHER CONDITIONS: TEMPERATURE 55° WINDY Y/N Yes PRECIPITATION Y/N (IF Y TYPE) no

SPECIFIC COMMENTS:

Initial DO mg/L = 4.36

2.466 x 3 = 7.387

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS.

3/26/13 Christine Mathews [signature]

DATE PRINT SIGNATURE

WELL SAMPLING FIELD INFORMATION FORM

SITE/PROJECT NAME: San Juan 29-7 37 **JOB#** 075034

SAMPLE ID: GW-075034-032613-CM-MW-2 **WELL#** MW-2

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	SAMPLE TIME (24 HOUR)	WATER VOL. IN CASING (GALLONS)	ACTUAL VOL. PURGED (GALLONS)
3-25-13	3-26-13	1155	2.2368	6.75

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED Y (N) (CIRCLE ONE)

SAMPLING EQUIPMENT.....DEDICATED Y (N) (CIRCLE ONE)

PURGING DEVICE	A	A - SUBMERSIBLE PUMP B - PERISTALTIC PUMP	D - GAS LIFT PUMP E - PURGE PUMP	G - BAILER H - WATERRA®	X= PURGING DEVICE OTHER (SPECIFY)
SAMPLING DEVICE	A	C - BLADDER PUMP	F - DIPPER BOTTLE	X - OTHER	X= SAMPLING DEVICE OTHER (SPECIFY)
PURGING MATERIAL	B	A - TEFLON B - STAINLESS STEEL	D - PVC E - POLYETHYLENE		X= PURGING MATERIAL OTHER (SPECIFY)
SAMPLING MATERIAL	B	C - POLYPROPYLENE	X - OTHER		X= SAMPLING MATERIAL OTHER (SPECIFY)
PURGE TUBING	E	A - TEFLON B - TYGON	D - POLYPROPYLENE E - POLYETHYLENE	G - COMBINATION TEFLON/POLYPROPYLENE	X= PURGE TUBING OTHER (SPECIFY)
SAMPLING TUBING	E	C - ROPE	F - SILICONE	X - OTHER	X= SAMPLING TUBING OTHER (SPECIFY)
FILTERING DEVICES 0.45	A	A - IN-LINE DISPOSABLE	B - PRESSURE	C - VACUUM	.45 ~~for microns for~~ metals only

FIELD MEASUREMENTS

DEPTH TO WATER 109.12 (feet) WELL ELEVATION (feet)

WELL DEPTH 120.81 (feet) GROUNDWATER ELEVATION (feet)

TEMPERATURE	pH	TDS	CONDUCTIVITY	ORP	VOLUME
15.32 (°C)	6.95 (std)	1.942 (g/L)	2988 (µS/cm)	67.5 (mV)	5.75 (gal)
15.33 (°C)	6.95 (std)	1.942 (g/L)	2988 (µS/cm)	62.3 (mV)	6.25 (gal)
15.29 (°C)	6.95 (std)	1.943 (g/L)	2990 (µS/cm)	61.9 (mV)	6.75 (gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)

FIELD COMMENTS

SAMPLE APPEARANCE: cloudy ODOR: none COLOR: brown SHEEN Y/N no

WEATHER CONDITIONS: TEMPERATURE 55° WINDY Y/N no PRECIPITATION Y/N (IF Y TYPE) no

SPECIFIC COMMENTS:

Initial DO mg/L = 4.35

2.2368 x 3 = 6.7104

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

3/26/13 DATE | Christine Mathews PRINT | Christine Mathews SIGNATURE

WELL SAMPLING FIELD INFORMATION FORM

SITE/PROJECT NAME: San Juan 29-7 37 **JOB#** 075034

SAMPLE ID: GW-075034-032613-CM-MW-3 **WELL#** MW-3

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	SAMPLE TIME (24 HOUR)	WATER VOL. IN CASING (GALLONS)	ACTUAL VOL. PURGED (GALLONS)
3-25-13	3-26-13	1225	2.6032	8.0

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED Y (N) (CIRCLE ONE)

SAMPLING EQUIPMENT.....DEDICATED Y (N) (CIRCLE ONE)

PURGING DEVICE	A	A - SUBMERSIBLE PUMP B - PERISTALTIC PUMP	D - GAS LIFT PUMP E - PURGE PUMP	G - BAILER H - WATERRA®	X= PURGING DEVICE OTHER (SPECIFY)
SAMPLING DEVICE	A	C - BLADDER PUMP	F - DIPPER BOTTLE	X - OTHER	X= SAMPLING DEVICE OTHER (SPECIFY)
PURGING MATERIAL	B	A - TEFLON B - STAINLESS STEEL	D - PVC E - POLYETHYLENE		X= PURGING MATERIAL OTHER (SPECIFY)
SAMPLING MATERIAL	B	C - POLYPROPYLENE	X - OTHER		X= SAMPLING MATERIAL OTHER (SPECIFY)
PURGE TUBING	E	A - TEFLON B - TYGON	D - POLYPROPYLENE E - POLYETHYLENE	G - COMBINATION TEFLON/POLYPROPYLENE	X= PURGE TUBING OTHER (SPECIFY)
SAMPLING TUBING	E	C - ROPE	F - SILICONE	X - OTHER	X= SAMPLING TUBING OTHER (SPECIFY)
FILTERING DEVICES 0.45	A	A - IN-LINE DISPOSABLE	B - PRESSURE	C - VACUUM	.45 micron for metals only

FIELD MEASUREMENTS

DEPTH TO WATER 109.33 (feet) WELL ELEVATION (feet)

WELL DEPTH 122.19 (feet) GROUNDWATER ELEVATION (feet)

TEMPERATURE	pH	TDS	CONDUCTIVITY	ORP	VOLUME	DO
16.68 (°C)	7.03 (std)	1.844 (g/L)	2837 (µS/cm)	-90.9 (mV)	7.0 (gal)	1.47
16.52 (°C)	7.03 (std)	1.848 (g/L)	2843 (µS/cm)	-89.0 (mV)	7.5 (gal)	1.44
16.47 (°C)	7.00 (std)	1.847 (g/L)	2842 (µS/cm)	-85.3 (mV)	8.0 (gal)	1.42
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)	
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)	

FIELD COMMENTS

SAMPLE APPEARANCE: cloudy ODOR: none COLOR: brown SHEEN Y/N no

WEATHER CONDITIONS: TEMPERATURE 55° WINDY Y/N yes PRECIPITATION Y/N (IF Y TYPE) no

SPECIFIC COMMENTS:

Initial DO mg/L = 3.10

2.6032 x 3 = 7.8096

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

3/26/13 (DATE) Christine Mathews (PRINT) (SIGNATURE)

WELL SAMPLING FIELD INFORMATION FORM

ITE/PROJECT NAME: San Juan 29-7-37 JOB# 070934

SAMPLE ID: GW-070534-032613-CM-MW-4 WELL# MW-4

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	SAMPLE TIME (24 HOUR)	WATER VOL. IN CASING (GALLONS)	ACTUAL VOL. PURGED (GALLONS)
3-25-13	3-26-13	0955	2.4272	7.5

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED Y (N) (CIRCLE ONE)

SAMPLING EQUIPMENT.....DEDICATED Y (N) (CIRCLE ONE)

PURGING DEVICE	A	A - SUBMERSIBLE PUMP B - PERISTALTIC PUMP	D - GAS LIFT PUMP E - PURGE PUMP	G - BAILER H - WATERRA®	X= PURGING DEVICE OTHER (SPECIFY)
SAMPLING DEVICE	A	C - BLADDER PUMP	F - DIPPER BOTTLE	X - OTHER	X= SAMPLING DEVICE OTHER (SPECIFY)
PURGING MATERIAL	B	A - TEFLON B - STAINLESS STEEL	D - PVC E - POLYETHYLENE		X= PURGING MATERIAL OTHER (SPECIFY)
SAMPLING MATERIAL	B	C - POLYPROPYLENE	X - OTHER		X= SAMPLING MATERIAL OTHER (SPECIFY)
PURGE TUBING	E	A - TEFLON B - TYGON	D - POLYPROPYLENE E - POLYETHYLENE	G - COMBINATION TEFLON/POLYPROPYLENE	X= PURGE TUBING OTHER (SPECIFY)
SAMPLING TUBING	E	C - ROPE	F - SILICONE	X - OTHER	X= SAMPLING TUBING OTHER (SPECIFY)
FILTERING DEVICES 0.45	A	A - IN-LINE DISPOSABLE	B - PRESSURE	C - VACUUM	.45 micron for metals only

FIELD MEASUREMENTS

DEPTH TO WATER ( ) (feet) WELL ELEVATION ( ) (feet)

WELL DEPTH ( ) (feet) GROUNDWATER ELEVATION ( ) (feet)

TEMPERATURE	pH	TDS	CONDUCTIVITY	ORP	VOLUME
15.07 (°C)	7.40 (std)	1.819 (g/L)	2796 (µS/cm)	50.6 (mV)	6.5 (gal)
15.14 (°C)	7.40 (std)	1.818 (g/L)	2798 (µS/cm)	51.1 (mV)	7.0 (gal)
15.25 (°C)	7.42 (std)	1.816 (g/L)	2794 (µS/cm)	51.8 (mV)	7.5 (gal)
( ) (°C)	( ) (std)	( ) (g/L)	( ) (µS/cm)	( ) (mV)	( ) (gal)
( ) (°C)	( ) (std)	( ) (g/L)	( ) (µS/cm)	( ) (mV)	( ) (gal)

FIELD COMMENTS

SAMPLE APPEARANCE: cloudy ODOR: none COLOR: brown SHEEN Y/N no

WEATHER CONDITIONS: TEMPERATURE 55° WINDY Y/N no PRECIPITATION Y/N (IF Y TYPE) no

SPECIFIC COMMENTS:

Initial DO mg/L = 3.32 ~~AM~~

2.4272 x 3 = 7.2816

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

DATE	PRINT	SIGNATURE
3/26/13	Christine Mathews	Christine Mathews

WELL SAMPLING FIELD INFORMATION FORM

ITE/PROJECT NAME: San Juan 29-7 37 JOB# 075034

SAMPLE ID: GW-075034-032613-CM-MW-5 WELL# MW-5

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	SAMPLE TIME (24 HOUR)	WATER VOL. IN CASING (GALLONS)	ACTUAL VOL. PURGED (GALLONS)
3-25-13	3-26-13	1100	2.1728	5.25

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED Y (N) (CIRCLE ONE)

SAMPLING EQUIPMENT.....DEDICATED Y (N) (CIRCLE ONE)

PURGING DEVICE	A	A - SUBMERSIBLE PUMP	D - GAS LIFT PUMP	G - BAILER	X= PURGING DEVICE OTHER (SPECIFY)
		B - PERISTALTIC PUMP	E - PURGE PUMP	H - WATERRA®	
SAMPLING DEVICE	A	C - BLADDER PUMP	F - DIPPER BOTTLE	X - OTHER	X= SAMPLING DEVICE OTHER (SPECIFY)
PURGING MATERIAL	B	A - TEFLON	D - PVC		X= PURGING MATERIAL OTHER (SPECIFY)
		B - STAINLESS STEEL	E - POLYETHYLENE		
SAMPLING MATERIAL	B	C - POLYPROPYLENE	X - OTHER		X= SAMPLING MATERIAL OTHER (SPECIFY)
PURGE TUBING	E	A - TEFLON	D - POLYPROPYLENE	G - COMBINATION TEFLON/POLYPROPYLENE	X= PURGE TUBING OTHER (SPECIFY)
		B - TYGON	E - POLYETHYLENE		
SAMPLING TUBING	E	C - ROPE	F - SILICONE	X - OTHER	X= SAMPLING TUBING OTHER (SPECIFY)
FILTERING DEVICES 0.45	A	A - IN-LINE DISPOSABLE	B - PRESSURE	C - VACUUM	.45 for metals only

FIELD MEASUREMENTS

DEPTH TO WATER 108.72 (feet) WELL ELEVATION (feet)

WELL DEPTH 120.79 (feet) GROUNDWATER ELEVATION (feet)

TEMPERATURE	pH	TDS	CONDUCTIVITY	ORP	VOLUME	DO
15.38 (°C)	7.27 (std)	2.172 (g/L)	3344 (µS/cm)	30.7 (mV)	4.25 (gal)	21.14
15.51 (°C)	7.17 (std)	2.183 (g/L)	3359 (µS/cm)	34.6 (mV)	4.75 (gal)	16.16
15.66 (°C)	7.11 (std)	2.188 (g/L)	3367 (µS/cm)	38.7 (mV)	5.25 (gal)	13.39
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)	
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)	

FIELD COMMENTS

SAMPLE APPEARANCE: Cloudy ODOR: None COLOR: brown SHEEN Y/N no

WEATHER CONDITIONS: TEMPERATURE 55 WINDY Y/N no PRECIPITATION Y/N (IF Y TYPE) no

SPECIFIC COMMENTS: Well purged dry on 3/25/13 @ 4 gallons

2.1728 x 3 = 6.5184

initial DO mg/L = 5.00

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

3/26/13 DATE | Christine Mathews PRINT | Christine Mathews SIGNATURE

WELL SAMPLING FIELD INFORMATION FORM

ITE/PROJECT NAME: San Juan 29-7 87 **JOB#** 075034

SAMPLE ID: GW-075034-032613-CM-MW-6 **WELL#** MW-6

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	SAMPLE TIME (24 HOUR)	WATER VOL. IN CASING (GALLONS)	ACTUAL VOL. PURGED (GALLONS)
3-25-13	3-26-13	1250	1.8416	5.75

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED Y (N) (CIRCLE ONE)

SAMPLING EQUIPMENT.....DEDICATED Y (N) (CIRCLE ONE)

PURGING DEVICE	A	A - SUBMERSIBLE PUMP	D - GAS LIFT PUMP	G - BAILER	X= PURGING DEVICE OTHER (SPECIFY)
		B - PERISTALTIC PUMP	E - PURGE PUMP	H - WATERRA®	
SAMPLING DEVICE	A	C - BLADDER PUMP	F - DIPPER BOTTLE	X - OTHER	X= SAMPLING DEVICE OTHER (SPECIFY)
PURGING MATERIAL	B	A - TEFLON	D - PVC		X= PURGING MATERIAL OTHER (SPECIFY)
		B - STAINLESS STEEL	E - POLYETHYLENE		
SAMPLING MATERIAL	B	C - POLYPROPYLENE	X - OTHER		X= SAMPLING MATERIAL OTHER (SPECIFY)
PURGE TUBING	E	A - TEFLON	D - POLYPROPYLENE	G - COMBINATION TEFLON/POLYPROPYLENE	X= PURGE TUBING OTHER (SPECIFY)
		B - TYGON	E - POLYETHYLENE		
SAMPLING TUBING	E	C - ROPE	F - SILICONE	X - OTHER	X= SAMPLING TUBING OTHER (SPECIFY)
FILTERING DEVICES 0.45	A	A - IN-LINE DISPOSABLE	B - PRESSURE	C - VACUUM	.45 micron for metals only

FIELD MEASUREMENTS

DEPTH TO WATER 109.09 (feet) WELL ELEVATION (feet)

WELL DEPTH 116.96 (feet) GROUNDWATER ELEVATION (feet)

TEMPERATURE	pH	TDS	CONDUCTIVITY	ORP	VOLUME
16.53 (°C)	6.96 (std)	1.578 (g/L)	2427 (µS/cm)	69.5 (mV)	4.75 (gal)
16.46 (°C)	6.97 (std)	1.574 (g/L)	2421 (µS/cm)	69.5 (mV)	5.25 (gal)
16.52 (°C)	6.97 (std)	1.572 (g/L)	2416 (µS/cm)	69.9 (mV)	5.75 (gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)

FIELD COMMENTS

SAMPLE APPEARANCE: Cloudy ODOR: none COLOR: brown SHEEN Y/N no

WEATHER CONDITIONS: TEMPERATURE 55° WINDY Y/N yes PRECIPITATION Y/N (IF Y TYPE) no

SPECIFIC COMMENTS:

Initial DO mg/L = 4.01 Duplicate Collected @ 1255

1.8416 x 3 = 5.5248

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

3/26/13 Christine Mathews [signature]

DATE PRINT SIGNATURE

WELL SAMPLING FIELD INFORMATION FORM

SITE/PROJECT NAME: San Juan 29-7 37 JOB# 075034

SAMPLE ID: GW-075034-032613-(M-MW)-7 WELL# MW-7

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	SAMPLE TIME (24 HOUR)	WATER VOL. IN CASING (GALLONS)	ACTUAL VOL. PURGED (GALLONS)
3.25.13	3.26.13	1030	2.6336	8.0

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED Y (N) (CIRCLE ONE)

SAMPLING EQUIPMENT.....DEDICATED Y (N) (CIRCLE ONE)

PURGING DEVICE	A	A - SUBMERSIBLE PUMP B - PERISTALTIC PUMP	D - GAS LIFT PUMP E - PURGE PUMP	G - BAILER H - WATERRA®	X= PURGING DEVICE OTHER (SPECIFY)
SAMPLING DEVICE	A	C - BLADDER PUMP	F - DIPPER BOTTLE	X - OTHER	X= SAMPLING DEVICE OTHER (SPECIFY)
PURGING MATERIAL	B	A - TEFLON B - STAINLESS STEEL	D - PVC E - POLYETHYLENE		X= PURGING MATERIAL OTHER (SPECIFY)
SAMPLING MATERIAL	B	C - POLYPROPYLENE	X - OTHER		X= SAMPLING MATERIAL OTHER (SPECIFY)
PURGE TUBING	E	A - TEFLON B - TYGON	D - POLYPROPYLENE E - POLYETHYLENE	G - COMBINATION TEFLON/POLYPROPYLENE	X= PURGE TUBING OTHER (SPECIFY)
SAMPLING TUBING	E	C - ROPE	F - SILICONE	X - OTHER	X= SAMPLING TUBING OTHER (SPECIFY)
FILTERING DEVICES 0.45	A	A - IN-LINE DISPOSABLE	B - PRESSURE	C - VACUUM	.45 micron for metals only

FIELD MEASUREMENTS

DEPTH TO WATER 108.24 (feet) WELL ELEVATION (feet)

WELL DEPTH 125.81 (feet) GROUNDWATER ELEVATION (feet)

TEMPERATURE	pH	TDS	CONDUCTIVITY	ORP	VOLUME	DO
17.16 (°C)	11.14 (std)	2.293 (g/L)	3526 (µS/cm)	-50.9 (mV)	7.0 (gal)	15.43
17.04 (°C)	11.13 (std)	2.285 (g/L)	3515 (µS/cm)	-47.7 (mV)	7.5 (gal)	15.61
16.69 (°C)	11.22 (std)	2.299 (g/L)	3537 (µS/cm)	-49.0 (mV)	8.0 (gal)	
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)	
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)	

FIELD COMMENTS

SAMPLE APPEARANCE: cloudy ODOR: none COLOR: clear SHEEN Y/N no

WEATHER CONDITIONS: TEMPERATURE 55° WINDY Y/N no PRECIPITATION Y/N (IF Y TYPE) no

SPECIFIC COMMENTS:

Initial DO mg/L = 22.01

2.6336 X 3 = 7.9008

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

3/26/13 Christine Mathews [signature]

DATE PRINT SIGNATURE

WELL SAMPLING FIELD INFORMATION FORM

SITE/PROJECT NAME: San Juan 29-7 #37 JOB# 075034
SAMPLE ID: SV-075034-061113-SK-MW1 WELL# MW-1
~~GW-075034~~

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	SAMPLE TIME (24 HOUR)	WATER VOL. IN CASING (GALLONS)	ACTUAL VOL. PURGED (GALLONS)
6/10/13	6/11/13	~~1300~~ CK 0845	2,23	7,0

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED Y (N) (CIRCLE ONE)
SAMPLING EQUIPMENT.....DEDICATED Y (N) (CIRCLE ONE)

PURGING DEVICE	A	A - SUBMERSIBLE PUMP	D - GAS LIFT PUMP	G - BAILER	X= PURGING DEVICE OTHER (SPECIFY)
SAMPLING DEVICE	A	B - PERISTALTIC PUMP C - BLADDER PUMP	E - PURGE PUMP F - DIPPER BOTTLE	H - WATERRA® X - OTHER	X= SAMPLING DEVICE OTHER (SPECIFY)
PURGING MATERIAL	B	A - TEFLON	D - PVC		X= PURGING MATERIAL OTHER (SPECIFY)
SAMPLING MATERIAL	B	B - STAINLESS STEEL C - POLYPROPYLENE	E - POLYETHYLENE X - OTHER		X= SAMPLING MATERIAL OTHER (SPECIFY)
PURGE TUBING	E	A - TEFLON	D - POLYPROPYLENE	G - COMBINATION TEFLON/POLYPROPYLENE	X= PURGE TUBING OTHER (SPECIFY)
SAMPLING TUBING	E	B - TYGON C - ROPE	E - POLYETHYLENE F - SILICONE	X - OTHER	X= SAMPLING TUBING OTHER (SPECIFY)
FILTERING DEVICES 0.45	A	A - IN-LINE DISPOSABLE	B - PRESSURE		

FIELD MEASUREMENTS

DEPTH TO WATER 108.81 (feet) WELL ELEVATION (feet)
WELL DEPTH 122,75 (feet) GROUNDWATER ELEVATION (feet)

TEMPERATURE	pH	TDS	SC	DO	ORP	VOLUME
16,37 (°C)	7,79 (std)	1,848 (g/L)	2846 (µS/cm)	0,53 (mg/L)	96,1 (mV)	2,5 (gal)
16,31 (°C)	7,67 (std)	1,870 (g/L)	2922 (µS/cm)	0,43 (mg/L)	100,8 (mV)	4,5 (gal)
16,24 (°C)	7,53 (std)	1,891 (g/L)	2909 (µS/cm)	0,38 (mg/L)	103,3 (mV)	6,5 (gal)
(°C)	(std)	(g/L)	(µS/cm)	(mg/L)	(mV)	(gal)
(°C)	(std)	(g/L)	(µS/cm)	(mg/L)	(mV)	(gal)

FIELD COMMENTS

SAMPLE APPEARANCE: Silty ODOR: None COLOR: Tan SHEEN Y/N N
WEATHER CONDITIONS: TEMPERATURE 48 WINDY Y/N PRECIPITATION Y/N (IF Y TYPE) N
SPECIFIC COMMENTS:
13,94 X .16 = 2,23 X 3 = 6,69 DUP COLLECTED
DO = 2,21

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

DATE PRINT SIGNATURE

WELL SAMPLING FIELD INFORMATION FORM

SITE/PROJECT NAME: San Juan 29-7 #87 JOB# 075034
SAMPLE ID: GW-075034-061113-SK-MW2 WELL# MW-2

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	SAMPLE TIME (24 HOUR)	WATER VOL IN CASING (GALLONS)	ACTUAL VOL PURGED (GALLONS)
6/10/13	6/11/13	~~1358~~ CK 1020	1.75	5.0

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED Y (N) (CIRCLE ONE)

SAMPLING EQUIPMENT.....DEDICATED Y (N) (CIRCLE ONE)

PURGING DEVICE	A	A - SUBMERSIBLE PUMP	D - GAS LIFT PUMP	G - BAILER	X= PURGING DEVICE OTHER (SPECIFY)
		B - PERISTALTIC PUMP	E - PURGE PUMP	H - WATERRA®	
SAMPLING DEVICE	A	C - BLADDER PUMP	F - DIPPER BOTTLE	X - OTHER	X= SAMPLING DEVICE OTHER (SPECIFY)
PURGING MATERIAL	E	A - TEFLON	D - PVC		X= PURGING MATERIAL OTHER (SPECIFY)
		B - STAINLESS STEEL	E - POLYETHYLENE		
SAMPLING MATERIAL	E	C - POLYPROPYLENE	X - OTHER		X= SAMPLING MATERIAL OTHER (SPECIFY)
PURGE TUBING	E	A - TEFLON	D - POLYPROPYLENE	G - COMBINATION TEFLON/POLYPROPYLENE	X= PURGE TUBING OTHER (SPECIFY)
		B - TYGON	E - POLYETHYLENE		
SAMPLING TUBING	C	C - ROPE	F - SILICONE	X - OTHER	X= SAMPLING TUBING OTHER (SPECIFY)
FILTERING DEVICES 0.45	A	A - IN-LINE DISPOSABLE	B - PRESSURE		

FIELD MEASUREMENTS

DEPTH TO WATER 109.32 (feet) WELL ELEVATION (feet)

WELL DEPTH 120.30 (feet) GROUNDWATER ELEVATION (feet)

TEMPERATURE	pH	TDS	SC	DO	ORP	VOLUME
15.58 (°C)	7.26 (std)	2.036 (g/L)	3131 (µS/cm)	5.82 (mg/L)	109.2 (mV)	1.5 (gal)
15.20 (°C)	7.04 (std)	2.034 (g/L)	3130 (µS/cm)	5.91 (mg/L)	112.9 (mV)	3.0 (gal)
15.16 (°C)	6.85 (std)	2.041 (g/L)	3140 (µS/cm)	5.83 (mg/L)	121.6 (mV)	5.0 (gal)
(°C)	(std)	(g/L)	(µS/cm)	(mg/L)	(mV)	(gal)
(°C)	(std)	(g/L)	(µS/cm)	(mg/L)	(mV)	(gal)

FIELD COMMENTS

SAMPLE APPEARANCE: Hazy ODOR: None COLOR: Tan/Brown SHEEN Y/N No

WEATHER CONDITIONS: TEMPERATURE 98 WINDY Y/N Y PRECIPITATION Y/N (IF Y TYPE) N

SPECIFIC COMMENTS:

10.98 x .16 = 1.75 = 5.27

DO = 7.89

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

DATE PRINT SIGNATURE

WELL SAMPLING FIELD INFORMATION FORM

SITE/PROJECT NAME: San Juan 29-7 #37 JOB# 075034
SAMPLE ID: GW-075034-061113-SK-MW3 WELL# ~~MW~~ MW-3

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	SAMPLE TIME (24 HOUR)	WATER VOL. IN CASING (GALLONS)	ACTUAL VOL. PURGED (GALLONS)
6/10/13	6/11/13	~~1350~~ CK 1048	1.8225	5.5

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)
SAMPLING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

PURGING DEVICE	A	A - SUBMERSIBLE PUMP B - PERISTALTIC PUMP	D - GAS LIFT PUMP E - PURGE PUMP	G - BAILER H - WATERRA®	X= PURGING DEVICE OTHER (SPECIFY)
SAMPLING DEVICE	A	C - BLADDER PUMP	F - DIPPER BOTTLE	X - OTHER	X= SAMPLING DEVICE OTHER (SPECIFY)
PURGING MATERIAL	C	A - TEFLON B - STAINLESS STEEL	D - PVC E - POLYETHYLENE		X= PURGING MATERIAL OTHER (SPECIFY)
SAMPLING MATERIAL	C	C - POLYPROPYLENE	X - OTHER		X= SAMPLING MATERIAL OTHER (SPECIFY)
PURGE TUBING	E	A - TEFLON B - TYGON	D - POLYPROPYLENE E - POLYETHYLENE	G - COMBINATION TEFLON/POLYPROPYLENE	X= PURGE TUBING OTHER (SPECIFY)
SAMPLING TUBING	E	C - ROPE	F - SILICONE	X - OTHER	X= SAMPLING TUBING OTHER (SPECIFY)
FILTERING DEVICES 0.45	A	A - IN-LINE DISPOSABLE	B - PRESSURE		

FIELD MEASUREMENTS

DEPTH TO WATER ~~108~~ 109.91 (feet) WELL ELEVATION _____ (feet)
WELL DEPTH 121.54 (feet) GROUNDWATER ELEVATION _____ (feet)

TEMPERATURE	pH	TDS	SC	DO	ORP	VOLUME
16.49 (°C)	7.25 (std)	1.888 (g/L)	2783 (µS/cm)	2.67 (mg/L)	-16.9 (mV)	2.0 (gal)
16.41 (°C)	7.07 (std)	1.847 (g/L)	2843 (µS/cm)	2.73 (mg/L)	-95.1 (mV)	3.0 (gal)
16.32 (°C)	6.95 (std)	1.889 (g/L)	2908 (µS/cm)	2.84 (mg/L)	-70.3 (mV)	4.0 (gal)
16.25 (°C)	6.90 (std)	1.897 (g/L)	2919 (µS/cm)	2.85 (mg/L)	-61.9 (mV)	5.0 (gal)
(°C)	(std)	(g/L)	(µS/cm)	(mg/L)	(mV)	(gal)

FIELD COMMENTS

SAMPLE APPEARANCE: gy hy ODOR: NO COLOR: tan SHEEN Y/N N
WEATHER CONDITIONS: TEMPERATURE 40s WINDY Y/N Y PRECIPITATION Y/N (IF Y TYPE) N
SPECIFIC COMMENTS:
12.15 x .15 x 3 = 5.46
DO - 2.38

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

DATE PRINT SIGNATURE

WELL SAMPLING FIELD INFORMATION FORM

SITE/PROJECT NAME: San Juan 29-7 #357 JOB# 075034

SAMPLE ID: GW-075034-061113-SK-MW-4 WELL# MW-4

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	SAMPLE TIME (24 HOUR)	WATER VOL. IN CASING (GALLONS)	ACTUAL VOL. PURGED (GALLONS)
6/10/13	6/11/13	1112	1.89	6

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED Y (N) (CIRCLE ONE)

SAMPLING EQUIPMENT.....DEDICATED Y (N) (CIRCLE ONE)

PURGING DEVICE	A	A - SUBMERSIBLE PUMP B - PERISTALTIC PUMP	D - GAS LIFT PUMP E - PURGE PUMP	G - BAILER H - WATERRA®
SAMPLING DEVICE	A	C - BLADDER PUMP	F - DIPPER BOTTLE	X - OTHER
PURGING MATERIAL	B	A - TEFLON B - STAINLESS STEEL	D - PVC E - POLYETHYLENE	
SAMPLING MATERIAL	B	C - POLYPROPYLENE	X - OTHER	
PURGE TUBING	E	A - TEFLON B - TYGON	D - POLYPROPYLENE E - POLYETHYLENE	G - COMBINATION TEFLON/POLYPROPYLENE
SAMPLING TUBING	E	C - ROPE	F - SILICONE	X - OTHER
FILTERING DEVICES 0.45	A	A - IN-LINE DISPOSABLE	B - PRESSURE	

X= _____ PURGING DEVICE OTHER (SPECIFY)

X= _____ SAMPLING DEVICE OTHER (SPECIFY)

X= _____ PURGING MATERIAL OTHER (SPECIFY)

X= _____ SAMPLING MATERIAL OTHER (SPECIFY)

X= _____ PURGE TUBING OTHER (SPECIFY)

X= _____ SAMPLING TUBING OTHER (SPECIFY)

FIELD MEASUREMENTS

DEPTH TO WATER 111.41 (feet) WELL ELEVATION _____ (feet)

WELL DEPTH 123.24 (feet) GROUNDWATER ELEVATION _____ (feet)

TEMPERATURE	pH	TDS	SC	DO	ORP	VOLUME
14.98 (°C)	8.19 (std)	1.903 (g/L)	2926 (µS/cm)	0.18 (mg/L)	109.9 (mV)	2 (gal)
14.74 (°C)	7.97 (std)	1.898 (g/L)	2920 (µS/cm)	0.23 (mg/L)	109.3 (mV)	4 (gal)
14.69 (°C)	7.73 (std)	1898 (g/L)	2920 (µS/cm)	0.13 (mg/L)	105.2 (mV)	5.5 (gal)
(°C)	(std)	(g/L)	(µS/cm)	(mg/L)	(mV)	(gal)
(°C)	(std)	(g/L)	(µS/cm)	(mg/L)	(mV)	(gal)

FIELD COMMENTS

SAMPLE APPEARANCE: Slight ODOR: None COLOR: Brown SHEEN Y/N N

WEATHER CONDITIONS: TEMPERATURE 98 WINDY Y/N N PRECIPITATION Y/N (IF Y TYPE) N

SPECIFIC COMMENTS:

1.89 x 3 = 5.67

DO = 0.36

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

DATE PRINT SIGNATURE

WELL SAMPLING FIELD INFORMATION FORM

SITE/PROJECT NAME: San Juan 261-7 #37 JOB# 075039
SAMPLE ID: SW-075039-061113-SK-MW5 WELL# MW #5

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	SAMPLE TIME (24 HOUR)	WATER VOL. IN CASING (GALLONS)	ACTUAL VOL. PURGED (GALLONS)
6/10/13	6/11/13	1140	1.69	5.0

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED Y (N) (CIRCLE ONE)
SAMPLING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

PURGING DEVICE	A	A - SUBMERSIBLE PUMP	D - GAS LIFT PUMP	G - BAILER	X= PURGING DEVICE OTHER (SPECIFY)
		B - PERISTALTIC PUMP	E - PURGE PUMP	H - WATERRA®	
SAMPLING DEVICE		C - BLADDER PUMP	F - DIPPER BOTTLE	X - OTHER	X= SAMPLING DEVICE OTHER (SPECIFY)
PURGING MATERIAL	A	A - TEFLON	D - PVC		X= PURGING MATERIAL OTHER (SPECIFY)
		B - STAINLESS STEEL	E - POLYETHYLENE		
SAMPLING MATERIAL		C - POLYPROPYLENE	X - OTHER		X= SAMPLING MATERIAL OTHER (SPECIFY)
PURGE TUBING	E	A - TEFLON	D - POLYPROPYLENE	G - COMBINATION TEFLON/POLYPROPYLENE	X= PURGE TUBING OTHER (SPECIFY)
		B - TYGON	E - POLYETHYLENE		
SAMPLING TUBING		C - ROPE	F - SILICONE	X - OTHER	X= SAMPLING TUBING OTHER (SPECIFY)
FILTERING DEVICES 0.45	A	A - IN-LINE DISPOSABLE	B - PRESSURE		

FIELD MEASUREMENTS

DEPTH TO WATER 108.56 (feet) WELL ELEVATION (feet)
WELL DEPTH 119.84 (feet) GROUNDWATER ELEVATION (feet)
11.28 FT

TEMPERATURE	pH	TDS	SC	DO	ORP	VOLUME
16.76 (°C)	6.80 (std)	2,309 (g/L)	3,415 (µS/cm)	2.80 (mg/L)	123.6 (mV)	1.5 (gal)
16.71 (°C)	6.24 (std)	2,371 (g/L)	3047 (µS/cm)	2.67 (mg/L)	128.5 (mV)	2.5 (gal)
16.63 (°C)	6.32 (std)	2,371 (g/L)	3648 (µS/cm)	2.84 (mg/L)	126.2 (mV)	3.5 (gal)
16.64 (°C)	6.33 (std)	2,360 (g/L)	3040 (µS/cm)	2.72 (mg/L)	111.7 (mV)	5.0 (gal)
(°C)	(std)	(g/L)	(µS/cm)	(mg/L)	(mV)	(gal)

FIELD COMMENTS

SAMPLE APPEARANCE: silty ODOR: None COLOR: tan SHEEN Y/N NO
WEATHER CONDITIONS: TEMPERATURE 98 WINDY Y/N Y PRECIPITATION Y/N (IF Y TYPE) N
SPECIFIC COMMENTS:

DO 5.40
DO 48.2

1.69 x 3 = 5.07

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

DATE PRINT SIGNATURE

WELL SAMPLING FIELD INFORMATION FORM

SITE/PROJECT NAME: San Juan 29-7 #37 JOB# ~~MW-6~~ 075034

SAMPLE ID: GW-075034-061113-JK-MW6 WELL# ~~MW-6~~

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	SAMPLE TIME (24 HOUR)	WATER VOL. IN CASING (GALLONS)	ACTUAL VOL. PURGED (GALLONS)
6/10/13	6/11/13	1215	1.39	5

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED Y (N) (CIRCLE ONE)

SAMPLING EQUIPMENT.....DEDICATED Y (N) (CIRCLE ONE)

PURGING DEVICE: A

SAMPLING DEVICE: A

A - SUBMERSIBLE PUMP; B - PERISTALTIC PUMP; C - BLADDER PUMP; D - GAS LIFT PUMP; E - PURGE PUMP; F - DIPPER BOTTLE; G - BAILER; H - WATERRA®; X - OTHER

X= PURGING DEVICE OTHER (SPECIFY)

X= SAMPLING DEVICE OTHER (SPECIFY)

PURGING MATERIAL: A

SAMPLING MATERIAL: A

A - TEFLON; B - STAINLESS STEEL; C - POLYPROPYLENE; D - PVC; E - POLYETHYLENE; X - OTHER

X= PURGING MATERIAL OTHER (SPECIFY)

X= SAMPLING MATERIAL OTHER (SPECIFY)

PURGE TUBING: A

SAMPLING TUBING: A

A - TEFLON; B - TYGON; C - ROPE; D - POLYPROPYLENE; E - POLYETHYLENE; F - SILICONE; G - COMBINATION TEFLON/POLYPROPYLENE; X - OTHER

X= PURGE TUBING OTHER (SPECIFY)

X= SAMPLING TUBING OTHER (SPECIFY)

FILTERING DEVICES 0.45: A

A - IN-LINE DISPOSABLE; B - PRESSURE

FIELD MEASUREMENTS

DEPTH TO WATER 108.25 (feet) WELL ELEVATION (feet)

WELL DEPTH 116.90 (feet) GROUNDWATER ELEVATION (feet)

TEMPERATURE	pH	TDS	SC	DO	ORP	VOLUME
16.54 (°C)	7.30 (std)	1.688 (g/L)	2590 (µS/cm)	0.62 (mg/L)	103.3 (mV)	2 (gal)
16.32 (°C)	7.13 (std)	1.682 (g/L)	2587 (µS/cm)	0.51 (mg/L)	109.1 (mV)	3 (gal)
16.20 (°C)	7.04 (std)	1.671 (g/L)	2570 (µS/cm)	1.90 (mg/L)	114.8 (mV)	4 (gal)
( ) (°C)	( ) (std)	( ) (g/L)	( ) (µS/cm)	( ) (mg/L)	( ) (mV)	( ) (gal)
( ) (°C)	( ) (std)	( ) (g/L)	( ) (µS/cm)	( ) (mg/L)	( ) (mV)	( ) (gal)

FIELD COMMENTS

SAMPLE APPEARANCE: silty ODOR: none COLOR: brown SHEEN Y/N NO

WEATHER CONDITIONS: TEMPERATURE 98 WINDY Y/N yes PRECIPITATION Y/N (IF Y TYPE) NO

SPECIFIC COMMENTS:

8.7 x .16 = 1.39 x 3 = 4.17

DO 2.90

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

DATE PRINT SIGNATURE

WELL SAMPLING FIELD INFORMATION FORM

SITE/PROJECT NAME: San Juan 29-7 #37 JOB# 075034
SAMPLE ID: GW-075034-061113-SK-MW7 WELL# MW-7

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	SAMPLE TIME (24 HOUR)	WATER VOL. IN CASING (GALLONS)	ACTUAL VOL. PURGED (GALLONS)
6/10/13	6/11/13	1240	2.13	7

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED Y (N) (CIRCLE ONE)
SAMPLING EQUIPMENT.....DEDICATED Y (N) (CIRCLE ONE)

PURGING DEVICE	A	A - SUBMERSIBLE PUMP B - PERISTALTIC PUMP	D - GAS LIFT PUMP E - PURGE PUMP	G - BAILER H - WATERRA®
SAMPLING DEVICE	A	C - BLADDER PUMP	F - DIPPER BOTTLE	X - OTHER
PURGING MATERIAL	B	A - TEFLON B - STAINLESS STEEL	D - PVC E - POLYETHYLENE	
SAMPLING MATERIAL	B	C - POLYPROPYLENE	X - OTHER	
PURGE TUBING	E	A - TEFLON B - TYGON	D - POLYPROPYLENE E - POLYETHYLENE	G - COMBINATION TEFLON/POLYPROPYLENE
SAMPLING TUBING	E	C - ROPE	F - SILICONE	X - OTHER
FILTERING DEVICES 0.45	A	A - IN-LINE DISPOSABLE	B - PRESSURE	

X= PURGING DEVICE OTHER (SPECIFY)
X= SAMPLING DEVICE OTHER (SPECIFY)
X= PURGING MATERIAL OTHER (SPECIFY)
X= SAMPLING MATERIAL OTHER (SPECIFY)
X= PURGE TUBING OTHER (SPECIFY)
X= SAMPLING TUBING OTHER (SPECIFY)

FIELD MEASUREMENTS

DEPTH TO WATER 108.45 (feet) WELL ELEVATION (feet)
WELL DEPTH 121.82 (feet) GROUNDWATER ELEVATION (feet)

TEMPERATURE	pH	TDS	SC	DO	ORP	VOLUME
16.07 (°C)	10.14 (std)	2.308 (g/L)	3.083 (µS/cm)	0.51 (mg/L)	73.3 (mV)	2 (gal)
15.87 (°C)	10.79 (std)	2.377 (g/L)	3.059 (µS/cm)	0.34 (mg/L)	30.3 (mV)	4.5 (gal)
15.87 (°C)	11.08 (std)	2.408 (g/L)	3.702 (µS/cm)	0.30 (mg/L)	16.0 (mV)	6 (gal)
(°C)	(std)	(g/L)	(µS/cm)	(mg/L)	(mV)	(gal)
(°C)	(std)	(g/L)	(µS/cm)	(mg/L)	(mV)	(gal)

FIELD COMMENTS

SAMPLE APPEARANCE: silty/cloudy ODOR: No COLOR: white SHEEN Y/N N
WEATHER CONDITIONS: TEMPERATURE 90 WINDY Y/N Y PRECIPITATION Y/N (IF Y TYPE) N
SPECIFIC COMMENTS:

3.37 x .16 = 2.13 x 3 = 6.41

DO = 2.30

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

DATE PRINT SIGNATURE

WELL SAMPLING FIELD INFORMATION FORM

SITE/PROJECT NAME: SJ 29-7 JOB# 075034

SAMPLE ID: GW-075034-09013-CM-MW-1 WELL# MW-1

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	SAMPLE TIME (24 HOUR)	WATER VOL. IN CASING (GALLONS)	ACTUAL VOL. PURGED (GALLONS)
9/9/13	9/10/13	1245	2.40	7.25

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

SAMPLING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

PURGING DEVICE	A	A - SUBMERSIBLE PUMP	D - GAS LIFT PUMP	G - BAILER	X= PURGING DEVICE OTHER (SPECIFY)
		B - PERISTALTIC PUMP	E - PURGE PUMP	H - WATERRA®	
SAMPLING DEVICE	G	C - BLADDER PUMP	F - DIPPER BOTTLE	X - OTHER	X= SAMPLING DEVICE OTHER (SPECIFY)
PURGING MATERIAL	B	A - TEFLON	D - PVC		X= PURGING MATERIAL OTHER (SPECIFY)
		B - STAINLESS STEEL	E - POLYETHYLENE		
SAMPLING MATERIAL	B	C - POLYPROPYLENE	X - OTHER		X= SAMPLING MATERIAL OTHER (SPECIFY)
PURGE TUBING	E	A - TEFLON	D - POLYPROPYLENE	G - COMBINATION TEFLON/POLYPROPYLENE	X= PURGE TUBING OTHER (SPECIFY)
		B - TYGON	E - POLYETHYLENE		
SAMPLING TUBING	C	C - ROPE	F - SILICONE	X - OTHER	X= SAMPLING TUBING OTHER (SPECIFY)
FILTERING DEVICES 0.45	A	A - IN-LINE DISPOSABLE	B - PRESSURE		0.45 for metals only

FIELD MEASUREMENTS

DEPTH TO WATER 109.04 (feet) WELL ELEVATION (feet)

WELL DEPTH 124.05 (feet) GROUNDWATER ELEVATION (feet)

16.53 ↘

TEMPERATURE	pH	TDS	SC	DO	ORP	VOLUME
16.53 (°C)	7.13 (std)	2.092 (g/L)	3218 (µS/cm)	1.78 (mg/L)	79.4 (mV)	6.25 (gal)
16.55 (°C)	7.13 (std)	2.088 (g/L)	3212 (µS/cm)	1.74 (mg/L)	79.0 (mV)	6.75 (gal)
16.56 (°C)	7.13 (std)	2.082 (g/L)	3203 (µS/cm)	1.69 (mg/L)	78.4 (mV)	7.25 (gal)
(°C)	(std)	(g/L)	(µS/cm)	(mg/L)	(mV)	(gal)
(°C)	(std)	(g/L)	(µS/cm)	(mg/L)	(mV)	(gal)

FIELD COMMENTS

SAMPLE APPEARANCE: CLOUDY ODOR: NONE COLOR: BROWN SHEEN Y/N N

WEATHER CONDITIONS: TEMPERATURE 80s WINDY Y/N N PRECIPITATION Y/N (IF Y TYPE) N

SPECIFIC COMMENTS:

initial D.O. = 6.61

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

DATE 9/10/13 PRINT Christine Mathews SIGNATURE Christine Mathews

WELL SAMPLING FIELD INFORMATION FORM

SITE/PROJECT NAME: SJ 29-7 JOB# 075034

SAMPLE ID: GW-075034-091013-CM-MW-2 WELL# MW-2

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	SAMPLE TIME (24 HOUR)	WATER VOL. IN CASING (GALLONS)	ACTUAL VOL. PURGED (GALLONS)
9/9/13	9/10/13	1220	1.82	5.50

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

SAMPLING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

PURGING DEVICE	A	A - SUBMERSIBLE PUMP B - PERISTALTIC PUMP	D - GAS LIFT PUMP E - PURGE PUMP	G - BAILER H - WATERRA®	X= PURGING DEVICE OTHER (SPECIFY)
SAMPLING DEVICE	B	C - BLADDER PUMP	F - DIPPER BOTTLE	X - OTHER	X= SAMPLING DEVICE OTHER (SPECIFY)
PURGING MATERIAL	B	A - TEFLON B - STAINLESS STEEL	D - PVC E - POLYETHYLENE		X= PURGING MATERIAL OTHER (SPECIFY)
SAMPLING MATERIAL	B	C - POLYPROPYLENE	X - OTHER		X= SAMPLING MATERIAL OTHER (SPECIFY)
PURGE TUBING	E	A - TEFLON B - TYGON	D - POLYPROPYLENE E - POLYETHYLENE	G - COMBINATION TEFLON/POLYPROPYLENE	X= PURGE TUBING OTHER (SPECIFY)
SAMPLING TUBING	C	C - ROPE	F - SILICONE	X - OTHER	X= SAMPLING TUBING OTHER (SPECIFY)
FILTERING DEVICES 0.45	A	A - IN-LINE DISPOSABLE	B - PRESSURE	0.45 for metals only	

FIELD MEASUREMENTS

DEPTH TO WATER 109.45 (feet) WELL ELEVATION (feet)

WELL DEPTH 120.81 (feet) GROUNDWATER ELEVATION (feet)

TEMPERATURE	pH	TDS	SC	DO	ORP	VOLUME
15.36 (°C)	6.57 (std)	2.122 (g/L)	3265 (µS/cm)	4.97 (mg/L)	93.2 (mV)	4.5 (gal)
15.37 (°C)	6.58 (std)	2.125 (g/L)	3269 (µS/cm)	5.10 (mg/L)	94.6 (mV)	5.0 (gal)
15.38 (°C)	6.59 (std)	2.126 (g/L)	3271 (µS/cm)	5.20 (mg/L)	95.7 (mV)	5.5 (gal)
(°C)	(std)	(g/L)	(µS/cm)	(mg/L)	(mV)	(gal)
(°C)	(std)	(g/L)	(µS/cm)	(mg/L)	(mV)	(gal)

FIELD COMMENTS

SAMPLE APPEARANCE: SLIGHTLY CLOUDY ODOR: NONE COLOR: BROWN SHEEN Y/N N

WEATHER CONDITIONS: TEMPERATURE 80s WINDY Y/N N PRECIPITATION Y/N (IF Y TYPE) N

SPECIFIC COMMENTS:

initial D.O. = 6.78

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CAA PROTOCOLS

DATE 9/10/13 PRINT Christine Mathews SIGNATURE Christine Mathews

WELL SAMPLING FIELD INFORMATION FORM

SITE/PROJECT NAME: SJ 29-7 JOB# 075034

SAMPLE ID: SW-075034-090113-CRM-MW-3 WELL# MW-3

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	SAMPLE TIME (24 HOUR)	WATER VOL. IN CASING (GALLONS)	ACTUAL VOL. PURGED (GALLONS)
9/9/13	9/10/13	1150	2.02	6.25

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

SAMPLING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

PURGING DEVICE	A	A - SUBMERSIBLE PUMP	D - GAS LIFT PUMP	G - BAILER	X= PURGING DEVICE OTHER (SPECIFY)
		B - PERISTALTIC PUMP	E - PURGE PUMP	H - WATERRA®	
SAMPLING DEVICE	C	C - BLADDER PUMP	F - DIPPER BOTTLE	X - OTHER	X= SAMPLING DEVICE OTHER (SPECIFY)
PURGING MATERIAL	B	A - TEFLON	D - PVC		X= PURGING MATERIAL OTHER (SPECIFY)
		B - STAINLESS STEEL	E - POLYETHYLENE		
SAMPLING MATERIAL	B	C - POLYPROPYLENE	X - OTHER		X= SAMPLING MATERIAL OTHER (SPECIFY)
PURGE TUBING	E	A - TEFLON	D - POLYPROPYLENE	G - COMBINATION TEFLON/POLYPROPYLENE	X= PURGE TUBING OTHER (SPECIFY)
		B - TYGON	E - POLYETHYLENE		
SAMPLING TUBING	C	C - ROPE	F - SILICONE	X - OTHER	X= SAMPLING TUBING OTHER (SPECIFY)
FILTERING DEVICES 0.45	A	A - IN-LINE DISPOSABLE	B - PRESSURE	0.45 for metals only	

FIELD MEASUREMENTS

DEPTH TO WATER	109.58	(feet)		WELL ELEVATION		(feet)	
WELL DEPTH	122.19	(feet)		GROUNDWATER ELEVATION		(feet)	

TEMPERATURE	pH	TDS	SC	DO	ORP	VOLUME
16.43 (°C)	7.03 (std)	1.896 (g/L)	2918 (µS/cm)	0.30 (mg/L)	-99.4 (mV)	5.25 (gal)
16.42 (°C)	7.02 (std)	1.895 (g/L)	2916 (µS/cm)	0.28 (mg/L)	-97.7 (mV)	5.75 (gal)
16.51 (°C)	7.00 (std)	1.911 (g/L)	2940 (µS/cm)	0.28 (mg/L)	-97.0 (mV)	6.25 (gal)
(°C)	(std)	(g/L)	(µS/cm)	(mg/L)	(mV)	(gal)
(°C)	(std)	(g/L)	(µS/cm)	(mg/L)	(mV)	(gal)

FIELD COMMENTS

SAMPLE APPEARANCE: CLOUDY ODOR: NONE COLOR: GRAY SHEEN Y/N N

WEATHER CONDITIONS: TEMPERATURE 80s WINDY Y/N N PRECIPITATION Y/N (IF Y TYPE) N

SPECIFIC COMMENTS:

initial D.O. = 7.09

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

DATE 9/10/13 PRINT Christine Mathews SIGNATURE Christine Mathews

WELL SAMPLING FIELD INFORMATION FORM

SITE/PROJECT NAME: SJ 29-7 JOB# 075034

SAMPLE ID: ~~BW-075034-091013-MW-4~~ WELL# MW-4

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	SAMPLE TIME (24 HOUR)	WATER VOL. IN CASING (GALLONS)	ACTUAL VOL. PURGED (GALLONS)
9/9/13	9/10/13	1400	1.89	5.75

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

SAMPLING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

PURGING DEVICE	A	A - SUBMERSIBLE PUMP	D - GAS LIFT PUMP	G - BAILER	X= PURGING DEVICE OTHER (SPECIFY)
		B - PERISTALTIC PUMP	E - PURGE PUMP	H - WATERRA®	
SAMPLING DEVICE	G	C - BLADDER PUMP	F - DIPPER BOTTLE	X - OTHER	X= SAMPLING DEVICE OTHER (SPECIFY)
PURGING MATERIAL	B	A - TEFLON	D - PVC		X= PURGING MATERIAL OTHER (SPECIFY)
		B - STAINLESS STEEL	E - POLYETHYLENE		
SAMPLING MATERIAL	B	C - POLYPROPYLENE	X - OTHER		X= SAMPLING MATERIAL OTHER (SPECIFY)
PURGE TUBING	E	A - TEFLON	D - POLYPROPYLENE	G - COMBINATION TEFLON/POLYPROPYLENE	X= PURGE TUBING OTHER (SPECIFY)
		B - TYGON	E - POLYETHYLENE		
SAMPLING TUBING	C	C - ROPE	F - SILICONE	X - OTHER	X= SAMPLING TUBING OTHER (SPECIFY)
FILTERING DEVICES 0.45	A	A - IN-LINE DISPOSABLE	B - PRESSURE	0.45 for metals only	

FIELD MEASUREMENTS

DEPTH TO WATER	111.47	(feet)	WELL ELEVATION		(feet)
WELL DEPTH	123.30	(feet)	GROUNDWATER ELEVATION		(feet)

TEMPERATURE	pH	TDS	SC	DO	ORP	VOLUME
14.80 (°C)	7.09 (std)	1,961 (g/L)	3017 (µS/cm)	6.12 (mg/L)	182.5 (mV)	4.75 (gal)
14.79 (°C)	7.08 (std)	1,961 (g/L)	3017 (µS/cm)	6.19 (mg/L)	181.6 (mV)	5.25 (gal)
14.78 (°C)	7.07 (std)	1,961 (g/L)	3017 (µS/cm)	6.27 (mg/L)	180.5 (mV)	5.75 (gal)
(°C)	(std)	(g/L)	(µS/cm)	(mg/L)	(mV)	(gal)
(°C)	(std)	(g/L)	(µS/cm)	(mg/L)	(mV)	(gal)

FIELD COMMENTS

SAMPLE APPEARANCE: CLOUDY ODOR: NONE COLOR: BROWN SHEEN Y/N N

WEATHER CONDITIONS: TEMPERATURE 80s WINDY Y/N N PRECIPITATION Y/N (IF Y TYPE) N

SPECIFIC COMMENTS:

initial D.O. = 4.08

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

DATE 9/10/13 PRINT Christine Matthews SIGNATURE Christine Matthews

WELL SAMPLING FIELD INFORMATION FORM

SITE/PROJECT NAME: SJ 29-7 JOB# 075034

SAMPLE ID: GW-075034-091013-CM-MW-5 WELL# MW-5

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	SAMPLE TIME (24 HOUR)	WATER VOL. IN CASING (GALLONS)	ACTUAL VOL. PURGED (GALLONS)
9/9/13	9/10/13	1145	1.92	6.0

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

SAMPLING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

PURGING DEVICE	A	A - SUBMERSIBLE PUMP	D - GAS LIFT PUMP	G - BAILER	X= PURGING DEVICE OTHER (SPECIFY)
		B - PERISTALTIC PUMP	E - PURGE PUMP	H - WATERRA®	
SAMPLING DEVICE	G	C - BLADDER PUMP	F - DIPPER BOTTLE	X - OTHER	X= SAMPLING DEVICE OTHER (SPECIFY)
PURGING MATERIAL	B	A - TEFLON	D - PVC		X= PURGING MATERIAL OTHER (SPECIFY)
		B - STAINLESS STEEL	E - POLYETHYLENE		
SAMPLING MATERIAL	B	C - POLYPROPYLENE	X - OTHER		X= SAMPLING MATERIAL OTHER (SPECIFY)
PURGE TUBING	E	A - TEFLON	D - POLYPROPYLENE	G - COMBINATION TEFLON/POLYPROPYLENE	X= PURGE TUBING OTHER (SPECIFY)
		B - TYGON	E - POLYETHYLENE		
SAMPLING TUBING	C	C - ROPE	F - SILICONE	X - OTHER	X= SAMPLING TUBING OTHER (SPECIFY)
FILTERING DEVICES 0.45	A	A - IN-LINE DISPOSABLE	B - PRESSURE	0.45 for metals only	

FIELD MEASUREMENTS

DEPTH TO WATER	108.77 (feet)	WELL ELEVATION	(feet)
WELL DEPTH	120.79 (feet)	GROUNDWATER ELEVATION	(feet)

TEMPERATURE	pH	TDS	SC	DO	ORP	VOLUME
16.87 (°C)	6.41 (std)	2.423 (g/L)	3727 (µS/cm)	0.22 (mg/L)	62.4 (mV)	3.0 (gal)
16.89 (°C)	6.43 (std)	2.422 (g/L)	3727 (µS/cm)	0.24 (mg/L)	62.2 (mV)	3.5 (gal)
17.01 (°C)	6.46 (std)	2.422 (g/L)	3726 (µS/cm)	0.29 (mg/L)	62.0 (mV)	4.0 (gal)
17.05 (°C)	6.50 (std)	2.427 (g/L)	3734 (µS/cm)	0.29 (mg/L)	63.7 (mV)	4.5 (gal)
17.33 (°C)	6.52 (std)	2.425 (g/L)	3731 (µS/cm)	0.25 (mg/L)	56.2 (mV)	5.0 (gal)

FIELD COMMENTS

SAMPLE APPEARANCE: CLOUDY ODOR: NONE COLOR: BROWN SHEEN Y/N N

WEATHER CONDITIONS: TEMPERATURE 80s WINDY Y/N N PRECIPITATION Y/N (IF Y TYPE) N

SPECIFIC COMMENTS:

initial D.O. = 4.86

17.61	6.60	2.430	3739	0.16	49.8	5.5
17.85	6.61	2.432	3741	0.15	36.2	6.0

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

DATE 9/10/13 PRINT Christine Mathews SIGNATURE [signature]

WELL SAMPLING FIELD INFORMATION FORM

SITE/PROJECT NAME: SJ 29-7 JOB# 075034

SAMPLE ID: GW-075034-091013-CM-MW-6 WELL# MW-6

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	SAMPLE TIME (24 HOUR)	WATER VOL. IN CASING (GALLONS)	ACTUAL VOL. PURGED (GALLONS)
9/9/13	9/10/13	1225	1.36	4.25

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

SAMPLING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

PURGING DEVICE	A	A - SUBMERSIBLE PUMP	D - GAS LIFT PUMP	G - BAILER	X= PURGING DEVICE OTHER (SPECIFY)
		B - PERISTALTIC PUMP	E - PURGE PUMP	H - WATERRA®	
SAMPLING DEVICE	C	C - BLADDER PUMP	F - DIPPER BOTTLE	X - OTHER	X= SAMPLING DEVICE OTHER (SPECIFY)
PURGING MATERIAL	B	A - TEFLON	D - PVC		X= PURGING MATERIAL OTHER (SPECIFY)
		B - STAINLESS STEEL	E - POLYETHYLENE		
SAMPLING MATERIAL	B	C - POLYPROPYLENE	X - OTHER		X= SAMPLING MATERIAL OTHER (SPECIFY)
PURGE TUBING	E	A - TEFLON	D - POLYPROPYLENE	G - COMBINATION TEFLON/POLYPROPYLENE	X= PURGE TUBING OTHER (SPECIFY)
		B - TYGON	E - POLYETHYLENE		
SAMPLING TUBING	C	C - ROPE	F - SILICONE	X - OTHER	X= SAMPLING TUBING OTHER (SPECIFY)
FILTERING DEVICES 0.45	A	A - IN-LINE DISPOSABLE	B - PRESSURE	0.45 for metals only	

FIELD MEASUREMENTS

DEPTH TO WATER 108.43 (feet) WELL ELEVATION (feet)

WELL DEPTH 116.96 (feet) GROUNDWATER ELEVATION (feet)

TEMPERATURE	pH	TDS	SC	DO	ORP	VOLUME
16.38 (°C)	6.47 (std)	1.716 (g/L)	2640 (µS/cm)	1.87 (mg/L)	103.9 (mV)	3.25 (gal)
16.38 (°C)	6.48 (std)	1.711 (g/L)	2632 (µS/cm)	1.95 (mg/L)	104.9 (mV)	3.75 (gal)
16.38 (°C)	6.48 (std)	1.707 (g/L)	2626 (µS/cm)	2.05 (mg/L)	105.9 (mV)	4.25 (gal)
(°C)	(std)	(g/L)	(µS/cm)	(mg/L)	(mV)	(gal)
(°C)	(std)	(g/L)	(µS/cm)	(mg/L)	(mV)	(gal)

FIELD COMMENTS

SAMPLE APPEARANCE: SLIGHTLY CLOUDY ODOR: NONE COLOR: YELLOW - BROWN SHEEN Y/N N

WEATHER CONDITIONS: TEMPERATURE 80s WINDY Y/N N PRECIPITATION Y/N (IF Y TYPE) N

SPECIFIC COMMENTS:

initial D.O. = 1.45

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

DATE 9/10/13 PRINT Christine Mathews SIGNATURE Christine Mathews

WELL SAMPLING FIELD INFORMATION FORM

SITE/PROJECT NAME: SJ 29-7 JOB# 075034

SAMPLE ID: GW-075034-091013-CM-MW-7 WELL# MW-7

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	SAMPLE TIME (24 HOUR)	WATER VOL. IN CASING (GALLONS)	ACTUAL VOL. PURGED (GALLONS)
9/9/13	9/10/13	1255	2.11	6.5

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

SAMPLING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

PURGING DEVICE	A	A - SUBMERSIBLE PUMP	D - GAS LIFT PUMP	G - BAILER	X= PURGING DEVICE OTHER (SPECIFY)
		B - PERISTALTIC PUMP	E - PURGE PUMP	H - WATERRA®	
SAMPLING DEVICE	G	C - BLADDER PUMP	F - DIPPER BOTTLE	X - OTHER	X= SAMPLING DEVICE OTHER (SPECIFY)
PURGING MATERIAL	B	A - TEFLON	D - PVC		X= PURGING MATERIAL OTHER (SPECIFY)
		B - STAINLESS STEEL	E - POLYETHYLENE		
SAMPLING MATERIAL	B	C - POLYPROPYLENE	X - OTHER		X= SAMPLING MATERIAL OTHER (SPECIFY)
PURGE TUBING	E	A - TEFLON	D - POLYPROPYLENE	G - COMBINATION TEFLON/POLYPROPYLENE	X= PURGE TUBING OTHER (SPECIFY)
		B - TYGON	E - POLYETHYLENE		
SAMPLING TUBING	C	C - ROPE	F - SILICONE	X - OTHER	X= SAMPLING TUBING OTHER (SPECIFY)
FILTERING DEVICES 0.45	A	A - IN-LINE DISPOSABLE	B - PRESSURE	0.45 for metals only	

FIELD MEASUREMENTS

DEPTH TO WATER	108.64	(feet)	WELL ELEVATION		(feet)
WELL DEPTH	121.81	(feet)	GROUNDWATER ELEVATION		(feet)

TEMPERATURE	pH	TDS	SC	DO	ORP	VOLUME
16.08 (°C)	8.66 (std)	2.463 (g/L)	3789 (µS/cm)	23.35 (mg/L)	79.4 (mV)	5.5 (gal)
16.08 (°C)	9.75 (std)	2.465 (g/L)	3792 (µS/cm)	24.55 (mg/L)	76.8 (mV)	6.0 (gal)
16.14 (°C)	9.81 (std)	2.470 (g/L)	3800 (µS/cm)	24.40 (mg/L)	74.0 (mV)	6.5 (gal)
(°C)	(std)	(g/L)	(µS/cm)	(mg/L)	(mV)	(gal)
(°C)	(std)	(g/L)	(µS/cm)	(mg/L)	(mV)	(gal)

FIELD COMMENTS

SAMPLE APPEARANCE: CLOUDY ODOR: NONE COLOR: WHITE SHEEN Y/N N

WEATHER CONDITIONS: TEMPERATURE 80s WINDY Y/N N PRECIPITATION Y/N (IF Y TYPE) N

SPECIFIC COMMENTS:

initial D.O. = 21.27

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE QRA PROTOCOLS

DATE 9/10/13 PRINT Christine Mathews SIGNATURE Christine Mathews

WELL SAMPLING FIELD INFORMATION FORM

SITE/PROJECT NAME: SJ 29-7 JOB# 075034

SAMPLE ID: GW-075034-091013-(TM)-MW-8R WELL# MW-8R

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	SAMPLE TIME (24 HOUR)	WATER VOL. IN CASING (GALLONS)	ACTUAL VOL. PURGED (GALLONS)
9/9/13	9/10/13	1335	1.83	5.5

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

SAMPLING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

PURGING DEVICE	A	A - SUBMERSIBLE PUMP	D - GAS LIFT PUMP	G - BAILER	X= PURGING DEVICE OTHER (SPECIFY)
		B - PERISTALTIC PUMP	E - PURGE PUMP	H - WATERRA®	
SAMPLING DEVICE	G	C - BLADDER PUMP	F - DIPPER BOTTLE	X - OTHER	X= SAMPLING DEVICE OTHER (SPECIFY)
PURGING MATERIAL	B	A - TEFLON	D - PVC		X= PURGING MATERIAL OTHER (SPECIFY)
		B - STAINLESS STEEL	E - POLYETHYLENE		
SAMPLING MATERIAL	B	C - POLYPROPYLENE	X - OTHER		X= SAMPLING MATERIAL OTHER (SPECIFY)
PURGE TUBING	E	A - TEFLON	D - POLYPROPYLENE	G - COMBINATION TEFLON/POLYPROPYLENE	X= PURGE TUBING OTHER (SPECIFY)
		B - TYGON	E - POLYETHYLENE		
SAMPLING TUBING	C	C - ROPE	F - SILICONE	X - OTHER	X= SAMPLING TUBING OTHER (SPECIFY)
FILTERING DEVICES 0.45	A	A - IN-LINE DISPOSABLE	B - PRESSURE	0.45 for metals only	

FIELD MEASUREMENTS

DEPTH TO WATER	108.39	(feet)		WELL ELEVATION		(feet)	
WELL DEPTH	119.85	(feet)		GROUNDWATER ELEVATION		(feet)	

TEMPERATURE	pH	TDS	SC	DO	ORP	VOLUME
16.60 (°C)	7.03 (std)	2.204 (g/L)	3390 (µS/cm)	0.22 (mg/L)	86.5 (mV)	4.5 (gal)
16.60 (°C)	7.04 (std)	2.201 (g/L)	3386 (µS/cm)	0.21 (mg/L)	85.7 (mV)	5.0 (gal)
(°C)	(std)	(g/L)	(µS/cm)	(mg/L)	(mV)	5.5 (gal)
(°C)	(std)	(g/L)	(µS/cm)	(mg/L)	(mV)	(gal)
(°C)	(std)	(g/L)	(µS/cm)	(mg/L)	(mV)	(gal)

FIELD COMMENTS

SAMPLE APPEARANCE: CLOUDY ODOR: NONE COLOR: BROWN SHEEN Y/N N

WEATHER CONDITIONS: TEMPERATURE 80s WINDY Y/N N PRECIPITATION Y/N (IF Y TYPE) N

SPECIFIC COMMENTS:

initial D.O. = 7.81 Duplicate collected @ 1345 for BTEX & HPC

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

DATE 9/10/13 PRINT Christine Mathews SIGNATURE [signature]

WELL SAMPLING FIELD INFORMATION FORM

SITE/PROJECT NAME: San Juan 29-7 Unit 37 JOB# 075034

SAMPLE ID: GW-075034-010714-CM-MW-1 WELL# MW-1

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	SAMPLE TIME (24 HOUR)	WATER VOL. IN CASING (GALLONS)	ACTUAL VOL. PURGED (GALLONS)
1/6/14	1/7/14	1250	2.3664	7.25

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED Y (N) (CIRCLE ONE)

SAMPLING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

PURGING DEVICE	A	A - SUBMERSIBLE PUMP	D - GAS LIFT PUMP	G - BAILER	X= PURGING DEVICE OTHER (SPECIFY)
		B - PERISTALTIC PUMP	E - PURGE PUMP	H - WATERRA®	
SAMPLING DEVICE	G	C - BLADDER PUMP	F - DIPPER BOTTLE	X - OTHER	X= SAMPLING DEVICE OTHER (SPECIFY)
PURGING MATERIAL	B/E	A - TEFLON	D - PVC		X= PURGING MATERIAL OTHER (SPECIFY)
		B - STAINLESS STEEL	E - POLYETHYLENE		
SAMPLING MATERIAL	E	C - POLYPROPYLENE	X - OTHER		X= SAMPLING MATERIAL OTHER (SPECIFY)
PURGE TUBING	E	A - TEFLON	D - POLYPROPYLENE	G - COMBINATION TEFLON/POLYPROPYLENE	X= PURGE TUBING OTHER (SPECIFY)
		B - TYGON	E - POLYETHYLENE		
SAMPLING TUBING	C	C - ROPE	F - SILICONE	X - OTHER	X= SAMPLING TUBING OTHER (SPECIFY)
FILTERING DEVICES 0.45	A	A - IN-LINE DISPOSABLE	B - PRESSURE	for metals only	

FIELD MEASUREMENTS

DEPTH TO WATER 109.26 (feet) WELL ELEVATION (feet)

WELL DEPTH 124.05 (feet) GROUNDWATER ELEVATION (feet)

TEMPERATURE	pH	TDS	SC	DO	ORP	VOLUME
16.35 (°C)	7.28 (std)	2.079 (g/L)	3199 (µS/cm)	2.14 (mg/L)	-45.0 (mV)	6.25 (gal)
16.35 (°C)	7.28 (std)	2.081 (g/L)	3202 (µS/cm)	2.09 (mg/L)	-45.8 (mV)	6.75 (gal)
16.35 (°C)	7.28 (std)	2.080 (g/L)	3200 (µS/cm)	2.01 (mg/L)	-47.0 (mV)	7.25 (gal)
(°C)	(std)	(g/L)	(µS/cm)	(mg/L)	(mV)	(gal)
(°C)	(std)	(g/L)	(µS/cm)	(mg/L)	(mV)	(gal)

FIELD COMMENTS

SAMPLE APPEARANCE: cloudy/ ODOR: none COLOR: slight white SHEEN Y/N no

WEATHER CONDITIONS: TEMPERATURE 35° WINDY Y/N no PRECIPITATION Y/N (IF Y TYPE) no

SPECIFIC COMMENTS:

2.3664 X3 = 7.099

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

DATE 1/7/14 PRINT Christine Mathews SIGNATURE

WELL SAMPLING FIELD INFORMATION FORM

SITE/PROJECT NAME: San Juan 29-7 Unit 37 JOB# 075034
SAMPLE ID: BW-075034-010714-CM-MW-2 WELL# MW-2

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	SAMPLE TIME (24 HOUR)	WATER VOL. IN CASING (GALLONS)	ACTUAL VOL. PURGED (GALLONS)
1/6/14	1/7/14	1220	1.776	5.5

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED Y (N) (CIRCLE ONE)

SAMPLING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

PURGING DEVICE	A	A - SUBMERSIBLE PUMP	D - GAS LIFT PUMP	G - BAILER	X= PURGING DEVICE OTHER (SPECIFY)
		B - PERISTALTIC PUMP	E - PURGE PUMP	H - WATERRA®	
SAMPLING DEVICE	G	C - BLADDER PUMP	F - DIPPER BOTTLE	X - OTHER	X= SAMPLING DEVICE OTHER (SPECIFY)
PURGING MATERIAL	B/E	A - TEFLON	D - PVC		X= PURGING MATERIAL OTHER (SPECIFY)
		B - STAINLESS STEEL	E - POLYETHYLENE		
SAMPLING MATERIAL	E	C - POLYPROPYLENE	X - OTHER		X= SAMPLING MATERIAL OTHER (SPECIFY)
PURGE TUBING	E	A - TEFLON	D - POLYPROPYLENE	G - COMBINATION TEFLON/POLYPROPYLENE	X= PURGE TUBING OTHER (SPECIFY)
		B - TYGON	E - POLYETHYLENE		
SAMPLING TUBING	C	C - ROPE	F - SILICONE	X - OTHER	X= SAMPLING TUBING OTHER (SPECIFY)
FILTERING DEVICES 0.45	A	A - IN-LINE DISPOSABLE	B - PRESSURE	For metals only	

FIELD MEASUREMENTS

DEPTH TO WATER 109.71 (feet) WELL ELEVATION (feet)

WELL DEPTH 120.81 (feet) GROUNDWATER ELEVATION (feet)

TEMPERATURE	pH	TDS	SC	DO	ORP	VOLUME
15.53 (°C)	6.64 (std)	2.106 (g/L)	3241 (µS/cm)	4.62 (mg/L)	12.9 (mV)	4.5 (gal)
15.53 (°C)	6.64 (std)	2.108 (g/L)	3244 (µS/cm)	4.73 (mg/L)	10.9 (mV)	5.0 (gal)
15.52 (°C)	6.659 (std)	2.109 (g/L)	3245 (µS/cm)	4.67 (mg/L)	11.6 (mV)	5.5 (gal)
(°C)	(std)	(g/L)	(µS/cm)	(mg/L)	(mV)	(gal)
(°C)	(std)	(g/L)	(µS/cm)	(mg/L)	(mV)	(gal)

FIELD COMMENTS

SAMPLE APPEARANCE: cloudy/silty ODOR: none COLOR: H. Brown SHEEN Y/N no

WEATHER CONDITIONS: TEMPERATURE 35° WINDY Y/N no PRECIPITATION Y/N (IF Y TYPE) no

SPECIFIC COMMENTS: initial DO = 5.60 mg/L

1.776 x 3 = 5.328

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

DATE 1/7/14 PRINT Christine Mathes SIGNATURE Christine Mathes

WELL SAMPLING FIELD INFORMATION FORM

SITE/PROJECT NAME: San Juan 29-7 Unit 37 JOB# 075034

SAMPLE ID: BW-075034-010714-ON-MW-3 WELL# MW-3

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	SAMPLE TIME (24 HOUR)	WATER VOL. IN CASING (GALLONS)	ACTUAL VOL. PURGED (GALLONS)
1/6/14	1/7/14	1150	1.9984	6.0

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED Y (N) (CIRCLE ONE)

SAMPLING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

PURGING DEVICE	A	A - SUBMERSIBLE PUMP	D - GAS LIFT PUMP	G - BAILER	X= PURGING DEVICE OTHER (SPECIFY)
		B - PERISTALTIC PUMP	E - PURGE PUMP	H - WATERRA®	
SAMPLING DEVICE	G	C - BLADDER PUMP	F - DIPPER BOTTLE	X - OTHER	X= SAMPLING DEVICE OTHER (SPECIFY)
PURGING MATERIAL	B/E	A - TEFLON	D - PVC		X= PURGING MATERIAL OTHER (SPECIFY)
		B - STAINLESS STEEL	E - POLYETHYLENE		
SAMPLING MATERIAL	E	C - POLYPROPYLENE	X - OTHER		X= SAMPLING MATERIAL OTHER (SPECIFY)
PURGE TUBING	E	A - TEFLON	D - POLYPROPYLENE	G - COMBINATION TEFLON/POLYPROPYLENE	X= PURGE TUBING OTHER (SPECIFY)
		B - TYGON	E - POLYETHYLENE		
SAMPLING TUBING	C	C - ROPE	F - SILICONE	X - OTHER	X= SAMPLING TUBING OTHER (SPECIFY)
FILTERING DEVICES 0.45	A	A - IN-LINE DISPOSABLE	B - PRESSURE		For metals only

FIELD MEASUREMENTS

DEPTH TO WATER 109.7 (feet) WELL ELEVATION (feet)

WELL DEPTH 122.19 (feet) GROUNDWATER ELEVATION (feet)

TEMPERATURE	pH	TDS	SC	DO	ORP	VOLUME
16.57 (°C)	7.28 (std)	1.906 (g/L)	2932 (µS/cm)	0.93 (mg/L)	-138.2 (mV)	5.0 (gal)
16.40 (°C)	7.25 (std)	1.909 (g/L)	2937 (µS/cm)	0.96 (mg/L)	-136.2 (mV)	5.5 (gal)
16.32 (°C)	7.23 (std)	1.914 (g/L)	2945 (µS/cm)	0.97 (mg/L)	-137.4 (mV)	6.0 (gal)
(°C)	(std)	(g/L)	(µS/cm)	(mg/L)	(mV)	(gal)
(°C)	(std)	(g/L)	(µS/cm)	(mg/L)	(mV)	(gal)

FIELD COMMENTS

SAMPLE APPEARANCE: cloudy/very silty ODOR: none COLOR: Hi brown/brown SHEEN Y/N no

WEATHER CONDITIONS: TEMPERATURE 35 WINDY Y/N no PRECIPITATION Y/N (IF Y TYPE) no

SPECIFIC COMMENTS:

Initial DO = 2.30 mg/L

1.9984 x 3 = 5.99

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

DATE 1/7/14 PRINT Christine Mathews SIGNATURE Christine Mathews

WELL SAMPLING FIELD INFORMATION FORM

SITE/PROJECT NAME: San Juan 29-7 Unit 37 JOB# 075034
SAMPLE ID: GW-075034-010714-CM-MW-4 WELL# MW-4

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	SAMPLE TIME (24 HOUR)	WATER VOL. IN CASING (GALLONS)	ACTUAL VOL. PURGED (GALLONS)
1/6/14	1/7/14	1320	1.86	6.0

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED Y (N) (CIRCLE ONE)

SAMPLING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE) Yes CM

PURGING DEVICE	A	A - SUBMERSIBLE PUMP	D - GAS LIFT PUMP	G - BAILER	X= PURGING DEVICE OTHER (SPECIFY)
		B - PERISTALTIC PUMP	E - PURGE PUMP	H - WATERRA®	
SAMPLING DEVICE	G	C - BLADDER PUMP	F - DIPPER BOTTLE	X - OTHER	X= SAMPLING DEVICE OTHER (SPECIFY)
PURGING MATERIAL	B/E	A - TEFLON	D - PVC		X= PURGING MATERIAL OTHER (SPECIFY)
		B - STAINLESS STEEL	E - POLYETHYLENE		
SAMPLING MATERIAL	E	C - POLYPROPYLENE	X - OTHER		X= SAMPLING MATERIAL OTHER (SPECIFY)
PURGE TUBING	E	A - TEFLON	D - POLYPROPYLENE	G - COMBINATION TEFLON/POLYPROPYLENE	X= PURGE TUBING OTHER (SPECIFY)
		B - TYGON	E - POLYETHYLENE		
SAMPLING TUBING	C	C - ROPE	F - SILICONE	X - OTHER	X= SAMPLING TUBING OTHER (SPECIFY)
FILTERING DEVICES 0.45	A	A - IN-LINE DISPOSABLE	B - PRESSURE		for metals only

FIELD MEASUREMENTS

DEPTH TO WATER 111.66 (feet) WELL ELEVATION (feet)

WELL DEPTH 123.30 (feet) GROUNDWATER ELEVATION (feet)

TEMPERATURE	pH	TDS	SC	DO	ORP	VOLUME
14.89 (°C)	7.40 (std)	1.970 (g/L)	3031 (µS/cm)	7.24 (mg/L)	-19.2 (mV)	5.0 (gal)
14.72 (°C)	7.39 (std)	1.970 (g/L)	3031 (µS/cm)	7.27 (mg/L)	-18.6 (mV)	5.5 (gal)
14.73 (°C)	7.38 (std)	1.970 (g/L)	3030 (µS/cm)	7.27 (mg/L)	-18.3 (mV)	6.0 (gal)
(°C)	(std)	(g/L)	(µS/cm)	(mg/L)	(mV)	(gal)
(°C)	(std)	(g/L)	(µS/cm)	(mg/L)	(mV)	(gal)

FIELD COMMENTS

SAMPLE APPEARANCE: cloudy/silty ODOR: none COLOR: lt. brown SHEEN Y/N no

WEATHER CONDITIONS: TEMPERATURE 35° WINDY Y/N no PRECIPITATION Y/N (IF Y TYPE) no

SPECIFIC COMMENTS: initial DO 6.07 mg/L

1.86 x 3 = 5.587

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

DATE 1/7/14 PRINT Christine Mathews SIGNATURE Christine Mathews

WELL SAMPLING FIELD INFORMATION FORM

SITE/PROJECT NAME: San Juan 29-7 Unit 37 JOB# 075034

SAMPLE ID: GW-075034-010714-CM-MW-5 WELL# MW-5

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	SAMPLE TIME (24 HOUR)	WATER VOL. IN CASING (GALLONS)	ACTUAL VOL. PURGED (GALLONS)
1/6/14	1/7/14	1100	1.90	5.75

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED Y (N) (CIRCLE ONE)

SAMPLING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

PURGING DEVICE	A	A - SUBMERSIBLE PUMP	D - GAS LIFT PUMP	G - BAILER	X= PURGING DEVICE OTHER (SPECIFY)
		B - PERISTALTIC PUMP	E - PURGE PUMP	H - WATERRA®	
SAMPLING DEVICE	G	C - BLADDER PUMP	F - DIPPER BOTTLE	X - OTHER	X= SAMPLING DEVICE OTHER (SPECIFY)
PURGING MATERIAL	B/E	A - TEFLON	D - PVC		X= PURGING MATERIAL OTHER (SPECIFY)
		B - STAINLESS STEEL	E - POLYETHYLENE		
SAMPLING MATERIAL	E	C - POLYPROPYLENE	X - OTHER		X= SAMPLING MATERIAL OTHER (SPECIFY)
PURGE TUBING	E	A - TEFLON	D - POLYPROPYLENE	G - COMBINATION TEFLON/POLYPROPYLENE	X= PURGE TUBING OTHER (SPECIFY)
		B - TYGON	E - POLYETHYLENE		
SAMPLING TUBING	C	C - ROPE	F - SILICONE	X - OTHER	X= SAMPLING TUBING OTHER (SPECIFY)
FILTERING DEVICES 0.45	A	A - IN-LINE DISPOSABLE	B - PRESSURE	for metals only	

FIELD MEASUREMENTS

DEPTH TO WATER 108.91 (feet) WELL ELEVATION (feet)

WELL DEPTH 120.79 (feet) GROUNDWATER ELEVATION (feet)

TEMPERATURE	pH	TDS	SC	DO	ORP	VOLUME
17.52 (°C)	6.75 (std)	2.345 (g/L)	3611 (µS/cm)	1.11 (mg/L)	-15.1 (mV)	4.75 (gal)
16.73 (°C)	6.75 (std)	2.353 (g/L)	3622 (µS/cm)	1.18 (mg/L)	24.9 (mV)	5.25 (gal)
16.58 (°C)	6.74 (std)	2.366 (g/L)	3640 (µS/cm)	1.21 (mg/L)	67.5 (mV)	5.75 (gal)
(°C)	(std)	(g/L)	(µS/cm)	(mg/L)	(mV)	(gal)
(°C)	(std)	(g/L)	(µS/cm)	(mg/L)	(mV)	(gal)

FIELD COMMENTS

SAMPLE APPEARANCE: Cloudy/silty ODOR: none COLOR: lt brown SHEEN Y/N no

WEATHER CONDITIONS: TEMPERATURE 40° WINDY Y/N no PRECIPITATION Y/N (IF Y TYPE) no

SPECIFIC COMMENTS:

initial DO 2.2

1.90 x 3 = 5.7024

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

DATE 1/7/14 PRINT Christine Mathews SIGNATURE Christine Mathews

WELL SAMPLING FIELD INFORMATION FORM

SITE/PROJECT NAME: San Juan 29-7 Unit 37 JOB# 075034
SAMPLE ID: GW-075034-010714-CM-MW-6 WELL# MW-6

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	SAMPLE TIME (24 HOUR)	WATER VOL. IN CASING (GALLONS)	ACTUAL VOL. PURGED (GALLONS)
1/6/1	1/7/14	1120	1.3216	4.0

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED Y (N) (CIRCLE ONE)

SAMPLING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

PURGING DEVICE: A — A - SUBMERSIBLE PUMP; B - PERISTALTIC PUMP; C - BLADDER PUMP; D - GAS LIFT PUMP; E - PURGE PUMP; F - DIPPER BOTTLE; G - BAILER; H - WATERRA®; X - OTHER. X= PURGING DEVICE OTHER (SPECIFY)

SAMPLING DEVICE: G — same codes. X= SAMPLING DEVICE OTHER (SPECIFY)

PURGING MATERIAL: B/E — A - TEFLON; B - STAINLESS STEEL; C - POLYPROPYLENE; D - PVC; E - POLYETHYLENE; X - OTHER. X= PURGING MATERIAL OTHER (SPECIFY)

SAMPLING MATERIAL: E — same codes. X= SAMPLING MATERIAL OTHER (SPECIFY)

PURGE TUBING: E — A - TEFLON; B - TYGON; C - ROPE; D - POLYPROPYLENE; E - POLYETHYLENE; F - SILICONE; G - COMBINATION TEFLON/POLYPROPYLENE; X - OTHER. X= PURGE TUBING OTHER (SPECIFY)

SAMPLING TUBING: C — same codes. X= SAMPLING TUBING OTHER (SPECIFY)

FILTERING DEVICES 0.45: A — A - IN-LINE DISPOSABLE; B - PRESSURE for metals only

FIELD MEASUREMENTS

DEPTH TO WATER 108.7 (feet) WELL ELEVATION (feet)

WELL DEPTH 116.96 (feet) GROUNDWATER ELEVATION (feet)

TEMPERATURE	pH	TDS	SC	DO	ORP	VOLUME
16.15 (°C)	6.73 (std)	1.708 (g/L)	2627 (µS/cm)	2.84 (mg/L)	-29.0 (mV)	3.0 (gal)
16.19 (°C)	6.74 (std)	1.707 (g/L)	2626 (µS/cm)	2.93 (mg/L)	-29.4 (mV)	3.5 (gal)
16.21 (°C)	6.74 (std)	1.705 (g/L)	2622 (µS/cm)	2.97 (mg/L)	-29.7 (mV)	4.0 (gal)
(°C)	(std)	(g/L)	(µS/cm)	(mg/L)	(mV)	(gal)
(°C)	(std)	(g/L)	(µS/cm)	(mg/L)	(mV)	(gal)

FIELD COMMENTS

SAMPLE APPEARANCE: cloudy/silty ODOR: none COLOR: H. Brown SHEEN Y/N no

WEATHER CONDITIONS: TEMPERATURE 35° WINDY Y/N no PRECIPITATION Y/N (IF Y TYPE) no

SPECIFIC COMMENTS:

Initial DO = 2.30 mg/L

1.3216 x 3 = 3.96

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

DATE 1/7/14 PRINT Christine Mathews SIGNATURE Christine Mathews

WELL SAMPLING FIELD INFORMATION FORM

SITE/PROJECT NAME: San Juan 29-7 Unit 37 JOB# 075034
SAMPLE ID: GW-075034-010714-CM-MW-7 WELL# MW-7

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	SAMPLE TIME (24 HOUR)	WATER VOL. IN CASING (GALLONS)	ACTUAL VOL. PURGED (GALLONS)
1/6/14	1/7/14	1025	2.08	6.25

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED Y (N) (CIRCLE ONE)

SAMPLING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

PURGING DEVICE	A	A - SUBMERSIBLE PUMP B - PERISTALTIC PUMP	D - GAS LIFT PUMP E - PURGE PUMP	G - BAILER H - WATERRA®	X= PURGING DEVICE OTHER (SPECIFY)
SAMPLING DEVICE	G	C - BLADDER PUMP	F - DIPPER BOTTLE	X - OTHER	X= SAMPLING DEVICE OTHER (SPECIFY)
PURGING MATERIAL	B/E	A - TEFLON B - STAINLESS STEEL	D - PVC E - POLYETHYLENE		X= PURGING MATERIAL OTHER (SPECIFY)
SAMPLING MATERIAL	E	C - POLYPROPYLENE	X - OTHER		X= SAMPLING MATERIAL OTHER (SPECIFY)
PURGE TUBING	E	A - TEFLON B - TYGON	D - POLYPROPYLENE E - POLYETHYLENE	G - COMBINATION TEFLON/POLYPROPYLENE	X= PURGE TUBING OTHER (SPECIFY)
SAMPLING TUBING	C	C - ROPE	F - SILICONE	X - OTHER	X= SAMPLING TUBING OTHER (SPECIFY)
FILTERING DEVICES 0.45	A	A - IN-LINE DISPOSABLE	B - PRESSURE	for metals only	

FIELD MEASUREMENTS

DEPTH TO WATER 108.18 (feet) WELL ELEVATION (feet)

WELL DEPTH 121.81 (feet) GROUNDWATER ELEVATION (feet)

TEMPERATURE	pH	TDS	SC	DO	ORP	VOLUME
16.28 (°C)	8.45 (std)	2.367 (g/L)	3641 (µS/cm)	4.95 (mg/L)	-21.7 (mV)	5.25 (gal)
16.31 (°C)	8.53 (std)	2.369 (g/L)	3644 (µS/cm)	5.11 (mg/L)	-24.1 (mV)	5.75 (gal)
16.32 (°C)	8.56 (std)	2.371 (g/L)	3648 (µS/cm)	4.47 (mg/L)	-26.4 (mV)	6.25 (gal)
(°C)	(std)	(g/L)	(µS/cm)	(mg/L)	(mV)	(gal)
(°C)	(std)	(g/L)	(µS/cm)	(mg/L)	(mV)	(gal)

FIELD COMMENTS

SAMPLE APPEARANCE: cloudy white/clear (gray) ODOR: none COLOR: slight white SHEEN Y/N no

WEATHER CONDITIONS: TEMPERATURE 35° WINDY Y/N no PRECIPITATION Y/N (IF Y TYPE) no

SPECIFIC COMMENTS: initial DO 12.10 mg/L

2.08 X 3 =

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

DATE 1/7/14 PRINT Christine Mathews SIGNATURE Christine Mathews

WELL SAMPLING FIELD INFORMATION FORM

SITE/PROJECT NAME: San Juan 29-7 Unit 37 JOB# 075034
SAMPLE ID: GW-075034-010714-CM-MW-8R WELL# MW-8R

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	SAMPLE TIME (24 HOUR)	WATER VOL. IN CASING (GALLONS)	ACTUAL VOL. PURGED (GALLONS)
1/7/14	1/7/14	~~1130~~ 1135	1.79	5.5

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED Y (N) (CIRCLE ONE)
SAMPLING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

PURGING DEVICE	A	A - SUBMERSIBLE PUMP	D - GAS LIFT PUMP	G - BAILER	X= PURGING DEVICE OTHER (SPECIFY)
		B - PERISTALTIC PUMP	E - PURGE PUMP	H - WATERRA®	
SAMPLING DEVICE	G	C - BLADDER PUMP	F - DIPPER BOTTLE	X - OTHER	X= SAMPLING DEVICE OTHER (SPECIFY)
PURGING MATERIAL	B/E	A - TEFLON	D - PVC		X= PURGING MATERIAL OTHER (SPECIFY)
		B - STAINLESS STEEL	E - POLYETHYLENE		
SAMPLING MATERIAL	E	C - POLYPROPYLENE	X - OTHER		X= SAMPLING MATERIAL OTHER (SPECIFY)
PURGE TUBING	E	A - TEFLON	D - POLYPROPYLENE	G - COMBINATION TEFLON/POLYPROPYLENE	X= PURGE TUBING OTHER (SPECIFY)
		B - TYGON	E - POLYETHYLENE		
SAMPLING TUBING	C	C - ROPE	F - SILICONE	X - OTHER	X= SAMPLING TUBING OTHER (SPECIFY)
FILTERING DEVICES 0.45	A	A - IN-LINE DISPOSABLE	B - PRESSURE	for metals only	

FIELD MEASUREMENTS

DEPTH TO WATER 108.65 (feet) WELL ELEVATION (feet)
WELL DEPTH 119.85 (feet) GROUNDWATER ELEVATION (feet)

TEMPERATURE	pH	TDS	SC	DO	ORP	VOLUME
16.98 (°C)	7.17 (std)	2.127 (g/L)	3273 (µS/cm)	0.65 (mg/L)	-80.5 (mV)	4.5 (gal)
15.15 (°C)	7.03 (std)	2.153 (g/L)	3314 (µS/cm)	2.00 (mg/L)	-37.5 (mV)	5.0 (gal)
15.54 (°C)	6.85 (std)	2.161 (g/L)	3325 (µS/cm)	1.41 (mg/L)	-52.4 (mV)	5.5 (gal)
(°C)	(std)	(g/L)	(µS/cm)	(mg/L)	(mV)	(gal)
(°C)	(std)	(g/L)	(µS/cm)	(mg/L)	(mV)	(gal)

FIELD COMMENTS

SAMPLE APPEARANCE: very silty ODOR: none COLOR: brown SHEEN Y/N no
WEATHER CONDITIONS: TEMPERATURE 30° WINDY Y/N no PRECIPITATION Y/N (IF Y TYPE) no
SPECIFIC COMMENTS:

Initial DO = 1.85 mg/L
BTEX DUP @ ~~1130~~ 1140
1.79 x 3 = 5.376

* pump stopped pumping @ 4.75 gallons will wait for recharge then remaining volume

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

DATE 1/7/14 PRINT Christine Mathews SIGNATURE Christine Mathews

APPENDIX D

GROUNDWATER LABORATORY ANALYTICAL REPORTS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

April 08, 2013

Christine Matthews
CRA
6121 Indian School Rd NE
Suite 200
Albuquerque, NM 87110

RE: Project: 075034 SAN JUAN 29-7 UNIT 37
Pace Project No.: 60141160

Dear Christine Matthews:
Enclosed are the analytical results for sample(s) received by the laboratory on March 27, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Alice Flanagan

alice.flanagan@pacelabs.com
Project Manager

Enclosures

cc: Kelly Blanchard, COP Conestoga-Rovers & Associa
Angela Bown, COP Conestoga-Rovers & Associa
Cassie Brown, COP Conestoga-Rovers & Associa
Jason Ploss, COP Conestoga-Rovers & Associa

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: 075034 SAN JUAN 29-7 UNIT 37
Pace Project No.: 60141160

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
A2LA Certification #: 2456.01
Arkansas Certification #: 12-019-0
Illinois Certification #: 002885
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-12-3
Utah Certification #: KS000212012-2
Illinois Certification #: 003097

Southeast Kansas Certification IDs
808 West McKay, Frontenac, KS 66763
Arkansas Certification #: 12-019-0
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Oklahoma Certification #: 2012-051
Texas Certification #: T104704407-12-3
Utah Certification #: KS000212012-2
Minnesota Certification #: 495004

Pace Analytical Services, Inc.
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Lenexa, KS 66219
(913)599-5665

SAMPLE SUMMARY

Project: 075034 SAN JUAN 29-7 UNIT 37
Pace Project No.: 60141160

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60141160001	**GW-075034-032613-CM-MW-1**	Water	03/26/13 14:35	03/27/13 08:45
60141160002	**GW-075034-032613-CM-MW-2**	Water	03/26/13 12:55	03/27/13 08:45
60141160003	**GW-075034-032613-CM-MW-3**	Water	03/26/13 13:25	03/27/13 08:45
60141160004	**GW-075034-032613-CM-MW-4**	Water	03/26/13 10:55	03/27/13 08:45
60141160005	**GW-075034-032613-CM-MW-5**	Water	03/26/13 12:00	03/27/13 08:45
60141160006	**GW-075034-032613-CM-MW-6**	Water	03/26/13 13:50	03/27/13 08:45
60141160007	**GW-075034-032613-CM-MW-7**	Water	03/26/13 11:30	03/27/13 08:45
60141160008	**GW-075034-032613-CM-DUP**	Water	03/26/13 13:55	03/27/13 08:45
60141160009	**TB-075034-032613-CM-001**	Water	03/26/13 16:00	03/27/13 08:45
60141160010	**GW-075034-032613-CM-MW-1**	Water	03/26/13 14:35	03/27/13 10:20
60141160011	**GW-075034-032613-CM-MW-2**	Water	03/26/13 12:55	03/27/13 10:20
60141160012	**GW-075034-032613-CM-MW-3**	Water	03/26/13 13:25	03/27/13 10:20
60141160013	**GW-075034-032613-CM-MW-4**	Water	03/26/13 10:55	03/27/13 10:20
60141160014	**GW-075034-032613-CM-MW-5**	Water	03/26/13 12:00	03/27/13 10:20
60141160015	**GW-075034-032613-CM-MW-6**	Water	03/26/13 13:50	03/27/13 10:20
60141160016	**GW-075034-032613-CM-MW-7**	Water	03/26/13 11:30	03/27/13 10:20

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SAMPLE ANALYTE COUNT

Project: 075034 SAN JUAN 29-7 UNIT 37
Pace Project No.: 60141160

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60141160001	**GW-075034-032613-CM-MW-1**	EPA 6010	TDS	2
		EPA 8260	RNS	9
		SM 2540C	JGH	1
		EPA 300.0	OL	1
		EPA 353.2	DJR	1
60141160002	**GW-075034-032613-CM-MW-2**	EPA 6010	TDS	2
		EPA 8260	RNS	9
		SM 2540C	JGH	1
		EPA 300.0	OL	1
		EPA 353.2	DJR	1
60141160003	**GW-075034-032613-CM-MW-3**	EPA 6010	TDS	2
		EPA 8260	RNS	9
		SM 2540C	JGH	1
		EPA 300.0	OL	1
		EPA 353.2	DJR	1
60141160004	**GW-075034-032613-CM-MW-4**	EPA 6010	TDS	2
		EPA 8260	RNS	9
		SM 2540C	JGH	1
		EPA 300.0	OL	1
		EPA 353.2	DJR	1
60141160005	**GW-075034-032613-CM-MW-5**	EPA 6010	TDS	2
		EPA 8260	RNS	9
		SM 2540C	JGH	1
		EPA 300.0	OL	1
		EPA 353.2	DJR	1
60141160006	**GW-075034-032613-CM-MW-6**	EPA 6010	TDS	2
		EPA 8260	RNS	9
		SM 2540C	JGH	1
		EPA 300.0	OL	1
		EPA 353.2	DJR	1
60141160007	**GW-075034-032613-CM-MW-7**	EPA 6010	TDS	2
		EPA 8260	RNS	9
		SM 2540C	JGH	1
		EPA 300.0	OL	1
		EPA 353.2	DJR	1
60141160008	**GW-075034-032613-CM-DUP**	SM 9215B	MEB	1
		EPA 8260	RNS	9

Pace Analytical Services, Inc.
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Lenexa, KS 66219
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SAMPLE ANALYTE COUNT

Project: 075034 SAN JUAN 29-7 UNIT 37
Pace Project No.: 60141160

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60141160009	**TB-075034-032613-CM-001**	EPA 8260	RNS	9
60141160010	**GW-075034-032613-CM-MW-1**	SM 9215B	MEB	1
60141160011	**GW-075034-032613-CM-MW-2**	SM 9215B	MEB	1
60141160012	**GW-075034-032613-CM-MW-3**	SM 9215B	MEB	1
60141160013	**GW-075034-032613-CM-MW-4**	SM 9215B	MEB	1
60141160014	**GW-075034-032613-CM-MW-5**	SM 9215B	MEB	1
60141160015	**GW-075034-032613-CM-MW-6**	SM 9215B	MEB	1
60141160016	**GW-075034-032613-CM-MW-7**	SM 9215B	MEB	1

Pace Analytical Services, Inc.
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PROJECT NARRATIVE

Project: 075034 SAN JUAN 29-7 UNIT 37
Pace Project No.: 60141160

Method: **EPA 6010**
Description: 6010 MET ICP, Dissolved
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: April 08, 2013

General Information:
7 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 075034 SAN JUAN 29-7 UNIT 37
Pace Project No.: 60141160

Method: **SM 9215B**
Description: MBIO HPC (Drinking Water)
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: April 08, 2013

General Information:
8 samples were analyzed for SM 9215B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

u3: Analysis initiated more than 8 hours but less than 24 hours after sample collection.
- GW-075034-032613-CM-DUP (Lab ID: 60141160008)
- GW-075034-032613-CM-MW-1 (Lab ID: 60141160010)
- GW-075034-032613-CM-MW-2 (Lab ID: 60141160011)
- GW-075034-032613-CM-MW-3 (Lab ID: 60141160012)
- GW-075034-032613-CM-MW-4 (Lab ID: 60141160013)
- GW-075034-032613-CM-MW-5 (Lab ID: 60141160014)
- GW-075034-032613-CM-MW-6 (Lab ID: 60141160015)
- GW-075034-032613-CM-MW-7 (Lab ID: 60141160016)

Sample Preparation:
The samples were prepared in accordance with SM 9215B with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 075034 SAN JUAN 29-7 UNIT 37
Pace Project No.: 60141160

Method: **EPA 8260**
Description: 8260 MSV UST, Water
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: April 08, 2013

General Information:
9 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/52710

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

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PROJECT NARRATIVE

Project: 075034 SAN JUAN 29-7 UNIT 37
Pace Project No.: 60141160

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: April 08, 2013

General Information:
7 samples were analyzed for SM 2540C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 075034 SAN JUAN 29-7 UNIT 37
Pace Project No.: 60141160

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: April 08, 2013

General Information:
7 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 075034 SAN JUAN 29-7 UNIT 37
Pace Project No.: 60141160

Method: **EPA 353.2**
Description: 353.2 Nitrogen, NO2/NO3 unpres
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: April 08, 2013

General Information:
7 samples were analyzed for EPA 353.2. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/24026

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60141165004,60141172001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1160139)
  - Nitrogen, Nitrate

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 075034 SAN JUAN 29-7 UNIT 37
Pace Project No.: 60141160

Sample: GW-075034-032613-CM-MW-1 **Lab ID: 60141160001** Collected: 03/26/13 14:35 Received: 03/27/13 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Manganese, Dissolved	**486**	ug/L	5.0	0.49	1	03/29/13 13:00	04/08/13 12:20	7439-96-5	
Selenium, Dissolved	**79.2**	ug/L	15.0	4.2	1	03/29/13 13:00	04/08/13 12:20	7782-49-2	
8260 MSV UST, Water	Analytical Method: EPA 8260								
Benzene	ND	ug/L	1.0	0.040	1		04/01/13 18:43	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.10	1		04/01/13 18:43	100-41-4	
Toluene	ND	ug/L	1.0	0.10	1		04/01/13 18:43	108-88-3	
Xylene (Total)	ND	ug/L	3.0	0.30	1		04/01/13 18:43	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	103	%	80-120		1		04/01/13 18:43	1868-53-7	
Toluene-d8 (S)	102	%	80-120		1		04/01/13 18:43	2037-26-5	
4-Bromofluorobenzene (S)	100	%	80-120		1		04/01/13 18:43	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	80-120		1		04/01/13 18:43	17060-07-0	
Preservation pH	**1.0**		1.0	0.10	1		04/01/13 18:43		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**1980**	mg/L	5.0	5.0	1		03/28/13 13:17		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**1000**	mg/L	100	18.0	100		04/02/13 09:53	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**37.0**	mg/L	1.0	0.51	10		03/27/13 13:30		

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ANALYTICAL RESULTS

Project: 075034 SAN JUAN 29-7 UNIT 37
Pace Project No.: 60141160

Sample: GW-075034-032613-CM-MW-2 **Lab ID: 60141160002** Collected: 03/26/13 12:55 Received: 03/27/13 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Manganese, Dissolved	**18.8**	ug/L	5.0	0.49	1	03/29/13 13:00	04/08/13 12:29	7439-96-5	
Selenium, Dissolved	**72.8**	ug/L	15.0	4.2	1	03/29/13 13:00	04/08/13 12:29	7782-49-2	
8260 MSV UST, Water	Analytical Method: EPA 8260								
Benzene	ND	ug/L	1.0	0.040	1		04/01/13 18:58	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.10	1		04/01/13 18:58	100-41-4	
Toluene	ND	ug/L	1.0	0.10	1		04/01/13 18:58	108-88-3	
Xylene (Total)	ND	ug/L	3.0	0.30	1		04/01/13 18:58	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	103	%	80-120		1		04/01/13 18:58	1868-53-7	
Toluene-d8 (S)	101	%	80-120		1		04/01/13 18:58	2037-26-5	
4-Bromofluorobenzene (S)	97	%	80-120		1		04/01/13 18:58	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	80-120		1		04/01/13 18:58	17060-07-0	
Preservation pH	**1.0**		1.0	0.10	1		04/01/13 18:58		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**1930**	mg/L	5.0	5.0	1		03/28/13 13:17		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**1200**	mg/L	100	18.0	100		04/02/13 10:39	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**43.3**	mg/L	1.0	0.51	10		03/27/13 13:26		

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ANALYTICAL RESULTS

Project: 075034 SAN JUAN 29-7 UNIT 37
Pace Project No.: 60141160

Sample: GW-075034-032613-CM-MW-3 **Lab ID: 60141160003** Collected: 03/26/13 13:25 Received: 03/27/13 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Manganese, Dissolved	**1830**	ug/L	5.0	0.49	1	03/29/13 13:00	04/08/13 12:31	7439-96-5	
Selenium, Dissolved	ND	ug/L	15.0	4.2	1	03/29/13 13:00	04/08/13 12:31	7782-49-2	
8260 MSV UST, Water	Analytical Method: EPA 8260								
Benzene	ND	ug/L	1.0	0.040	1		04/01/13 19:13	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.10	1		04/01/13 19:13	100-41-4	
Toluene	ND	ug/L	1.0	0.10	1		04/01/13 19:13	108-88-3	
Xylene (Total)	ND	ug/L	3.0	0.30	1		04/01/13 19:13	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	102	%	80-120		1		04/01/13 19:13	1868-53-7	
Toluene-d8 (S)	101	%	80-120		1		04/01/13 19:13	2037-26-5	
4-Bromofluorobenzene (S)	99	%	80-120		1		04/01/13 19:13	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	80-120		1		04/01/13 19:13	17060-07-0	
Preservation pH	**1.0**		1.0	0.10	1		04/01/13 19:13		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**2030**	mg/L	5.0	5.0	1		03/28/13 13:18		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**1080**	mg/L	100	18.0	100		04/02/13 11:25	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.42**	mg/L	0.10	0.051	1		03/27/13 13:12		

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ANALYTICAL RESULTS

Project: 075034 SAN JUAN 29-7 UNIT 37
Pace Project No.: 60141160

Sample: GW-075034-032613-CM-MW-4 **Lab ID: 60141160004** Collected: 03/26/13 10:55 Received: 03/27/13 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Manganese, Dissolved	**60.5**	ug/L	5.0	0.49	1	03/29/13 13:00	04/08/13 12:33	7439-96-5	
Selenium, Dissolved	**44.1**	ug/L	15.0	4.2	1	03/29/13 13:00	04/08/13 12:33	7782-49-2	
8260 MSV UST, Water	Analytical Method: EPA 8260								
Benzene	ND	ug/L	1.0	0.040	1		04/01/13 19:28	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.10	1		04/01/13 19:28	100-41-4	
Toluene	ND	ug/L	1.0	0.10	1		04/01/13 19:28	108-88-3	
Xylene (Total)	ND	ug/L	3.0	0.30	1		04/01/13 19:28	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	102	%	80-120		1		04/01/13 19:28	1868-53-7	
Toluene-d8 (S)	101	%	80-120		1		04/01/13 19:28	2037-26-5	
4-Bromofluorobenzene (S)	101	%	80-120		1		04/01/13 19:28	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	80-120		1		04/01/13 19:28	17060-07-0	
Preservation pH	**1.0**		1.0	0.10	1		04/01/13 19:28		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**1950**	mg/L	5.0	5.0	1		03/28/13 13:18		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**1200**	mg/L	100	18.0	100		04/02/13 11:40	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**8.9**	mg/L	0.50	0.26	5		03/27/13 13:25		

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ANALYTICAL RESULTS

Project: 075034 SAN JUAN 29-7 UNIT 37
Pace Project No.: 60141160

Sample: GW-075034-032613-CM-MW-5 **Lab ID: 60141160005** Collected: 03/26/13 12:00 Received: 03/27/13 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Manganese, Dissolved	**356**	ug/L	5.0	0.49	1	03/29/13 13:00	04/08/13 12:39	7439-96-5	
Selenium, Dissolved	ND	ug/L	15.0	4.2	1	03/29/13 13:00	04/08/13 12:39	7782-49-2	
8260 MSV UST, Water	Analytical Method: EPA 8260								
Benzene	ND	ug/L	1.0	0.040	1		04/01/13 19:43	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.10	1		04/01/13 19:43	100-41-4	
Toluene	ND	ug/L	1.0	0.10	1		04/01/13 19:43	108-88-3	
Xylene (Total)	ND	ug/L	3.0	0.30	1		04/01/13 19:43	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	103	%	80-120		1		04/01/13 19:43	1868-53-7	
Toluene-d8 (S)	102	%	80-120		1		04/01/13 19:43	2037-26-5	
4-Bromofluorobenzene (S)	102	%	80-120		1		04/01/13 19:43	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	80-120		1		04/01/13 19:43	17060-07-0	
Preservation pH	**1.0**		1.0	0.10	1		04/01/13 19:43		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**2370**	mg/L	5.0	5.0	1		03/28/13 13:18		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**1700**	mg/L	200	36.0	200		04/02/13 11:56	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.30**	mg/L	0.10	0.051	1		03/27/13 13:09		

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ANALYTICAL RESULTS

Project: 075034 SAN JUAN 29-7 UNIT 37
Pace Project No.: 60141160

Sample: GW-075034-032613-CM-MW-6 **Lab ID: 60141160006** Collected: 03/26/13 13:50 Received: 03/27/13 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Manganese, Dissolved	**282**	ug/L	5.0	0.49	1	03/29/13 13:00	04/08/13 12:41	7439-96-5	
Selenium, Dissolved	**60.2**	ug/L	15.0	4.2	1	03/29/13 13:00	04/08/13 12:41	7782-49-2	
8260 MSV UST, Water	Analytical Method: EPA 8260								
Benzene	**2.2**	ug/L	1.0	0.040	1		04/01/13 19:58	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.10	1		04/01/13 19:58	100-41-4	
Toluene	ND	ug/L	1.0	0.10	1		04/01/13 19:58	108-88-3	
Xylene (Total)	ND	ug/L	3.0	0.30	1		04/01/13 19:58	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	105	%	80-120		1		04/01/13 19:58	1868-53-7	
Toluene-d8 (S)	101	%	80-120		1		04/01/13 19:58	2037-26-5	
4-Bromofluorobenzene (S)	98	%	80-120		1		04/01/13 19:58	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	80-120		1		04/01/13 19:58	17060-07-0	
Preservation pH	**1.0**		1.0	0.10	1		04/01/13 19:58		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**1740**	mg/L	5.0	5.0	1		03/28/13 13:18		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**945**	mg/L	100	18.0	100		04/02/13 12:11	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**30.9**	mg/L	1.0	0.51	10		03/27/13 13:27		

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ANALYTICAL RESULTS

Project: 075034 SAN JUAN 29-7 UNIT 37
Pace Project No.: 60141160

Sample: GW-075034-032613-CM-MW-7 **Lab ID: 60141160007** Collected: 03/26/13 11:30 Received: 03/27/13 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Manganese, Dissolved	ND	ug/L	5.0	0.49	1	03/29/13 13:00	04/08/13 12:43	7439-96-5	
Selenium, Dissolved	ND	ug/L	15.0	4.2	1	03/29/13 13:00	04/08/13 12:43	7782-49-2	
8260 MSV UST, Water	Analytical Method: EPA 8260								
Benzene	ND	ug/L	1.0	0.040	1		04/01/13 20:13	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.10	1		04/01/13 20:13	100-41-4	
Toluene	ND	ug/L	1.0	0.10	1		04/01/13 20:13	108-88-3	
Xylene (Total)	ND	ug/L	3.0	0.30	1		04/01/13 20:13	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	104	%	80-120		1		04/01/13 20:13	1868-53-7	
Toluene-d8 (S)	102	%	80-120		1		04/01/13 20:13	2037-26-5	
4-Bromofluorobenzene (S)	98	%	80-120		1		04/01/13 20:13	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	80-120		1		04/01/13 20:13	17060-07-0	
Preservation pH	**1.0**		1.0	0.10	1		04/01/13 20:13		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**3050**	mg/L	5.0	5.0	1		03/28/13 13:19		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**1730**	mg/L	200	36.0	200		04/02/13 12:27	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**5.3**	mg/L	0.50	0.26	5		03/27/13 13:26		

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ANALYTICAL RESULTS

Project: 075034 SAN JUAN 29-7 UNIT 37
Pace Project No.: 60141160

Sample: GW-075034-032613-CM-DUP **Lab ID: 60141160008** Collected: 03/26/13 13:55 Received: 03/27/13 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
MBIO HPC (Drinking Water)	Analytical Method: SM 9215B Preparation Method: SM 9215B								
Heterotrophic Plate Count	**27000**	CFU/mL	1.0	1.0	1	03/27/13 10:50	03/29/13 11:00		u3
8260 MSV UST, Water	Analytical Method: EPA 8260								
Benzene	**2.3**	ug/L	1.0	0.040	1		04/01/13 20:28	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.10	1		04/01/13 20:28	100-41-4	
Toluene	ND	ug/L	1.0	0.10	1		04/01/13 20:28	108-88-3	
Xylene (Total)	ND	ug/L	3.0	0.30	1		04/01/13 20:28	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	103	%	80-120		1		04/01/13 20:28	1868-53-7	
Toluene-d8 (S)	103	%	80-120		1		04/01/13 20:28	2037-26-5	
4-Bromofluorobenzene (S)	98	%	80-120		1		04/01/13 20:28	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	80-120		1		04/01/13 20:28	17060-07-0	
Preservation pH	**1.0**		1.0	0.10	1		04/01/13 20:28		

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ANALYTICAL RESULTS

Project: 075034 SAN JUAN 29-7 UNIT 37
Pace Project No.: 60141160

Sample: TB-075034-032613-CM-001 **Lab ID: 60141160009** Collected: 03/26/13 16:00 Received: 03/27/13 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST, Water	Analytical Method: EPA 8260								
Benzene	ND	ug/L	1.0	0.040	1		04/01/13 20:43	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.10	1		04/01/13 20:43	100-41-4	
Toluene	ND	ug/L	1.0	0.10	1		04/01/13 20:43	108-88-3	
Xylene (Total)	ND	ug/L	3.0	0.30	1		04/01/13 20:43	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	103	%	80-120		1		04/01/13 20:43	1868-53-7	
Toluene-d8 (S)	102	%	80-120		1		04/01/13 20:43	2037-26-5	
4-Bromofluorobenzene (S)	97	%	80-120		1		04/01/13 20:43	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	80-120		1		04/01/13 20:43	17060-07-0	
Preservation pH	**1.0**		1.0	0.10	1		04/01/13 20:43		

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ANALYTICAL RESULTS

Project: 075034 SAN JUAN 29-7 UNIT 37
Pace Project No.: 60141160

Sample: GW-075034-032613-CM-MW-1 **Lab ID: 60141160010** Collected: 03/26/13 14:35 Received: 03/27/13 10:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
MBIO HPC (Drinking Water)	Analytical Method: SM 9215B Preparation Method: SM 9215B								
Heterotrophic Plate Count	**280000**	CFU/mL	1.0	1.0	1	03/27/13 10:50	03/29/13 11:00		u3

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ANALYTICAL RESULTS

Project: 075034 SAN JUAN 29-7 UNIT 37
Pace Project No.: 60141160

Sample: GW-075034-032613-CM-MW-2 **Lab ID: 60141160011** Collected: 03/26/13 12:55 Received: 03/27/13 10:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
MBIO HPC (Drinking Water)	Analytical Method: SM 9215B Preparation Method: SM 9215B								
Heterotrophic Plate Count	**4100**	CFU/mL	1.0	1.0	1	03/27/13 10:50	03/29/13 11:00		u3

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ANALYTICAL RESULTS

Project: 075034 SAN JUAN 29-7 UNIT 37
Pace Project No.: 60141160

Sample: GW-075034-032613-CM-MW-3 **Lab ID: 60141160012** Collected: 03/26/13 13:25 Received: 03/27/13 10:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
MBIO HPC (Drinking Water)	Analytical Method: SM 9215B Preparation Method: SM 9215B								
Heterotrophic Plate Count	**70**	CFU/mL	1.0	1.0	1	03/27/13 10:50	03/29/13 11:00		u3

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ANALYTICAL RESULTS

Project: 075034 SAN JUAN 29-7 UNIT 37
Pace Project No.: 60141160

Sample: GW-075034-032613-CM-MW-4 **Lab ID: 60141160013** Collected: 03/26/13 10:55 Received: 03/27/13 10:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
MBIO HPC (Drinking Water)	Analytical Method: SM 9215B Preparation Method: SM 9215B								
Heterotrophic Plate Count	**42500**	CFU/mL	1.0	1.0	1	03/27/13 10:50	03/29/13 11:00		u3

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ANALYTICAL RESULTS

Project: 075034 SAN JUAN 29-7 UNIT 37
Pace Project No.: 60141160

Sample: GW-075034-032613-CM-MW-5 **Lab ID: 60141160014** Collected: 03/26/13 12:00 Received: 03/27/13 10:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
MBIO HPC (Drinking Water)	Analytical Method: SM 9215B Preparation Method: SM 9215B								
Heterotrophic Plate Count	**16950**	CFU/mL	1.0	1.0	1	03/27/13 10:50	03/29/13 11:00		u3

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ANALYTICAL RESULTS

Project: 075034 SAN JUAN 29-7 UNIT 37
Pace Project No.: 60141160

Sample: GW-075034-032613-CM-MW-6 **Lab ID: 60141160015** Collected: 03/26/13 13:50 Received: 03/27/13 10:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
MBIO HPC (Drinking Water)	Analytical Method: SM 9215B Preparation Method: SM 9215B								
Heterotrophic Plate Count	**25500**	CFU/mL	1.0	1.0	1	03/27/13 10:50	03/29/13 11:00		u3

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ANALYTICAL RESULTS

Project: 075034 SAN JUAN 29-7 UNIT 37
Pace Project No.: 60141160

Sample: GW-075034-032613-CM-MW-7 **Lab ID: 60141160016** Collected: 03/26/13 11:30 Received: 03/27/13 10:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
MBIO HPC (Drinking Water)	Analytical Method: SM 9215B Preparation Method: SM 9215B								
Heterotrophic Plate Count	**79**	CFU/mL	1.0	1.0	1	03/27/13 10:50	03/29/13 11:00		u3

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QUALITY CONTROL DATA

Project: 075034 SAN JUAN 29-7 UNIT 37
Pace Project No.: 60141160

QC Batch: MBIO/11046 Analysis Method: SM 9215B
QC Batch Method: SM 9215B Analysis Description: 9215B Heterotrophic Plate Count
Associated Lab Samples: 60141160008, 60141160010, 60141160011, 60141160012, 60141160013, 60141160014, 60141160015, 60141160016

METHOD BLANK: 1161715 Matrix: Solid
Associated Lab Samples: 60141160008, 60141160010, 60141160011, 60141160012, 60141160013, 60141160014, 60141160015, 60141160016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Heterotrophic Plate Count	CFU/mL	<1	1.0	03/29/13 11:00	

SAMPLE DUPLICATE: 1161716

Parameter	Units	60141160010 Result	Dup Result	RPD	Max RPD	Qualifiers
Heterotrophic Plate Count	CFU/mL	280000	285000			

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QUALITY CONTROL DATA

Project: 075034 SAN JUAN 29-7 UNIT 37
Pace Project No.: 60141160

QC Batch: MPRP/22082 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET Dissolved
Associated Lab Samples: 60141160001, 60141160002, 60141160003, 60141160004, 60141160005, 60141160006, 60141160007

METHOD BLANK: 1161645 Matrix: Water
Associated Lab Samples: 60141160001, 60141160002, 60141160003, 60141160004, 60141160005, 60141160006, 60141160007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Manganese, Dissolved	ug/L	ND	5.0	04/08/13 12:16	
Selenium, Dissolved	ug/L	ND	15.0	04/08/13 12:16	

LABORATORY CONTROL SAMPLE: 1161646

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese, Dissolved	ug/L	1000	1050	105	80-120	
Selenium, Dissolved	ug/L	1000	1040	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1161647 1161648

Parameter	Units	60141160001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Manganese, Dissolved	ug/L	486	1000	1000	1500	1430	101	95	75-125	5	20	
Selenium, Dissolved	ug/L	79.2	1000	1000	1140	1160	106	108	75-125	2	20	

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QUALITY CONTROL DATA

Project: 075034 SAN JUAN 29-7 UNIT 37
Pace Project No.: 60141160

QC Batch: MSV/52710 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 60141160001, 60141160002, 60141160003, 60141160004, 60141160005, 60141160006, 60141160007, 60141160008, 60141160009

METHOD BLANK: 1162930 Matrix: Water
Associated Lab Samples: 60141160001, 60141160002, 60141160003, 60141160004, 60141160005, 60141160006, 60141160007, 60141160008, 60141160009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	04/01/13 17:13	
Ethylbenzene	ug/L	ND	1.0	04/01/13 17:13	
Toluene	ug/L	ND	1.0	04/01/13 17:13	
Xylene (Total)	ug/L	ND	3.0	04/01/13 17:13	
1,2-Dichloroethane-d4 (S)	%	99	80-120	04/01/13 17:13	
4-Bromofluorobenzene (S)	%	98	80-120	04/01/13 17:13	
Dibromofluoromethane (S)	%	100	80-120	04/01/13 17:13	
Toluene-d8 (S)	%	103	80-120	04/01/13 17:13	

LABORATORY CONTROL SAMPLE: 1162931

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	17.1	86	73-122	
Ethylbenzene	ug/L	20	16.2	81	76-123	
Toluene	ug/L	20	16.2	81	76-122	
Xylene (Total)	ug/L	60	47.5	79	76-122	
1,2-Dichloroethane-d4 (S)	%			110	80-120	
4-Bromofluorobenzene (S)	%			97	80-120	
Dibromofluoromethane (S)	%			107	80-120	
Toluene-d8 (S)	%			101	80-120	

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QUALITY CONTROL DATA

Project: 075034 SAN JUAN 29-7 UNIT 37
Pace Project No.: 60141160

QC Batch: WET/40450 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 60141160001, 60141160002, 60141160003, 60141160004, 60141160005, 60141160006, 60141160007

METHOD BLANK: 1160565 Matrix: Water
Associated Lab Samples: 60141160001, 60141160002, 60141160003, 60141160004, 60141160005, 60141160006, 60141160007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	03/28/13 13:12	

SAMPLE DUPLICATE: 1160566

Parameter	Units	60140990007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	238	239	0	17	

SAMPLE DUPLICATE: 1160567

Parameter	Units	60141155004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2010	1980	2	17	

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QUALITY CONTROL DATA

Project: 075034 SAN JUAN 29-7 UNIT 37
Pace Project No.: 60141160

QC Batch: WETA/24083 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60141160001, 60141160002, 60141160003, 60141160004, 60141160005, 60141160006, 60141160007

METHOD BLANK: 1163135 Matrix: Water
Associated Lab Samples: 60141160001, 60141160002, 60141160003, 60141160004, 60141160005, 60141160006, 60141160007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	1.0	04/02/13 09:22	

LABORATORY CONTROL SAMPLE: 1163136

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	5	5.0	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1162949 1162950

Parameter	Units	60141160001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	1000	500	500	1440	1440	88	87	61-119	0	10	

MATRIX SPIKE SAMPLE: 1162951

Parameter	Units	60141238002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	216	100	316	100	61-119	

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QUALITY CONTROL DATA

Project: 075034 SAN JUAN 29-7 UNIT 37
Pace Project No.: 60141160

QC Batch: WETA/24026 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 60141160001, 60141160002, 60141160003, 60141160004, 60141160005, 60141160006, 60141160007

METHOD BLANK: 1160137 Matrix: Water
Associated Lab Samples: 60141160001, 60141160002, 60141160003, 60141160004, 60141160005, 60141160006, 60141160007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	03/27/13 12:59	

LABORATORY CONTROL SAMPLE: 1160138

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1.6	1.7	109	90-110	

MATRIX SPIKE SAMPLE: 1160139

Parameter	Units	60141165004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	ND	1.6	1.8	112	90-110	M1

MATRIX SPIKE SAMPLE: 1160141

Parameter	Units	60141172001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	52.7	32	81.1	89	90-110	M6

SAMPLE DUPLICATE: 1160140

Parameter	Units	60141173001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	45.6	44.9	2	15	

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QUALIFIERS

Project: 075034 SAN JUAN 29-7 UNIT 37
Pace Project No.: 60141160

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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BATCH QUALIFIERS

Batch: MSV/52710

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

u3 Analysis initiated more than 8 hours but less than 24 hours after sample collection.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 075034 SAN JUAN 29-7 UNIT 37
Pace Project No.: 60141160

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60141160001	**GW-075034-032613-CM-MW-1**	EPA 3010	MPRP/22082	EPA 6010	ICP/17624
60141160002	**GW-075034-032613-CM-MW-2**	EPA 3010	MPRP/22082	EPA 6010	ICP/17624
60141160003	**GW-075034-032613-CM-MW-3**	EPA 3010	MPRP/22082	EPA 6010	ICP/17624
60141160004	**GW-075034-032613-CM-MW-4**	EPA 3010	MPRP/22082	EPA 6010	ICP/17624
60141160005	**GW-075034-032613-CM-MW-5**	EPA 3010	MPRP/22082	EPA 6010	ICP/17624
60141160006	**GW-075034-032613-CM-MW-6**	EPA 3010	MPRP/22082	EPA 6010	ICP/17624
60141160007	**GW-075034-032613-CM-MW-7**	EPA 3010	MPRP/22082	EPA 6010	ICP/17624
60141160008	**GW-075034-032613-CM-DUP**	SM 9215B	MBIO/11046	SM 9215B	MBIO/11047
60141160010	**GW-075034-032613-CM-MW-1**	SM 9215B	MBIO/11046	SM 9215B	MBIO/11047
60141160011	**GW-075034-032613-CM-MW-2**	SM 9215B	MBIO/11046	SM 9215B	MBIO/11047
60141160012	**GW-075034-032613-CM-MW-3**	SM 9215B	MBIO/11046	SM 9215B	MBIO/11047
60141160013	**GW-075034-032613-CM-MW-4**	SM 9215B	MBIO/11046	SM 9215B	MBIO/11047
60141160014	**GW-075034-032613-CM-MW-5**	SM 9215B	MBIO/11046	SM 9215B	MBIO/11047
60141160015	**GW-075034-032613-CM-MW-6**	SM 9215B	MBIO/11046	SM 9215B	MBIO/11047
60141160016	**GW-075034-032613-CM-MW-7**	SM 9215B	MBIO/11046	SM 9215B	MBIO/11047
60141160001	**GW-075034-032613-CM-MW-1**	EPA 8260	MSV/52710		
60141160002	**GW-075034-032613-CM-MW-2**	EPA 8260	MSV/52710		
60141160003	**GW-075034-032613-CM-MW-3**	EPA 8260	MSV/52710		
60141160004	**GW-075034-032613-CM-MW-4**	EPA 8260	MSV/52710		
60141160005	**GW-075034-032613-CM-MW-5**	EPA 8260	MSV/52710		
60141160006	**GW-075034-032613-CM-MW-6**	EPA 8260	MSV/52710		
60141160007	**GW-075034-032613-CM-MW-7**	EPA 8260	MSV/52710		
60141160008	**GW-075034-032613-CM-DUP**	EPA 8260	MSV/52710		
60141160009	**TB-075034-032613-CM-001**	EPA 8260	MSV/52710		
60141160001	**GW-075034-032613-CM-MW-1**	SM 2540C	WET/40450		
60141160002	**GW-075034-032613-CM-MW-2**	SM 2540C	WET/40450		
60141160003	**GW-075034-032613-CM-MW-3**	SM 2540C	WET/40450		
60141160004	**GW-075034-032613-CM-MW-4**	SM 2540C	WET/40450		
60141160005	**GW-075034-032613-CM-MW-5**	SM 2540C	WET/40450		
60141160006	**GW-075034-032613-CM-MW-6**	SM 2540C	WET/40450		
60141160007	**GW-075034-032613-CM-MW-7**	SM 2540C	WET/40450		
60141160001	**GW-075034-032613-CM-MW-1**	EPA 300.0	WETA/24083		
60141160002	**GW-075034-032613-CM-MW-2**	EPA 300.0	WETA/24083		
60141160003	**GW-075034-032613-CM-MW-3**	EPA 300.0	WETA/24083		
60141160004	**GW-075034-032613-CM-MW-4**	EPA 300.0	WETA/24083		
60141160005	**GW-075034-032613-CM-MW-5**	EPA 300.0	WETA/24083		
60141160006	**GW-075034-032613-CM-MW-6**	EPA 300.0	WETA/24083		
60141160007	**GW-075034-032613-CM-MW-7**	EPA 300.0	WETA/24083		
60141160001	**GW-075034-032613-CM-MW-1**	EPA 353.2	WETA/24026		
60141160002	**GW-075034-032613-CM-MW-2**	EPA 353.2	WETA/24026		
60141160003	**GW-075034-032613-CM-MW-3**	EPA 353.2	WETA/24026		
60141160004	**GW-075034-032613-CM-MW-4**	EPA 353.2	WETA/24026		
60141160005	**GW-075034-032613-CM-MW-5**	EPA 353.2	WETA/24026		
60141160006	**GW-075034-032613-CM-MW-6**	EPA 353.2	WETA/24026		
60141160007	**GW-075034-032613-CM-MW-7**	EPA 353.2	WETA/24026		

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Sample Condition Upon Receipt
ESI Tech Spec Client

WO# : 60141160

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Client Name: COP- CRA NM

Optional
Proj Due Date:
Proj Name:

Courier: Fed Ex ☑ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other ☐

Tracking #: 8023 6946 6375 Pace Shipping Label Used? Yes ☐ No ☑

Custody Seal on Cooler/Box Present: Yes ☑ No ☐ Seals intact: Yes ☑ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☐ Foam ☑ None ☐ Other ☑ Zip

Thermometer Used: T-112 / T-194 **Type of Ice:** Wet Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 2-6

Date and initials of person examining contents: 3/27/13

Temperature should be above freezing to 6°C

Chain of Custody present:	☑Yes ☐No ☐N/A	1.
Chain of Custody filled out:	☑Yes ☐No ☐N/A	2.
Chain of Custody relinquished:	☑Yes ☐No ☐N/A	3.
Sampler name & signature on COC:	☑Yes ☐No ☐N/A	4.
Samples arrived within holding time:	☑Yes ☐No ☐N/A	5.
Short Hold Time analyses (<72hr):	☑Yes ☐No ☐N/A	6. NO3
Rush Turn Around Time requested:	☐Yes ☑No ☐N/A	7.
Sufficient volume:	☑Yes ☐No ☐N/A	8.
Correct containers used:	☑Yes ☐No ☐N/A	
Pace containers used:	☑Yes ☐No ☐N/A	9.
Containers intact:	☑Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☑N/A	11.
Filtered volume received for dissolved tests?	☐Yes ☐No ☑N/A	12.
Sample labels match COC:	☑Yes ☐No ☐N/A	sample # 1 collected @ 1335
Includes date/time/ID/analyses Matrix: WT		13.
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	14.
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☑Yes ☐No	Initial when completed / Lot # of added preservative
Trip Blank present:	☑Yes ☐No ☐N/A	
Pace Trip Blank lot # (if purchased): 030413-3		15.
Headspace in VOA vials (>6mm):	☐Yes ☑No ☐N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☑N/A	17. List State:

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: AAF Date: 3/27/13

Temp Log: Record start and finish times when unpacking cooler, if >20 min, recheck sample temps.	
Start 0920	Start:
End: 0930	End:
Temp:	Temp:

Pace Analytical
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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: of

Section A
Required Client Information:

Company:	COP CRA NM
Address:	6121 Indian School Rd NE, Ste 200
	Albequerque, NM 87110
Email To:	cmathews@craworld.com
Phone:	(505)884-0672 Fax (505)884-4932
Requested Due Date/TAT:	standard

Section B
Required Project Information:

Report To:	Christine Mathews
Copy To:	Kelly Blanchard, Angela Bown, Cassie Brown
Purchase Order No.:	
Project Name:	San Juan 29-7 Unit 37
Project Number:	075034-95

Section C
Invoice Information:

Attention:	ENFOS
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Alice Flanagan
Pace Profile #:	5514

REGULATORY AGENCY

NPDES / GROUND WATER / DRINKING WATER / UST / RCRA / OTHER

Site Location STATE: NM

Section D
Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Valid Matrix Codes: DRINKING WATER DW, WATER WT, WASTE WATER WW, PRODUCT P, SOIL/SOLID SL, OIL OL, WIPE WP, AIR AR, OTHER OT, TISSUE TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	Composite Start DATE	Composite Start TIME	Composite End/Grab DATE	Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	8260 BTEX	Dissolved Mn and SE	HPC 9251B	Nitrates 353.2	Sulfate 300.0	TDS SM 2540C	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 6014 1160
1	GW-075034-032613-CM-MW-1	WT	G			3.26.13			6	X		X	X				X	X	X	X	X	X	X		306914, 1BP3U, 1BP3N 2-0 001/010
2	GW-075034-032613-CM-MW-2	WT	G			3.26.13	1155		6	X		X	X				X	X	X	X	X	X	X		002/011
3	GW-075034-032613-CM-MW-3	WT	G			3.26.13	1225		6	X		X	X				X	X	X	X	X	X	X		003/012
4	GW-075034-032613-CM-MW-4	WT	G			3.26.13	0955		6	X		X	X				X	X	X	X	X	X	X		004/013
5	GW-075034-032613-CM-MW-5	WT	G			3.26.13	1100		6	X		X	X				X	X	X	X	X	X	X		005/014
6	GW-075034-032613-CM-MW-6	WT	G			3.26.13	1250		6	X		X	X				X	X	X	X	X	X	X		006/015
7	GW-075034-032613-CM-MW-7	WT	G			3.26.13	1030		6	X		X	X				X	X	X	X	X	X	X		007/016
8	GW-075034-032613-CM-DUP	WT	G			3.26.13	1255		3				X				X	X							008
9	TB-075034-032613-CM-001	WT				3.26.13	1500						X					X							20G9H (TB) 009
10																									
11																									
12																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
HPC Samples sent to Frontenac, KS	[signature] / CRA	3.26.13	1515	E Brockett	3/27	0845	2.6	Y	Y	Y
ALL SAMPLES COLLECTED MOUNTAIN STANDARD TIME										

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Christine Mathews

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 3.26.13

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev 08, 12-Oct-2007

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

June 26, 2013

Christine Matthews
CRA
6121 Indian School Rd NE
Suite 200
Albuquerque, NM 87110

RE: Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60146648

Dear Christine Matthews:
Enclosed are the analytical results for sample(s) received by the laboratory on June 12, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Alice Flanagan

alice.flanagan@pacelabs.com
Project Manager

Enclosures

cc: Kelly Blanchard, COP Conestoga-Rovers & Associa
Angela Bown, COP Conestoga-Rovers & Associa
Cassie Brown, COP Conestoga-Rovers & Associa
Jason Ploss, COP Conestoga-Rovers & Associa

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CERTIFICATIONS

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60146648

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 13-012-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-13-4
Utah Certification #: KS000212013-3
Illinois Certification #: 003097

Southeast Kansas Certification IDs
808 West McKay, Frontenac, KS 66763
Arkansas Certification #: 13-012-0
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Oklahoma Certification #: 2012-051
Texas Certification #: T104704407-13-4
Utah Certification #: KS000212013-3
Minnesota Certification #: 495004

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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SAMPLE SUMMARY

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60146648

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60146648001	**GW-075034-061113-JK-MW1**	Water	06/11/13 13:00	06/12/13 08:15
60146648002	**GW-075034-061113-JK-MW2**	Water	06/11/13 13:58	06/12/13 08:15
60146648003	**GW-075034-061113-JK-MW3**	Water	06/11/13 13:50	06/12/13 08:15
60146648004	**GW-075034-061113-JK-MW4**	Water	06/11/13 13:20	06/12/13 08:15
60146648005	**GW-075034-061113-JK-MW5**	Water	06/11/13 13:40	06/12/13 08:15
60146648006	**GW-075034-061113-JK-MW6**	Water	06/11/13 13:30	06/12/13 08:15
60146648007	**GW-075034-061113-JK-MW7**	Water	06/11/13 13:10	06/12/13 08:15
60146648008	**GW-075034-061113-JK-DUP**	Water	06/11/13 08:00	06/12/13 08:15
60146648009	**TRIP BLANK**	Water	06/11/13 13:00	06/12/13 08:15

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SAMPLE ANALYTE COUNT

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60146648

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60146648001	GW-075034-061113-JK-MW1	EPA 6010	SMW	2
		SM 9215B	TDH	1
		EPA 8260	JTK	9
		EPA 300.0	OL	1
		EPA 353.2	DJR	1
60146648002	GW-075034-061113-JK-MW2	EPA 6010	SMW	2
		SM 9215B	TDH	1
		EPA 8260	JTK	9
		EPA 300.0	OL	1
		EPA 353.2	DJR	1
60146648003	GW-075034-061113-JK-MW3	EPA 6010	SMW	2
		SM 9215B	TDH	1
		EPA 8260	JTK	9
		EPA 300.0	OL	1
		EPA 353.2	DJR	1
60146648004	GW-075034-061113-JK-MW4	EPA 6010	SMW	2
		SM 9215B	TDH	1
		EPA 8260	JTK	9
		EPA 300.0	OL	1
		EPA 353.2	DJR	1
60146648005	GW-075034-061113-JK-MW5	EPA 6010	SMW	2
		SM 9215B	TDH	1
		EPA 8260	JTK	9
		EPA 300.0	OL	1
		EPA 353.2	DJR	1
60146648006	GW-075034-061113-JK-MW6	EPA 6010	SMW	2
		SM 9215B	TDH	1
		EPA 8260	JTS	9
		EPA 300.0	OL	1
		EPA 353.2	DJR	1
60146648007	GW-075034-061113-JK-MW7	EPA 6010	SMW	2
		SM 9215B	TDH	1
		EPA 8260	JTS	9
		EPA 300.0	OL	1
		EPA 353.2	DJR	1
60146648008	GW-075034-061113-JK-DUP	EPA 8260	JTS	9
60146648009	TRIP BLANK	EPA 8260	JTS	9

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PROJECT NARRATIVE

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60146648

Method: **EPA 6010**
Description: 6010 MET ICP, Dissolved
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: June 26, 2013

General Information:
7 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Sample Comments:

HPC Samples received in laboratory 6/12/13 0850
- GW-075034-061113-JK-MW1 (Lab ID: 60146648001)
- GW-075034-061113-JK-MW2 (Lab ID: 60146648002)
- GW-075034-061113-JK-MW3 (Lab ID: 60146648003)
- GW-075034-061113-JK-MW4 (Lab ID: 60146648004)
- GW-075034-061113-JK-MW5 (Lab ID: 60146648005)
- GW-075034-061113-JK-MW6 (Lab ID: 60146648006)
- GW-075034-061113-JK-MW7 (Lab ID: 60146648007)

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PROJECT NARRATIVE

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60146648

Method: **SM 9215B**
Description: MBIO HPC (Drinking Water)
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: June 26, 2013

General Information:
7 samples were analyzed for SM 9215B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

u3: Analysis initiated more than 8 hours but less than 24 hours after sample collection.
- GW-075034-061113-JK-MW1 (Lab ID: 60146648001)
- GW-075034-061113-JK-MW2 (Lab ID: 60146648002)
- GW-075034-061113-JK-MW3 (Lab ID: 60146648003)
- GW-075034-061113-JK-MW4 (Lab ID: 60146648004)
- GW-075034-061113-JK-MW5 (Lab ID: 60146648005)
- GW-075034-061113-JK-MW6 (Lab ID: 60146648006)
- GW-075034-061113-JK-MW7 (Lab ID: 60146648007)

Sample Preparation:
The samples were prepared in accordance with SM 9215B with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Sample Comments:

HPC Samples received in laboratory 6/12/13 0850
- GW-075034-061113-JK-MW1 (Lab ID: 60146648001)
- GW-075034-061113-JK-MW2 (Lab ID: 60146648002)
- GW-075034-061113-JK-MW3 (Lab ID: 60146648003)
- GW-075034-061113-JK-MW4 (Lab ID: 60146648004)
- GW-075034-061113-JK-MW5 (Lab ID: 60146648005)
- GW-075034-061113-JK-MW6 (Lab ID: 60146648006)
- GW-075034-061113-JK-MW7 (Lab ID: 60146648007)

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PROJECT NARRATIVE

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60146648

Method: **EPA 8260**
Description: 8260 MSV UST, Water
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: June 26, 2013

General Information:
9 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: MSV/54395

S0: Surrogate recovery outside laboratory control limits.

- GW-075034-061113-JK-MW2 (Lab ID: 60146648002)
  - 4-Bromofluorobenzene (S)

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/54396

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

Sample Comments:

HPC Samples received in laboratory 6/12/13 0850

- GW-075034-061113-JK-MW1 (Lab ID: 60146648001)
- GW-075034-061113-JK-MW2 (Lab ID: 60146648002)
- GW-075034-061113-JK-MW3 (Lab ID: 60146648003)
- GW-075034-061113-JK-MW4 (Lab ID: 60146648004)
- GW-075034-061113-JK-MW5 (Lab ID: 60146648005)
- GW-075034-061113-JK-MW6 (Lab ID: 60146648006)

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PROJECT NARRATIVE

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60146648

Method: **EPA 8260**
Description: 8260 MSV UST, Water
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: June 26, 2013

Sample Comments:

HPC Samples received in laboratory 6/12/13 0850
- GW-075034-061113-JK-MW7 (Lab ID: 60146648007)

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PROJECT NARRATIVE

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60146648

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: June 26, 2013

General Information:
7 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Sample Comments:

HPC Samples received in laboratory 6/12/13 0850

- GW-075034-061113-JK-MW1 (Lab ID: 60146648001)
- GW-075034-061113-JK-MW2 (Lab ID: 60146648002)
- GW-075034-061113-JK-MW3 (Lab ID: 60146648003)
- GW-075034-061113-JK-MW4 (Lab ID: 60146648004)
- GW-075034-061113-JK-MW5 (Lab ID: 60146648005)
- GW-075034-061113-JK-MW6 (Lab ID: 60146648006)
- GW-075034-061113-JK-MW7 (Lab ID: 60146648007)

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PROJECT NARRATIVE

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60146648

Method: **EPA 353.2**
Description: 353.2 Nitrogen, NO2/NO3 unpres
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: June 26, 2013

General Information:
7 samples were analyzed for EPA 353.2. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Sample Comments:

HPC Samples received in laboratory 6/12/13 0850

- GW-075034-061113-JK-MW1 (Lab ID: 60146648001)
- GW-075034-061113-JK-MW2 (Lab ID: 60146648002)
- GW-075034-061113-JK-MW3 (Lab ID: 60146648003)
- GW-075034-061113-JK-MW4 (Lab ID: 60146648004)
- GW-075034-061113-JK-MW5 (Lab ID: 60146648005)
- GW-075034-061113-JK-MW6 (Lab ID: 60146648006)
- GW-075034-061113-JK-MW7 (Lab ID: 60146648007)

This data package has been reviewed for quality and completeness and is approved for release.

Pace Analytical Services, Inc.
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ANALYTICAL RESULTS

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60146648

Sample: GW-075034-061113-JK-MW1 **Lab ID: 60146648001** Collected: 06/11/13 13:00 Received: 06/12/13 08:15 Matrix: Water

Comments: • HPC Samples received in laboratory 6/12/13 0850

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Manganese, Dissolved	**520**	ug/L	5.0	0.49	1	06/14/13 09:30	06/17/13 11:30	7439-96-5	
Selenium, Dissolved	**55.8**	ug/L	15.0	4.2	1	06/14/13 09:30	06/17/13 11:30	7782-49-2	
MBIO HPC (Drinking Water)	Analytical Method: SM 9215B Preparation Method: SM 9215B								
Heterotrophic Plate Count	**81500**	CFU/mL	1.0	1.0	1	06/12/13 11:00	06/14/13 11:30		u3
8260 MSV UST, Water	Analytical Method: EPA 8260								
Benzene	ND	ug/L	1.0	0.060	1		06/19/13 00:36	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.18	1		06/19/13 00:36	100-41-4	
Toluene	ND	ug/L	1.0	0.17	1		06/19/13 00:36	108-88-3	
Xylene (Total)	ND	ug/L	3.0	0.42	1		06/19/13 00:36	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	96	%	80-120		1		06/19/13 00:36	1868-53-7	
Toluene-d8 (S)	102	%	80-120		1		06/19/13 00:36	2037-26-5	
4-Bromofluorobenzene (S)	97	%	80-120		1		06/19/13 00:36	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	80-120		1		06/19/13 00:36	17060-07-0	
Preservation pH	**1.0**		1.0	0.10	1		06/19/13 00:36		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**1050**	mg/L	100	16.0	100		06/23/13 14:18	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**31.1**	mg/L	1.0	0.51	10		06/12/13 13:33		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
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ANALYTICAL RESULTS

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60146648

Sample: GW-075034-061113-JK-MW2 **Lab ID: 60146648002** Collected: 06/11/13 13:58 Received: 06/12/13 08:15 Matrix: Water

Comments: • HPC Samples received in laboratory 6/12/13 0850

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Manganese, Dissolved	**8.6**	ug/L	5.0	0.49	1	06/14/13 09:30	06/17/13 11:34	7439-96-5	
Selenium, Dissolved	**66.6**	ug/L	15.0	4.2	1	06/14/13 09:30	06/17/13 11:34	7782-49-2	
MBIO HPC (Drinking Water)	Analytical Method: SM 9215B Preparation Method: SM 9215B								
Heterotrophic Plate Count	**18000**	CFU/mL	1.0	1.0	1	06/12/13 11:00	06/14/13 11:30		u3
8260 MSV UST, Water	Analytical Method: EPA 8260								
Benzene	ND	ug/L	1.0	0.060	1		06/19/13 00:51	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.18	1		06/19/13 00:51	100-41-4	
Toluene	ND	ug/L	1.0	0.17	1		06/19/13 00:51	108-88-3	
Xylene (Total)	ND	ug/L	3.0	0.42	1		06/19/13 00:51	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	99	%	80-120		1		06/19/13 00:51	1868-53-7	
Toluene-d8 (S)	100	%	80-120		1		06/19/13 00:51	2037-26-5	
4-Bromofluorobenzene (S)	124	%	80-120		1		06/19/13 00:51	460-00-4	S0
1,2-Dichloroethane-d4 (S)	101	%	80-120		1		06/19/13 00:51	17060-07-0	
Preservation pH	**1.0**		1.0	0.10	1		06/19/13 00:51		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**1230**	mg/L	100	16.0	100		06/23/13 15:07	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**40.6**	mg/L	1.0	0.51	10		06/12/13 13:37		

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ANALYTICAL RESULTS

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60146648

Sample: GW-075034-061113-JK-MW3 **Lab ID: 60146648003** Collected: 06/11/13 13:50 Received: 06/12/13 08:15 Matrix: Water

Comments: • HPC Samples received in laboratory 6/12/13 0850

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Manganese, Dissolved	**1750**	ug/L	5.0	0.49	1	06/14/13 09:30	06/17/13 11:43	7439-96-5	
Selenium, Dissolved	ND	ug/L	15.0	4.2	1	06/14/13 09:30	06/17/13 11:43	7782-49-2	
MBIO HPC (Drinking Water)	Analytical Method: SM 9215B Preparation Method: SM 9215B								
Heterotrophic Plate Count	**830**	CFU/mL	1.0	1.0	1	06/12/13 11:00	06/14/13 11:30		u3
8260 MSV UST, Water	Analytical Method: EPA 8260								
Benzene	ND	ug/L	1.0	0.060	1		06/19/13 01:07	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.18	1		06/19/13 01:07	100-41-4	
Toluene	ND	ug/L	1.0	0.17	1		06/19/13 01:07	108-88-3	
Xylene (Total)	ND	ug/L	3.0	0.42	1		06/19/13 01:07	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	101	%	80-120		1		06/19/13 01:07	1868-53-7	
Toluene-d8 (S)	104	%	80-120		1		06/19/13 01:07	2037-26-5	
4-Bromofluorobenzene (S)	105	%	80-120		1		06/19/13 01:07	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	80-120		1		06/19/13 01:07	17060-07-0	
Preservation pH	**1.0**		1.0	0.10	1		06/19/13 01:07		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**1110**	mg/L	100	16.0	100		06/23/13 15:24	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.76**	mg/L	0.10	0.051	1		06/12/13 13:20		

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ANALYTICAL RESULTS

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60146648

Sample: GW-075034-061113-JK-MW4 **Lab ID: 60146648004** Collected: 06/11/13 13:20 Received: 06/12/13 08:15 Matrix: Water

Comments: • HPC Samples received in laboratory 6/12/13 0850

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Manganese, Dissolved	**48.4**	ug/L	5.0	0.49	1	06/14/13 09:30	06/17/13 11:46	7439-96-5	
Selenium, Dissolved	**36.9**	ug/L	15.0	4.2	1	06/14/13 09:30	06/17/13 11:46	7782-49-2	
MBIO HPC (Drinking Water)	Analytical Method: SM 9215B Preparation Method: SM 9215B								
Heterotrophic Plate Count	**33000**	CFU/mL	1.0	1.0	1	06/12/13 11:00	06/14/13 11:30		u3
8260 MSV UST, Water	Analytical Method: EPA 8260								
Benzene	ND	ug/L	1.0	0.060	1		06/19/13 01:23	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.18	1		06/19/13 01:23	100-41-4	
Toluene	ND	ug/L	1.0	0.17	1		06/19/13 01:23	108-88-3	
Xylene (Total)	ND	ug/L	3.0	0.42	1		06/19/13 01:23	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	104	%	80-120		1		06/19/13 01:23	1868-53-7	
Toluene-d8 (S)	103	%	80-120		1		06/19/13 01:23	2037-26-5	
4-Bromofluorobenzene (S)	105	%	80-120		1		06/19/13 01:23	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	80-120		1		06/19/13 01:23	17060-07-0	
Preservation pH	**1.0**		1.0	0.10	1		06/19/13 01:23		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**1260**	mg/L	100	16.0	100		06/23/13 15:40	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**7.3**	mg/L	0.20	0.10	2		06/12/13 13:36		

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ANALYTICAL RESULTS

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60146648

Sample: GW-075034-061113-JK-MW5 **Lab ID: 60146648005** Collected: 06/11/13 13:40 Received: 06/12/13 08:15 Matrix: Water

Comments: • HPC Samples received in laboratory 6/12/13 0850

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Manganese, Dissolved	**609**	ug/L	5.0	0.49	1	06/14/13 09:30	06/17/13 11:50	7439-96-5	
Selenium, Dissolved	ND	ug/L	15.0	4.2	1	06/14/13 09:30	06/17/13 11:50	7782-49-2	
MBIO HPC (Drinking Water)	Analytical Method: SM 9215B Preparation Method: SM 9215B								
Heterotrophic Plate Count	**20500**	CFU/mL	1.0	1.0	1	06/12/13 11:00	06/14/13 11:30		u3
8260 MSV UST, Water	Analytical Method: EPA 8260								
Benzene	ND	ug/L	1.0	0.060	1		06/19/13 01:38	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.18	1		06/19/13 01:38	100-41-4	
Toluene	ND	ug/L	1.0	0.17	1		06/19/13 01:38	108-88-3	
Xylene (Total)	ND	ug/L	3.0	0.42	1		06/19/13 01:38	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	96	%	80-120		1		06/19/13 01:38	1868-53-7	
Toluene-d8 (S)	106	%	80-120		1		06/19/13 01:38	2037-26-5	
4-Bromofluorobenzene (S)	114	%	80-120		1		06/19/13 01:38	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	80-120		1		06/19/13 01:38	17060-07-0	
Preservation pH	**1.0**		1.0	0.10	1		06/19/13 01:38		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**1630**	mg/L	200	32.0	200		06/23/13 15:56	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.25**	mg/L	0.10	0.051	1		06/12/13 13:19		

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ANALYTICAL RESULTS

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60146648

Sample: GW-075034-061113-JK-MW6 **Lab ID: 60146648006** Collected: 06/11/13 13:30 Received: 06/12/13 08:15 Matrix: Water

Comments: • HPC Samples received in laboratory 6/12/13 0850

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Manganese, Dissolved	**328**	ug/L	5.0	0.49	1	06/14/13 09:30	06/17/13 11:53	7439-96-5	
Selenium, Dissolved	**62.1**	ug/L	15.0	4.2	1	06/14/13 09:30	06/17/13 11:53	7782-49-2	
MBIO HPC (Drinking Water)	Analytical Method: SM 9215B Preparation Method: SM 9215B								
Heterotrophic Plate Count	**4750**	CFU/mL	1.0	1.0	1	06/12/13 11:00	06/14/13 11:30		u3
8260 MSV UST, Water	Analytical Method: EPA 8260								
Benzene	ND	ug/L	1.0	0.060	1		06/18/13 23:11	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.18	1		06/18/13 23:11	100-41-4	
Toluene	ND	ug/L	1.0	0.17	1		06/18/13 23:11	108-88-3	
Xylene (Total)	ND	ug/L	3.0	0.42	1		06/18/13 23:11	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	99	%	80-120		1		06/18/13 23:11	1868-53-7	
Toluene-d8 (S)	100	%	80-120		1		06/18/13 23:11	2037-26-5	
4-Bromofluorobenzene (S)	100	%	80-120		1		06/18/13 23:11	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	80-120		1		06/18/13 23:11	17060-07-0	
Preservation pH	**1.0**		1.0	0.10	1		06/18/13 23:11		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**946**	mg/L	100	16.0	100		06/23/13 16:29	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**27.6**	mg/L	1.0	0.51	10		06/12/13 13:36		

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ANALYTICAL RESULTS

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60146648

Sample: GW-075034-061113-JK-MW7 **Lab ID: 60146648007** Collected: 06/11/13 13:10 Received: 06/12/13 08:15 Matrix: Water

Comments: • HPC Samples received in laboratory 6/12/13 0850

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Manganese, Dissolved	**8.2**	ug/L	5.0	0.49	1	06/14/13 09:30	06/17/13 11:56	7439-96-5	
Selenium, Dissolved	ND	ug/L	15.0	4.2	1	06/14/13 09:30	06/17/13 11:56	7782-49-2	
MBIO HPC (Drinking Water)	Analytical Method: SM 9215B Preparation Method: SM 9215B								
Heterotrophic Plate Count	**17.5**	CFU/mL	1.0	1.0	1	06/12/13 11:00	06/14/13 11:30		u3
8260 MSV UST, Water	Analytical Method: EPA 8260								
Benzene	ND	ug/L	1.0	0.060	1		06/18/13 23:26	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.18	1		06/18/13 23:26	100-41-4	
Toluene	ND	ug/L	1.0	0.17	1		06/18/13 23:26	108-88-3	
Xylene (Total)	ND	ug/L	3.0	0.42	1		06/18/13 23:26	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	100	%	80-120		1		06/18/13 23:26	1868-53-7	
Toluene-d8 (S)	99	%	80-120		1		06/18/13 23:26	2037-26-5	
4-Bromofluorobenzene (S)	100	%	80-120		1		06/18/13 23:26	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	80-120		1		06/18/13 23:26	17060-07-0	
Preservation pH	**1.0**		1.0	0.10	1		06/18/13 23:26		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**1700**	mg/L	200	32.0	200		06/23/13 16:46	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**18.7**	mg/L	1.0	0.51	10		06/12/13 13:35		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60146648

Sample: GW-075034-061113-JK-DUP **Lab ID: 60146648008** Collected: 06/11/13 08:00 Received: 06/12/13 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST, Water	Analytical Method: EPA 8260								
Benzene	ND	ug/L	1.0	0.060	1		06/18/13 23:42	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.18	1		06/18/13 23:42	100-41-4	
Toluene	ND	ug/L	1.0	0.17	1		06/18/13 23:42	108-88-3	
Xylene (Total)	ND	ug/L	3.0	0.42	1		06/18/13 23:42	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	98	%	80-120		1		06/18/13 23:42	1868-53-7	
Toluene-d8 (S)	99	%	80-120		1		06/18/13 23:42	2037-26-5	
4-Bromofluorobenzene (S)	100	%	80-120		1		06/18/13 23:42	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	80-120		1		06/18/13 23:42	17060-07-0	
Preservation pH	**1.0**		1.0	0.10	1		06/18/13 23:42		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60146648

Sample: TRIP BLANK **Lab ID: 60146648009** Collected: 06/11/13 13:00 Received: 06/12/13 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST, Water	Analytical Method: EPA 8260								
Benzene	ND	ug/L	1.0	0.060	1		06/18/13 22:55	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.18	1		06/18/13 22:55	100-41-4	
Toluene	ND	ug/L	1.0	0.17	1		06/18/13 22:55	108-88-3	
Xylene (Total)	ND	ug/L	3.0	0.42	1		06/18/13 22:55	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	101	%	80-120		1		06/18/13 22:55	1868-53-7	HS
Toluene-d8 (S)	100	%	80-120		1		06/18/13 22:55	2037-26-5	
4-Bromofluorobenzene (S)	100	%	80-120		1		06/18/13 22:55	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	80-120		1		06/18/13 22:55	17060-07-0	
Preservation pH	**1.0**		1.0	0.10	1		06/18/13 22:55		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60146648

QC Batch: MBIO/11424 Analysis Method: SM 9215B
QC Batch Method: SM 9215B Analysis Description: 9215B Heterotrophic Plate Count
Associated Lab Samples: 60146648001, 60146648002, 60146648003, 60146648004, 60146648005, 60146648006, 60146648007

METHOD BLANK: 1205062 Matrix: Solid
Associated Lab Samples: 60146648001, 60146648002, 60146648003, 60146648004, 60146648005, 60146648006, 60146648007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Heterotrophic Plate Count	CFU/mL	<1	1.0	06/14/13 11:30	

SAMPLE DUPLICATE: 1205063

Parameter	Units	60146828001 Result	Dup Result	RPD	Max RPD	Qualifiers
Heterotrophic Plate Count	CFU/mL	<1	<1			

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QUALITY CONTROL DATA

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60146648

QC Batch: MPRP/23072 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET Dissolved
Associated Lab Samples: 60146648001, 60146648002, 60146648003, 60146648004, 60146648005, 60146648006, 60146648007

METHOD BLANK: 1204778 Matrix: Water
Associated Lab Samples: 60146648001, 60146648002, 60146648003, 60146648004, 60146648005, 60146648006, 60146648007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Manganese, Dissolved	ug/L	ND	5.0	06/17/13 10:28	
Selenium, Dissolved	ug/L	ND	15.0	06/17/13 10:28	

LABORATORY CONTROL SAMPLE: 1204779

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese, Dissolved	ug/L	1000	966	97	80-120	
Selenium, Dissolved	ug/L	1000	986	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1204780 1204781

Parameter	Units	60146846001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Manganese, Dissolved	ug/L	558	1000	1000	1470	1460	91	90	75-125	1	20	
Selenium, Dissolved	ug/L	ND	1000	1000	972	974	97	97	75-125	0	20	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60146648

QC Batch: MSV/54395 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 60146648001, 60146648002, 60146648003, 60146648004, 60146648005

METHOD BLANK: 1206962 Matrix: Water
Associated Lab Samples: 60146648001, 60146648002, 60146648003, 60146648004, 60146648005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	06/18/13 19:57	
Ethylbenzene	ug/L	ND	1.0	06/18/13 19:57	
Toluene	ug/L	ND	1.0	06/18/13 19:57	
Xylene (Total)	ug/L	ND	3.0	06/18/13 19:57	
1,2-Dichloroethane-d4 (S)	%	106	80-120	06/18/13 19:57	
4-Bromofluorobenzene (S)	%	111	80-120	06/18/13 19:57	
Dibromofluoromethane (S)	%	101	80-120	06/18/13 19:57	
Toluene-d8 (S)	%	112	80-120	06/18/13 19:57	

LABORATORY CONTROL SAMPLE: 1206963

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	17.8	89	73-122	
Ethylbenzene	ug/L	20	16.6	83	76-123	
Toluene	ug/L	20	16.6	83	76-122	
Xylene (Total)	ug/L	60	55.0	92	76-122	
1,2-Dichloroethane-d4 (S)	%			96	80-120	
4-Bromofluorobenzene (S)	%			99	80-120	
Dibromofluoromethane (S)	%			92	80-120	
Toluene-d8 (S)	%			92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1206964 1206965

Parameter	Units	60146706001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	ND	20	20	18.4	16.1	92	80	48-150	13	31	
Ethylbenzene	ug/L	ND	20	20	16.6	17.2	83	86	50-147	4	31	
Toluene	ug/L	ND	20	20	18.7	16.4	93	82	51-147	13	32	
Xylene (Total)	ug/L	ND	60	60	53.9	47.2	90	79	49-145	13	31	
1,2-Dichloroethane-d4 (S)	%						107	97	80-120			
4-Bromofluorobenzene (S)	%						97	98	80-120			
Dibromofluoromethane (S)	%						99	102	80-120			
Toluene-d8 (S)	%						102	99	80-120			
Preservation pH		1.0			1.0	1.0				0		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60146648

QC Batch: MSV/54396 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 60146648006, 60146648007, 60146648008, 60146648009

METHOD BLANK: 1206966 Matrix: Water
Associated Lab Samples: 60146648006, 60146648007, 60146648008, 60146648009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	06/18/13 22:40	
Ethylbenzene	ug/L	ND	1.0	06/18/13 22:40	
Toluene	ug/L	ND	1.0	06/18/13 22:40	
Xylene (Total)	ug/L	ND	3.0	06/18/13 22:40	
1,2-Dichloroethane-d4 (S)	%	98	80-120	06/18/13 22:40	
4-Bromofluorobenzene (S)	%	100	80-120	06/18/13 22:40	
Dibromofluoromethane (S)	%	99	80-120	06/18/13 22:40	
Toluene-d8 (S)	%	99	80-120	06/18/13 22:40	

LABORATORY CONTROL SAMPLE: 1206967

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	20.0	100	73-122	
Ethylbenzene	ug/L	20	21.1	106	76-123	
Toluene	ug/L	20	19.5	97	76-122	
Xylene (Total)	ug/L	60	62.8	105	76-122	
1,2-Dichloroethane-d4 (S)	%			99	80-120	
4-Bromofluorobenzene (S)	%			99	80-120	
Dibromofluoromethane (S)	%			100	80-120	
Toluene-d8 (S)	%			98	80-120	

Pace Analytical Services, Inc.
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Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60146648

QC Batch: WETA/25201 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60146648001, 60146648002, 60146648003, 60146648004, 60146648005, 60146648006, 60146648007

METHOD BLANK: 1209174 Matrix: Water
Associated Lab Samples: 60146648001, 60146648002, 60146648003, 60146648004, 60146648005, 60146648006, 60146648007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	1.0	06/23/13 11:01	

LABORATORY CONTROL SAMPLE: 1209175

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	5	4.8	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1209176 1209177

Parameter	Units	10232144001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	390	250	250	630	620	96	92	61-119	1	10	

MATRIX SPIKE SAMPLE: 1209178

Parameter	Units	60146648005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	1630	1000	2650	102	61-119	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60146648

QC Batch: WETA/25073 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 60146648001, 60146648002, 60146648003, 60146648004, 60146648005, 60146648006, 60146648007

METHOD BLANK: 1203368 Matrix: Water
Associated Lab Samples: 60146648001, 60146648002, 60146648003, 60146648004, 60146648005, 60146648006, 60146648007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	06/12/13 12:56	

LABORATORY CONTROL SAMPLE: 1203369

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1.6	1.7	103	85-115	

MATRIX SPIKE SAMPLE: 1203370

Parameter	Units	60146645001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	7.8	8	14.7	86	85-115	

MATRIX SPIKE SAMPLE: 1203372

Parameter	Units	60146645002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1.4	1.6	2.9	95	85-115	

SAMPLE DUPLICATE: 1203371

Parameter	Units	60146645003 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	ND	ND		20	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALIFIERS

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60146648

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: MSV/54396

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

HS Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

S0 Surrogate recovery outside laboratory control limits.

u3 Analysis initiated more than 8 hours but less than 24 hours after sample collection.

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60146648

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60146648001	**GW-075034-061113-JK-MW1**	EPA 3010	MPRP/23072	EPA 6010	ICP/18221
60146648002	**GW-075034-061113-JK-MW2**	EPA 3010	MPRP/23072	EPA 6010	ICP/18221
60146648003	**GW-075034-061113-JK-MW3**	EPA 3010	MPRP/23072	EPA 6010	ICP/18221
60146648004	**GW-075034-061113-JK-MW4**	EPA 3010	MPRP/23072	EPA 6010	ICP/18221
60146648005	**GW-075034-061113-JK-MW5**	EPA 3010	MPRP/23072	EPA 6010	ICP/18221
60146648006	**GW-075034-061113-JK-MW6**	EPA 3010	MPRP/23072	EPA 6010	ICP/18221
60146648007	**GW-075034-061113-JK-MW7**	EPA 3010	MPRP/23072	EPA 6010	ICP/18221
60146648001	**GW-075034-061113-JK-MW1**	SM 9215B	MBIO/11424	SM 9215B	MBIO/11425
60146648002	**GW-075034-061113-JK-MW2**	SM 9215B	MBIO/11424	SM 9215B	MBIO/11425
60146648003	**GW-075034-061113-JK-MW3**	SM 9215B	MBIO/11424	SM 9215B	MBIO/11425
60146648004	**GW-075034-061113-JK-MW4**	SM 9215B	MBIO/11424	SM 9215B	MBIO/11425
60146648005	**GW-075034-061113-JK-MW5**	SM 9215B	MBIO/11424	SM 9215B	MBIO/11425
60146648006	**GW-075034-061113-JK-MW6**	SM 9215B	MBIO/11424	SM 9215B	MBIO/11425
60146648007	**GW-075034-061113-JK-MW7**	SM 9215B	MBIO/11424	SM 9215B	MBIO/11425
60146648001	**GW-075034-061113-JK-MW1**	EPA 8260	MSV/54395		
60146648002	**GW-075034-061113-JK-MW2**	EPA 8260	MSV/54395		
60146648003	**GW-075034-061113-JK-MW3**	EPA 8260	MSV/54395		
60146648004	**GW-075034-061113-JK-MW4**	EPA 8260	MSV/54395		
60146648005	**GW-075034-061113-JK-MW5**	EPA 8260	MSV/54395		
60146648006	**GW-075034-061113-JK-MW6**	EPA 8260	MSV/54396		
60146648007	**GW-075034-061113-JK-MW7**	EPA 8260	MSV/54396		
60146648008	**GW-075034-061113-JK-DUP**	EPA 8260	MSV/54396		
60146648009	**TRIP BLANK**	EPA 8260	MSV/54396		
60146648001	**GW-075034-061113-JK-MW1**	EPA 300.0	WETA/25201		
60146648002	**GW-075034-061113-JK-MW2**	EPA 300.0	WETA/25201		
60146648003	**GW-075034-061113-JK-MW3**	EPA 300.0	WETA/25201		
60146648004	**GW-075034-061113-JK-MW4**	EPA 300.0	WETA/25201		
60146648005	**GW-075034-061113-JK-MW5**	EPA 300.0	WETA/25201		
60146648006	**GW-075034-061113-JK-MW6**	EPA 300.0	WETA/25201		
60146648007	**GW-075034-061113-JK-MW7**	EPA 300.0	WETA/25201		
60146648001	**GW-075034-061113-JK-MW1**	EPA 353.2	WETA/25073		
60146648002	**GW-075034-061113-JK-MW2**	EPA 353.2	WETA/25073		
60146648003	**GW-075034-061113-JK-MW3**	EPA 353.2	WETA/25073		
60146648004	**GW-075034-061113-JK-MW4**	EPA 353.2	WETA/25073		
60146648005	**GW-075034-061113-JK-MW5**	EPA 353.2	WETA/25073		
60146648006	**GW-075034-061113-JK-MW6**	EPA 353.2	WETA/25073		
60146648007	**GW-075034-061113-JK-MW7**	EPA 353.2	WETA/25073		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt
ESI Tech Spec Client

WO# : 60146648

60146648

Client Name: CoP CRA NM

Optional
Proj Due Date:
Proj Name:

Courier: Fed Ex ☑ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other ☐

Tracking #: 8757 1462 8943 Pace Shipping Label Used? Yes ☐ No ☒

Custody Seal on Cooler/Box Present: Yes ☐ No ☑ Seals intact: Yes ☐ No ☒

Packing Material: Bubble Wrap ☒ Bubble Bags ☐ Foam ☐ None ☐ Other ☐

Thermometer Used: T-112 / T-194 **Type of Ice:** ~~Wet~~ Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 0-6

Temperature should be above freezing to 6°C

Date and initials of person examining contents: ~~JAS~~ 6/12/13 925

Chain of Custody present:	☑Yes ☐No ☐N/A	1.
Chain of Custody filled out:	☑Yes ☐No ☐N/A	2.
Chain of Custody relinquished:	☑Yes ☐No ☐N/A	3.
Sampler name & signature on COC:	☑Yes ☐No ☐N/A	4.
Samples arrived within holding time:	☑Yes ☐No ☐N/A	5.
Short Hold Time analyses (<72hr):	☒Yes ☐No ☐N/A	6. NO3
Rush Turn Around Time requested:	☐Yes ☒No ☐N/A	7.
Sufficient volume:	☑Yes ☐No ☐N/A	8.
Correct containers used:	☑Yes ☐No ☐N/A	
Pace containers used:	☑Yes ☐No ☐N/A	9.
Containers intact:	☒Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☑N/A	11.
Filtered volume received for dissolved tests?	☐Yes ☐No ☒N/A	12.
Sample labels match COC: Includes date/time/ID/analyses Matrix: water	☒Yes ☐No ☐N/A	13.
All containers needing preservation have been checked.	☐Yes ☐No ☒N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☒N/A	14.
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☒Yes ☐No	Initial when completed: NA / Lot # of added preservative:
Trip Blank present: Pace Trip Blank lot # (if purchased): 050613-3	☒Yes ☐No ☐N/A	15.
Headspace in VOA vials (>6mm):	☒Yes ☐No ☐N/A	16. MW3 1 of 3 vials w/ headspace; Trip Blank 2 of 2 vials w/ headspace
Project sampled in USDA Regulated Area:	☐Yes ☐No ☒N/A	17. List State:

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: AAF Date: 6/12/13

Temp Log Record start and finish times when unpacking cooler, if >20 min, recheck sample temps.

Start:	Start:
End:	End:
Temp:	Temp:

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www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of

Section A Required Client Information:

Company:	COP CRA NM
Address:	6121 Indian School Rd NE, Ste 200
	Albequerque, NM 87110
Email To:	cmathews@craworld.com
Phone:	(505)884-0672
Fax:	(505)884-4932
Requested Due Date/TAT:	standard

Section B Required Project Information:

Report To:	Christine Mathews
Copy To:	Kelly Blanchard, Angela Bown, Cassie Brown
Purchase Order No.:	
Project Name:	San Juan 29-7 Unit 37
Project Number:	075034-95

Section C Invoice Information:

Attention:	ENFOS
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Alice Flanagan
Pace Profile #:	5514, 24

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NM

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

COLLECTED: COMPOSITE START / ~~COMPOSITE~~ END/GRAB — HPC

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	Composite Start DATE	Composite Start TIME	End/Grab DATE	End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test	8260 BTEX	Dissolved Mn and SE	HPC 9251B	Nitrates 353.2	Sulfate 300.0	TDS SM 2540C	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 60146648
1	GW-075034-061113-JK-MW 1			6-11	0945	6-11	1300	6											✓	✓	✓	✓	✓	✓		3(DG9H) 1(BP2U) 1(BP3F) 01
2	GW-075034-061113-JK-MW 2				1020		1358	6											✓	✓	✓	✓	✓	✓		02
3	GW-075034-061113-JK-MW 3				1048		1350	6											✓	✓	✓	✓	✓	✓		03
4	GW-075034-061113-JK-MW 4				1112		1320	6											✓	✓	✓	✓	✓	✓		04
5	GW-075034-061113-JK-MW 5				1140		1340	6											✓	✓	✓	✓	✓	✓		05
6	GW-075034-061113-JK-MW 6				1215		1330	6											✓	✓	✓	✓	✓	✓		06
7	GW-075034-061113-JK-MW7				1240		1310	6											✓	✓	✓	✓	✓	✓		07
8	GW-075034-061113-JK-DUP							3											✓							3(DG9H) 08
9																										2(DG9H) TB 09
10																										
11																										
12																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
* ALL TIMES ARE MOUNTAIN TIME	[illegible] / CRA	1600		[illegible] / Pace	6/12/13	815	0.6	Y	N	Y
** HPC SAMPLE COLLECTED LATER THEN OTHER SAMPLES										

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: JOSH KIRCHNER

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 06/11/13

F-ALL-Q-020rev.08, 12-Oct-2007

Sample Condition Upon Receipt

Pace Analytical
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Client Name: CoPCRA Project # 60141648

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☒ Commercial ☐ Pace ☐ Other _____

Tracking #: _____ Pace Shipping Label Used? ☐ Yes ☐ No

Custody Seal on Cooler/Box Present: ☒ Yes ☐ No Seals intact: ☒ Yes ☐ No

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Foam ☒ None ☐ Other _____

Thermometer Used: T-111 Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature: 2.6

Temperature should be above freezing to 6°C

Optional
Proj. Due Date:
Proj. Name:

Date and Initials of person examining contents: MB 6/12/13 0850

		Comments:
Chain of Custody present:	☒ Yes ☐ No ☐ N/A	1.
Chain of Custody filled out:	☒ Yes ☐ No ☐ N/A	2.
Chain of Custody relinquished:	☒ Yes ☐ No ☐ N/A	3.
Sampler name & signature on COC:	☒ Yes ☐ No ☐ N/A	4.
Samples arrived within holding time:	☐ Yes ☒ No ☐ N/A	5.
Short Hold Time analyses (<72hr):	☒ Yes ☐ No ☐ N/A	6.
Rush Turn Around Time requested:	☐ Yes ☒ No ☐ N/A	7.
Sufficient volume:	☒ Yes ☐ No ☐ N/A	8.
Correct containers used:	☒ Yes ☐ No ☐ N/A	9.
-Pace containers used:	☒ Yes ☐ No ☐ N/A	
Containers intact:	☒ Yes ☐ No ☐ N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐ Yes ☐ No ☒ N/A	11.
Filtered volume received for dissolved tests	☐ Yes ☐ No ☒ N/A	12.
Sample labels match COC:	☒ Yes ☐ No ☐ N/A	13.
-Includes date/time/ID/analyses Matrix: WT		
All containers needing preservation have been checked.	☐ Yes ☐ No ☒ N/A	14.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐ Yes ☐ No ☒ N/A	
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☒ Yes ☐ No	Initial when completed _____ Lot # of added preservative _____
Trip Blank present:	☐ Yes ☐ No ☒ N/A	15.
Pace Trip Blank lot # (if purchased): _____		
Headspace in VOA vials (>6mm):	☐ Yes ☐ No ☒ N/A	16.
Project sampled in USDA Regulated Area:	☐ Yes ☐ No ☒ N/A	17. List State:

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: MK Date: 6/14/13

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: | of

Section A — **Required** Client Information:

Company:	COP CRA NM
Address:	6121 Indian School Rd NE, Ste 200
	Albequerque, NM 87110
Email To:	cmathews@craworld.com
Phone: (505)884-0672	Fax: (505)884-4932
Requested Due Date/TAT:	standard

Section B — **Required** Project Information:

Report To:	Christine Mathews
Copy To:	Kelly Blanchard, Angela Bown, Cassie Brown
Purchase Order No.:	
Project Name:	San Juan 29-7 Unit 37
Project Number:	075034-95

Section C — Invoice Information:

Attention:	ENFOS
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Alice Flanagan
Pace Profile #:	5514, 24

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NM

Section D — **Required** Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED ~~COMPOSITE END/GRAB~~ HPC DATE	COLLECTED ~~COMPOSITE END/GRAB~~ HPC TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	8260 BTEX	Dissolved Mn and SE	HPC 9251B	Nitrates 353.2	Sulfate 300.0	TDS SM 2540C	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 60146648
1	GW-075034-061113-JK-MW 1			6/11	0945	6-11	1300	6											✓	✓	✓	✓	✓	✓			1SPST
2	GW-075034-061113-JK-MW 2				1070		1358	6											✓	✓	✓	✓	✓	✓			
3	GW-075034-061113-JK-MW 3				1048		1350	6											✓	✓	✓	✓	✓	✓			
4	GW-075034-061113-JK-MW 4				1112		1320	6											✓	✓	✓	✓	✓	✓			
5	GW-075034-061113-JK-MW 5				1140		1340	6											✓	✓	✓	✓	✓	✓			
6	GW-075034-061113-JK-MW 6				1215		1330	6											✓	✓	✓	✓	✓	✓			
7	GW-075034-061113-JK-MW7				1240		1310	6											✓	✓	✓	✓	✓	✓			
8	GW-075034-061113-JK-DUP							3											✓								
9																											
10																											
11																											
12																											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
* ALL TIMES ARE MOUNTAIN TIME		1600		Pace	6/12/13	0850	2.0	7	Y	Y
** HPC SAMPLE COLLECTED EARLIER										
OTHER SAMPLES										

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: JOSH KIRCHNER

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 06/11/13

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical Services, Inc.
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Lenexa, KS 66219
(913)599-5665

September 26, 2013

Christine Matthews
CRA
6121 Indian School Rd NE
Suite 200
Albuquerque, NM 87110

RE: Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60152803

Dear Christine Matthews:
Enclosed are the analytical results for sample(s) received by the laboratory on September 11, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Some analyses have been subcontracted outside of the Pace Network. The subcontracted laboratory report has been attached.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Alice Flanagan

alice.flanagan@pacelabs.com
Project Manager

Enclosures

cc: Kelly Blanchard, COP Conestoga-Rovers & Associa
Angela Bown, COP Conestoga-Rovers & Associa
Jeff Walker, COP Conestoga-Rovers & Associa

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CERTIFICATIONS

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60152803

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 13-012-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-13-4
Utah Certification #: KS000212013-3
Illinois Certification #: 003097

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SAMPLE SUMMARY

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60152803

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60152803001	**GW-075040-091013-CM-MW-1**	Water	09/10/13 12:45	09/11/13 08:10
60152803002	**GW-075040-091013-CM-MW-2**	Water	09/10/13 12:20	09/11/13 08:10
60152803003	**GW-075040-091013-CM-MW-3**	Water	09/10/13 11:50	09/11/13 08:10
60152803004	**GW-075040-091013-CM-MW-4**	Water	09/10/13 14:00	09/11/13 08:10
60152803005	**GW-075040-091013-CM-MW-5**	Water	09/10/13 11:45	09/11/13 08:10
60152803006	**GW-075040-091013-CM-MW-6**	Water	09/10/13 12:25	09/11/13 08:10
60152803007	**GW-075040-091013-CM-MW-7**	Water	09/10/13 12:55	09/11/13 08:10
60152803008	**GW-075040-091013-CM-MW-8R**	Water	09/10/13 13:35	09/11/13 08:10
60152803009	**GW-075040-091013-CM-DUP**	Water	09/10/13 13:45	09/11/13 08:10
60152803010	**TB-075040-091013-CM-001**	Water	09/10/13 15:50	09/11/13 08:10

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SAMPLE ANALYTE COUNT

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60152803

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60152803001	**GW-075040-091013-CM-MW-1**	EPA 6010	NDJ	2
		EPA 8260	JTK	8
		SM 2540C	RAH	1
		EPA 300.0	OL	1
		EPA 353.2	AJM	1
60152803002	**GW-075040-091013-CM-MW-2**	EPA 6010	NDJ	2
		EPA 8260	JTK	8
		SM 2540C	RAH	1
		EPA 300.0	OL	1
		EPA 353.2	AJM	1
60152803003	**GW-075040-091013-CM-MW-3**	EPA 6010	NDJ	2
		EPA 8260	JTK	8
		SM 2540C	RAH	1
		EPA 300.0	OL	1
		EPA 353.2	AJM	1
60152803004	**GW-075040-091013-CM-MW-4**	EPA 6010	NDJ	2
		EPA 8260	JTK	8
		SM 2540C	RAH	1
		EPA 300.0	OL	1
		EPA 353.2	AJM	1
60152803005	**GW-075040-091013-CM-MW-5**	EPA 6010	NDJ	2
		EPA 8260	JTK	8
		SM 2540C	RAH	1
		EPA 300.0	OL	1
		EPA 353.2	AJM	1
60152803006	**GW-075040-091013-CM-MW-6**	EPA 6010	NDJ	2
		EPA 8260	JTK	8
		SM 2540C	RAH	1
		EPA 300.0	OL	1
		EPA 353.2	AJM	1
60152803007	**GW-075040-091013-CM-MW-7**	EPA 6010	NDJ	2
		EPA 8260	JTK	8
		SM 2540C	RAH	1
		EPA 300.0	OL	1
		EPA 353.2	AJM	1
60152803008	**GW-075040-091013-CM-MW-8R**	EPA 6010	NDJ	2
		EPA 8260	SDR	8

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60152803

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		SM 2540C	RAH	1
		EPA 300.0	OL	1
		EPA 353.2	AJM	1
60152803009	**GW-075040-091013-CM-DUP**	EPA 8260	JTK	8
60152803010	**TB-075040-091013-CM-001**	EPA 8260	JTK	8

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PROJECT NARRATIVE

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60152803

Method: **EPA 6010**
Description: 6010 MET ICP, Dissolved
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: September 26, 2013

General Information:
8 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60152803

Method: **EPA 8260**
Description: 8260 MSV UST, Water
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: September 26, 2013

General Information:
10 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/56253

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: MSV/56362

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: MSV/56393

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

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PROJECT NARRATIVE

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60152803

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: September 26, 2013

General Information:
8 samples were analyzed for SM 2540C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60152803

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: September 26, 2013

General Information:
8 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60152803

Method: **EPA 353.2**
Description: 353.2 Nitrogen, NO2/NO3 unpres
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: September 26, 2013

General Information:
8 samples were analyzed for EPA 353.2. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/26180

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60152798004,60152803004

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1251403)
  - Nitrogen, Nitrate

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60152803

Sample: GW-075040-091013-CM-MW-1 **Lab ID: 60152803001** Collected: 09/10/13 12:45 Received: 09/11/13 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Manganese, Dissolved	**164**	ug/L	5.0	0.49	1	09/18/13 11:30	09/19/13 11:48	7439-96-5	
Selenium, Dissolved	**49.2**	ug/L	15.0	4.2	1	09/18/13 11:30	09/19/13 11:48	7782-49-2	
8260 MSV UST, Water	Analytical Method: EPA 8260								
Benzene	ND	ug/L	1.0	0.060	1		09/13/13 09:56	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.18	1		09/13/13 09:56	100-41-4	
Toluene	ND	ug/L	1.0	0.17	1		09/13/13 09:56	108-88-3	
Xylene (Total)	ND	ug/L	3.0	0.42	1		09/13/13 09:56	1330-20-7	
Surrogates									
Toluene-d8 (S)	92	%	80-120		1		09/13/13 09:56	2037-26-5	
4-Bromofluorobenzene (S)	95	%	80-120		1		09/13/13 09:56	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%	80-120		1		09/13/13 09:56	17060-07-0	
Preservation pH	**1.0**		1.0	0.10	1		09/13/13 09:56		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**2090**	mg/L	5.0	5.0	1		09/17/13 13:12		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**1130**	mg/L	200	32.0	200		09/25/13 09:32	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**18.7**	mg/L	1.0	0.51	10		09/11/13 15:34		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60152803

Sample: GW-075040-091013-CM-MW-2 **Lab ID: 60152803002** Collected: 09/10/13 12:20 Received: 09/11/13 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Manganese, Dissolved	ND	ug/L	5.0	0.49	1	09/18/13 11:30	09/19/13 11:57	7439-96-5	
Selenium, Dissolved	**65.7**	ug/L	15.0	4.2	1	09/18/13 11:30	09/19/13 11:57	7782-49-2	
8260 MSV UST, Water	Analytical Method: EPA 8260								
Benzene	ND	ug/L	1.0	0.060	1		09/13/13 10:11	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.18	1		09/13/13 10:11	100-41-4	
Toluene	ND	ug/L	1.0	0.17	1		09/13/13 10:11	108-88-3	
Xylene (Total)	ND	ug/L	3.0	0.42	1		09/13/13 10:11	1330-20-7	
Surrogates									
Toluene-d8 (S)	101	%	80-120		1		09/13/13 10:11	2037-26-5	
4-Bromofluorobenzene (S)	98	%	80-120		1		09/13/13 10:11	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%	80-120		1		09/13/13 10:11	17060-07-0	
Preservation pH	**1.0**		1.0	0.10	1		09/13/13 10:11		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**2210**	mg/L	5.0	5.0	1		09/17/13 13:12		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**1200**	mg/L	200	32.0	200		09/25/13 10:18	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**35.6**	mg/L	1.0	0.51	10		09/11/13 15:35		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60152803

Sample: GW-075040-091013-CM-MW-3 **Lab ID: 60152803003** Collected: 09/10/13 11:50 Received: 09/11/13 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Manganese, Dissolved	**1700**	ug/L	5.0	0.49	1	09/18/13 11:30	09/19/13 11:59	7439-96-5	
Selenium, Dissolved	ND	ug/L	15.0	4.2	1	09/18/13 11:30	09/19/13 11:59	7782-49-2	
8260 MSV UST, Water	Analytical Method: EPA 8260								
Benzene	ND	ug/L	1.0	0.060	1		09/13/13 10:26	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.18	1		09/13/13 10:26	100-41-4	
Toluene	ND	ug/L	1.0	0.17	1		09/13/13 10:26	108-88-3	
Xylene (Total)	ND	ug/L	3.0	0.42	1		09/13/13 10:26	1330-20-7	
Surrogates									
Toluene-d8 (S)	102	%	80-120		1		09/13/13 10:26	2037-26-5	
4-Bromofluorobenzene (S)	100	%	80-120		1		09/13/13 10:26	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	80-120		1		09/13/13 10:26	17060-07-0	
Preservation pH	**1.0**		1.0	0.10	1		09/13/13 10:26		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**1910**	mg/L	5.0	5.0	1		09/17/13 13:12		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**1120**	mg/L	200	32.0	200		09/25/13 11:20	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**1.4**	mg/L	0.10	0.051	1		09/11/13 15:48		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60152803

Sample: GW-075040-091013-CM-MW-4 **Lab ID: 60152803004** Collected: 09/10/13 14:00 Received: 09/11/13 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Manganese, Dissolved	**30.3**	ug/L	5.0	0.49	1	09/18/13 11:30	09/19/13 12:01	7439-96-5	
Selenium, Dissolved	**36.9**	ug/L	15.0	4.2	1	09/18/13 11:30	09/19/13 12:01	7782-49-2	
8260 MSV UST, Water	Analytical Method: EPA 8260								
Benzene	ND	ug/L	1.0	0.060	1		09/13/13 10:42	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.18	1		09/13/13 10:42	100-41-4	
Toluene	ND	ug/L	1.0	0.17	1		09/13/13 10:42	108-88-3	
Xylene (Total)	ND	ug/L	3.0	0.42	1		09/13/13 10:42	1330-20-7	
Surrogates									
Toluene-d8 (S)	103	%	80-120		1		09/13/13 10:42	2037-26-5	
4-Bromofluorobenzene (S)	97	%	80-120		1		09/13/13 10:42	460-00-4	
1,2-Dichloroethane-d4 (S)	87	%	80-120		1		09/13/13 10:42	17060-07-0	
Preservation pH	**1.0**		1.0	0.10	1		09/13/13 10:42		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**2090**	mg/L	5.0	5.0	1		09/17/13 13:13		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**1180**	mg/L	200	32.0	200		09/25/13 11:35	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**8.6**	mg/L	0.50	0.26	5		09/11/13 15:49		M1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60152803

Sample: GW-075040-091013-CM-MW-5 **Lab ID: 60152803005** Collected: 09/10/13 11:45 Received: 09/11/13 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Manganese, Dissolved	**368**	ug/L	5.0	0.49	1	09/18/13 11:30	09/19/13 12:12	7439-96-5	
Selenium, Dissolved	ND	ug/L	15.0	4.2	1	09/18/13 11:30	09/19/13 12:12	7782-49-2	
8260 MSV UST, Water	Analytical Method: EPA 8260								
Benzene	ND	ug/L	1.0	0.060	1		09/13/13 10:57	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.18	1		09/13/13 10:57	100-41-4	
Toluene	ND	ug/L	1.0	0.17	1		09/13/13 10:57	108-88-3	
Xylene (Total)	ND	ug/L	3.0	0.42	1		09/13/13 10:57	1330-20-7	
Surrogates									
Toluene-d8 (S)	97	%	80-120		1		09/13/13 10:57	2037-26-5	
4-Bromofluorobenzene (S)	93	%	80-120		1		09/13/13 10:57	460-00-4	
1,2-Dichloroethane-d4 (S)	86	%	80-120		1		09/13/13 10:57	17060-07-0	
Preservation pH	**1.0**		1.0	0.10	1		09/13/13 10:57		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**2540**	mg/L	5.0	5.0	1		09/17/13 13:13		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**1640**	mg/L	200	32.0	200		09/25/13 11:51	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	mg/L	0.10	0.051	1		09/11/13 15:53		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60152803

Sample: GW-075040-091013-CM-MW-6 **Lab ID: 60152803006** Collected: 09/10/13 12:25 Received: 09/11/13 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Manganese, Dissolved	**299**	ug/L	5.0	0.49	1	09/18/13 11:30	09/19/13 12:14	7439-96-5	
Selenium, Dissolved	**38.9**	ug/L	15.0	4.2	1	09/18/13 11:30	09/19/13 12:14	7782-49-2	
8260 MSV UST, Water	Analytical Method: EPA 8260								
Benzene	ND	ug/L	1.0	0.060	1		09/17/13 23:41	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.18	1		09/17/13 23:41	100-41-4	
Toluene	ND	ug/L	1.0	0.17	1		09/17/13 23:41	108-88-3	
Xylene (Total)	ND	ug/L	3.0	0.42	1		09/17/13 23:41	1330-20-7	
Surrogates									
Toluene-d8 (S)	97	%	80-120		1		09/17/13 23:41	2037-26-5	
4-Bromofluorobenzene (S)	95	%	80-120		1		09/17/13 23:41	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	80-120		1		09/17/13 23:41	17060-07-0	
Preservation pH	**1.0**		1.0	0.10	1		09/17/13 23:41		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**1710**	mg/L	5.0	5.0	1		09/17/13 13:13		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**929**	mg/L	200	32.0	200		09/25/13 12:06	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**22.7**	mg/L	1.0	0.51	10		09/11/13 15:40		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60152803

Sample: GW-075040-091013-CM-MW-7 **Lab ID: 60152803007** Collected: 09/10/13 12:55 Received: 09/11/13 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Manganese, Dissolved	**168**	ug/L	5.0	0.49	1	09/18/13 11:30	09/19/13 12:16	7439-96-5	
Selenium, Dissolved	ND	ug/L	15.0	4.2	1	09/18/13 11:30	09/19/13 12:16	7782-49-2	
8260 MSV UST, Water	Analytical Method: EPA 8260								
Benzene	ND	ug/L	1.0	0.060	1		09/17/13 23:57	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.18	1		09/17/13 23:57	100-41-4	
Toluene	ND	ug/L	1.0	0.17	1		09/17/13 23:57	108-88-3	
Xylene (Total)	ND	ug/L	3.0	0.42	1		09/17/13 23:57	1330-20-7	
Surrogates									
Toluene-d8 (S)	103	%	80-120		1		09/17/13 23:57	2037-26-5	
4-Bromofluorobenzene (S)	97	%	80-120		1		09/17/13 23:57	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	80-120		1		09/17/13 23:57	17060-07-0	
Preservation pH	**1.0**		1.0	0.10	1		09/17/13 23:57		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**3080**	mg/L	5.0	5.0	1		09/17/13 13:13		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**1740**	mg/L	200	32.0	200		09/25/13 12:21	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**31.4**	mg/L	1.0	0.51	10		09/11/13 15:42		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60152803

Sample: GW-075040-091013-CM-MW-8R **Lab ID: 60152803008** Collected: 09/10/13 13:35 Received: 09/11/13 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Manganese, Dissolved	**395**	ug/L	5.0	0.49	1	09/18/13 11:30	09/19/13 12:19	7439-96-5	
Selenium, Dissolved	**38.0**	ug/L	15.0	4.2	1	09/18/13 11:30	09/19/13 12:19	7782-49-2	
8260 MSV UST, Water	Analytical Method: EPA 8260								
Benzene	**10.0**	ug/L	1.0	0.055	1		09/18/13 15:51	71-43-2	
Ethylbenzene	**1.7**	ug/L	1.0	0.056	1		09/18/13 15:51	100-41-4	
Toluene	**17.1**	ug/L	1.0	0.066	1		09/18/13 15:51	108-88-3	
Xylene (Total)	**61.5**	ug/L	3.0	0.12	1		09/18/13 15:51	1330-20-7	
Surrogates									
Toluene-d8 (S)	100	%	80-120		1		09/18/13 15:51	2037-26-5	
4-Bromofluorobenzene (S)	103	%	80-120		1		09/18/13 15:51	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	80-120		1		09/18/13 15:51	17060-07-0	
Preservation pH	**1.0**		1.0	0.10	1		09/18/13 15:51		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**2430**	mg/L	5.0	5.0	1		09/17/13 13:13		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**1230**	mg/L	200	32.0	200		09/25/13 12:37	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**38.6**	mg/L	1.0	0.51	10		09/11/13 15:43		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60152803

Sample: GW-075040-091013-CM-DUP **Lab ID: 60152803009** Collected: 09/10/13 13:45 Received: 09/11/13 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST, Water	Analytical Method: EPA 8260								
Benzene	**8.3**	ug/L	1.0	0.060	1		09/18/13 00:27	71-43-2	
Ethylbenzene	**1.8**	ug/L	1.0	0.18	1		09/18/13 00:27	100-41-4	
Toluene	**12.5**	ug/L	1.0	0.17	1		09/18/13 00:27	108-88-3	
Xylene (Total)	**44.3**	ug/L	3.0	0.42	1		09/18/13 00:27	1330-20-7	
Surrogates									
Toluene-d8 (S)	109	%	80-120		1		09/18/13 00:27	2037-26-5	
4-Bromofluorobenzene (S)	101	%	80-120		1		09/18/13 00:27	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	80-120		1		09/18/13 00:27	17060-07-0	
Preservation pH	**1.0**		1.0	0.10	1		09/18/13 00:27		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60152803

Sample: TB-075040-091013-CM-001 **Lab ID: 60152803010** Collected: 09/10/13 15:50 Received: 09/11/13 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST, Water	Analytical Method: EPA 8260								
Benzene	ND	ug/L	1.0	0.060	1		09/18/13 00:42	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.18	1		09/18/13 00:42	100-41-4	
Toluene	ND	ug/L	1.0	0.17	1		09/18/13 00:42	108-88-3	
Xylene (Total)	ND	ug/L	3.0	0.42	1		09/18/13 00:42	1330-20-7	
Surrogates									
Toluene-d8 (S)	104	%	80-120		1		09/18/13 00:42	2037-26-5	
4-Bromofluorobenzene (S)	94	%	80-120		1		09/18/13 00:42	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	80-120		1		09/18/13 00:42	17060-07-0	
Preservation pH	**1.0**		1.0	0.10	1		09/18/13 00:42		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60152803

QC Batch: MPRP/24320 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET Dissolved
Associated Lab Samples: 60152803001, 60152803002, 60152803003, 60152803004, 60152803005, 60152803006, 60152803007, 60152803008

METHOD BLANK: 1255299 Matrix: Water
Associated Lab Samples: 60152803001, 60152803002, 60152803003, 60152803004, 60152803005, 60152803006, 60152803007, 60152803008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Manganese, Dissolved	ug/L	ND	5.0	09/19/13 11:46	
Selenium, Dissolved	ug/L	ND	15.0	09/19/13 11:46	

LABORATORY CONTROL SAMPLE: 1255300

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese, Dissolved	ug/L	1000	1020	102	80-120	
Selenium, Dissolved	ug/L	1000	1020	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1255301 1255302

Parameter	Units	60152803001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Manganese, Dissolved	ug/L	164	1000	1000	1160	1160	99	99	75-125	0	20	
Selenium, Dissolved	ug/L	49.2	1000	1000	1120	1120	107	108	75-125	1	20	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60152803

QC Batch: MSV/56253 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 60152803001, 60152803002, 60152803003, 60152803004, 60152803005

METHOD BLANK: 1252403 Matrix: Water
Associated Lab Samples: 60152803001, 60152803002, 60152803003, 60152803004, 60152803005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	09/13/13 06:09	
Ethylbenzene	ug/L	ND	1.0	09/13/13 06:09	
Toluene	ug/L	ND	1.0	09/13/13 06:09	
Xylene (Total)	ug/L	ND	3.0	09/13/13 06:09	
1,2-Dichloroethane-d4 (S)	%	86	80-120	09/13/13 06:09	
4-Bromofluorobenzene (S)	%	103	80-120	09/13/13 06:09	
Toluene-d8 (S)	%	96	80-120	09/13/13 06:09	

LABORATORY CONTROL SAMPLE: 1252404

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	19.7	99	73-122	
Ethylbenzene	ug/L	20	21.6	108	76-123	
Toluene	ug/L	20	20.0	100	76-122	
Xylene (Total)	ug/L	60	58.5	97	76-122	
1,2-Dichloroethane-d4 (S)	%			87	80-120	
4-Bromofluorobenzene (S)	%			92	80-120	
Toluene-d8 (S)	%			101	80-120	

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QUALITY CONTROL DATA

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60152803

QC Batch: MSV/56362 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 60152803006, 60152803007, 60152803009, 60152803010

METHOD BLANK: 1254860 Matrix: Water
Associated Lab Samples: 60152803006, 60152803007, 60152803009, 60152803010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	09/17/13 23:26	
Ethylbenzene	ug/L	ND	1.0	09/17/13 23:26	
Toluene	ug/L	ND	1.0	09/17/13 23:26	
Xylene (Total)	ug/L	ND	3.0	09/17/13 23:26	
1,2-Dichloroethane-d4 (S)	%	101	80-120	09/17/13 23:26	
4-Bromofluorobenzene (S)	%	97	80-120	09/17/13 23:26	
Toluene-d8 (S)	%	107	80-120	09/17/13 23:26	

LABORATORY CONTROL SAMPLE: 1254861

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	19.1	96	73-122	
Ethylbenzene	ug/L	20	21.2	106	76-123	
Toluene	ug/L	20	20.4	102	76-122	
Xylene (Total)	ug/L	60	62.2	104	76-122	
1,2-Dichloroethane-d4 (S)	%			97	80-120	
4-Bromofluorobenzene (S)	%			94	80-120	
Toluene-d8 (S)	%			103	80-120	

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QUALITY CONTROL DATA

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60152803

QC Batch: MSV/56393
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 60152803008

METHOD BLANK: 1255410 Matrix: Water
Associated Lab Samples: 60152803008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	09/18/13 13:39	
Ethylbenzene	ug/L	ND	1.0	09/18/13 13:39	
Toluene	ug/L	ND	1.0	09/18/13 13:39	
Xylene (Total)	ug/L	ND	3.0	09/18/13 13:39	
1,2-Dichloroethane-d4 (S)	%	104	80-120	09/18/13 13:39	
4-Bromofluorobenzene (S)	%	101	80-120	09/18/13 13:39	
Toluene-d8 (S)	%	103	80-120	09/18/13 13:39	

LABORATORY CONTROL SAMPLE: 1255411

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	18.9	95	73-122	
Ethylbenzene	ug/L	20	20.4	102	76-123	
Toluene	ug/L	20	20.1	100	76-122	
Xylene (Total)	ug/L	60	59.9	100	76-122	
1,2-Dichloroethane-d4 (S)	%			101	80-120	
4-Bromofluorobenzene (S)	%			101	80-120	
Toluene-d8 (S)	%			101	80-120	

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QUALITY CONTROL DATA

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60152803

QC Batch: WET/43442 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 60152803001, 60152803002, 60152803003, 60152803004, 60152803005, 60152803006, 60152803007, 60152803008

METHOD BLANK: 1254348 Matrix: Water
Associated Lab Samples: 60152803001, 60152803002, 60152803003, 60152803004, 60152803005, 60152803006, 60152803007, 60152803008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	09/17/13 13:11	

LABORATORY CONTROL SAMPLE: 1254349

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	974	97	80-120	

SAMPLE DUPLICATE: 1254350

Parameter	Units	60152803001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2090	2150	3	17	

SAMPLE DUPLICATE: 1254351

Parameter	Units	60153027002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1070	1050	2	17	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60152803

QC Batch: WETA/26316 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60152803001, 60152803002, 60152803003, 60152803004, 60152803005, 60152803006, 60152803007, 60152803008

METHOD BLANK: 1258997 Matrix: Water
Associated Lab Samples: 60152803001, 60152803002, 60152803003, 60152803004, 60152803005, 60152803006, 60152803007, 60152803008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	1.0	09/25/13 09:01	

LABORATORY CONTROL SAMPLE: 1258998

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	5	4.9	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1258999 1259000

Parameter	Units	60152803001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	1130	1000	1000	2150	2140	102	101	80-120	1	15	

MATRIX SPIKE SAMPLE: 1259001

Parameter	Units	60152803002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	1200	1000	2230	103	80-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60152803

QC Batch: WETA/26180 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 60152803001, 60152803002, 60152803003, 60152803004, 60152803005, 60152803006, 60152803007, 60152803008

METHOD BLANK: 1251399 Matrix: Water
Associated Lab Samples: 60152803001, 60152803002, 60152803003, 60152803004, 60152803005, 60152803006, 60152803007, 60152803008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	09/11/13 15:21	

LABORATORY CONTROL SAMPLE: 1251400

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1.6	1.6	101	85-115	

MATRIX SPIKE SAMPLE: 1251402

Parameter	Units	60152798004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	ND	1.6	1.6	103	85-115	

MATRIX SPIKE SAMPLE: 1251403

Parameter	Units	60152803004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	8.6	8	15.4	84	85-115	M1

SAMPLE DUPLICATE: 1251404

Parameter	Units	60152813001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	24.4	24.1	2	20	

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QUALIFIERS

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60152803

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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BATCH QUALIFIERS

Batch: MSV/56253

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/56362

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/56393

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SAN JUAN 29-7 UNIT 37
Pace Project No.: 60152803

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60152803001	**GW-075040-091013-CM-MW-1**	EPA 3010	MPRP/24320	EPA 6010	ICP/18973
60152803002	**GW-075040-091013-CM-MW-2**	EPA 3010	MPRP/24320	EPA 6010	ICP/18973
60152803003	**GW-075040-091013-CM-MW-3**	EPA 3010	MPRP/24320	EPA 6010	ICP/18973
60152803004	**GW-075040-091013-CM-MW-4**	EPA 3010	MPRP/24320	EPA 6010	ICP/18973
60152803005	**GW-075040-091013-CM-MW-5**	EPA 3010	MPRP/24320	EPA 6010	ICP/18973
60152803006	**GW-075040-091013-CM-MW-6**	EPA 3010	MPRP/24320	EPA 6010	ICP/18973
60152803007	**GW-075040-091013-CM-MW-7**	EPA 3010	MPRP/24320	EPA 6010	ICP/18973
60152803008	**GW-075040-091013-CM-MW-8R**	EPA 3010	MPRP/24320	EPA 6010	ICP/18973
60152803001	**GW-075040-091013-CM-MW-1**	EPA 8260	MSV/56253		
60152803002	**GW-075040-091013-CM-MW-2**	EPA 8260	MSV/56253		
60152803003	**GW-075040-091013-CM-MW-3**	EPA 8260	MSV/56253		
60152803004	**GW-075040-091013-CM-MW-4**	EPA 8260	MSV/56253		
60152803005	**GW-075040-091013-CM-MW-5**	EPA 8260	MSV/56253		
60152803006	**GW-075040-091013-CM-MW-6**	EPA 8260	MSV/56362		
60152803007	**GW-075040-091013-CM-MW-7**	EPA 8260	MSV/56362		
60152803008	**GW-075040-091013-CM-MW-8R**	EPA 8260	MSV/56393		
60152803009	**GW-075040-091013-CM-DUP**	EPA 8260	MSV/56362		
60152803010	**TB-075040-091013-CM-001**	EPA 8260	MSV/56362		
60152803001	**GW-075040-091013-CM-MW-1**	SM 2540C	WET/43442		
60152803002	**GW-075040-091013-CM-MW-2**	SM 2540C	WET/43442		
60152803003	**GW-075040-091013-CM-MW-3**	SM 2540C	WET/43442		
60152803004	**GW-075040-091013-CM-MW-4**	SM 2540C	WET/43442		
60152803005	**GW-075040-091013-CM-MW-5**	SM 2540C	WET/43442		
60152803006	**GW-075040-091013-CM-MW-6**	SM 2540C	WET/43442		
60152803007	**GW-075040-091013-CM-MW-7**	SM 2540C	WET/43442		
60152803008	**GW-075040-091013-CM-MW-8R**	SM 2540C	WET/43442		
60152803001	**GW-075040-091013-CM-MW-1**	EPA 300.0	WETA/26316		
60152803002	**GW-075040-091013-CM-MW-2**	EPA 300.0	WETA/26316		
60152803003	**GW-075040-091013-CM-MW-3**	EPA 300.0	WETA/26316		
60152803004	**GW-075040-091013-CM-MW-4**	EPA 300.0	WETA/26316		
60152803005	**GW-075040-091013-CM-MW-5**	EPA 300.0	WETA/26316		
60152803006	**GW-075040-091013-CM-MW-6**	EPA 300.0	WETA/26316		
60152803007	**GW-075040-091013-CM-MW-7**	EPA 300.0	WETA/26316		
60152803008	**GW-075040-091013-CM-MW-8R**	EPA 300.0	WETA/26316		
60152803001	**GW-075040-091013-CM-MW-1**	EPA 353.2	WETA/26180		
60152803002	**GW-075040-091013-CM-MW-2**	EPA 353.2	WETA/26180		
60152803003	**GW-075040-091013-CM-MW-3**	EPA 353.2	WETA/26180		
60152803004	**GW-075040-091013-CM-MW-4**	EPA 353.2	WETA/26180		
60152803005	**GW-075040-091013-CM-MW-5**	EPA 353.2	WETA/26180		
60152803006	**GW-075040-091013-CM-MW-6**	EPA 353.2	WETA/26180		
60152803007	**GW-075040-091013-CM-MW-7**	EPA 353.2	WETA/26180		
60152803008	**GW-075040-091013-CM-MW-8R**	EPA 353.2	WETA/26180		

REPORT OF LABORATORY ANALYSIS

September 25 2013

Angela Brown
Pace Analytical-KS
9608 Loiret Blvd.
Lenexa, KS 66219

RE: PAS Subcontract-AB
COPCRA NM

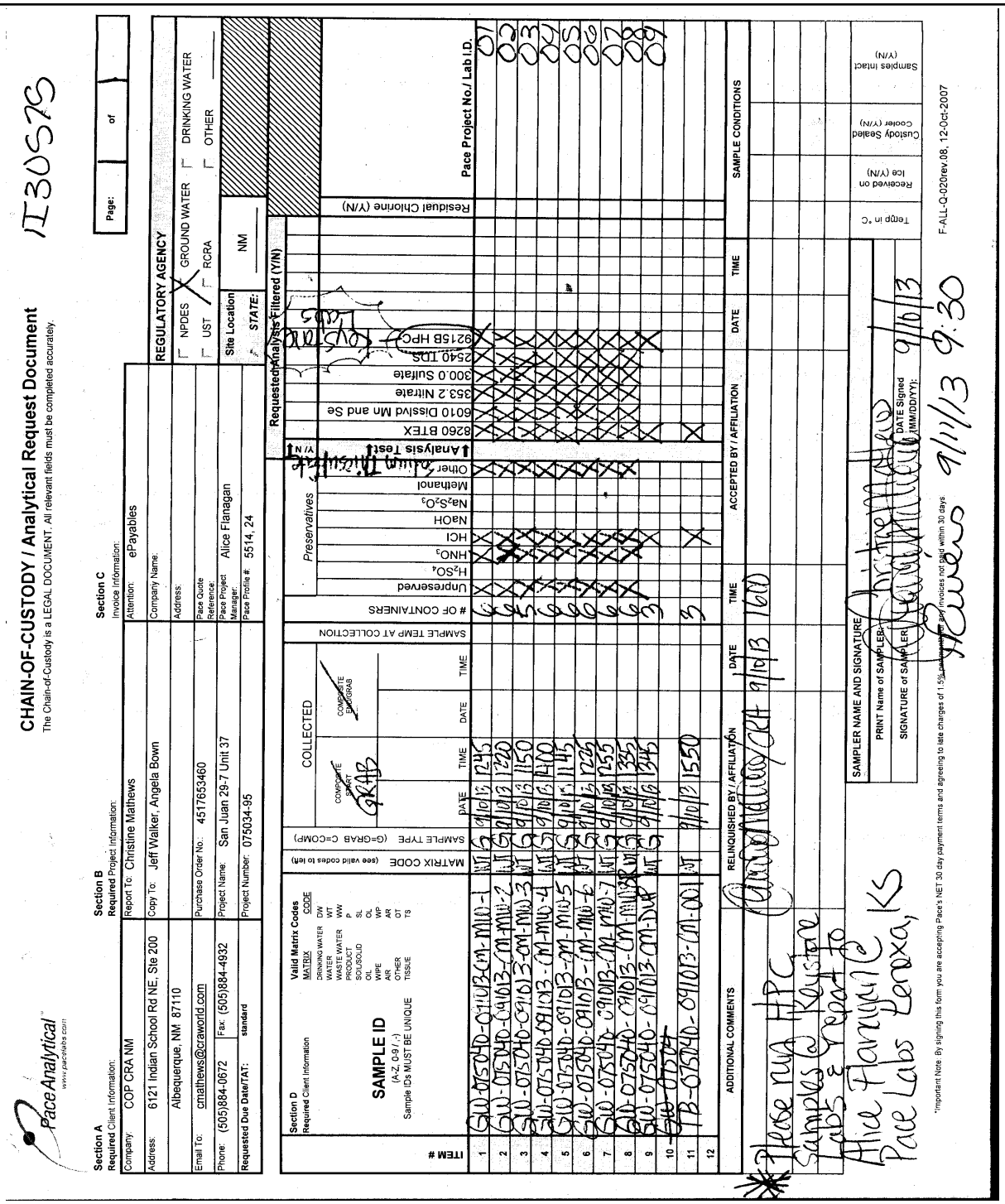
Enclosed are the results of analyses for samples received by the laboratory on 09/11/13 09:30. If you have any questions concerning this report, please feel free to contact me at 1-800-858-5227.

ANALYTICAL REPORT FOR SAMPLES

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GW-075040-091013-CM-MW-1	1I30575-01	Water	09/10/13 12:45	09/11/13 09:30
GW-075040-091013-CM-MW-2	1I30575-02	Water	09/10/13 12:20	09/11/13 09:30
GW-075040-091013-CM-MW-3	1I30575-03	Water	09/10/13 11:50	09/11/13 09:30
GW-075040-091013-CM-MW-4	1I30575-04	Water	09/10/13 14:00	09/11/13 09:30
GW-075040-091013-CM-MW-5	1I30575-05	Water	09/10/13 11:45	09/11/13 09:30
GW-075040-091013-CM-MW-6	1I30575-06	Water	09/10/13 12:25	09/11/13 09:30
GW-075040-091013-CM-MW-7	1I30575-07	Water	09/10/13 12:55	09/11/13 09:30
GW-075040-091013-CM-MW-8R	1I30575-08	Water	09/10/13 13:35	09/11/13 09:30
GW-075040-091013-CM-MW-Dup	1I30575-09	Water	09/10/13 13:45	09/11/13 09:30

Phone 641-792-8451
600 East 17th Street South
Newton, IA 50208
Fax 641-792-7916

Pace Analytical-KS 9608 Loiret Blvd. Lenexa, KS 66219	Project: PAS Subcontract-AB Project Number: COPCRA NM Project Manager: Angela Brown	Reported 09/25/13 17:36



The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record. This report must be reproduced in its entirety.

Pace Analytical-KS 9608 Loiret Blvd. Lenexa, KS 66219	Project: PAS Subcontract-AB Project Number: COPCRA NM Project Manager: Angela Brown	Reported 09/25/13 17:36

GW-075040-091013-CM-MW-1

1I30575-01 (Water)

Date Sampled:9/10/2013 12:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Keystone Laboratories, Inc. - Newton									
Determination of Microbiological Parameters									
Heterotrophic Plate Count	**2300**	1.0	CFU/ml	1	1WI0309	09/11/13	09/11/13 12:00	9215B	

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record. This report must be reproduced in its entirety.

Phone 641-792-8451

600 East 17th Street South
Newton, IA 50208

Fax 641-792-9685

Pace Analytical-KS 9608 Loiret Blvd. Lenexa, KS 66219	Project: PAS Subcontract-AB Project Number: COPCRA NM Project Manager: Angela Brown	Reported 09/25/13 17:36

GW-075040-091013-CM-MW-2

1I30575-02 (Water)

Date Sampled:9/10/2013 12:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Keystone Laboratories, Inc. - Newton									
Determination of Microbiological Parameters									
Heterotrophic Plate Count	**160**	1.0	CFU/ml	1	1WI0309	09/11/13	09/11/13 12:00	9215B	

Phone 641-792-8451

600 East 17th Street South
Newton, IA 50208

Fax 641-792-8645

Pace Analytical-KS 9608 Loiret Blvd. Lenexa, KS 66219	Project: PAS Subcontract-AB Project Number: COPCRA NM Project Manager: Angela Brown	Reported 09/25/13 17:36

GW-075040-091013-CM-MW-3

1I30575-03 (Water)

Date Sampled:9/10/2013 11:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Keystone Laboratories, Inc. - Newton									
Determination of Microbiological Parameters									
Heterotrophic Plate Count	**110**	1.0	CFU/ml	1	1WI0309	09/11/13	09/11/13 12:00	9215B	I-02

Phone 641-792-8451

600 East 17th Street South
Newton, IA 50208

Fax 641-792-8456

Pace Analytical-KS 9608 Loiret Blvd. Lenexa, KS 66219	Project: PAS Subcontract-AB Project Number: COPCRA NM Project Manager: Angela Brown	Reported 09/25/13 17:36

GW-075040-091013-CM-MW-4

1I30575-04 (Water)

Date Sampled:9/10/2013 2:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Keystone Laboratories, Inc. - Newton									
Determination of Microbiological Parameters									
Heterotrophic Plate Count	**910**	1.0	CFU/ml	1	1WI0309	09/11/13	09/11/13 12:00	9215B	

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record. This report must be reproduced in its entirety.

Phone 641-792-8451

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Newton, IA 50208

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Pace Analytical-KS 9608 Loiret Blvd. Lenexa, KS 66219	Project: PAS Subcontract-AB Project Number: COPCRA NM Project Manager: Angela Brown	Reported 09/25/13 17:36

GW-075040-091013-CM-MW-5

1I30575-05 (Water)

Date Sampled:9/10/2013 11:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Keystone Laboratories, Inc. - Newton									
Determination of Microbiological Parameters									
Heterotrophic Plate Count	**660**	1.0	CFU/ml	1	1WI0309	09/11/13	09/11/13 12:00	9215B	I-02

Phone 641-792-8451

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Newton, IA 50208

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Pace Analytical-KS 9608 Loiret Blvd. Lenexa, KS 66219	Project: PAS Subcontract-AB Project Number: COPCRA NM Project Manager: Angela Brown	Reported 09/25/13 17:36

GW-075040-091013-CM-MW-6

1I30575-06 (Water)

Date Sampled:9/10/2013 12:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Keystone Laboratories, Inc. - Newton									
Determination of Microbiological Parameters									
Heterotrophic Plate Count	**65**	1.0	CFU/ml	1	1WI0309	09/11/13	09/11/13 12:00	9215B	

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record. This report must be reproduced in its entirety.

Phone 641-792-8451

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Fax 641-792-7845

Pace Analytical-KS 9608 Loiret Blvd. Lenexa, KS 66219	Project: PAS Subcontract-AB Project Number: COPCRA NM Project Manager: Angela Brown	Reported 09/25/13 17:36

GW-075040-091013-CM-MW-7

1I30575-07 (Water)

Date Sampled:9/10/2013 12:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Keystone Laboratories, Inc. - Newton									
Determination of Microbiological Parameters									
Heterotrophic Plate Count	**110**	1.0	CFU/ml	1	1WI0309	09/11/13	09/11/13 12:00	9215B	

Phone 641-792-8451

600 East 17th Street South
Newton, IA 50208

Fax 641-792-7985

Pace Analytical-KS 9608 Loiret Blvd. Lenexa, KS 66219	Project: PAS Subcontract-AB Project Number: COPCRA NM Project Manager: Angela Brown	Reported 09/25/13 17:36

GW-075040-091013-CM-MW-8R

1I30575-08 (Water)

Date Sampled:9/10/2013 1:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Keystone Laboratories, Inc. - Newton									
Determination of Microbiological Parameters									
Heterotrophic Plate Count	**5700**	1.0	CFU/ml	1	1WI0309	09/11/13	09/11/13 12:00	9215B	

Pace Analytical-KS 9608 Loiret Blvd. Lenexa, KS 66219	Project: PAS Subcontract-AB Project Number: COPCRA NM Project Manager: Angela Brown	Reported 09/25/13 17:36

GW-075040-091013-CM-MW-Dup

1I30575-09 (Water)

Date Sampled:9/10/2013 1:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Keystone Laboratories, Inc. - Newton									
Determination of Microbiological Parameters									
Heterotrophic Plate Count	**8700**	1.0	CFU/ml	1	1WI0309	09/11/13	09/11/13 12:00	9215B	

Phone 641-792-8451

600 East 17th Street South
Newton, IA 50208

Fax 641-792-7845

Pace Analytical-KS	Project: PAS Subcontract-AB	Reported
9608 Loiret Blvd.	Project Number: COPCRA NM	09/25/13 17:36
Lenexa, KS 66219	Project Manager: Angela Brown	

Determination of Microbiological Parameters - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1WI0309 - General Prep Micro										
Blank (1WI0309-BLK1)				Prepared & Analyzed: 09/11/13						
Heterotrophic Plate Count	ND	1.0	CFU/ml							

Certified Analyses Included in This Report

Method/Matrix	Analyte	Certifications

Code	Certifying Authority	Certificate Number	Expires
KS-KC	Kansas Department of Health and Environment-KC	E-10110	04/30/2014
KS-NT	Kansas Department of Health and Environment	E-10287	10/30/2013
MO-KC	Missouri Department of Natural Resources	140	04/30/2014
NELAC	New Jersey Department of Environmental Protection	IA001	06/30/2014
SIA1X	Iowa Department of Natural Resources	95	02/01/2014

Phone 641-792-8451

600 East 17th Street South
Newton, IA 50208

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Page 12 of 14

Pace Analytical-KS	Project:	PAS Subcontract-AB	Reported
9608 Loiret Blvd.	Project Number:	COPCRA NM	09/25/13 17:36
Lenexa, KS 66219	Project Manager:	Angela Brown	

Notes and Definitions

I-02	This result was analyzed outside of the EPA recommended holding time.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Pace Analytical-KS 9608 Loiret Blvd. Lenexa, KS 66219	Project: Project Number: Project Manager:	PAS Subcontract-AB COPCRA NM Angela Brown	Reported 09/25/13 17:36

Sue Thompson

Sue Thompson

Project Manager II

Phone 641-792-8451

600 East 17th Street South
Newton, IA 50208

Fax 641-792-8456

Page 14 of 14

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Sample Condition Upon Receipt
ESI Tech Spec Client

WO# : 60152803

60152803

Client Name: CoP-CRA

Optional
Proj Due Date:
Proj Name:

Courier: Fed Ex ☒ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other ☐

Tracking #: 802316827 9502 Pace Shipping Label Used? Yes ☐ No ☐

Custody Seal on Cooler/Box Present: Yes ☐ No ☐ Seals intact: Yes ☐ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☐ Foam ☐ None ☐ Other ☐ ZIP L

Thermometer Used: T-112 / T-194 **Type of Ice:** (Wet) Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 0.3

Temperature should be above freezing to 6°C

Date and initials of person examining contents: 9/11

Chain of Custody present:	☒Yes ☐No ☐N/A	1.
Chain of Custody filled out:	☒Yes ☐No ☐N/A	2.
Chain of Custody relinquished:	☒Yes ☐No ☐N/A	3.
Sampler name & signature on COC:	☒Yes ☐No ☐N/A	4.
Samples arrived within holding time:	☒Yes ☐No ☐N/A	5.
Short Hold Time analyses (<72hr):	☒Yes ☐No ☐N/A	6. NO_2
Rush Turn Around Time requested:	☐Yes ☒No ☐N/A	7.
Sufficient volume:	☒Yes ☐No ☐N/A	8.
Correct containers used:	☒Yes ☐No ☐N/A	
Pace containers used:	☒Yes ☐No ☐N/A	9.
Containers intact:	☒Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☒N/A	11.
Filtered volume received for dissolved tests?	☐Yes ☒No ☐N/A	12.
Sample labels match COC:	☒Yes ☐No ☐N/A	
Includes date/time/ID/analyses Matrix: WT		13.
All containers needing preservation have been checked.	☒Yes ☐No ☐N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	☒Yes ☐No ☐N/A	14.
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☒Yes ☐No	Initial when completed / Lot # of added preservative
Trip Blank present:	☒Yes ☐No ☐N/A	
Pace Trip Blank lot # (if purchased): Aug-24		15.
Headspace in VOA vials (>6mm):	☐Yes ☒No ☐N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☒No ☐N/A	17. List State:

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: APF Date: 9/11/13

Temp Log: Record start and finish times when unpacking cooler, if >20 min, recheck sample temps.

Start: 0915	Start:
End: 0930	End:
Temp: 0.3	Temp:

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: of

Section A Required Client Information:

Company:	COP CRA NM
Address:	6121 Indian School Rd NE, Ste 200
	Albequerque, NM 87110
Email To:	cmathews@craworld.com
Phone: (505)884-0672	Fax: (505)884-4932
Requested Due Date/TAT:	standard

Section B Required Project Information:

Report To:	Christine Mathews
Copy To:	Jeff Walker, Angela Bown
Purchase Order No.:	4517653460
Project Name:	San Juan 29-7 Unit 37
Project Number:	075034-95

Section C Invoice Information:

Attention:	ePayables
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Alice Flanagan
Pace Profile #:	5514, 24

REGULATORY AGENCY

NPDES X GROUND WATER DRINKING WATER

UST RCRA OTHER

Site Location STATE: NM

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information — SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	Valid Matrix Codes: MATRIX / CODE (DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COLLECTED: COMPOSITE START TIME	COLLECTED: COMPOSITE END/GRAB DATE	COLLECTED: COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N: 8260 BTEX	6010 Disslvd Mn and Se	353.2 Nitrate	300.0 Sulfate	2540 TDS	9215B HPC	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	GW-075040-091013-CM-MW-1	WT	G	9/10/13	1245	3(DG9H)	BP3U			6	X		X	X				X	X	X	X	X	X	X		BP3N 1.5	001
2	GW-075040-091013-CM-MW-2	WT	G	9/10/13	1220	↓				6	X		X	X				X	X	X	X	X	X	X			002
3	GW-075040-091013-CM-MW-3	WT	G	9/10/13	1150	2(DG9H)				5	X		X	X				X	X	X	X	X	X	X			003
4	GW-075040-091013-CM-MW-4	WT	G	9/10/13	1400	3(DG9H)				6	X		X	X				X	X	X	X	X	X	X			004
5	GW-075040-091013-CM-MW-5	WT	G	9/10/13	1145					6	X		X	X				X	X	X	X	X	X	X			005
6	GW-075040-091013-CM-MW-6	WT	G	9/10/13	1225					6	X		X	X				X	X	X	X	X	X	X			006
7	GW-075040-091013-CM-MW-7	WT	G	9/10/13	1255					6	X		X	X				X	X	X	X	X	X	X			007
8	GW-075040-091013-CM-MW8R	WT	G	9/10/13	1335					6	X		X	X				X	X	X	X	X	X	X			008
9	GW-075040-091013-CM-DUP	WT	G	9/10/13	1345					3				X					X									009
10	~~GW-07504~~																											
11	TB-075040-091013-CM-001	WT		9/10/13	1550	3(DG9H)	TB			3				X					X									010
12																												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
* Please run HPC Samples @ Keystone Labs & report to Alice Flanagan @ Pace Labs Lenexa, KS	Christine Mathews/CRA	9/10/13	1600	Shundell McK/PSA	9/11	0810	0.3	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Christine Mathews

SIGNATURE of SAMPLER: Christine Mathews DATE Signed (MM/DD/YY): 9/10/13

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.08, 12-Oct-2007

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

January 22, 2014

Jeff Walker
COP Conestoga-Rovers & Associa
6121 Indian School Rd. NE
Ste 200
Albuquerque, NM 87110

RE: Project: 075034 San Juan 29-7 Unit 37
Pace Project No.: 60160790

Dear Jeff Walker:
Enclosed are the analytical results for sample(s) received by the laboratory between January 08, 2014 and January 09, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Alice Flanagan
alice.flanagan@pacelabs.com
Project Manager

Enclosures

cc: Angela Bown, COP Conestoga-Rovers & Associa
Christine Matthews, CRA

Pace Analytical Services, Inc.
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(913)599-5665

CERTIFICATIONS

Project: 075034 San Juan 29-7 Unit 37
Pace Project No.: 60160790

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 13-012-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-13-4
Utah Certification #: KS000212013-3
Illinois Certification #: 003097

Southeast Kansas Certification IDs
808 West McKay, Frontenac, KS 66763
Arkansas Certification #: 13-012-0
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Oklahoma Certification #: 2012-051
Texas Certification #: T104704407-13-4
Utah Certification #: KS000212013-3
Minnesota Certification #: 495004

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SAMPLE SUMMARY

Project: 075034 San Juan 29-7 Unit 37
Pace Project No.: 60160790

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60160790001	**GW-075034-010714-CM-MW-1**	Water	01/07/14 13:50	01/08/14 12:45
60160790002	**GW-075034-010714-CM-MW-2**	Water	01/07/14 13:20	01/08/14 12:45
60160790003	**GW-075034-010714-CM-MW-3**	Water	01/07/14 12:50	01/08/14 12:45
60160790004	**GW-075034-010714-CM-MW-4**	Water	01/07/14 14:20	01/08/14 12:45
60160790005	**GW-075034-010714-CM-MW-5**	Water	01/07/14 12:00	01/08/14 12:45
60160790006	**GW-075034-010714-CM-MW-6**	Water	01/07/14 12:20	01/08/14 12:45
60160790007	**GW-075034-010714-CM-MW-7**	Water	01/07/14 11:25	01/08/14 12:45
60160790008	**GW-075034-010714-CM-MW-8R**	Water	01/07/14 12:35	01/08/14 12:45
60160790009	**GW-075034-010714-CM-MW-DUP**	Water	01/07/14 13:00	01/08/14 12:45
60160790010	**GW-075034-010714-CM-MW-1**	Water	01/07/14 13:50	01/09/14 09:30
60160790011	**GW-075034-010714-CM-MW-2**	Water	01/07/14 13:20	01/09/14 09:30
60160790012	**GW-075034-010714-CM-MW-3**	Water	01/07/14 12:50	01/09/14 09:30
60160790013	**GW-075034-010714-CM-MW-4**	Water	01/07/14 14:20	01/09/14 09:30
60160790014	**GW-075034-010714-CM-MW-5**	Water	01/07/14 12:00	01/09/14 09:30
60160790015	**GW-075034-010714-CM-MW-6**	Water	01/07/14 12:20	01/09/14 09:30
60160790016	**GW-075034-010714-CM-MW-7**	Water	01/07/14 11:25	01/09/14 09:30
60160790017	**GW-075034-010714-CM-MW-8R**	Water	01/07/14 12:35	01/09/14 09:30
60160790018	**GW-075034-010714-CM-DUP**	Water	01/07/14 12:40	01/09/14 09:30
60160790019	**TB-075034-010714-CM-001**	Water	01/07/14 16:00	01/09/14 09:30
60160790020	**TB-075034-010714-CM-002**	Water	01/07/14 16:10	01/09/14 09:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 075034 San Juan 29-7 Unit 37
Pace Project No.: 60160790

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60160790001	**GW-075034-010714-CM-MW-1**	SM 9215B	MEB	1
60160790002	**GW-075034-010714-CM-MW-2**	SM 9215B	MEB	1
60160790003	**GW-075034-010714-CM-MW-3**	SM 9215B	MEB	1
60160790004	**GW-075034-010714-CM-MW-4**	SM 9215B	MEB	1
60160790005	**GW-075034-010714-CM-MW-5**	SM 9215B	MEB	1
60160790006	**GW-075034-010714-CM-MW-6**	SM 9215B	MEB	1
60160790007	**GW-075034-010714-CM-MW-7**	SM 9215B	MEB	1
60160790008	**GW-075034-010714-CM-MW-8R**	SM 9215B	MEB	1
60160790009	**GW-075034-010714-CM-MW-DUP**	SM 9215B	MEB	1
60160790010	**GW-075034-010714-CM-MW-1**	EPA 6010	NDJ	2
		EPA 8260	JTK	8
		SM 2540C	JMC	1
		EPA 300.0	OL	1
		EPA 353.2	AJM	1
60160790011	**GW-075034-010714-CM-MW-2**	EPA 6010	NDJ	2
		EPA 8260	JTK	8
		SM 2540C	JMC	1
		EPA 300.0	OL	1
		EPA 353.2	AJM	1
60160790012	**GW-075034-010714-CM-MW-3**	EPA 6010	NDJ	2
		EPA 8260	JTK	8
		SM 2540C	JMC	1
		EPA 300.0	OL	1
		EPA 353.2	AJM	1
60160790013	**GW-075034-010714-CM-MW-4**	EPA 6010	NDJ	2
		EPA 8260	JTK	8
		SM 2540C	JMC	1
		EPA 300.0	OL	1
		EPA 353.2	AJM	1
60160790014	**GW-075034-010714-CM-MW-5**	EPA 6010	NDJ	2
		EPA 8260	JTK	8
		SM 2540C	JMC	1
		EPA 300.0	OL	1
		EPA 353.2	AJM	1
60160790015	**GW-075034-010714-CM-MW-6**	EPA 6010	NDJ	2
		EPA 8260	JTK	8
		SM 2540C	JMC	1

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SAMPLE ANALYTE COUNT

Project: 075034 San Juan 29-7 Unit 37
Pace Project No.: 60160790

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 300.0	OL	1
		EPA 353.2	AJM	1
60160790016	**GW-075034-010714-CM-MW-7**	EPA 6010	NDJ	2
		EPA 8260	JTS	8
		SM 2540C	JMC	1
		EPA 300.0	OL	1
		EPA 353.2	AJM	1
60160790017	**GW-075034-010714-CM-MW-8R**	EPA 6010	NDJ	2
		EPA 8260	JTS	8
		SM 2540C	JMC	1
		EPA 300.0	OL	1
		EPA 353.2	AJM	1
60160790018	**GW-075034-010714-CM-DUP**	EPA 8260	JTS	8
60160790019	**TB-075034-010714-CM-001**	EPA 8260	JTS	8
60160790020	**TB-075034-010714-CM-002**	EPA 8260	JTS	8

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PROJECT NARRATIVE

Project: 075034 San Juan 29-7 Unit 37
Pace Project No.: 60160790

Method: **EPA 6010**
Description: 6010 MET ICP, Dissolved
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: January 22, 2014

General Information:
8 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 075034 San Juan 29-7 Unit 37
Pace Project No.: 60160790

Method: **SM 9215B**
Description: MBIO HPC (Drinking Water)
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: January 22, 2014

General Information:
9 samples were analyzed for SM 9215B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H3: Sample was received or analysis requested beyond the recognized method holding time.
- GW-075034-010714-CM-MW-5 (Lab ID: 60160790005)
- GW-075034-010714-CM-MW-6 (Lab ID: 60160790006)
- GW-075034-010714-CM-MW-7 (Lab ID: 60160790007)
- GW-075034-010714-CM-MW-8R (Lab ID: 60160790008)

u3: Analysis initiated more than 8 hours but less than 24 hours after sample collection.
- GW-075034-010714-CM-MW-1 (Lab ID: 60160790001)
- GW-075034-010714-CM-MW-2 (Lab ID: 60160790002)
- GW-075034-010714-CM-MW-4 (Lab ID: 60160790004)
- GW-075034-010714-CM-MW-DUP (Lab ID: 60160790009)

u6: Analysis initiated more than 24 hours after sample collection.
- GW-075034-010714-CM-MW-3 (Lab ID: 60160790003)
- GW-075034-010714-CM-MW-5 (Lab ID: 60160790005)
- GW-075034-010714-CM-MW-6 (Lab ID: 60160790006)
- GW-075034-010714-CM-MW-7 (Lab ID: 60160790007)
- GW-075034-010714-CM-MW-8R (Lab ID: 60160790008)

Sample Preparation:
The samples were prepared in accordance with SM 9215B with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 075034 San Juan 29-7 Unit 37
Pace Project No.: 60160790

Method: **EPA 8260**
Description: 8260 MSV UST, Water
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: January 22, 2014

General Information:
11 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/58783
A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: MSV/58789
A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: MSV/58812
A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

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PROJECT NARRATIVE

Project: 075034 San Juan 29-7 Unit 37
Pace Project No.: 60160790

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: January 22, 2014

General Information:
8 samples were analyzed for SM 2540C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 075034 San Juan 29-7 Unit 37
Pace Project No.: 60160790

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: January 22, 2014

General Information:
8 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 075034 San Juan 29-7 Unit 37
Pace Project No.: 60160790

Method: **EPA 353.2**
Description: 353.2 Nitrogen, NO2/NO3 unpres
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: January 22, 2014

General Information:
8 samples were analyzed for EPA 353.2. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/27774

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60160732002,60160790010

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1315351)
  - Nitrogen, Nitrate

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 075034 San Juan 29-7 Unit 37
Pace Project No.: 60160790

Sample: GW-075034-010714-CM-MW-1 **Lab ID: 60160790001** Collected: 01/07/14 13:50 Received: 01/08/14 12:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MBIO HPC (Drinking Water)	Analytical Method: SM 9215B Preparation Method: SM 9215B							
Heterotrophic Plate Count	**335000**	CFU/mL	1.0	1	01/08/14 12:58	01/10/14 11:30		u3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 075034 San Juan 29-7 Unit 37
Pace Project No.: 60160790

Sample: GW-075034-010714-CM-MW-2 **Lab ID: 60160790002** Collected: 01/07/14 13:20 Received: 01/08/14 12:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MBIO HPC (Drinking Water)	Analytical Method: SM 9215B Preparation Method: SM 9215B							
Heterotrophic Plate Count	**2435**	CFU/mL	1.0	1	01/08/14 12:58	01/10/14 11:30		u3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 075034 San Juan 29-7 Unit 37
Pace Project No.: 60160790

Sample: GW-075034-010714-CM-MW-3 **Lab ID: 60160790003** Collected: 01/07/14 12:50 Received: 01/08/14 12:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MBIO HPC (Drinking Water)	Analytical Method: SM 9215B Preparation Method: SM 9215B							
Heterotrophic Plate Count	**283.5**	CFU/mL	1.0	1	01/08/14 12:58	01/10/14 11:30		u6

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 075034 San Juan 29-7 Unit 37
Pace Project No.: 60160790

Sample: GW-075034-010714-CM-MW-4 **Lab ID: 60160790004** Collected: 01/07/14 14:20 Received: 01/08/14 12:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MBIO HPC (Drinking Water)	Analytical Method: SM 9215B Preparation Method: SM 9215B							
Heterotrophic Plate Count	**1160**	CFU/mL	1.0	1	01/08/14 12:58	01/10/14 11:30		u3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 075034 San Juan 29-7 Unit 37
Pace Project No.: 60160790

Sample: GW-075034-010714-CM-MW-5 **Lab ID: 60160790005** Collected: 01/07/14 12:00 Received: 01/08/14 12:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MBIO HPC (Drinking Water)	Analytical Method: SM 9215B Preparation Method: SM 9215B							
Heterotrophic Plate Count	**5450**	CFU/mL	1.0	1	01/08/14 12:58	01/10/14 11:30		H3,u6

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 075034 San Juan 29-7 Unit 37
Pace Project No.: 60160790

Sample: GW-075034-010714-CM-MW-6 **Lab ID: 60160790006** Collected: 01/07/14 12:20 Received: 01/08/14 12:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MBIO HPC (Drinking Water)	Analytical Method: SM 9215B Preparation Method: SM 9215B							
Heterotrophic Plate Count	**2460**	CFU/mL	1.0	1	01/08/14 12:58	01/10/14 11:30		H3,u6

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 075034 San Juan 29-7 Unit 37
Pace Project No.: 60160790

Sample: GW-075034-010714-CM-MW-7 **Lab ID: 60160790007** Collected: 01/07/14 11:25 Received: 01/08/14 12:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MBIO HPC (Drinking Water)	Analytical Method: SM 9215B Preparation Method: SM 9215B							
Heterotrophic Plate Count	**8300**	CFU/mL	1.0	1	01/08/14 12:58	01/10/14 11:30		H3,u6

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 075034 San Juan 29-7 Unit 37
Pace Project No.: 60160790

Sample: GW-075034-010714-CM-MW-8R **Lab ID: 60160790008** Collected: 01/07/14 12:35 Received: 01/08/14 12:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MBIO HPC (Drinking Water)	Analytical Method: SM 9215B Preparation Method: SM 9215B							
Heterotrophic Plate Count	**425000**	CFU/mL	1.0	1	01/08/14 12:58	01/10/14 11:30		H3,u6

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 075034 San Juan 29-7 Unit 37
Pace Project No.: 60160790

Sample: GW-075034-010714-CM-MW-DUP **Lab ID: 60160790009** Collected: 01/07/14 13:00 Received: 01/08/14 12:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MBIO HPC (Drinking Water)	Analytical Method: SM 9215B Preparation Method: SM 9215B							
Heterotrophic Plate Count	**350**	CFU/mL	1.0	1	01/08/14 12:58	01/10/14 11:30		u3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 075034 San Juan 29-7 Unit 37
Pace Project No.: 60160790

Sample: GW-075034-010714-CM-MW-1 **Lab ID: 60160790010** Collected: 01/07/14 13:50 Received: 01/09/14 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Manganese, Dissolved	**132**	ug/L	5.0	1	01/09/14 14:55	01/10/14 13:36	7439-96-5	
Selenium, Dissolved	**34.9**	ug/L	15.0	1	01/09/14 14:55	01/10/14 13:36	7782-49-2	
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		01/09/14 16:57	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		01/09/14 16:57	100-41-4	
Toluene	ND	ug/L	1.0	1		01/09/14 16:57	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		01/09/14 16:57	1330-20-7	
Surrogates								
Toluene-d8 (S)	100	%	80-120	1		01/09/14 16:57	2037-26-5	
4-Bromofluorobenzene (S)	94	%	80-120	1		01/09/14 16:57	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	80-120	1		01/09/14 16:57	17060-07-0	
Preservation pH	**1.0**		1.0	1		01/09/14 16:57		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1990**	mg/L	5.0	1		01/14/14 16:03		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**1040**	mg/L	100	100		01/20/14 13:51	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**22.5**	mg/L	1.0	10		01/09/14 11:16		M1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 075034 San Juan 29-7 Unit 37
Pace Project No.: 60160790

Sample: GW-075034-010714-CM-MW-2 **Lab ID: 60160790011** Collected: 01/07/14 13:20 Received: 01/09/14 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Manganese, Dissolved	**6.9**	ug/L	5.0	1	01/09/14 14:55	01/10/14 13:43	7439-96-5	
Selenium, Dissolved	**74.5**	ug/L	15.0	1	01/09/14 14:55	01/10/14 13:43	7782-49-2	
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		01/09/14 17:12	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		01/09/14 17:12	100-41-4	
Toluene	ND	ug/L	1.0	1		01/09/14 17:12	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		01/09/14 17:12	1330-20-7	
Surrogates								
Toluene-d8 (S)	102	%	80-120	1		01/09/14 17:12	2037-26-5	
4-Bromofluorobenzene (S)	100	%	80-120	1		01/09/14 17:12	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	80-120	1		01/09/14 17:12	17060-07-0	
Preservation pH	**1.0**		1.0	1		01/09/14 17:12		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**2390**	mg/L	5.0	1		01/14/14 16:05		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**1300**	mg/L	100	100		01/20/14 14:37	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**33.5**	mg/L	1.0	10		01/09/14 11:15		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 075034 San Juan 29-7 Unit 37
Pace Project No.: 60160790

Sample: GW-075034-010714-CM-MW-3 **Lab ID: 60160790012** Collected: 01/07/14 12:50 Received: 01/09/14 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Manganese, Dissolved	**1770**	ug/L	5.0	1	01/09/14 14:55	01/10/14 13:45	7439-96-5	
Selenium, Dissolved	ND	ug/L	15.0	1	01/09/14 14:55	01/10/14 13:45	7782-49-2	
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		01/09/14 17:27	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		01/09/14 17:27	100-41-4	
Toluene	ND	ug/L	1.0	1		01/09/14 17:27	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		01/09/14 17:27	1330-20-7	
Surrogates								
Toluene-d8 (S)	102	%	80-120	1		01/09/14 17:27	2037-26-5	
4-Bromofluorobenzene (S)	98	%	80-120	1		01/09/14 17:27	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	80-120	1		01/09/14 17:27	17060-07-0	
Preservation pH	**1.0**		1.0	1		01/09/14 17:27		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1970**	mg/L	5.0	1		01/14/14 16:05		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**1180**	mg/L	100	100		01/20/14 15:39	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**0.15**	mg/L	0.10	1		01/09/14 11:14		

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ANALYTICAL RESULTS

Project: 075034 San Juan 29-7 Unit 37
Pace Project No.: 60160790

Sample: GW-075034-010714-CM-MW-4 **Lab ID: 60160790013** Collected: 01/07/14 14:20 Received: 01/09/14 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Manganese, Dissolved	**26.5**	ug/L	5.0	1	01/09/14 14:55	01/10/14 13:48	7439-96-5	
Selenium, Dissolved	**38.1**	ug/L	15.0	1	01/09/14 14:55	01/10/14 13:48	7782-49-2	
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		01/09/14 17:43	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		01/09/14 17:43	100-41-4	
Toluene	ND	ug/L	1.0	1		01/09/14 17:43	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		01/09/14 17:43	1330-20-7	
Surrogates								
Toluene-d8 (S)	106	%	80-120	1		01/09/14 17:43	2037-26-5	
4-Bromofluorobenzene (S)	103	%	80-120	1		01/09/14 17:43	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	80-120	1		01/09/14 17:43	17060-07-0	
Preservation pH	**1.0**		1.0	1		01/09/14 17:43		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1960**	mg/L	5.0	1		01/14/14 16:06		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**1350**	mg/L	100	100		01/20/14 15:54	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**5.5**	mg/L	0.50	5		01/09/14 11:17		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 075034 San Juan 29-7 Unit 37
Pace Project No.: 60160790

Sample: GW-075034-010714-CM-MW-5 **Lab ID: 60160790014** Collected: 01/07/14 12:00 Received: 01/09/14 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Manganese, Dissolved	**396**	ug/L	5.0	1	01/09/14 14:55	01/10/14 13:50	7439-96-5	
Selenium, Dissolved	ND	ug/L	15.0	1	01/09/14 14:55	01/10/14 13:50	7782-49-2	
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		01/09/14 17:58	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		01/09/14 17:58	100-41-4	
Toluene	ND	ug/L	1.0	1		01/09/14 17:58	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		01/09/14 17:58	1330-20-7	
Surrogates								
Toluene-d8 (S)	99	%	80-120	1		01/09/14 17:58	2037-26-5	
4-Bromofluorobenzene (S)	97	%	80-120	1		01/09/14 17:58	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	80-120	1		01/09/14 17:58	17060-07-0	
Preservation pH	**1.0**		1.0	1		01/09/14 17:58		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**2770**	mg/L	5.0	1		01/14/14 16:11		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**1740**	mg/L	200	200		01/20/14 16:10	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		01/09/14 11:11		

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ANALYTICAL RESULTS

Project: 075034 San Juan 29-7 Unit 37
Pace Project No.: 60160790

Sample: GW-075034-010714-CM-MW-6 **Lab ID: 60160790015** Collected: 01/07/14 12:20 Received: 01/09/14 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Manganese, Dissolved	**268**	ug/L	5.0	1	01/09/14 14:55	01/10/14 13:52	7439-96-5	
Selenium, Dissolved	**41.7**	ug/L	15.0	1	01/09/14 14:55	01/10/14 13:52	7782-49-2	
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	**2.6**	ug/L	1.0	1		01/09/14 18:13	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		01/09/14 18:13	100-41-4	
Toluene	ND	ug/L	1.0	1		01/09/14 18:13	108-88-3	
Xylene (Total)	**3.4**	ug/L	3.0	1		01/09/14 18:13	1330-20-7	
Surrogates								
Toluene-d8 (S)	102	%	80-120	1		01/09/14 18:13	2037-26-5	
4-Bromofluorobenzene (S)	99	%	80-120	1		01/09/14 18:13	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	80-120	1		01/09/14 18:13	17060-07-0	
Preservation pH	**1.0**		1.0	1		01/09/14 18:13		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**2060**	mg/L	5.0	1		01/14/14 16:12		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**984**	mg/L	100	100		01/20/14 16:25	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**19.5**	mg/L	1.0	10		01/09/14 11:12		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 075034 San Juan 29-7 Unit 37
Pace Project No.: 60160790

Sample: GW-075034-010714-CM-MW-7 **Lab ID: 60160790016** Collected: 01/07/14 11:25 Received: 01/09/14 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Manganese, Dissolved	**452**	ug/L	5.0	1	01/09/14 14:55	01/10/14 13:59	7439-96-5	
Selenium, Dissolved	ND	ug/L	15.0	1	01/09/14 14:55	01/10/14 13:59	7782-49-2	
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		01/10/14 19:59	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		01/10/14 19:59	100-41-4	
Toluene	ND	ug/L	1.0	1		01/10/14 19:59	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		01/10/14 19:59	1330-20-7	
Surrogates								
Toluene-d8 (S)	93	%	80-120	1		01/10/14 19:59	2037-26-5	
4-Bromofluorobenzene (S)	96	%	80-120	1		01/10/14 19:59	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	80-120	1		01/10/14 19:59	17060-07-0	
Preservation pH	**1.0**		1.0	1		01/10/14 19:59		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**3320**	mg/L	5.0	1		01/14/14 16:13		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**1950**	mg/L	200	200		01/20/14 16:41	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**28.5**	mg/L	1.0	10		01/09/14 11:09		

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ANALYTICAL RESULTS

Project: 075034 San Juan 29-7 Unit 37
Pace Project No.: 60160790

Sample: GW-075034-010714-CM-MW-8R **Lab ID: 60160790017** Collected: 01/07/14 12:35 Received: 01/09/14 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Manganese, Dissolved	**255**	ug/L	5.0	1	01/09/14 14:55	01/10/14 14:02	7439-96-5	
Selenium, Dissolved	**37.4**	ug/L	15.0	1	01/09/14 14:55	01/10/14 14:02	7782-49-2	
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	**179**	ug/L	1.0	1		01/10/14 20:15	71-43-2	
Ethylbenzene	**10.5**	ug/L	1.0	1		01/10/14 20:15	100-41-4	
Toluene	**353**	ug/L	5.0	5		01/14/14 01:00	108-88-3	
Xylene (Total)	**690**	ug/L	15.0	5		01/14/14 01:00	1330-20-7	
Surrogates								
Toluene-d8 (S)	91	%	80-120	1		01/10/14 20:15	2037-26-5	
4-Bromofluorobenzene (S)	95	%	80-120	1		01/10/14 20:15	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	80-120	1		01/10/14 20:15	17060-07-0	
Preservation pH	**1.0**		1.0	1		01/10/14 20:15		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**2900**	mg/L	5.0	1		01/14/14 16:13		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**1360**	mg/L	100	100		01/20/14 16:56	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**28.3**	mg/L	1.0	10		01/09/14 11:13		

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ANALYTICAL RESULTS

Project: 075034 San Juan 29-7 Unit 37
Pace Project No.: 60160790

Sample: GW-075034-010714-CM-DUP **Lab ID: 60160790018** Collected: 01/07/14 12:40 Received: 01/09/14 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	**192**	ug/L	1.0	1		01/10/14 20:31	71-43-2	
Ethylbenzene	**10.7**	ug/L	1.0	1		01/10/14 20:31	100-41-4	
Toluene	**344**	ug/L	5.0	5		01/14/14 01:16	108-88-3	
Xylene (Total)	**715**	ug/L	15.0	5		01/14/14 01:16	1330-20-7	
Surrogates								
Toluene-d8 (S)	84	%	80-120	1		01/10/14 20:31	2037-26-5	
4-Bromofluorobenzene (S)	100	%	80-120	1		01/10/14 20:31	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	80-120	1		01/10/14 20:31	17060-07-0	
Preservation pH	**1.0**		1.0	1		01/10/14 20:31		

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ANALYTICAL RESULTS

Project: 075034 San Juan 29-7 Unit 37
Pace Project No.: 60160790

Sample: TB-075034-010714-CM-001 **Lab ID: 60160790019** Collected: 01/07/14 16:00 Received: 01/09/14 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		01/10/14 20:47	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		01/10/14 20:47	100-41-4	
Toluene	ND	ug/L	1.0	1		01/10/14 20:47	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		01/10/14 20:47	1330-20-7	
Surrogates								
Toluene-d8 (S)	92	%	80-120	1		01/10/14 20:47	2037-26-5	
4-Bromofluorobenzene (S)	98	%	80-120	1		01/10/14 20:47	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	80-120	1		01/10/14 20:47	17060-07-0	
Preservation pH	**1.0**		1.0	1		01/10/14 20:47		

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ANALYTICAL RESULTS

Project: 075034 San Juan 29-7 Unit 37
Pace Project No.: 60160790

Sample: TB-075034-010714-CM-002 **Lab ID: 60160790020** Collected: 01/07/14 16:10 Received: 01/09/14 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		01/10/14 21:03	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		01/10/14 21:03	100-41-4	
Toluene	ND	ug/L	1.0	1		01/10/14 21:03	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		01/10/14 21:03	1330-20-7	
Surrogates								
Toluene-d8 (S)	91	%	80-120	1		01/10/14 21:03	2037-26-5	
4-Bromofluorobenzene (S)	95	%	80-120	1		01/10/14 21:03	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	80-120	1		01/10/14 21:03	17060-07-0	
Preservation pH	**1.0**		1.0	1		01/10/14 21:03		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 075034 San Juan 29-7 Unit 37
Pace Project No.: 60160790

QC Batch: MBIO/12425 Analysis Method: SM 9215B
QC Batch Method: SM 9215B Analysis Description: 9215B Heterotrophic Plate Count
Associated Lab Samples: 60160790001, 60160790002, 60160790003, 60160790004, 60160790005, 60160790006, 60160790007, 60160790008, 60160790009

METHOD BLANK: 1315960 Matrix: Solid
Associated Lab Samples: 60160790001, 60160790002, 60160790003, 60160790004, 60160790005, 60160790006, 60160790007, 60160790008, 60160790009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Heterotrophic Plate Count	CFU/mL	<1	1.0	01/10/14 11:30	

SAMPLE DUPLICATE: 1315961

Parameter	Units	60160790001 Result	Dup Result	RPD	Max RPD	Qualifiers
Heterotrophic Plate Count	CFU/mL	335000	360000			

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 075034 San Juan 29-7 Unit 37
Pace Project No.: 60160790

QC Batch: MPRP/25842 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET Dissolved
Associated Lab Samples: 60160790010, 60160790011, 60160790012, 60160790013, 60160790014, 60160790015, 60160790016, 60160790017

METHOD BLANK: 1315518 Matrix: Water
Associated Lab Samples: 60160790010, 60160790011, 60160790012, 60160790013, 60160790014, 60160790015, 60160790016, 60160790017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Manganese, Dissolved	ug/L	ND	5.0	01/10/14 13:34	
Selenium, Dissolved	ug/L	ND	15.0	01/10/14 13:34	

LABORATORY CONTROL SAMPLE: 1315519

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese, Dissolved	ug/L	1000	1000	100	80-120	
Selenium, Dissolved	ug/L	1000	1010	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1315520 1315521

Parameter	Units	60160790010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Manganese, Dissolved	ug/L	132	1000	1000	1130	1130	100	100	75-125	0	20	
Selenium, Dissolved	ug/L	34.9	1000	1000	1070	1070	104	103	75-125	0	20	

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QUALITY CONTROL DATA

Project: 075034 San Juan 29-7 Unit 37
Pace Project No.: 60160790

QC Batch: MSV/58783 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 60160790010, 60160790011, 60160790012, 60160790013, 60160790014, 60160790015

METHOD BLANK: 1315542 Matrix: Water
Associated Lab Samples: 60160790010, 60160790011, 60160790012, 60160790013, 60160790014, 60160790015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	01/09/14 12:46	
Ethylbenzene	ug/L	ND	1.0	01/09/14 12:46	
Toluene	ug/L	ND	1.0	01/09/14 12:46	
Xylene (Total)	ug/L	ND	3.0	01/09/14 12:46	
1,2-Dichloroethane-d4 (S)	%	103	80-120	01/09/14 12:46	
4-Bromofluorobenzene (S)	%	100	80-120	01/09/14 12:46	
Toluene-d8 (S)	%	98	80-120	01/09/14 12:46	

LABORATORY CONTROL SAMPLE: 1315543

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	20.1	101	73-122	
Ethylbenzene	ug/L	20	19.7	98	76-123	
Toluene	ug/L	20	21.3	106	76-122	
Xylene (Total)	ug/L	60	60.5	101	76-122	
1,2-Dichloroethane-d4 (S)	%			98	80-120	
4-Bromofluorobenzene (S)	%			97	80-120	
Toluene-d8 (S)	%			105	80-120	

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QUALITY CONTROL DATA

Project: 075034 San Juan 29-7 Unit 37
Pace Project No.: 60160790

QC Batch: MSV/58789 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 60160790016, 60160790017, 60160790018, 60160790019, 60160790020

METHOD BLANK: 1315772 Matrix: Water
Associated Lab Samples: 60160790016, 60160790017, 60160790018, 60160790019, 60160790020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	01/10/14 16:44	
Ethylbenzene	ug/L	ND	1.0	01/10/14 16:44	
Toluene	ug/L	ND	1.0	01/10/14 16:44	
Xylene (Total)	ug/L	ND	3.0	01/10/14 16:44	
1,2-Dichloroethane-d4 (S)	%	99	80-120	01/10/14 16:44	
4-Bromofluorobenzene (S)	%	102	80-120	01/10/14 16:44	
Toluene-d8 (S)	%	86	80-120	01/10/14 16:44	

LABORATORY CONTROL SAMPLE: 1315773

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	21.6	108	73-122	
Ethylbenzene	ug/L	20	18.5	93	76-123	
Toluene	ug/L	20	17.3	86	76-122	
Xylene (Total)	ug/L	60	56.4	94	76-122	
1,2-Dichloroethane-d4 (S)	%			113	80-120	
4-Bromofluorobenzene (S)	%			99	80-120	
Toluene-d8 (S)	%			93	80-120	

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QUALITY CONTROL DATA

Project: 075034 San Juan 29-7 Unit 37
Pace Project No.: 60160790

QC Batch: MSV/58812 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 60160790017, 60160790018

METHOD BLANK: 1316773 Matrix: Water
Associated Lab Samples: 60160790017, 60160790018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Toluene	ug/L	ND	1.0	01/13/14 23:55	
Xylene (Total)	ug/L	ND	3.0	01/13/14 23:55	
1,2-Dichloroethane-d4 (S)	%	100	80-120	01/13/14 23:55	
4-Bromofluorobenzene (S)	%	99	80-120	01/13/14 23:55	
Toluene-d8 (S)	%	100	80-120	01/13/14 23:55	

LABORATORY CONTROL SAMPLE: 1316774

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	20	20.2	101	76-122	
Xylene (Total)	ug/L	60	62.1	103	76-122	
1,2-Dichloroethane-d4 (S)	%			98	80-120	
4-Bromofluorobenzene (S)	%			99	80-120	
Toluene-d8 (S)	%			99	80-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 075034 San Juan 29-7 Unit 37
Pace Project No.: 60160790

QC Batch: WET/45607 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 60160790010, 60160790011, 60160790012, 60160790013, 60160790014, 60160790015, 60160790016, 60160790017

METHOD BLANK: 1317303 Matrix: Water
Associated Lab Samples: 60160790010, 60160790011, 60160790012, 60160790013, 60160790014, 60160790015, 60160790016, 60160790017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	01/14/14 16:00	

LABORATORY CONTROL SAMPLE: 1317304

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	980	98	80-120	

SAMPLE DUPLICATE: 1317305

Parameter	Units	60160790010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1990	1990	0	17	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 075034 San Juan 29-7 Unit 37
Pace Project No.: 60160790

QC Batch: WETA/27861 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60160790010, 60160790011, 60160790012, 60160790013, 60160790014, 60160790015, 60160790016, 60160790017

METHOD BLANK: 1319733 Matrix: Water
Associated Lab Samples: 60160790010, 60160790011, 60160790012, 60160790013, 60160790014, 60160790015, 60160790016, 60160790017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	1.0	01/20/14 11:02	

LABORATORY CONTROL SAMPLE: 1319734

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	5	5.1	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1319735 1319736

Parameter	Units	60160790010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	1040	500	500	1520	1490	96	89	80-120	2	15	

MATRIX SPIKE SAMPLE: 1319737

Parameter	Units	60160790011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	1300	500	1750	90	80-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 075034 San Juan 29-7 Unit 37
Pace Project No.: 60160790

QC Batch: WETA/27774 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 60160790010, 60160790011, 60160790012, 60160790013, 60160790014, 60160790015, 60160790016, 60160790017

METHOD BLANK: 1315295 Matrix: Water
Associated Lab Samples: 60160790010, 60160790011, 60160790012, 60160790013, 60160790014, 60160790015, 60160790016, 60160790017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	01/09/14 10:18	

LABORATORY CONTROL SAMPLE: 1315296

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1.6	1.7	109	85-115	

MATRIX SPIKE SAMPLE: 1315299

Parameter	Units	60160732002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1.1	1.6	2.7	101	85-115	

MATRIX SPIKE SAMPLE: 1315351

Parameter	Units	60160790010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	22.5	16	35.9	84	85-115	M1

SAMPLE DUPLICATE: 1315300

Parameter	Units	60160826002 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	0.86	0.89	3	20	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 075034 San Juan 29-7 Unit 37
Pace Project No.: 60160790

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: MSV/58783

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/58789

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/58812

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

H3 Sample was received or analysis requested beyond the recognized method holding time.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

u3 Analysis initiated more than 8 hours but less than 24 hours after sample collection.

u6 Analysis initiated more than 24 hours after sample collection.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 075034 San Juan 29-7 Unit 37
Pace Project No.: 60160790

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60160790010	**GW-075034-010714-CM-MW-1**	EPA 3010	MPRP/25842	EPA 6010	ICP/19799
60160790011	**GW-075034-010714-CM-MW-2**	EPA 3010	MPRP/25842	EPA 6010	ICP/19799
60160790012	**GW-075034-010714-CM-MW-3**	EPA 3010	MPRP/25842	EPA 6010	ICP/19799
60160790013	**GW-075034-010714-CM-MW-4**	EPA 3010	MPRP/25842	EPA 6010	ICP/19799
60160790014	**GW-075034-010714-CM-MW-5**	EPA 3010	MPRP/25842	EPA 6010	ICP/19799
60160790015	**GW-075034-010714-CM-MW-6**	EPA 3010	MPRP/25842	EPA 6010	ICP/19799
60160790016	**GW-075034-010714-CM-MW-7**	EPA 3010	MPRP/25842	EPA 6010	ICP/19799
60160790017	**GW-075034-010714-CM-MW-8R**	EPA 3010	MPRP/25842	EPA 6010	ICP/19799
60160790001	**GW-075034-010714-CM-MW-1**	SM 9215B	MBIO/12425	SM 9215B	MBIO/12426
60160790002	**GW-075034-010714-CM-MW-2**	SM 9215B	MBIO/12425	SM 9215B	MBIO/12426
60160790003	**GW-075034-010714-CM-MW-3**	SM 9215B	MBIO/12425	SM 9215B	MBIO/12426
60160790004	**GW-075034-010714-CM-MW-4**	SM 9215B	MBIO/12425	SM 9215B	MBIO/12426
60160790005	**GW-075034-010714-CM-MW-5**	SM 9215B	MBIO/12425	SM 9215B	MBIO/12426
60160790006	**GW-075034-010714-CM-MW-6**	SM 9215B	MBIO/12425	SM 9215B	MBIO/12426
60160790007	**GW-075034-010714-CM-MW-7**	SM 9215B	MBIO/12425	SM 9215B	MBIO/12426
60160790008	**GW-075034-010714-CM-MW-8R**	SM 9215B	MBIO/12425	SM 9215B	MBIO/12426
60160790009	**GW-075034-010714-CM-MW-DUP**	SM 9215B	MBIO/12425	SM 9215B	MBIO/12426
60160790010	**GW-075034-010714-CM-MW-1**	EPA 8260	MSV/58783		
60160790011	**GW-075034-010714-CM-MW-2**	EPA 8260	MSV/58783		
60160790012	**GW-075034-010714-CM-MW-3**	EPA 8260	MSV/58783		
60160790013	**GW-075034-010714-CM-MW-4**	EPA 8260	MSV/58783		
60160790014	**GW-075034-010714-CM-MW-5**	EPA 8260	MSV/58783		
60160790015	**GW-075034-010714-CM-MW-6**	EPA 8260	MSV/58783		
60160790016	**GW-075034-010714-CM-MW-7**	EPA 8260	MSV/58789		
60160790017	**GW-075034-010714-CM-MW-8R**	EPA 8260	MSV/58789		
60160790017	**GW-075034-010714-CM-MW-8R**	EPA 8260	MSV/58812		
60160790018	**GW-075034-010714-CM-DUP**	EPA 8260	MSV/58789		
60160790018	**GW-075034-010714-CM-DUP**	EPA 8260	MSV/58812		
60160790019	**TB-075034-010714-CM-001**	EPA 8260	MSV/58789		
60160790020	**TB-075034-010714-CM-002**	EPA 8260	MSV/58789		
60160790010	**GW-075034-010714-CM-MW-1**	SM 2540C	WET/45607		
60160790011	**GW-075034-010714-CM-MW-2**	SM 2540C	WET/45607		
60160790012	**GW-075034-010714-CM-MW-3**	SM 2540C	WET/45607		
60160790013	**GW-075034-010714-CM-MW-4**	SM 2540C	WET/45607		
60160790014	**GW-075034-010714-CM-MW-5**	SM 2540C	WET/45607		
60160790015	**GW-075034-010714-CM-MW-6**	SM 2540C	WET/45607		
60160790016	**GW-075034-010714-CM-MW-7**	SM 2540C	WET/45607		
60160790017	**GW-075034-010714-CM-MW-8R**	SM 2540C	WET/45607		
60160790010	**GW-075034-010714-CM-MW-1**	EPA 300.0	WETA/27861		
60160790011	**GW-075034-010714-CM-MW-2**	EPA 300.0	WETA/27861		
60160790012	**GW-075034-010714-CM-MW-3**	EPA 300.0	WETA/27861		
60160790013	**GW-075034-010714-CM-MW-4**	EPA 300.0	WETA/27861		
60160790014	**GW-075034-010714-CM-MW-5**	EPA 300.0	WETA/27861		
60160790015	**GW-075034-010714-CM-MW-6**	EPA 300.0	WETA/27861		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 075034 San Juan 29-7 Unit 37
Pace Project No.: 60160790

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60160790016	**GW-075034-010714-CM-MW-7**	EPA 300.0	WETA/27861		
60160790017	**GW-075034-010714-CM-MW-8R**	EPA 300.0	WETA/27861		
60160790010	**GW-075034-010714-CM-MW-1**	EPA 353.2	WETA/27774		
60160790011	**GW-075034-010714-CM-MW-2**	EPA 353.2	WETA/27774		
60160790012	**GW-075034-010714-CM-MW-3**	EPA 353.2	WETA/27774		
60160790013	**GW-075034-010714-CM-MW-4**	EPA 353.2	WETA/27774		
60160790014	**GW-075034-010714-CM-MW-5**	EPA 353.2	WETA/27774		
60160790015	**GW-075034-010714-CM-MW-6**	EPA 353.2	WETA/27774		
60160790016	**GW-075034-010714-CM-MW-7**	EPA 353.2	WETA/27774		
60160790017	**GW-075034-010714-CM-MW-8R**	EPA 353.2	WETA/27774		

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Sample Condition Upon Receipt
ESI Tech Spec Client

WO# : 60160790

60160790

Client Name: CoP CRA NM

Optional
Proj Due Date:
Proj Name:

Courier: Fed Ex ☒ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other ☐

Tracking #: 8043 6584 7724 Pace Shipping Label Used? Yes ☐ No ☒

Custody Seal on Cooler/Box Present: Yes ☒ No ☐ Seals intact: Yes ☒ No ☐

Packing Material: Bubble Wrap ☒ Bubble Bags ☐ Foam ☒ None ☐ Other ☐

Thermometer Used: T-239 / T-194 **Type of Ice:** (Wet) Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 1.4, 1.8

Temperature should be above freezing to 6°C

Date and initials of person examining contents: JWS 1/9/14 1020

Chain of Custody present:	☑Yes ☐No ☐N/A	1.
Chain of Custody filled out:	☑Yes ☐No ☐N/A	2. All times on COC are MST
Chain of Custody relinquished:	☑Yes ☐No ☐N/A	3.
Sampler name & signature on COC:	☑Yes ☐No ☐N/A	4.
Samples arrived within holding time:	☑Yes ☐No ☐N/A	5.
Short Hold Time analyses (<72hr):	☑Yes ☐No ☐N/A	6. NO_2NO_3
Rush Turn Around Time requested:	☐Yes ☑No ☐N/A	7.
Sufficient volume:	☑Yes ☐No ☐N/A	8.
Correct containers used:	☑Yes ☐No ☐N/A	
Pace containers used:	☑Yes ☐No ☐N/A	9.
Containers intact:	☑Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☑N/A	11.
Filtered volume received for dissolved tests?	☑Yes ☐No ☑N/A	12.
Sample labels match COC:	☑Yes ☐No ☐N/A	
Includes date/time/ID/analyses Matrix: water		13.
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	14.
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☑Yes ☐No	Initial when completed JWS / Lot # of added preservative
Trip Blank present:	☑Yes ☐No ☐N/A	
Pace Trip Blank lot # (if purchased): 111303		15.
Headspace in VOA vials (>6mm):	☐Yes ☑No ☐N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☑N/A	17. List State:

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

Temp Log: Record start and finish times when unpacking cooler. if >20 min, recheck sample temps.	
Start: 1010	Start:
End: 1020	End:
Temp:	Temp:

Project Manager Review: AMT Date: 1/9/14

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Sample Condition Upon Receipt

60160790

Client Name: COP CRA NM

Optional
Proj Due Date:
Proj Name:

Courier: Fed Ex ☒ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other ☐

Tracking #: _____ Pace Shipping Label Used? Yes ☐ No ☑

Custody Seal on Cooler/Box Present: Yes ☒ No ☐ Seals intact: Yes ☒ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☐ Foam ☐ None ☑ Other ☐

Thermometer Used: T111

Type of Ice: (Wet) Blue None (circle one) ☐ Samples received on ice, cooling process has begun.

Cooler Temperature: 1.6

Temperature should be above freezing to 6°C

Date and initials of person examining contents: 1/8/19 1245 MG

Chain of Custody present:	☒Yes ☐No ☐N/A	1.
Chain of Custody filled out:	☒Yes ☐No ☐N/A	2.
Chain of Custody relinquished:	☒Yes ☐No ☐N/A	3.
Sampler name & signature on COC:	☒Yes ☐No ☐N/A	4.
Samples arrived within holding time:	☐Yes ☒No ☐N/A	5. >6hr. Times are in Mountain, logged in as central Time.
Short Hold Time analyses (<72hr):	☒Yes ☐No ☐N/A	6.
Rush Turn Around Time requested:	☒Yes ☐No ☐N/A	7.
Sufficient volume:	☒Yes ☐No ☐N/A	8.
Correct containers used:	☒Yes ☐No ☐N/A	
Pace containers used:	☒Yes ☐No ☐N/A	9.
Containers intact:	☒Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☒No ☐N/A	11.
Filtered volume received for dissolved tests?	☐Yes ☒No ☐N/A	12.
Sample labels match COC:	☒Yes ☐No ☐N/A	
Includes date/time/ID/analyses Matrix: WT		13.
All containers needing preservation have been checked.	☐Yes ☐No ☒N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☒N/A	14.
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☒Yes ☐No	Initial when completed / Lot # of added preservative
Trip Blank present:	☐Yes ☐No ☒N/A	
Pace Trip Blank lot # (if purchased): _____		15.
Headspace in VOA vials (>6mm):	☐Yes ☐No ☒N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☒N/A	17. List State:

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information:

Company:	COP CRA NM
Address:	6121 Indian School Rd NE, Ste 200
	Albequerque, NM 87110
Email To:	cmathews@craworld.com
Phone: (505)884-0672	Fax: (505)884-4932
Requested Due Date/TAT:	standard

Section B Required Project Information:

Report To:	Christine Mathews
Copy To:	Jeff Walker, Angela Bown
Purchase Order No.:	4517653460
Project Name:	San Juan 29-7 Unit 37
Project Number:	075034-95

Section C Invoice Information:

Attention:	ePayables
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Alice Flanagan
Pace Profile #:	5514, 24

REGULATORY AGENCY

☐ NPDES ☒ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NM

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COLLECTED: COMPOSITE START TIME	COLLECTED: COMPOSITE END/GRAB DATE	COLLECTED: COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	8260 BTEX	6010 Dissld Mn and Se	353.2 Nitrate	300.0 Sulfate	2540 TDS	9215B HPC	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	GW-075034-010714-CM-MW-1	WT	G			1-7-14	1250		7	2		1	3				1		X	X	X	X	X	X		60160790
2	GW-075034-010714-CM-MW-2	WT	G			1-7-14	1220		7	2		1	3				1		X	X	X	X	X	X		1SP5T -001
3	GW-075034-010714-CM-MW-3	WT	G			1-7-14	1150		7	2		1	3				1		X	X	X	X	X	X		-002
4	GW-075034-010714-CM-MW-4	WT	G			1-7-14	1320		7	2		1	3				1		X	X	X	X	X	X		-003
5	GW-075034-010714-CM-MW-5	WT	G			1-7-14	1100		7	2		1	3				1		X	X	X	X	X	X		-004
6	GW-075034-010714-CM-MW-6	WT	G			1-7-14	1120		7	2		1	3				1		X	X	X	X	X	X		-005
7	GW-075034-010714-CM-MW-7	WT	G			1-7-14	1025		7	2		1	3				1		X	X	X	X	X	X		-006
8	GW-075034-010714-CM-MW-8R	WT	G			1-7-14	1135		7	2		1	3				1		X	X	X	X	X	X		-007
9	GW-075034-010714-CM-DUP	WT	G			1-7-14	1140		3	2			3						X	X	X	X	X	X	NO	-008
10	GW-075034-010714-CM-DUP	WT	G			1-7-14	1200		1								1							X		1SP5T -009
11	TB-075034-010714-CM-001	WT				1-7-14	1500		3				3						X							
12	TB-075034-010714-CM-002	WT				1-7-14	1510		3				3						X							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
* All samples were collected Mountain time. -Item#9 BTEX ONLY	Christine Mathews	1-7-14	1530	Pace	1/8/14	1245	1.6	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Christine Mathews

SIGNATURE of SAMPLER: Christine Mathews DATE Signed (MM/DD/YY): 1/7/14

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	COP CRA NM	Report To:	Christine Mathews	Attention:	ePayables
Address:	6121 Indian School Rd NE, Ste 200	Copy To:	Jeff Walker, Angela Bown	Company Name:	
	Albequerque, NM 87110			Address:	
Email To:	cmathews@craworld.com	Purchase Order No.:	4517653460	Pace Quote Reference:	
Phone: (505)884-0672	Fax: (505)884-4932	Project Name:	San Juan 29-7 Unit 37	Pace Project Manager:	Alice Flanagan
Requested Due Date/TAT:	standard	Project Number:	075034-95	Pace Profile #:	5514, 24

REGULATORY AGENCY

- NPDES
- X GROUND WATER
- DRINKING WATER
- UST
- RCRA
- OTHER

Site Location STATE: NM

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Valid Matrix Codes MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test	8260 BTEX	6010 Disslvd Mn and Se	353.2 Nitrate	300.0 Sulfate	2540 TDS	9215B HPC	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	GW-075034-010714-CM-MW-1	WT	G			1.7.14	1250		7	2		1	3				1		X	X	X	X	X	X	1(BP3Z)	3(DG9H) 2(BP3N) 010
2	GW-075034-010714-CM-MW-2	WT	G			1.7.14	1220		7	2		1	3				1		X	X	X	X	X	X		011
3	GW-075034-010714-CM-MW-3	WT	G			1.7.14	1150		7	2		1	3				1		X	X	X	X	X	X		012
4	GW-075034-010714-CM-MW-4	WT	G			1.7.14	1320		7	2		1	3				1		X	X	X	X	X	X		013
5	GW-075034-010714-CM-MW-5	WT	G			1.7.14	1100		7	2		1	3				1		X	X	X	X	X	X		014
6	GW-075034-010714-CM-MW-6	WT	G			1.7.14	1120		7	2		1	3				1		X	X	X	X	X	X		015
7	GW-075034-010714-CM-MW-7	WT	G			1.7.14	1025		7	2		1	3				1		X	X	X	X	X	X		016
8	GW-075034-010714-CM-MW-8R	WT	G			1.7.14	1135		7	2		1	3				1		X	X	X	X	X	X		017
9	GW-075034-010714-CM-DUP	WT	G			1.7.14	1140		3	0			3						X	X	X	X	X	NO		3(DG9H) 018
10	GW-075034-010714-CM-DUP	WT	G			1.7.14	1200		1								1							X		
11	TB-075034-010714-CM-001	WT				1.7.14	1500		3				3						X							3(DG9H) 019
12	TB-075034-010714-CM-002	WT				1.7.14	1510		3				3						X							020

Pace Project No.: 60160790

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
* All samples were collected Mountain time. - Item #9 BTEX ONLY	[signature]	1-7-14	1530	[signature] / Pace	1/9/14	930	1.4	Y	Y	Y
							1.8	Y	Y	Y
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Christine Mathews

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 1/7/14

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.