1292002

Rico Surface Water Sampling
Supplemental Surface Water Quality Monitoring
Rico, Colorado
Data Summary Report

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Table of Contents

1.0 Introduction 3
2.0 Field Sampling 3
2.1 Sampling Frequency 3
2.2 Water Quality and Flow Measurement Sampling Locations 3
2.3 Sampling Station Conditions and Desctiptions 5
2.4 Simultaneous Operations 6
3.0 Sampling and Analysis Parameters and Methods 6
4.0 Flow Measurement Methods 9
5.0 Analytical Results 10
6.0 Quality Control 10
6.1 Field QC 10
6.2 Laboratory QC 11

List of Figures

Figure 1 Northern St. Louis Ponds Sampling Locations
Figure 2 Southern St. Louis Ponds Sampling Locations
Figure 3 Sampling Locations South of Rico
Figure 4 Dolores River Cross Section at Sampling Station DR-1
Figure 5 Dolores River Cross Section at Sampling Station DR-2
Figure 6 Pond 8 Embankment Cross Section at Sampling Station DR-5
Figure 7 Dolores River Cross Section at Sampling Station DR-7
Figure 8 Dolores River Cross Section at Sampling Station DR-4-SW
Figure 9 Dolores River Cross Section at Sampling Station DR-G

List of Tables

Table 1 Sampling Location Descriptions
Table 2 Analytical Procedures Summary
Table 3A Surface Water Location Sampling Field Data and Station Information Summary, September 2013
Table 3B Groundwater Well Sampling Field Data and Station Information Summary, September 2013
Table 3C Quality Control Samples Field Data and Station Information Summary, September 2013
Table 3D DR-1 Cross Section Composite Sampling Field Data and Flow Information Summary, September 2013
Table 3E DR-2 Cross Section Composite Sampling Field Data and Flow Information Summary, September 2013
Table 3F DR-7 Cross Section Composite Sampling Field Data and Flow Information Summary, September 2013
Table 3G DR-4-SW Cross Section Composite Sampling Field Data and Flow Information Summary, September 2013
Table 4A Surface Water Sampling Analytical Sampling Results Summary, September 2013
Table 4B Groundwater Analytical Sampling Results Summary, September 2013
Table 4C Quality Control Samples Analytical Sampling Results Summary, September 2013
Table 4D Dolores River Composite Sampling Analytical Sampling Results Summary, September 2013
Table 5A Relative Percent Difference (RPD) of Lab Analysis between DR-G and Duplicate Sample DR-8
Table 5B Relative Percent Difference (RPD) of Lab Analysis between DR-3 and Duplicate Sample DR-9

Table 5C Relative Percent Difference (RPD) of Lab Analysis between MW-103 and Duplicate Sample DR-10
Table 5D Relative Percent Difference (RPD) of Lab Analysis between DR-G and Duplicate Sample DR-11
Table 5E Relative Percent Difference (RPD) of Lab Analysis between DR-1 and Duplicate Sample DR-12

List of Appendices

Appendix A Sampling Location Maps
Appendix B Data Tables
Appendix C Project Narrative and Laboratory Analytical Reports
Appendix D Laboratory QC Results
Appendix E Flow Cross Sections
Appendix F Chain of Custody Records
Appendix G Field Photos
Appendix H Field Log Book Records
Appendix I North Flume OTT PLS Transducer Data with Flowrates
Appendix J North Flume Ultrasonic Sensor Data with Flowrates
Appendix K South Flume OTT Orpheus Mini Data with Flowrates
Appendix L Technical Standard Operating Procedure – Collection of Cross Channel Surface Water Samples
Appendix M EPA Guidelines on Surface Flow River Measurement

1.0 Introduction

In accordance with the Rico Sampling and Analysis Plan for Supplemental Surface and Groundwater Quality Monitoring at Rico, CO prepared by AECOM, dated November 2010, the surface and groundwater sampling event was completed on September 11th – 30th 2013. Sampling was completed by Anderson Engineering Co. Inc., by technicians who are familiar with the Rico sites and the BP Control of Work Management System. Surface and groundwater samples were collected from prescribed locations within the St. Louis settling pond system and at the system discharge (DR-6) to the Dolores River (collectively referred to as the St. Louis pond system), and previously sampled locations along the Dolores River above, at and below the St. Louis pond system. Figures 1, 2, and 3 in Appendix A illustrate the locations of the various points sampled this month. Sample results have been summarized and laboratory analytical results are attached with quality control documentation.

2.0 Field Sampling

2.1 Sampling Frequency

The sampling period represented by this sampling event is for the month of September of 2013. Sampling will be performed on a monthly basis through at least the end of 2013.

2.2 Water Quality and Flow Measurement Sampling Locations

Surface water and groundwater samples were collected from the locations described on Table 1 and shown on Figures 1, 2, and 3 in Appendix A. In the fall of 2011, twelve (12) new monitoring wells were drilled in the vicinity of the recently constructed interim drying facility. Beginning November 2011, those wells were sampled and will continue to be sampled monthly along with the other sampling locations mentioned. In the fall of 2012, eight (8) new monitoring wells were drilled throughout the St. Louis Ponds site. Beginning November 2012, those wells were sampled and will continue to be sampled monthly along with the other sampling locations mentioned. Additionally, eight (8) historic groundwater wells are sampled on a monthly basis. Two angle boreholes (AT-2 and BAH-01) are sampled monthly as well.

The Dolores River was sampled above the St. Louis pond system, and below the adit outfalls downstream of the reclaimed Silver Swan Mine area. The river was also sampled at the USGS gaging station downstream of the Silver Swan site.

TABLE 1 - Sample Location Descriptions

SITE ID	SITE LOCATION / DESCRIPTION
Surface Water Locations	
DR-1	Cross-section on the Dolores River approximately 1000 feet North of Pond 18.
DR-2	Cross-section on the Dolores River approximately 150 feet North of the system outfall.
DR-3	St. Louis Tunnel discharge at adit entrance. Sampling location is at the parshll flume located approximately 50 ft west of the cinder block

	structure at the former adit entrance.
DR-4	Discharge of Pond 15. The sampling location is at the outlet of the upper discharge pipe located on the midpoint of the Pond 15 south embankment.
DR-5	Discharge of Pond 8. The sampling location is at the inlet of the discharge spillway located at the southwest corner of Pond 8.
DR-6	St. Louis settling ponds system outfall to the Dolores River (previous permit Outfall 002). Sample location is at installed 9" parshall flume.
DR-7	Dolores River below St. Louis settling ponds system outfall. Sampling/flow measurement location is located just off the entrance road to the St. Louis ponds site where the Dolores River is adjacent to the entrance road. The site is located approximately 75 feet downstream of a large bend in the river that first brings the Dolores adjacent to the entrance road.
DR-4-SW	Dolores River below Silver Swan. Sampling/flow measurement location is on the Dolores River below the Silver Swan site just downstream of a bend in the river and below a cemetery on the east bank.
DR-G	Located approximately 3.5 miles downstream of the Silver Swan site, at the USGS gauging station #09165000 immediately downstream of the bridge at this location.
Groundwater Locations	
GW-1	Well is located on the north end of the site, approximately 1000 feet north of the northern edge of Pond 18 and about 75 feet northeast of DR-1
GW-3	Located approximately 200 feet north of the northern edge of pond 18, and approximately 60 feet west of the main access road.
GW-4	Located on the western flood dike of Pond 18, approximately midway along the dike.
GW-5	Located on the northern edge of the former Pond 17 area, or on the northern dike of the newly constructed drying cell 1.
GW-6	Located on the middle of the former Pond 17 area, or on the western edge of the south dike of the newly constructed drying cell 1.
GW-7	Located on the eastern edge of the access road directly across from the former Pond 17, or directly across from the newly constructed drying cell 2.
EB-1	Located on the northern edge of the former Pond 17 area, or on the northern dike of the newly constructed drying cell 1. It is within ten feet of GW-5.
EB-2	Located on the southern portion of the former Pond 16 area, or on the western edge of the south dike of the newly constructed drying cell 3.
MW-1 Shallow MW-1 Deep	Both wells are located about 4 feet apart on the western embankment of Pond 13 at the division between Pond 11 and Pond 12.
MW-2 Shallow MW-2 Deep	Both wells are located about 4 feet apart on the western flood embankment of Pond 12, about mid-way along the pond.
MW-3 Shallow MW-3 Deep	Both wells are located about 4 feet apart on the western flood embankment of Pond 15, on the southern half of the embankment.
MW-4 Shallow MW-4 Deep	Both wells are located about 4 feet apart on the southern embankment of Pond 13, approximately 60 west of the main east access road.

MW-5 Shallow MW-5 Deep	Both wells are located about 4 feet apart on the western dike of drying cell 3 (refer to Figure 2).
MW-6 Shallow MW-6 Deep	Both wells are located about 4 feet apart on northern embankment of Pond 13, approximately 75 feet west of the main east access road
MW-101	Well is located approximately 200 feet south of the lime plant building in the large open clearing within the St. Louis Road loop.
MW-102	Well is located approximately 150 feet southeast of well GW-7 at the point that the access road splits in two directions.
MW-103	Well is located at the southwest corner of Pond 7 on the flood control dike adjacent to the Dolores River.
MW-104	Well is located approximately midway along the west flood control dike of Pond 9.
MW-202	Well is located approximately 25 feet southeast of the cinder block structure at the former adit entrance.
MW-204	Well is located approximately 200 feet east of the cinder block structure at the former adit entrance, adjacent to the collapsed tunnel.
P13-102	Well is located at approximately the southeast end of the newly constructed dike at the southwest corner of Pond 13.
P13-103	Well is located approximately midway along the newly constructed dike at the south corner of Pond 13.
CHV-101S	Well is located approximately 125 feet east of the cinder block structure at the former adit entrance, adjacent to the collapsed tunnel. Sampling by bailer.
AT-2	Angle borehole casing is located approximately 220 feet east of the cinder block structure at the former adit entrance, adjacent to the collapsed tunnel.
BAH-01	Angle borehole casing which accesses the mine tunnel from the south.

2.3 Sampling Station Conditions and Descriptions

The sampling requirements and stations are described in detail below, as well as the conditions at each station for this sampling period. Samples collected were collected per protocols identified in the Sampling and Analysis Plan (SAP). Flow measurements were collected per protocols identified in the SAP.

DR-1. Sampling location partially accessible. Grab sample collected from east bank of river. Composite sample could not be collected due to high, fast flows. Flow measurements were estimated by flotation method.

DR-2. Sampling location fully accessible. Grab sample collected from east bank of river and composite sample collected from stream cross section. Flow measurements were collected by flowmeter.

DR-3. Flow measurement collected monthly by an installed 9” flume and water level measurement devices at the sampling location. Manual measurement collected on 9/11/13 at 3:35 PM.

DR-4. Sample location fully accessible. Sample collected from upper drain pipe inlet in Pond 15. Flow in lower pipe was blocked off for dredging activities in Ponds 11 and 12. Upper pipe carrying full flow. Flow may be lower than expected due to some small leaks present at the joint of the existing pipe and the new 12 inch reducer fitting.

DR-5. Sampling location fully accessible. Sample collected at spillway. Flow measurements collected by flowmeter at spillway. Due to the shallow water and multiple paths, accurate flow measurements could not be determined for this sampling location and period. Flows estimated based on water balance between manual measurements at flumes at DR-3 and DR-6.

DR-6. Flow measurement by an installed 9" flume and water level measurement devices at the sampling location. Manual measurement collected on 9-27-13 at 11:21 AM.

DR-7. Sampling location fully accessible. Grab sample collected from east bank of river and composite sample collected from stream cross section. Flow measurements were collected by flowmeter.

DR-4-SW. Sampling location fully accessible. Grab sample collected from east bank of river and composite sample collected from stream cross section. Flow measurements were collected by flowmeter.

DR-G. Sampling location fully accessible. Grab sample collected from east bank of river and composite sample collected from stream cross section. Flow measurements were collected by flowmeter.

Monitoring Wells. All monitoring wells were sampled by use of a bailer, and field measurements were taken at the time of sampling, per protocols identified in the SAP. Depth measurements were also taken at this time. For the September 2013 sampling period, MW-2 Shallow, MW-3 Shallow, and MW-202 were dry. MW-204 could not be sampled due to shifting in subgrade soils causing the pipe to break at approximately 3.5' below ground surface, not allowing a bailer to be lowered down the well. Plans are being created to address the issue to allow sampling in the future.

2.4 Simultaneous Operations

During the month of September 2013, other projects were occurring simultaneously at the St. Louis Ponds site.

- Operation of the pilot scale wetland test was occurring during the sampling period. Effects on the water from this operation are little to none.
- Dredging began in Ponds 11 and 12. Flows were re-routed through a newly installed piping system to bypass Pond 14 during part of the month. Flows into Pond 14 from Pond 15 were routed through a single 12" HDPE pipe. The lower of the two pipes has been blocked off, while the upper pipe is carrying the full flow.

3.0 Sampling and Analysis Parameters and Methods

All samples were collected as grab or composite samples. Samples were collected from well-mixed locations, which are representative of conditions within the flow stream. Groundwater samples are purged according to protocols identified in the SAP. Lab-certified plastic bottles were used to collect sample water for analyses. Clean hands, dirty hands procedures were followed throughout the sampling. For quality control purposes, one duplicate sample was collected for every 10 samples collected and two field blanks were included with the water samples being submitted to the laboratory for analysis. Composite

river samples are collected in accordance with the technical standard operating procedure found in Appendix L.

Lab-certified plastic bottles were used to collect all water samples. Sample water was first collected in clean plastic jugs and field parameters were measured at the time of sample collection. Sample water was then placed in the sampling bottles soon thereafter per protocols identified in the SAP. The following sample bottles were used for collection and analysis (all samples collected without filtration unless otherwise indicated):

- One (1) 500mL HDPE bottle, unpreserved, for alkalinity, Total Dissolved Solids (TDS), Total Suspended Solids (TSS), chloride and sulfate analysis
- One (1) 250mL HDPE bottle, unpreserved, for salinity analysis
- One (1) 250mL HDPE bottle, preserved with HNO_3, for total metals, silica, and water hardness analysis
- One (1) 250mL HDPE bottle, preserved with HNO_3, for dissolved metals analysis. This sample is filtered in the field through a 0.45µm filter.
- One (1) 250mL HDPE bottle, preserved with HNO_3, for potentially dissolved metals analysis
- One (1) 250 mL HDPE bottle, preserved with NaOH and Zn Acetate, for sulfide analysis.
- One (1) 250 mL HDPE bottle, preserved with NaOH, for cyanide analysis
- One (1) 250 mL amber glass bottle, preserved with H_2SO_4, for Total Organic Carbon (TOC) and nitrate analysis

Field parameters were measured at the time of sample collection. Field measurement data for pH, temperature, electrical conductivity, dissolved oxygen, and Oxydation-Reduction Potential were recorded using a Hanna Instruments HI 9828 Multiparameter Meter and ExTech ExStik EC500 meter (for recording pH, electrical conductivity, and temperature of groundwater well purge water), and results were logged in the field log book. Results of field measurements for all samples collected on site can be found in Tables 3A – 3G in Appendix B. Weather parameters including temperature and precipitation were obtained and documented in the Daily Toolbox Meeting Record.

All sample bottles were labeled to identify sample number, date and time of collection, type of analysis, and appropriate preservative. In addition, sample analysis/chain of custody forms were completed and processed at the time of sample collection. Original chain of custody forms are signed, dated, and placed in the sample container prior to sealing the container for shipment.

Water samples were kept in cooled containers and sent to the analytical laboratory. Samples were submitted to Pace Analytical Laboratories in Lenexa, Kansas for analysis by analytical procedures listed on Table 2. Analysis was performed according to methods specified in 40 CFR, Part 136 or other methods approved by the EPA. Laboratory methods and reporting limits for all parameters are presented in Table 2. Laboratory results and supporting documentation including quality assurance results are contained in the Appendix C and Appendix D of this report. Results are summarized in Tables 4A – 4D in Appendix B of this report.

TABLE 2 - Analytical Procedures Summary

PARAMETER	DETECTION LIMIT (MDL)	REPORTING LIMIT (RL)	METHOD
FIELD PARAMETERS			
Dissolved Oxygen (ppm)	+/- 1.5% of reading	+/- 1.5% of reading	SM 4500-OG
Electrical Conductivity (mS/cm)	+/- 1% of reading	+/- 1% of reading	EPA 120.1
Temperature (°C)	+/- 0.15° C	+/- 0.15° C	Standard Method 2550
ORP (Oxidation Reduction Potential, mV)	+/- 1.0 mV	+/- 1.0 mV	Ag/AgCl Probe
pH (Standard pH Units)	+/- 0.02 pH	+/- 0.02 pH	EPA 150.2
NON-METALS			
Alkalinity (mg/L as $CaCO_3$)	20 mg/L	20 mg/L	SM 2320B
Chloride (mg/L)	1.0 mg/L	1.0 mg/L	EPA 300.0
Cyanide (μg/L as CN)	0.0021 mg/L	0.005 mg/L	SM 4500-CN-E
Hardness (mg/L as $CaCO_3$)	0.036 mg/L	0.071 mg/L	SM 2340B
Nitrogen, NO2 plus NO3 (mg/L)	0.022 mg/L	0.1 mg/L	EPA 353.2
Salinity (mg/L as dissolved solids)	6 mg/L	6 mg/L	SM 2510B (calculated)
Silica	0.027 mg/L	0.054 mg/L	EPA 200.8
Sulfate (mg/L as SO4)	0.15 mg/L	1.0 mg/L	EPA 300.0
Sulfides (mg/L)	0.018 mg/L	0.05 mg/L	4500-S-2 D
Total Dissolved Solids (mg/L as TDS)	5.0 mg/L	5.0 mg/L	SM 2540C
Total Organic Carbon (mg/L)	0.072 mg/L	0.5 mg/L	SM 5310C
Total Suspended Solids (mg/L as TSS)	5.0 mg/L	5.0 mg/L	SM 2540D
TOTAL, DISSOLVED, AND POTENTIALLY DISSOLVED METALS*			
Aluminum (μg/L as Al)	2.00 μg/L, 6.35 μg/L	4 μg/L, 50 μg/L	EPA 200.8, EPA 200.8
Antimony (μg/L as Sb)	0.100 μg/L, 0.03 μg/L	0.5 μg/L, 1 μg/L	EPA 200.8, EPA 200.8
Arsenic (μg/L as As)	0.138 μg/L, 0.05 μg/L	0.5 μg/L, 1 μg/L	EPA 200.8, EPA 200.8
Barium (μg/L as Ba)	0.150 μg/L, 0.08 μg/L	0.3 μg/L, 1 μg/L	EPA 200.8, EPA 200.8
Beryllium (μg/L as Be)	0.092 μg/L, 0.05 μg/L	0.2 μg/L, 0.5 μg/L	EPA 200.8, EPA 200.8
Cadmium (μg/L as Cd)	0.028 μg/L, 0.05 μg/L	0.08 μg/L, 0.5 μg/L	EPA 200.8, EPA 200.8
Calcium (μg/L as Ca)	10.000 μg/L, 10.35 μg/L	20 μg/L, 100 μg/L	EPA 200.8, EPA 200.7
Chromium (ug/l as Cr)	0.094 μg/L, 0.07 μg/L	0.5 μg/L, 1 μg/L	EPA 200.8, EPA 200.8
Cobalt (ug/l as Co)	0.250 μg/L, 0.08 μg/L	0.5 μg/L, 1 μg/L	EPA 200.8, EPA 200.8
Copper (μg/L as Cu)	0.184 μg/L, 0.12 μg/L	0.5 μg/L, 1 μg/L	EPA 200.8, EPA 200.8
Iron (μg/L as Fe)	10.00 μg/L, 2.95 μg/L	50 μg/L, 50 μg/L	EPA 200.8, EPA 200.8
Lead (μg/L as Pb)	0.018 μg/L, 0.03 μg/L	0.1 μg/L, 1 μg/L	EPA 200.8, EPA 200.8
Magnesium (μg/L as Mg)	2.31 μg/L, 6.48 μg/L	5 μg/L, 50 μg/L	EPA 200.8, EPA 200.7
Manganese (μg/L as Mn)	0.250 μg/L, 0.14 μg/L	0.5 μg/L, 1 μg/L	EPA 200.8, EPA 200.8
Mercury (μg/L as Hg)	0.1 μg/L, 0.053 μg/L	0.2 μg/L, 1 μg/L	EPA 245.1, EPA 245.1
Molybdenum (μg/L as Mo)	0.069 μg/L, 0.12 μg/L	0.5 μg/L, 1 μg/L	EPA 200.8, EPA 200.8
Nickel (μg/L as Ni)	0.151 μg/L, 0.07 μg/L	0.5 μg/L, 1 μg/L	EPA 200.8, EPA 200.8
Potassium (μg/L as K)	5.24 μg/L, 44.38 μg/L	20 μg/L, 500 μg/L	EPA 200.8, EPA 200.7
Selenium (ug/l as Se)	0.094 μg/L, 0.14 μg/L	0.5 μg/L, 1 μg/L	EPA 200.8, EPA 200.8
Silver (ug/L as Ag)	0.040 μg/L, 0.01 μg/L	0.5 μg/L, 0.5 μg/L	EPA 200.8, EPA 200.8
Sodium (μg/L as Na)	10.40 μg/L, 21.68 μg/L	50 μg/L, 500 μg/L	EPA 200.8, EPA 200.7
Thallium (μg/L as Tl)	0.019 μg/L, 0.02 μg/L	0.1 μg/L, 1 μg/L	EPA 200.8, EPA 200.8
Vanadium (μg/L as V)	0.037 μg/L, 0.11 μg/L	0.1 μg/L, 1 μg/L	EPA 200.8, EPA 200.8
Zinc (μg/L as Zn)	1.00 μg/L, 1.04 μg/L	5 μg/L, 10 μg/L	EPA 200.8, EPA 200.8

*Limits and methods for metals displayed in following format: Total and Dissolved Metals, Potentially Dissolved Metals

4.0 Flow Measurement Methods

Flow velocity measurements were taken at the river sampling locations where accessible. Flow measurements were not collected at areas where ice and snow buildup or high, fast flows prohibited safe access. The flow measurements obtained this sampling period are described in Section 2.3. Flow measurements were collected at DR-2, DR-3, DR-4, DR-5, DR-6, DR-7, DR-4-SW, and DR-G. Flow measurements could not be collected at DR-1 due to high, fast flows preventing safe access. Refer to Figures 4 through 9 in Appendix E for Dolores River cross sections. The flowrates are presented on Tables 3A, 3D, 3E, 3F, and 3G in Appendix B.

Flow velocity readings and flowrate calculations were performed in accordance with AECI Standard Operating Procedures 3-4: Stream Flow Measurements and 3-6: Stream Flow Measurements with Portable Flowmeter. Flow velocity measurements collected during this sampling event were taken by use of a Hach FH950 Portable Velocity Meter at stations DR-2, DR-5, DR-7, DR-4-SW, and DR-G using the six-tenths-depth method. This method uses the velocity at six-tenths of the depth as the mean velocity. This method is generally reliable between depths from 0.3 feet to 2.5 feet. Stream sections were selected with the desired characteristics of parallel flows, smooth streambed with minimal obstructions, a straight channel, and a flat streambed. The stream section, perpendicular to the flow was measured in feet. The width of the section was determined and divided into several sub-sections. Flow measurements of velocity (by the six-tenths-depth method) and water depth were measured at each sub-section. The flow meter was set to the 5 second fixed period average mode. Flows were calculated for each stream section using the water depth, horizontal distance, and averaged velocity data.

During high-flow periods, sampling technicians will not be permitted to enter the Dolores River cross-sections where flow velocity exceeds 7 feet per second, or where river depth and velocity make it too difficult for a sampling technician to stand. Such conditions occurred during this sampling period at cross section DR-1. River velocities were estimated by the flotation method. This method involves measuring off a 20-foot section of ground along the bank parallel to the flow of the river. The river is then divided up into the equal section along the cross section running from the west bank to the east bank. An object is released in the river upstream of the start of the 20-foot measured interval, as close to the center of the subsection as possible. Due to high flows, an object can be carefully tossed from a safe location on the bank of the river, upstream of the start of the 20-foot interval. Once the object reaches the start of the 20-foot interval, a stopwatch is used to record the time required for the object to float on the surface of the river for the 20-foot length. The same procedure is repeated for each subsection. A minimum of three trials for the entire cross section are conducted and recorded in the field log book. An average time is taken of the three trials and divided by 20 feet in order to obtain the average surface velocity in the center of the flow stream. This velocity is then multiplied by a factor of 0.8 (see Appendix M) in order to obtain an average vertical velocity for the stream subsection. Flow is calculated for each subsection by multiplying by this average velocity by an area calculated from previous river bed geometry surveys and current river stage readings.

The St. Louis tunnel flow (DR-3) and St. Louis pond discharge (DR-6) currently have Parshall flumes installed. Flow measurements can be determined at these flumes when the depth of flow is known at a particular point. In order to continuously monitor and measure the depth of flow, depth measurement devices were installed on May 11th, 2011 and May 12th, 2011 at both the north and south flumes. An STI Ultrasonic IRU-5180 automated water level detector was installed at the north Parshall flume. In order to obtain further flow data, an OTT PLS submersible pressure transducer was installed at the north flume in December 2011. In January 2012, it was decided that the OTT PLS would be used exclusively at the north flume to report flow data, and that the ultrasonic meter would remain only as a backup flow measurement system. This was due in large part to the stability and uniformity observed in the data from the OTT PLS, as opposed to the ultrasonic meter, which exhibited greater instability and variability in the readings that the OTT PLS. The south flume has a submersible pressure transducer called the OTT Orpheus Mini. It records deviations from a pre-programmed depth of air space from the top edge of the flume down to the water level. Knowing then the total depth of the flume, the depth of flow can be determined. The post processed data for the OTT PLS, the STI Ultrasonic IRU-5180, and the OTT Orpheus Mini are given in Appendix I, J, and K, respectively.

5.0 Analytical Results

The results of the laboratory analysis are summarized on Tables 4A – 4D in Appendix B. The data is organized by sample location. The Pace Lab reports for all results are contained in Appendix C.

MW-4 DEEP was sampled twice this month due to an error on the chain of custody. The sample was collected on 9/11/13, and sent to the lab as planned. However, it was mistakenly included on the COC for the samples collected on 9/12/13 as well, though it was not shipped with those samples. The lab reported it as missing, and so it was resampled on 9/27/13, even though it was not missing and was still analyzed. The results from the 9/27/13 sample are reported in this report.

6.0 Quality Control

In addition to the standard laboratory Quality Control (QC), field QC samples for this sampling event included one field duplicate for every 10 samples collected and two Field Blanks (FB).

6.1 Field QC

A field duplicate water sample was obtained for every 10 samples collected. Field duplicate samples are assigned the Sample IDs DR-8, DR-9, DR-10, DR-11, and so forth for as many samples as are collected. During the September 2013 sampling period these duplicate samples were collected at stations DR-G (DR-8), DR-3 (DR-9), MW-103 (DR-10), DR-6 (DR-11), and DR-1 (DR-12). During sample collection, the duplicate sample bottles were filled simultaneously from the discharge stream or source of water. The duplicate sample was submitted to the analytical laboratory as “blind duplicate” samples.

Tables 5A – 5E in Appendix B compare the analytical results for all parameters from all duplicate sample collected and present the Relative Percent Difference (RPD). The RPD for aqueous samples should be +/- 20%.

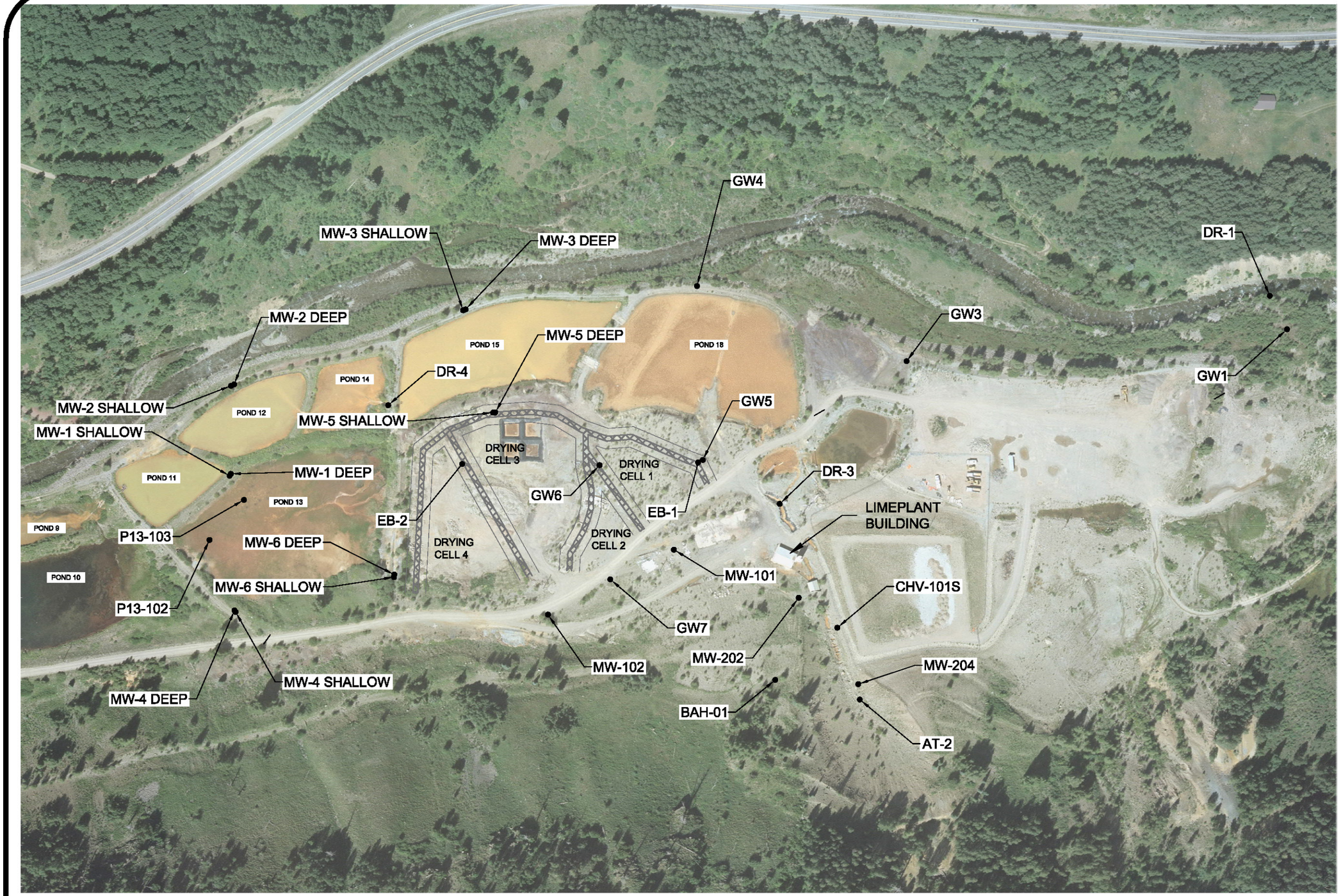
Two Field Blanks (FB) were collected by processing and analyzing a bottle of distilled water in the field and in the lab in the same manner as any other sample. The FB-LAB and FB-FIELD were analyzed for the same constituents as the other samples. Both had concentrations below the reporting limit for all metals except for a small number of total, dissolved, and potentially dissolved metals.

6.2 Laboratory QC

The laboratory control sample (LCS), method blank, matrix spike, and matrix spike duplicate sample results were all within the established limits of concentration, percent recovery, and relative percent difference, with several minor exceptions. Please refer to the Laboratory QC Results in Appendix D for exceptions and for a full QC report.

Appendix A

Sampling Location Maps



1 NORTHERN ST. LOUIS PONDS SAMPLING LOCATIONS

SCALE - 1" = 200'

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General Notes

N

SCALE IN FEET
0 100 200

No.	Revision/Issue	Date

BP

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RICO WATER SAMPLING

NORTHERN ST. LOUIS PONDS SAMPLING LOCATIONS

RICO, COLORADO

DRAWN BY:	MAD
ENGINEER:	MAD
APPROVED:	MAD

Project	Sheet
Date 30-Jul-13	1
Scale 1" = 200'	

G:\Users\LEXS-BEV\Documents\RICO\Rico Water Sampling\Monthly Sampling Data\May 2013\Appendices\Appendix A - Sampling Location Maps\Rev 2013 sampling locations map.dwg

2 **SOUTHERN ST. LOUIS PONDS SAMPLING LOCATIONS**

SCALE - 1" = 200'

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General Notes

SCALE IN FEET
0 100 200

No.	Revision/Issue	Date

BP

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SALT LAKE CITY, UTAH 84119
(801) 972-6222

RICO WATER SAMPLING

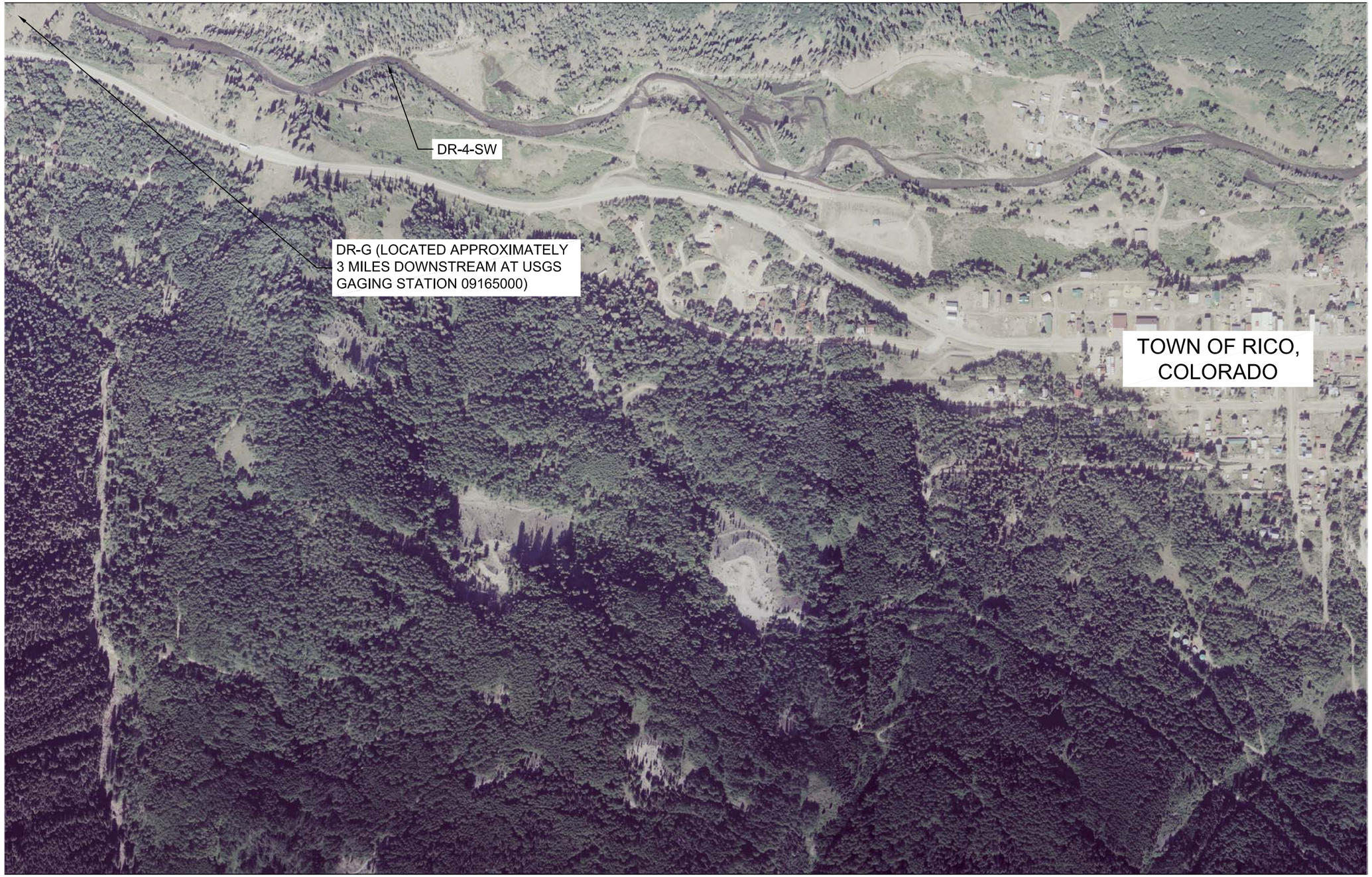
SOUTHERN ST. LOUIS PONDS
SAMPLING LOCATIONS

RICO,
COLORADO

DRAWN BY:	MAD
ENGINEER:	MAD
APPROVED:	MAD

Project	Sheet 2
Date 30-Jul-13	
Scale 1" = 200'	

C:\Users\AEC2-MD\Documents\AECO\Rico Water Sampling\Monthly Sampling Data\May 2013\Appendices\Appendix A - Sampling Location Maps\Rico 2013 sampling locations maps.dwg



3 **SAMPLING LOCATIONS SOUTH OF RICO, CO**

SCALE - 1" = 500'

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General Notes

SCALE IN FEET
0 250 500

No.	Revision/Issue	Date

BP / ARCO

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SALT LAKE CITY, UTAH 84119
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RICO SURFACE WATER SAMOPLING

SAMPLING LOCATIONS SOUTH OF RICO, CO

RICO, COLORADO

DRAWN BY:	MAD
ENGINEER:	MAD
APPROVED:	CES

Project	Sheet 3
Date 5-Apr-12	
Scale 1" = 500'	

C:\Users\AECI-MD\Documents\RICO\Rico Water Sampling\Monthly Sampling Data\November 2012\Appendices\Appendix A - Sampling Location Maps\Locations south of Rico.dwg

Appendix B

Data Tables

TABLE 3A - Surface Water Location Sampling Field Data and Station Information Summary, September 2013

			Field Measurements					GPS Benchmark Location (Colorado State Plane NAD83)		Flow Data				Comments
Sample Location	Date of Sample Collection	Field Technicians	EC (mS/cm)	Oxydation Reduction Potential (ORP, mV)	Dissolved Oxygen (ppm)	pH	Temp (°C)	Northing	Easting	Stream Cross section area (ft^2)	Flowrate cfs / gpm			
DR-1	9/30/2013	Merete Capener / Tim Barbee	0.206	-35.8	7.42	8.62	9.57	1389970.4600	2267573.6490	46.6	222.8		99993	Cross section on the Dolores River above St. Louis settling pond system (approximately 800 ft north of the northern edge of Pond 18). Flow measurements were collected by flotation method. Results are best estimates based on limited ability to accurately measure flowrate from in-river measurements.
DR-2	9/30/2013	Merete Capener / Tim Barbee	0.229	-19.7	8.00	7.95	8.52	1386660.9610	2267971.4630	41.9	76.9		34517	Cross section on the Dolores River, approximately 150 ft north of system outfall. Flow measurements were collected by flowmeter.
DR-3	9/11/2013	Merete Capener / Tim Barbee	1.423	25.1	4.73	6.55	20.11	1388963.0808	2268004.6974	NA	Ultrasonic	1.23	552.0	St Louis adit discharge. Flow measurement by installed Parshall Flume. Manual measurement collected on 9/11/13 at 3:35 pm.
											Transducer	1.24	556.5	
											Manual	1.10	491.4	
DR-4	9/12/2013	Merete Capener / Tim Barbee	1.405	-27.3	5.21	6.45	15.53	1388153.6284	2267799.1579	0.11	0.99		442.1	Pond 15 discharge. Flow in lower pipe was blocked off for dredging activities in Ponds 11 and 12. Upper pipe carrying full flow. Flow may be lower than expected due to some small leaks present at the joint of the existing pipe and the new 12 inch reducer fitting.
DR-5	9/11/2013	Merete Capener / Tim Barbee	1.400	29.1	5.14	6.82	16.81	1387273.4503	2268024.8524	NA	1.06		475.7	Pond 8 discharge. Due to complexity of flow measurements (flow leaking across spillway dike at multiple locations), flow was estimated by water balance as an intermediate value between manual flume readings at DR-3 and DR-6.
DR-6	9/27/2013	Merete Capener / Tim Barbee	1.375	27.8	7.15	6.47	9.49	1386431.4984	2267964.5711	NA	Transducer	1.12	502.7	Outfall to Dolores River. Flow measurement by installed Parshall Flume. Water level by OTT Orpheus Mini submersible pressure transducer. Manual flow measurement collected on 9/27/13 at 11:21 am.
											Manual	1.03	462.7	
DR-7	9/30/2013	Merete Capener / Tim Barbee	0.329	-8.0	8.44	7.30	7.17	1385880.1050	2267983.4510	35.5	78.2		35105	Cross section on the Dolores River, approximately 500 ft below St. Louis settling pond system outfall. Flow measurements were collected by flowmeter.
DR-4-SW	9/30/2013	Merete Capener / Tim Barbee	0.258	112.1	9.13	6.83	4.68	1379176.1190	2266285.0850	37.7	100.8		45217	Cross section on the Dolores River approximately 100 below the Silver Swan site. Flow measurements were collected by flowmeter.
DR-G	9/11/2013	Merete Capener / Tim Barbee	0.242	22.9	7.85	7.66	9.92	1364029.7850	2258752.9060	43.4	145.3		65211	Cross section on the Dolores River at USGS gauging station #09165000, approximately 3.5 miles downstream of the Silver Swan site. Flow measurements were collected by flowmeter.

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TABLE 3B - Groundwater Well Sampling Field Data and Station Information Summary, September 2013

			Field Measurements								GPS Casing Location (Colorado State Plane NAD83)		Comments
Sample Location	Date of Sample Collection	Field Technicians	EC (mS/cm)	Oxydation Reduction Potential (ORP, mV)	Dissolved Oxygen (ppm)	pH	Temp (°C)	Well Casing Elevation (ft)	Measured Depth to Water (ft)	Well Water Elevation (ft)	Northing	Easting	
GW-1	9/11/2013	Merete Capener / Tim Barbee	0.339	-16.5	1.31	7.36	10.85	8840.130	1.50	8838.630	1390006.0210	2267642.6870	Located on the north end of the site, approximately a quarter mile north of the northern edge of Pond 18.
GW-3	9/11/2013	Merete Capener / Tim Barbee	0.921	216.7	2.70	6.15	10.50	8836.680	12.91	8823.770	1389221.9930	2267708.3940	Located approximately 200 feet north of the northern edge of pond 18, and approximately 60 feet west of the main access road.
GW-4	9/27/2013	Merete Capener / Tim Barbee	1.443	7.7	1.02	6.25	10.99	8826.790	9.53	8817.260	1388790.0720	2267553.5420	Located on the western flood dike of Pond 18, approximately midway along the dike.
GW-5	9/11/2013	Merete Capener / Tim Barbee	2.706	-33.3	0.90	6.61	10.95	8839.520	21.83	8817.690	1388802.0650	2267911.8020	Located on the northern edge of the former Pond 17 area, or on the northern dike of the newly constructed drying cell 1.
GW-6	9/12/2013	Merete Capener / Tim Barbee	2.078	-46.9	0.07	6.47	9.44	8837.450	21.13	8816.320	1388589.3950	2267922.5090	Located on the middle of the former Pond 17 area, or on the western edge of the south dike of the newly constructed drying cell 1.
GW-7	9/27/2013	Merete Capener / Tim Barbee	1.828	28.7	3.65	6.01	9.60	8840.000	22.67	8817.330	1388611.4370	2268158.0170	GW-7 Located on the eastern edge of the access road directly across from the former Pond 17, or directly across from the newly constructed drying cell 2.
EB-1	9/11/2013	Merete Capener / Tim Barbee	2.015	-37.0	0.00	6.55	9.52	8839.860	22.21	8817.650	1388792.4420	2267916.9080	Located on the northern edge of the former Pond 17 area, or on the northern dike of the newly constructed drying cell 1. It is within ten feet of GW-5.
EB-2	9/11/2013	Merete Capener / Tim Barbee	3.041	-4.8	0.78	5.89	10.38	8829.840	16.61	8813.230	1388306.1480	2267920.2500	Located on the southern portion of the former Pond 16 area, or on the western edge of the south dike of the newly constructed drying cell 3.
MW-1 SHALLOW	9/12/2013	Merete Capener / Tim Barbee	1.372	7.60	0.69	6.78	15.12	8810.870	6.02	8804.850	1387826.7470	2267944.5160	Both wells are located about 4 feet apart on the western embankment of Pond 13 at the division between Pond 11 and Pond 12.
MW-1 DEEP	9/12/2013	Merete Capener / Tim Barbee	1.416	12.3	1.74	6.72	15.18	8810.850	8.91	8801.940	1387829.4070	2267940.5680	
MW-2 SHALLOW	9/12/2013	Merete Capener / Tim Barbee	Could not sample - Dry well.					8810.230	9.87	8800.360	1387829.7580	2267759.0810	Both wells are located about 4 feet apart on the western flood embankment of Pond 12, about mid-way along the pond. MW-2 SHALLOW could not be sampled due to insufficient water depth to collect samples.
MW-2 DEEP	9/12/2013	Merete Capener / Tim Barbee	1.452	4.40	0.90	6.76	14.16	8810.210	9.64	8800.570	1387836.0950	2267756.0910	
MW-3 SHALLOW	9/12/2013	Merete Capener / Tim Barbee	Could not sample - Dry well.					8819.570	CNO	-	1388308.0910	2267603.5420	Both wells are located about 4 feet apart on the western flood embankment of Pond 15, on the southern half of the embankment. MW-3 SHALLOW was dry and could not be sampled.
MW-3 DEEP	9/12/2013	Merete Capener / Tim Barbee	1.448	-42.0	0.71	6.67	15.54	8819.720	9.66	8810.060	1388313.2060	2267601.6050	
MW-4 SHALLOW	9/27/2013	Merete Capener / Tim Barbee	1.558	10.4	1.00	6.53	12.77	8816.830	16.61	8800.220	1387836.9670	2268221.9370	Both wells are located about 4 feet apart on the southern embankment of Pond 13, approximately 60 west of the main east access road. Note that MW-4 DEEP was sampled twice this month (See report section 5.0). The results from the 9/27/13 sample are reported here.
MW-4 DEEP	9/27/2013	Merete Capener / Tim Barbee	1.341	40.8	3.08	6.23	11.98	8816.770	16.56	8800.210	1387839.1320	2268224.8950	
MW-5 SHALLOW	9/11/2013	Merete Capener / Tim Barbee	3.469	178.9	0.33	3.91	10.62	8830.950	15.87	8815.080	1388369.7050	2267814.3980	Both wells are located about 4 feet apart on the western dike of drying cell 3 (refer to Figure 2).
MW-5 DEEP	9/11/2013	Merete Capener / Tim Barbee	2.106	-34.0	1.11	6.14	11.30	8830.730	17.14	8813.590	1388374.5740	2267813.8150	
MW-6 SHALLOW		Merete Capener / Tim Barbee	2.277	-30.0	1.22	5.95	9.54	8830.580	21.30	8809.280	1388166.1000	2268148.1000	Both wells are located about 4 feet apart on northern embankment of Pond 13, approximately 75 feet west of the main east access road.
MW-6 DEEP	9/27/2013	Merete Capener / Tim Barbee	1.853	-32.3	0.88	6.02	9.72	8830.110	21.17	8808.940	1388165.5290	2268153.3270	
MW-101	9/27/2013	Merete Capener / Tim Barbee	1.746	20.0	2.55	5.87	10.94	8845.417	25.95	8819.467	1388742.4460	2268096.7400	Located east of Drying Cells 1 / 2 boundary dike, inside the St Louis Access road loop, south of the St. Louis lab bldg.
MW-102	9/27/2013	Merete Capener / Tim Barbee	1.435	22.1	3.08	6.28	9.49	8841.304	22.49	8818.814	1388482.8360	2268230.4920	Located east of Drying Cell 4, in the St Louis Access road at the south end of the road loop.
MW-103	9/12/2013	Merete Capener / Tim Barbee	1.772	-23.1	0.83	6.29	14.76	8797.799	6.51	8791.289	1387371.9920	2268003.3380	Located on the western flood embankment of Pond 9, approximately 175 feet south of the north west corner of Pond 9.
MW-104	9/11/2013	Merete Capener / Tim Barbee	1.465	17.4	1.14	6.71	17.06	8785.598	3.51	8782.088	1386860.9350	2267956.0340	Located on the western flood embankment between Ponds 6 and 7.
MW-202	9/30/2013	Merete Capener / Tim Barbee	Could not sample - Dry well.					8859.206	33.47	8825.736	1388999.6490	2268195.9780	Located approximately 30 feet south of the remnant portal structure of the St. Louis Adit discharge. Well could not be sampled due to insufficient water depth to collect samples.
MW-204	9/26/2013	Merete Capener / Tim Barbee	Could not Sample - Pipe broken at approximately 3.5 feet from casing					8865.954	14.45	8851.504	1389122.4820	2268373.7870	Located west of collapsed St. Louis adit base, approximately 30 feet west of AT-2. Pipe is broken at approximately 3.5' below ground surface.
P13-102	9/12/2013	Merete Capener / Tim Barbee	1.827	-39.7	0.47	6.62	8.91	8810.643	10.04	8800.603	1387785.4540	2268076.6470	Located on Pond 13 dike near southeast corner of pond.
P13-103	9/12/2013	Merete Capener / Tim Barbee	1.667	-64.6	0.62	6.46	9.59	8811.464	9.89	8801.574	1387856.4350	2267994.0830	Located on Pond 13 causeway just north of the dike.
CHV-101S	9/26/2013	Merete Capener / Tim Barbee	1.379	41.3	3.48	6.16	15.41	8858.931	34.22	8824.711	1389079.2880	2268257.5150	Well is located approximately 125 feet east of the cinder block structure at the former adit entrance, adjacent to the collapsed tunnel. Sampling by bailer.

Angle Boreholes

AT-2	9/26/2013	Merete Capener / Tim Barbee	0.068	-63.0	0.00	7.82	17.68	8866.206	11.09	8860.329	1389125.5680	2268405.5140	Angle borehole casing is located approximately 220 feet east of the cinder block structure at the former adit entrance, adjacent to the collapsed tunnel.
BAH-01	9/26/2013	Merete Capener / Tim Barbee	1.335	-60.2	0.00	5.91	17.48	8912.639	191.00	8868.375	1388951.4380	2268365.0940	Angle borehole casing which accesses the mine tunnel.

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TABLE 3C - Quality Control Samples Field Data and Station Information Summary, September 2013

			Field Measurements					Comments
Sample Location	Date of Sample Collection	Field Technicians	EC (mS/cm)	Oxydation Reduction Potential (ORP, mV)	Dissolved Oxygen (ppm)	pH	Temp (°C)	
Duplicate Samples								
DR-8	9/11/2013	Merete Capener / Tim Barbee	0.223	22.9	7.85	7.84	9.96	Duplicate of DR-G
DR-9	9/11/2013	Merete Capener / Tim Barbee	1.423	-20.9	4.70	6.54	20.10	Duplicate of DR-3
DR-10	9/12/2013	Merete Capener / Tim Barbee	1.770	-22.8	0.80	6.28	14.87	Duplicate of MW-103
DR-11	9/27/2013	Merete Capener / Tim Barbee	1.388	33.3	7.25	6.55	9.51	Duplicate of DR-6
DR-12	9/30/2013	Merete Capener / Tim Barbee	0.206	-37.8	7.45	8.73	9.57	Duplicate of DR-1
Field Blanks								
FB-FIELD	9/26/2013	Merete Capener / Tim Barbee	0.003	-25.2	5.10	7.45	15.10	Field blank collected in the field
FB-LAB	9/11/2013	Merete Capener / Tim Barbee	0.006	-49.1	3.39	8.04	18.22	Field blank collected in the lab

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Table 3D - DR-1 Cross Section Composite Sampling Field Data and Flow Information Summary, September 2013

			Field Measurements					GPS Location (Colorado State Plane NAD83)		Flow Data				Comments
Sample Location	Date of Sample Collection	Field Technicians	EC (mS/cm)	Oxydation Reduction Potential (ORP, mV)	Dissolved Oxygen (ppm)	pH	Temp (°C)	Northing*	Easting*	Compartment Geometry		Average Flowrate		
										Width (ft)	Area (ft^2)	cfs	gpm	
Velocity in river too high and fast to safely enter. Composite sample could not be collected.														

*Northing and easting values are estimates based on surveyed benchark on east bank of river at this location

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Table 3E - DR-2 Cross Section Composite Sampling Field Data and Flow Information Summary, September 2013

			Field Measurements					GPS Location (Colorado State Plane NAD83)		Flow Data				Comments
Sample Location	Date of Sample Collection	Field Technicians	EC (mS/cm)	Oxydation Reduction Potential (ORP, mV)	Dissolved Oxygen (ppm)	pH	Temp (°C)	Northing*	Easting*	Compartment Geometry		Average Flowrate		
										Width (ft)	Area (ft^2)	cfs	gpm	
COMPARTMENT 1	9/30/2013	Merete Capener / Tim Barbee	0.221	-16.9	8.21	7.94	8.53	1386655.7541	2267950.8128	5.3	2.90	0.91	408	
COMPARTMENT 2	9/30/2013	Merete Capener / Tim Barbee	0.218	-14.6	8.31	7.93	8.48	1386654.5352	2267945.9636	5.3	4.91	6.58	2953	
COMPARTMENT 3	9/30/2013	Merete Capener / Tim Barbee	0.216	-12.1	8.41	7.91	8.47	1386653.3163	2267941.1145	5.3	10.70	23.08	10358	
COMPARTMENT 4	9/30/2013	Merete Capener / Tim Barbee	0.217	-10.9	8.38	7.88	8.47	1386652.0974	2267936.2653	5.3	11.70	24.76	11112	
COMPARTMENT 5	9/30/2013	Merete Capener / Tim Barbee	0.219	-10.5	8.31	7.87	8.49	1386650.8741	2267931.3986	5.3	9.30	20.10	9021	
COMPARTMENT 6	9/30/2013	Merete Capener / Tim Barbee	0.245	-7.9	7.74	7.76	8.66	1386649.6552	2267926.5495	5.3	2.35	1.47	660	
TOTAL COMPOSITE	9/30/2013	Merete Capener / Tim Barbee	0.219	-3.3	6.45	7.70	10.36	-	-	32	41.9	76.9	34512.7	

*Northing and easting values are estimates based on surveyed benchark on east bank of river at this location

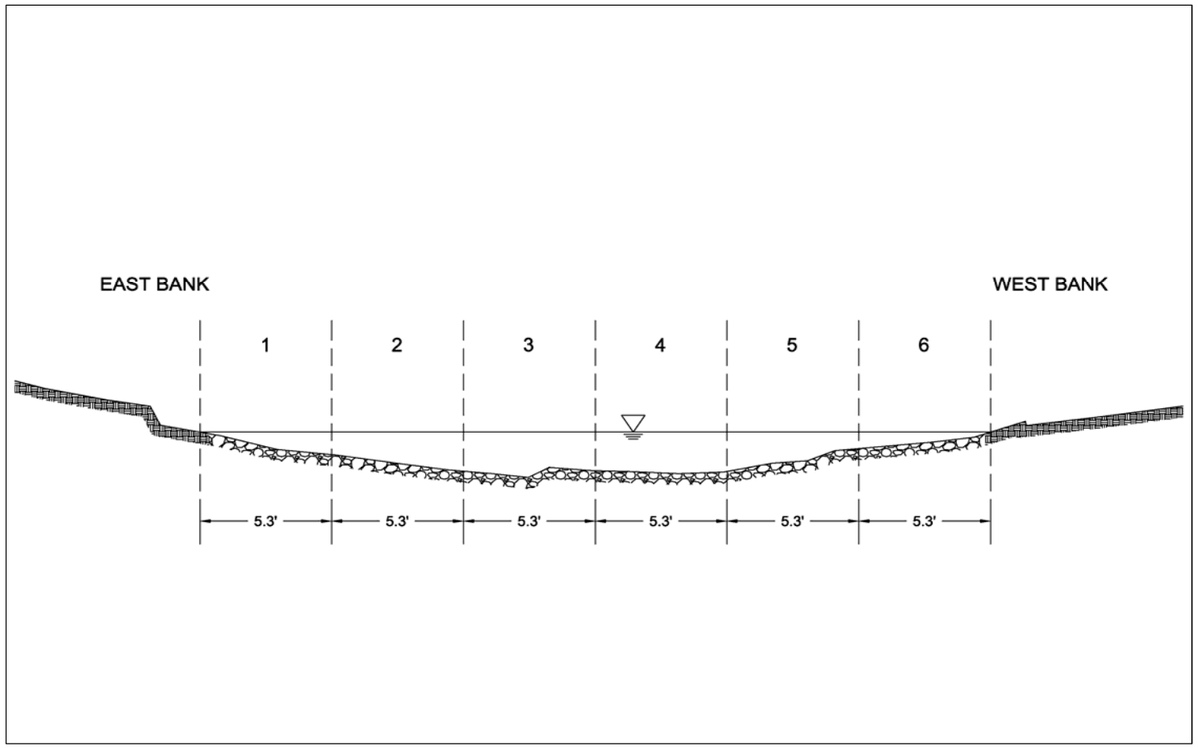

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Table 3F - DR-7 Cross Section Composite Sampling Field Data and Flow Information Summary, September 2013

			Field Measurements					GPS Location (Colorado State Plane NAD83)		Flow Data				Comments
Sample Location	Date of Sample Collection	Field Technicians	EC (mS/cm)	Oxydation Reduction Potential (ORP, mV)	Dissolved Oxygen (ppm)	pH	Temp (°C)	Northing*	Easting*	Compartment Geometry		Average Flowrate		
										Width (ft)	Area (ft^2)	cfs	gpm	
COMPARTMENT 1	9/30/2013	Merete Capener / Tim Barbee	0.290	-25.2	8.77	7.63	6.76	1385879.988	2267957.53	6	3.60	4.07	1827	
COMPARTMENT 2	9/30/2013	Merete Capener / Tim Barbee	0.264	-23.4	8.93	7.60	6.65	1385878.205	2267951.801	6	6.70	14.90	6687	
COMPARTMENT 3	9/30/2013	Merete Capener / Tim Barbee	0.234	-21.2	8.85	7.60	6.54	1385876.422	2267946.072	6	6.32	16.67	7481	
COMPARTMENT 4	9/30/2013	Merete Capener / Tim Barbee	0.228	-19.0	8.77	7.60	6.54	1385874.639	2267940.343	6	6.30	16.82	7549	
COMPARTMENT 5	9/30/2013	Merete Capener / Tim Barbee	0.227	-17.2	8.89	7.56	6.58	1385872.856	2267934.614	6	6.70	17.08	7666	
COMPARTMENT 6	9/30/2013	Merete Capener / Tim Barbee	0.233	-16.6	8.75	7.49	6.68	1385871.073	2267928.885	6	5.90	8.68	3896	
TOTAL COMPOSITE	9/30/2013	Merete Capener / Tim Barbee	0.242	17.2	8.10	7.40	8.79	-	-	36	35.5	78.2	35105	

*Northing and easting values are estimates based on surveyed benchark on east bank of river at this location

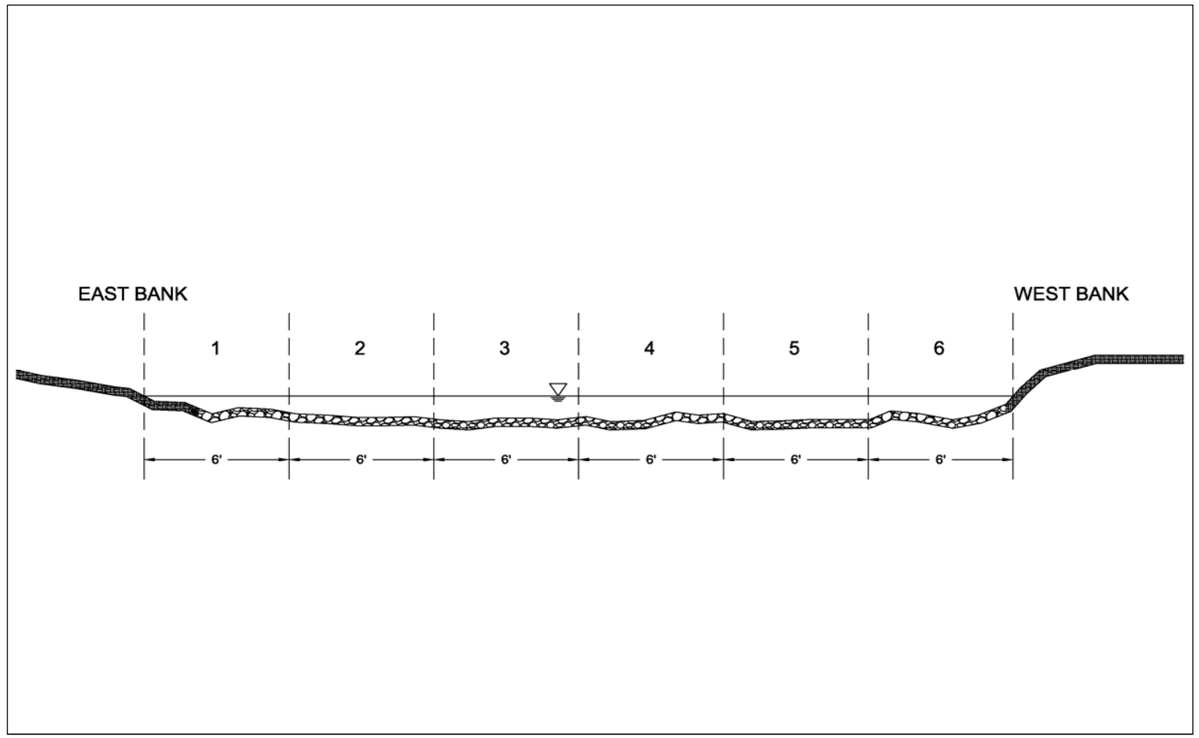

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Table 3G - DR-4-SW Cross Section Composite Sampling Field Data and Flow Information Summary, September 2013

			Field Measurements					GPS Location (Colorado State Plane NAD83)		Flow Data				Comments
Sample Location	Date of Sample Collection	Field Technicians	EC (mS/cm)	Oxydation Reduction Potential (ORP, mV)	Dissolved Oxygen (ppm)	pH	Temp (°C)	Northing*	Easting*	Compartment Geometry		Average Flowrate		
										Width (ft)	Area (ft^2)	cfs	gpm	
COMPARTMENT 1	9/30/2013	Merete Capener / Tim Barbee	0.258	113.6	9.01	6.77	4.69	1379179.8003	2266277.0079	6	2.90	2.71	1216	
COMPARTMENT 2	9/30/2013	Merete Capener / Tim Barbee	0.256	114.1	9.04	6.76	4.69	1379182.2489	2266271.5302	6	6.20	15.56	6983	
COMPARTMENT 3	9/30/2013	Merete Capener / Tim Barbee	0.255	113.6	9.05	6.77	4.72	1379184.6956	2266266.0566	6	8.00	27.26	12234	
COMPARTMENT 4	9/30/2013	Merete Capener / Tim Barbee	0.255	113.5	9.06	6.78	4.77	1379187.1441	2266260.5789	6	10.10	28.67	12867	
COMPARTMENT 5	9/30/2013	Merete Capener / Tim Barbee	0.255	113.3	9.00	6.74	4.86	1379189.5927	2266255.1013	6	7.50	21.86	9811	
COMPARTMENT 6	9/30/2013	Merete Capener / Tim Barbee	0.256	113.6	8.96	6.72	4.98	1379192.0412	2266249.6236	6	3.00	4.70	2109	
													0	
TOTAL COMPOSITE	9/30/2013	Merete Capener / Tim Barbee	0.255	96.8	7.91	6.80	8.04	-	-	36	37.7	100.8	45221	

*Northing and easting values are estimates based on surveyed benchark on east bank of river at this location

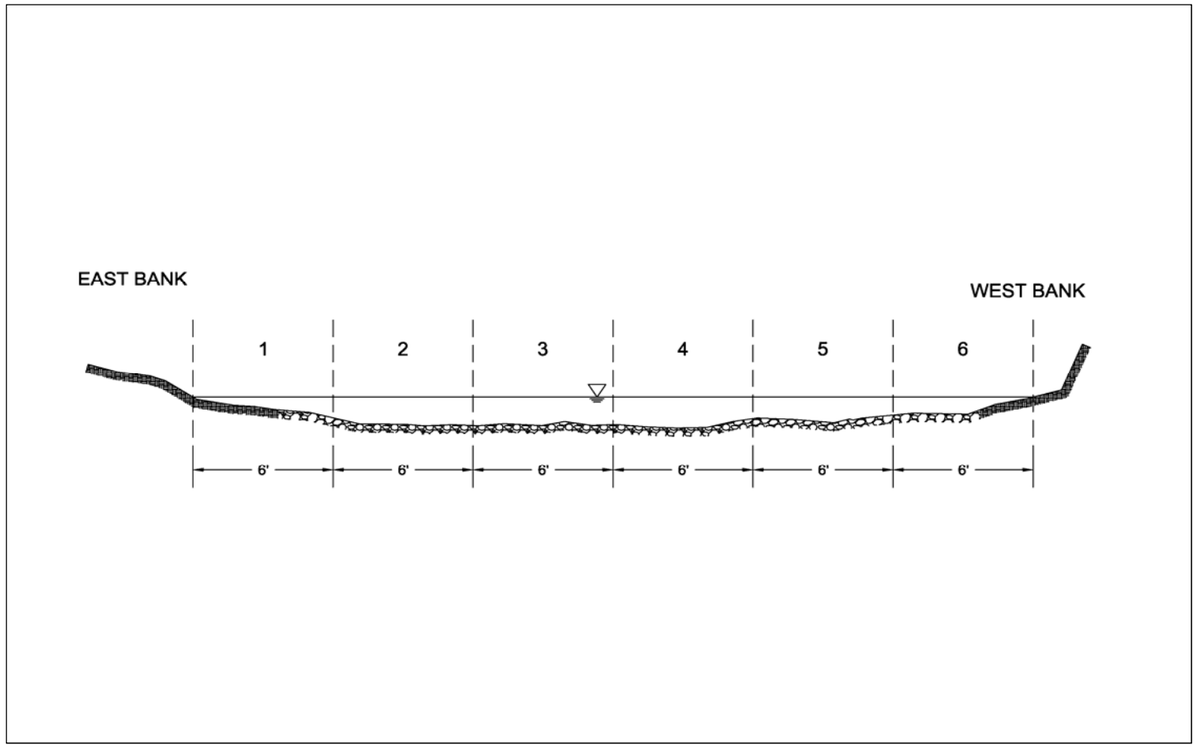

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TABLE 4A - Surface Water Analytical Sampling Results Summary, September 2013

			Metals (µg/L)																								Non-Metals (mg/L, unless otherwise indicated)													
Field Sample ID	Date Collected	Fraction	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Alkalinity, Bicarbonate (CaCO3)	Alkalinity, Carbonate (CaCO3)	Alkalinity, Total as CaCO3	Chloride	Cyanide	Hardness (µg/L as CaCO3)	Nitrogen, NO2 plus NO3	Salinity, as dissolved solids	Salinity, as sea water (PSU)	Silica (µg/L)	Sulfate	Sulfide	TDS	TOC	TSS
DR-1	9/30/13	Total	146	<0.50	<0.50	54.6	<0.20	<0.080	27500	<0.50	<0.50	1.0	127	0.18	4480	10.9	<0.20	0.65	<0.50	564	<0.50	<0.50	1990	<0.10	0.39	<5.0	65.5	<20.0	65.5	1.3	<0.0050	87100	<0.10	116	0.089	6050	25.2	<0.050	110	4.5	<5.0
		Dissolved	25.2	<0.50	<0.50	54.6	<0.20	<0.080	30300	<0.50	<0.50	1.4	<50.0	<0.10	4420	11.0	<0.20	0.68	5.0	555	<0.50	<0.50	1910	<0.10	0.17	15.8															
		Potentially Dissolved	69.7	0.075J	0.23J	54.1	<0.50	<0.50	28900	0.75J	0.086J	0.75J	183	0.23J	4290	11.4	<0.20	0.80J	0.37J	525	0.39J	0.026J	1950	0.28J	<1.0	6.0J															
DR-2	9/30/13	Total	150	<0.50	<0.50	53.7	<0.20	<0.080	28100	<0.50	<0.50	0.74	144	0.19	4610	33.1	<0.20	0.70	0.66	634	<0.50	<0.50	2040	<0.10	0.36	5.1	66.6	<20.0	66.6	1.3	<0.0050	89200	<0.10	122	0.093	6020	30.2	<0.050	125	3.8	7.0
		Dissolved	28.6	<0.50	<0.50	54.4	<0.20	<0.080	32900	<0.50	<0.50	1.7	<50.0	<0.10	4760	33.2	<0.20	0.78	5.1	636	<0.50	<0.50	2070	<0.10	0.20	7.7															
		Potentially Dissolved	61.6	0.083J	0.13J	51.7	<0.50	<0.50	29600	0.61J	0.082J	1.1	82.5	0.15J	4310	30.2	<0.20	0.90J	0.36J	515	0.28J	0.034J	1890	0.14J	<1.0	5.6J															
DR-3	9/11/13	Total	585	<0.50	1.4	20.6	0.82	21.0	255000	<0.50	2.8	142	6470	12.2	18700	1990	<0.20	16.0	4.6	3020	<0.50	<0.50	12700	<0.10	0.13	4380	85.8	<20.0	85.8	<1.0	<0.0050	715000	0.10	797	0.62	19600	634	<0.050	1050	<0.50	17.0
		Dissolved	8.0	<0.50	<0.50	20.4	0.33	18.8	240000	<0.50	2.7	7.0	237	<0.10	18900	1810	<0.20	14.4	5.6	3060	<0.50	<0.50	12700	<0.10	<0.10	3570															
		Potentially Dissolved	621	0.24J	1.1	20.8	0.77	21.6	245000	1.2	2.6	141	6800	12.5	19400	1930	<0.20	17.1	4.6	3190	0.21J	0.045J	13800	0.11J	<1.0	3940															
DR-4	9/12/13	Total	208	<0.50	<0.50	19.5	0.31	17.0	229000	<0.50	2.6	48.4	2260	3.7	19600	1760	<0.20	14.6	4.5	3000	<0.50	<0.50	13100	<0.10	<0.10	3190	86.5	<20.0	86.5	1.5	<0.0050	653000	<0.10	785	0.61	16600	517	<0.050	1220	<0.50	<5.0
		Dissolved	14.3	<0.50	<0.50	20.2	<0.20	15.6	253000	<0.50	2.6	3.3	<50.0	0.19	19900	1810	<0.20	14.4	4.9	3160	<0.50	<0.50	12800	<0.10	<0.10	2780															
		Potentially Dissolved	196	0.17J	0.40J	20.6	0.32J	17.3	240000	0.32J	2.5	48.1	2250	4.0	19300	1830	<0.20	15.4	4.2	2990	<1.0	0.029J	12900	0.11J	<1.0	2980															
DR-5	9/11/13	Total	64.6	<0.50	<0.50	19.9	<0.20	11.8	245000	<0.50	1.8	14.2	680	1.2	19700	1410	<0.20	12.9	3.4	3360	<0.50	<0.50	13100	<0.10	<0.10	2160	96.8	<20.0	96.8	<1.0	0.051	693000	<0.10	809	0.63	16900	608	<0.050	1070	<0.50	<5.0
		Dissolved	<4.0	<0.50	<0.50	19.4	<0.20	6.5	231000	<0.50	1.8	1.2	<50.0	<0.10	19700	1390	<0.20	12.6	4.9	3400	<0.50	<0.50	13000	<0.10	<0.10	1920															
		Potentially Dissolved	58.4	0.13J	0.24J	18.9	0.10J	11.7	244000	0.45J	1.7	14.0	693	1.3	20900	1430	<0.20	13.2	3.4	3520	<1.0	<0.50	14100	0.064J	<1.0	1970															
DR-6	9/27/13	Total	21.0	<0.50	<0.50	19.2	<0.20	9.0	254000	<0.50	1.1	3.9	342	0.56	26400	1170	<0.20	12.4	3.2	4540	<0.50	<0.50	19000	<0.10	<0.10	1990	144	<20.0	144	<1.0	<0.0050	744000	<0.10	821	0.64	17700	774	<0.050	1170	<0.50	12.0
		Dissolved	<4.0	<0.50	<0.50	20.6	<0.20	8.4	288000	<0.50	1.3	1.3	<50.0	<0.10	28500	1260	<0.20	13.0	8.4	4630	0.53	<0.50	18500	<0.10	<0.10	1870															
		Potentially Dissolved	16.4J	0.38J	0.20J	18.5	0.053J	8.4	259000	0.61J	1.1	4.0	337	0.62J	25700	1150	<0.20	12.3	1.9	4720	0.41J	<0.50	16400	0.041J	0.25J	1580															
DR-7	9/30/13	Total	132	<0.50	<0.50	50.9	<0.20	0.44	41200	<0.50	<0.50	1.1	166	0.20	6200	93.4	<0.20	1.1	0.74	1030	<0.50	<0.50	3270	<0.10	0.35	94.2	77.6	<20.0	77.6	1.3	<0.0050	128000	<0.10	174	0.13	7740	59.3	<0.050	180	3.6	<5.0
		Dissolved	28.2	<0.50	<0.50	53.4	<0.20	0.45	46400	<0.50	<0.50	1.3	<50.0	<0.10	6410	96.2	<0.20	1.2	0.95	1060	<0.50	<0.50	3250	<0.10	0.17	87.0															
		Potentially Dissolved	59.4	0.059J	0.35J	51.6	<0.50	0.46J	41700	0.53J	0.15J	0.92J	116	0.18J	5850	91.2	<0.20	1.1	0.35J	917	0.33J	0.010J	3000	0.093J	<1.0	87.0															
DR-4-SW	9/30/13	Total	154	<0.50	<0.50	57.2	<0.20	0.32	33600	<0.50	<0.50	1.4	186	0.39	5120	56.2	<0.20	0.73	0.88	683	<0.50	<0.50	2290	<0.10	0.37	63.5	75.1	<20.0	75.1	1.4	<0.0050	105000	<0.10	141	0.11	6990	36.8	<0.050	140	3.8	<5.0
		Dissolved	19.5	<0.50	<0.50	56.4	<0.20	0.28	37200	<0.50	<0.50	1.6	<50.0	<0.10	5210	53.2	<0.20	0.73	0.81	672	<0.50	<0.50	2250	<0.10	0.14	57.4															
		Potentially Dissolved	67.4	0.050J	0.20J	55.6	<0.50	0.32J	34500	0.57J	0.14J	1.4	136	0.34J	4780	54.8	<0.20	0.70J	0.32J	606	0.37J	<0.50	2090	0.23J	<1.0	57.5															
DR-G	9/11/13	Total	2480	<0.50	2.9	111	0.27	0.64	38200	3.0	1.9	8.3	4030	15.3	6640	211	<0.20	1.4	5.3	1600	0.58	<0.50	2110	<0.10	6.2	122	71.8	<20.0	71.8	1.4	<0.0050	123000	0.11	139	0.10	13700	31.3	<0.050	145	4.0	239
		Dissolved	33.4	<0.50	<0.50	70.1	<0.20	0.12	32900	<0.50	<0.50	2.0	54.9	0.20	4520	31.7	<0.20	0.66	0.88	850	<0.50	<0.50	2110	<0.10	0.32	17.0															
		Potentially Dissolved	647	0.11J	1.3	111	0.19J	0.81	44200	1.4	1.6	6.4	1860	13.7	7040	300	<0.20	0.56J	2.9	905	0.55J	0.041J	2280	0.071J	2.6	142															

ANDERSON
ENGINEERING COMPANY INC.

TABLE 4B - Groundwater Analytical Sampling Results Summary, September 2013

Field Sample ID	Date Collected	Fraction	Metals (µg/L)																									Non-Metals (mg/L, unless otherwise indicated)														
			Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Alkalinity, Bicarbonate (CaCO3)	Alkalinity, Carbonate (CaCO3)	Alkalinity, Total as CaCO3	Chloride	Cyanide	Hardness (µg/L as CaCO3)	Nitrogen, NO2 plus NO3	Salinity, as dissolved solids	Salinity, as seawater (PSU)	Silica (µg/L)	Sulfate	Sulfide	TDS	TOC	TSS
GW-1	9/11/13	Total	5790	<0.50	10	200	0.53	1.2	53900	6.6	7.0	41.5	10400	32.4	8450	1320	0.68	3.6	12.4	2380	0.71	<0.50	2560	0.21	13.4	122	110	<20.0	110	1.5	<0.0050	169000	<0.10	227	0.17	28700	47.2	<0.050	218	1.3	256
		Dissolved	72.0	<0.50	<0.50	72.5	<0.20	<0.080	52200	<0.50	<0.50	1.9	118	0.48	6270	19.3	<0.20	1.3	<0.50	818	<0.50	<0.50	2410	<0.10	0.23	6.6																
		Potentially Dissolved	1450	0.11J	1.7	151	0.28J	0.74	54200	2.2	3.6	18.2	2580	18.3	6850	820	<0.20	0.59J	6.3	921	0.79J	0.36J	2460	0.026J	3.2	57.3																
GW-3	9/12/13	Total	6470	<0.50	10.8	201	0.32	2.0	152000	9.5	5.6	50.1	11800	99.4	21000	1670	<0.20	2.3	8.4	3940	6.1	<0.50	3340	0.20	13.3	330	203	<20.0	203	1.8	<0.0050	465000	<0.10	541	0.41	38600	199	<0.050	3020	0.96	237
		Dissolved	15.3	<0.50	<0.50	32.6	<0.20	0.57	159000	<0.50	<0.50	1.9	<50.0	0.15	17200	148	<0.20	0.63	5.3	2820	4.7	<0.50	3050	<0.10	<0.10	66.8																
		Potentially Dissolved	2510	0.15J	4.6	74.3	0.22J	1.8	156000	4.5	3.8	35.2	5330	63.1	18700	1270	<0.20	0.48J	5.1	3110	5.6	0.44J	3180	0.12J	5.3	256																
GW-4	9/27/13	Total	51000	0.95	44.5	964	2.8	9.6	264000	83.3	31.8	243	114000	262	65100	2260	0.45	30.9	64.5	11200	3.4	6.0	11500	<2.0	113	1510	126	<20.0	126	1.6	<0.0050	927000	<0.10	838	0.65	154000	721	<0.050	1100	3.5	1490
		Dissolved	132	<0.50	0.83	54.0	<0.20	0.34	272000	<0.50	1.8	1.1	550	0.55	31500	775	<0.20	10.7	4.6	5420	<0.50	<0.50	9940	<0.10	0.29	47.0																
		Potentially Dissolved	10600	0.49J	11.0	98.1	2.4	14.9	264000	29.7	19.0	259	54500	313	34000	2090	<0.20	6.2	28.3	6620	9.0	0.35J	8880	0.40J	33.3	1350																
GW-5	9/11/13	Total	75700	4.9	661	115	6.5	332	663000	87.0	161	8320	362000	58900	93000	26900	1.1	69.3	203	16100	7.5	373	8960	6.6	125	167000	198	<20.0	198	1.4	<0.0050	2040000	0.10	1490	1.2	197000	1410	<0.050	1080	0.83	2600
		Dissolved	<4.0	<0.50	34.6	13.7	<0.20	<0.080	554000	<0.50	6.0	1.3	888	4.2	51000	3390	<0.20	12.3	13.0	5120	<0.50	<0.50	8460	<0.10	0.10	3620																
		Potentially Dissolved	28600	0.25J	197	21.2	3.6	135	664000	34.9	44.0	86.5	138000	4040	54200	15900	<0.20	0.89J	76.7	5990	11.8	0.010J	8160	0.54J	58.3	104000																
GW-6	9/12/13	Total	102000	2.6	781	1200	6.0	176	422000	115	87.2	2970	463000	33900	118000	22200	1.1	36.1	147	24800	7.7	77.2	6840	3.3	178	43600	184	<20.0	184	1.3	<0.0050	1540000	<0.10	1340	1.1	218000	791	<0.050	1900	2.1	5470
		Dissolved	812	<0.50	51.3	66.3	0.55	1.6	372000	1.1	5.6	19.7	41300	312	51100	9970	<0.20	7.5	6.9	11000	<0.50	<0.50	6390	<0.10	1.5	6360																
		Potentially Dissolved	24200	0.90J	359	111	8.0	99.7	406000	16.8	39.9	1320	151000	6330	57800	18800	<0.20	5.1	51.7	12100	8.4	0.13J	6090	0.81J	52.1	27400																
GW-7	9/27/13	Total	104000	<0.50	80.4	2440	6.0	64.0	414000	83.9	123	991	175000	2370	102000	38000	0.42	15.2	193	12400	12.2	11.1	15200	2.4	166	8720	163	<20.0	163	2.9	<0.0050	1460000	0.19	977	0.76	241000	805	<0.050	1440	2.4	2700
		Dissolved	11300	0.65	6.0	462	0.84	34.2	311000	7.8	63.4	57.6	12500	131	66500	21500	<0.20	4.6	75.6	3610	1.8	<0.50	15100	0.26	17.5	3970																
		Potentially Dissolved	17700	0.76J	6.2	216	3.7	54.5	380000	9.1	79.6	484	28600	747	55400	30200	<0.20	2.0	96.6	3280	12.4	0.70	13000	0.18J	25.8	5230																
EB-1	9/12/13	Total	871	<0.50	11.3	41.9	0.20	1.6	397000	1.5	5.0	36.0	7600	213	29000	3360	<0.20	13.2	6.0	4830	<0.50	0.96	7980	<0.10	0.30	1550	152	<20.0	152	1.5	<0.0050	1110000	<0.10	1280	1.0	24900	841	<0.050	1610	3.8	40.0
		Dissolved	11.6	<0.50	6.6	14.6	<0.20	<0.080	430000	<0.50	4.3	0.95	2750	1.3	28600	3350	<0.20	13.3	6.1	4880	<0.50	<0.50	7950	<0.10	<0.10	1100																
		Potentially Dissolved	498	0.22J	10.9	21.1	0.20J	1.1	382000	1.0	4.4	24.7	4940	206	26000	3330	<0.20	12.5	4.7	4600	0.20J	0.035J	7390	0.028J	0.45J	1240																
EB-2	9/12/13	Total	11200	0.62	239	56.2	4.3	5.7	328000	1.6	30.4	98.3	464000	782	116000	24100	<0.20	5.5	42.9	15500	0.91	2.4	7180	0.13	0.60	33600	<20.0	<20.0	<20.0	3.0	<0.0050	1300000	<0.10	1920	1.6	41800	1790	<0.050	3230	<0.50	198
		Dissolved	9690	<0.50	156	14.6	4.0	1.1	343000	<0.50	30.0	0.53	448000	0.40	112000	23300	<0.20	3.9	42.0	15800	<0.50	<0.50	6940	<0.10	<0.10	32100																
		Potentially Dissolved	10100	0.61J	240	18.5	4.3	3.9	307000	3.3	30.3	74.3	436000	672	103000	23700	<0.20	4.2	40.8	14500	2.1	0.45J	6880	0.57J	0.59J	32900																
MW-1 SHALLOW	9/12/13	Total	10700	0.58	11.9	166	0.71	1.1	244000	11.8	5.7	46.3	15000	122	25900	700	<0.20	12.8	10	9450	11.3	<0.50	14500	0.34	15.8	189	92.8	<20.0	92.8	1.0	<0.0050	716000	<0.10	757	0.59	52600	482	<0.050	978	0.54	311
		Dissolved	<4.0	<0.50	<0.50	25.0	<0.20	0.31	240000	<0.50	<0.50	0.96	<50.0	<0.10	19600	9.7	<0.20	10.3	1.6	7010	9.0	<0.50	16000	<0.10	<0.10	22.2																
		Potentially Dissolved	2900	0.16J	2.5	49.4	0.45J	0.86	221000	6.8	3.7	26.2	4770	78.4	19400	569	<0.20	4.2	7.0	6710	10.5	0.72	13400	0.14J	4.7	122																
MW-1 DEEP	9/12/13	Total	2740	<0.50	4.6	54.1	<0.20	4.3	260000	3.6	1.4	39.3	3840	62.0	21800	448	<0.20	10	3.0	7110	11.0	<0.50	15700	0.19	4.4	615	98.7	<20.0	98.7	<1.0	<0.0050	739000	<0.10	764	0.59	25700	492	<0.050	1030	<0.50	96.0
		Dissolved	79.1	<0.50	0.87	21.5	<0.20	2.1	254000	<0.50	<0.50	3.6	138	2.2	19800	27.3	<0.20	11.0	2.2	6020	10.4	<0.50	15800	0.13	0.24	307																
		Potentially Dissolved	1310	0.19J	3.9	39.8	0.14J	4.2	240000	3.0	1.2	37.4	2690	59.0	19900	455	<0.20	8.4	1.9	5970	11.5	0.27J	14500	0.16J	2.6	537																
MW-2 SHALLOW	9/12/13	Total	DRY WELL - COULD NOT OBTAIN SAMPLE																																							
		Dissolved																																								
		Potentially Dissolved																																								
MW-2 DEEP	9/12/13	Total	96.5	<0.50	<0.50	23.3	<0.20	1.1	268000	<0.50	<0.50	0.94	220	4.4	21900	18.5	<0.20	8.0	<0.50	2440	1.5	<0.50	15000	<0.10	0.25	24.9	94.4	<20.0	94.4	<1.0	<0.0050	760000	<0.10	901	0.70	12300	521	<0.050	1050	<0.50	<5.0
		Dissolved	4.1	<0.50	<0.50	14.9	<0.20	0.90	261000	<0.50	<0.50	0.59	<50.0	<0.10	21200	<0.50	<0.20	8.4	0.73	2130	1.1	<0.50	15100	<0.10	<0.10	17.9																
		Potentially Dissolved	55.3	<1.0	0.089J	20.6	<0.50	1.0	252000	0.43J	<1.0	1.1	179	5.2	21500	19.2	<0.20	8.3	<1.0	2200	1.4	0.035J	14200	0.088J	<1.0	27.1																
MW-3 SHALLOW	9/12/13	Total	DRY WELL - COULD NOT OBTAIN SAMPLE																																							
		Dissolved																																								
		Potentially Dissolved																																								
MW-3 DEEP	9/12/13	Total	318	<0.50	1.3	39.6	<0.20	0.36	252000	<0.50	0.92	3.6	2210	6.3	22300	1360	<0.20	8.5	0.64	6780	<0.50	<0.50	15800	<0.10	0.75	49.4	88.5	<20.0	88.5	<1.0	<0.0050	721000	<0.10	940	0.74	15100	519	<0.050	1050	<0.50	15.0
		Dissolved	68.6	<0.50	1.3	26.4	<0.20	0.099	249000	<0.50	0.91	1.3	1750	1.5	21700	1330	<0.20	8.9	0.77	7040	<0.50	<0.50	16300	<0.10	0.20	39.4																
		Potentially Dissolved	173	<1.0	1.3	32.2	<0.50	0.32J	240000	0.43J	0.92J	3.5	2010	6.3	21800	1360	<0.20	9.2	0.28J	6660	<1.0	0.020J	15000	0.10J	0.15J	46.6																
MW-4 SHALLOW	9/11/13	Total	14700	<0.50	11.0	173	1.2	2.4	271000	17.9	7.0	89.8	19000	121	36700	542	<0.20	3.3	13.5	5810	28.7	<0.50	7330	0.30	19.3	447	376	<20.0	376	1.3	<0.0050	827000	<0.10	965	0.76	65000	354	<0.050	1060	0.64	535
		Dissolved	472	<0.50	<0.50	56.5	<0.20	1.6	299000	0.78	<0.50	4.9	526	4.1	31700	66.9	<0.20	1.7	3.1	3450	26.5	<0.50	7300	<0.10	0.67	159																
		Potentially Dissolved	5880	0.057J	4.3	82.0	0.98	2.4	285000	9.4	4.7	71.9	8170	127	31900	448	<0.20	0.86J	7.4	3820	32.5	0.77	7510	0.13J	7.3	377																
MW-4 DEEP	9/27/13	Total	1280	<0.50	2.4	82.9	<0.20	2.2	221000	1.5	1.9	16.5	2270	15.5	24700	325	<0.20	2.5	2.7	4320	6.6	<0.50	10900	<0.10	2.6	267	82.6	<20.0	82.6	1.0	<0.0050	653000	<0.10	757	0.59	13600	586	<0.050	1330	<0.50	25.0
		Dissolved	15.2	<0.50	<0.50	18.7	<0.20	1.8	243000	<0.50	<0.50	2.2	<50.0	<0.10	26000	3.0	<0.20	1.5	5.2	4150	6.6	<0.50	10800	<0.10	<0.10	222																
		Potentially Dissolved	539	0.37J	1.6	38.3	0.12J	2.2	218000	1.2	1.3	13.8	1320	12.6	23900	158	<0.20	0.99J	0.74J	4200	6.2	0.19J	10000	0.075J	1.5	241																
MW-5 SHALLOW	9/11/13	Total	43000	2.8	413	72.0	6.8	236	447000	0.65	87.8	919	483000	5240	134000	24500	<0.20	5.0	158	3830	5.8	17.7	5600	1.1	11.4	118000	<20.0	<20.0	<20.0	3.1	<0.0050	1670000	<0.10	2360	1.9	86500	4080	<0.050	4160	<0.50	352
		Dissolved	36600	<0.50	270	9.9	8.0	211	439000	<0.50	82.5	49.8	427000	1170	130000	23500	<0.20	<0.50	152	2330	4.4	<0.50	15700	0.40	2.7	113000																
		Potentially Dissolved	39100	0.91J	411	7.7	8.1	245	435000	10.3	89.8	694	438000	3660	126000	25800	<0.20	1.7J	164	2220	14.0	0.64J	15200	0.81J	6.2	111000																
MW-5 DEEP	9/11/13	Total	1400	<0.50	161	33.4	1.6	0.44	326000	<0.50	8.7	9.0	67600	66.3	52000	10300	<0.20	10.9	8.0	7880	<0.50	<0.50	7260	0.10	1.8	8460	108	<20.0	108	1.8	<0.0050	1030000	0.13	1150	0.91	27200	957	<0.050	1620	<0.50	104
		Dissolved	468	<0.50	119	14.8	1.5	<0.080	327000	<0.50	8.6	1.0	61000	0.33	53800	10200	<0.20	11.7	11.8	7910	<0.50	<0.50	7370	<0.10	<0.10	8100																
		Potentially Dissolved	1100	0.037J	156	22.0	1.4	0.35J	318000	0.86J	8.7	7.2	64200	63.9	51300	10000	<0.20	9.4	7.6	8130	0.32J	0.079J	7890	0.093J	0.58J	8330																
MW-6 SHALLOW	9/27/13	Total	35700	1.2	157	238	2.4	21.1	390000	28.8	23.8	159	91600	283	71900	8010	<0.20	13.0	47.0	16300	10.6	2.4	4270	0.85	43.2	6130	111	<20.0	111	1.4	<0.0050	1270000	<0.10	1180	0.94	137000	1280	<0.050	1810	1.1	245
		Dissolved	960	<0.50	36.3	19.7	0.96	0.82	435000	<0.50	3.7	0.96	45300	0.47	60200	7980	<0.20	4.3	5.4	13000	8.9	<0.50	4180	<0.10	<0.10	1110																
		Potentially Dissolved	6040	0.41J	64.9	30.7	1.1	6.8	376000	5.0	7.8	34.8	53700	117	56100	7270	<0.20	3.2	11.0	12500	9.6	<0.50	4160	0.24J	5.9	2180																
MW-6 DEEP	9/27/13	Total	9850	0.93	102	135	1.3	5.4	302000	9.2	7.8	64.6	36700	106	46100	7800	<0.20	11.2	12.9	8610	2.2	0.51	5190	0.20	20.1	1690	156	<20.0	156	1.2	<0.0050	945000	<0.10	968	0.76	50400	795	<0.050	1380	0.70	245
		Dissolved	411	<0.50	17.5	18.9	0.64	<0.080	333000	<0.50	3.2	<0.50	22300	<0.10	45800	7980	<0.20	6.1	2.4	6850	0.88	<0.50	4980	<0.10	<0.10	344																
		Potentially Dissolved	3690	0.46J	73.3	37.4	0.85	4.8	310000	5.1	5.7	39.6	29000	89.2	44700	7550	<0.20	3.7	6.6	7180	2.2	<0.50	5160	0.077J	9.1	1380																
MW-101	9/27/13	Total	9950	<0.50	11.3	155	1.3	7.4	331000	16.2	8.1	101	30700	1080	42000	1280	<0.20	5.5	15.4	5590	4.4	4.0	10400	0.49	17.2	1090	348	<20.0	348	1.6	<0.0050	1000000	0.28	993	0.78	48200	784	<0.050	1280	0.56	425
		Dissolved	148	<0.50	<0.50	26.8	<0.20	1.2	346000	<0.50	2.3	1.3	1510	9.9	37100	599	<0.20	1.7	5.9	3860	2.6	<0.50	9720	<0.10	0.16	340																
		Potentially Dissolved	2620	0.40J	3.2	39.5	0.85	6.6	324000	6.5	5.5	70.4	12700	830	36900	1020	<0.20	0.62J	8.1	4360	3.7	0.10J	9390	0.26J	6.2	778																
MW-102	9/27/13	Total	174000	0.88	136	1250	23.6	37.4	297000	203	351	976	300000	1680	156000	43500	0.51	42.7	269	13000	11.9	5.3	7240	2.9	222	9270	214	<20.0	214	1.1	<0.0050	1380000	0.89	786	0.61	240000	614	<0.050	975	1.5	568
		Dissolved	400	<0.50	0.57	19.2	<0.20	0.33	250000	1.2	0.80	2.5	542	3.0	24000	72.5	<0.20	0.88	2.6	2350	2.3	<0.50	7340	<0.10	0.67	90.7																
		Potentially Dissolved	214000	0.38J	6.2	164	104	22.6	248000	23.1	40.2	284	7800	254	28000	46400	<0.20	0.31J	42.8	3600	32.1	1.2	6240	0.046J	8.0	3270																
MW-103	9/12/13	Total	1750	<0.50	8.4	59.4	0.56	1.3	315000	2.2	3.6	6.3	10700	6.4	35600	8570	<0.20	11.2	3.1	5730	<0.50	<0.50	15500	0.18	2.2	136	322	<20.0	322	1.6	<0.0050	932000	<0.10	1010	0.79	40700	497	<0.050	1250	0.65	83.0
		Dissolved	31.5	<0.50	3.2	37.4	0.34	0.15	322000	<0.50	2.9	0.80	6540	0.15	32500	8380	<0.20	10.2	1.9	5440	<0.50	<0.50	16900	<0.10	<0.10	90.4																
		Potentially Dissolved	615	<1.0	5.5	42.6	0.54	1.2	298000	2.8	3.3	4.6	8640	5.5	30800	8340	<0.20	7.9	2.4	5430	0.27J	0.011J	15500	0.15J	1.0	114																
MW-104	9/11/13	Total	757	<0.50	1.0	42.5	<0.20	2.7	244000	1.5	0.72	5.8	1220	8.7	21400	379	<0.20	13.0	1.7	5150	1.5	<0.50	15700	<0.10	1.7	693	101	<20.0	101	<1.0	<0.0050	696000	<0.10	821	0.64	20900	642	<0.050	2360	<0.50	33.0
		Dissolved	<4.0	<0.50	<0.50	17.2	<0.20	2.3	248000	<0.50	<0.50	1.3	<50.0	<0.10	21800	40.2	<0.20	12.4	2.0	5090	1.5	<0.50	16100	<0.10	<0.10	603																
		Potentially Dissolved	396	0.064J	0.49J	29.3	<0.50	2.8	248000	1.6	0.46J	4.6	791	7.0	21800	307	<0.20	10.7	1.4	5070	1.5	0.11J	16200	<1.0	0.54J	629																
MW-202	9/30/13	Total	DRY WELL - COULD NOT OBTAIN SAMPLE																																							
		Dissolved																																								
		Potentially Dissolved																																								
MW-204	9/26/13	Total	PIPE SEVERED APPROXIMATELY 3.5' BELOW GROUND SURFACE. COULD NOT INSERT BAILER. COULD NOT OBTAIN SAMPLE.																																							
		Dissolved																																								
		Potentially Dissolved																																								
P13-102	9/12/13	Total	2210	<0.50	2.2	68.9	<0.20	0.26	300000	2.2	15.5	4.8	5230	6.1	43000	12100	<0.20	3.5	3.9	5110	<0.50	<0.50	12000	0.12	3.8	98.3	147	<20.0	147	1.6	<0.0050	926000	<0.10	1020	0.80	31200	685	<0.050	1370	<0.50	102
		Dissolved	71.3	<0.50	0.97	30.5	<0.20	0.088	329000	<0.50	14.4	0.68	2610	0.22	43100	11700	<0.20	3.5	2.3	4840	<0.50	<0.50	11300	<0.10	0.20	65.7																
		Potentially Dissolved	960	<1.0	1.4	37.8	0.18J	0.21J	291000	1.6	14.5	3.5	4180	6.2	38300	11600	<0.20	2.4	2.7	4580	0.23J	0.021J	10800	0.11J	2.3	84.3																
P13-103	9/12/13	Total	7560	1.4	103	158	0.51	7.2	287000	11.3	9.1	441	99800	1430	36700	3310	<0.20	13.2	14.2	6590	7.1	13.1	12200	0.77	11.2	1620	81.5	<20.0	81.5	2.2	<0.0050	868000	<0.10	914	0.71	62700	643	<0.050	1220	0.58	912
		Dissolved	11.3	<0.50	30.6	21.0	<0.20	0.24	296000	<0.50	1.7	0.80	17000	0.37	32800	3050	<0.20	7.9	2.1	4650	<0.50	<0.50	12500	<0.10	<0.10	195																
		Potentially Dissolved	1720	0.42J	89.7	33.4	0.28J	4.4	273000	4.4	3.3	200	33400	1110	31100	3120	<0.20	5.7	4.8	4630	2.8	2.0	11400	0.35J	3.5	639																
CHV-101S	9/26/13	Total	8270	<0.50	7.0	316	0.76	0.97	245000	14.1	7.8	20.3	12400	18.6	25700	1590	<0.20	2.7	12.3	4970	<0.50	<0.50	14900	0.19	16.4	171	138	<20.0	138	<1.0	<0.0050	717000	0.22	780	0.60	40400	707	<0.050	1060	<0.50	404
		Dissolved	16.0	<0.50	<0.50	26.0	<0.20	0.17	269000	<0.50	<0.50	0.81	<50.0	0.18	21300	6.0	<0.20	<0.50	1.8	3200	<0.50	<0.50	14600	<0.10	<0.10	24.1																
		Potentially Dissolved	2130	0.32J	1.5	49.8	0.36J	0.91	249000	6.8	3.7	9.5	3690	10.0	22100	847	<0.20	0.24J	4.1	3580	0.93J	0.079J	13000	<1.0	4.4	110																
Angle Boreholes																																										
AT-2	9/26/13	Total	77700	0.67	32.3	698	7.6	23.5	82000	93.5	76.6	902	204000	956	67800	9040	<0.20	11.1	117	7600	3.5	3.4	1640	<2.0	105	3800	30.5	<20.0	30.5	<1.0	<0.0050	484000	<0.10	108	0.083	190000	42.4	<0.050	124	0.79	2950
		Dissolved	128	<0.50	<0.50	34.5	<0.20	<0.080	29100	<0.50	<0.50	1.3	236	1.0	1940	330	<0.20	9.2	0.62	1080	<0.50	<0.50	1480	<0.10	0.16	12.7																
		Potentially Dissolved	6580	0.43J	2.4	466	4.2	19.8	66100	4.8	46.5	430	29900	612	5470	6300	<0.20	2.3	31.2	1750	10.6	<0.50	1350	0.079J	11.7	1720																
BAH-01	9/26/13	Total	295000	<25.0	101	368	213	1460	346000	7680	128	88000	4260000	16200	33900	34700	<0.20	382	356	6650	11.5	173	13200	5.3	44.3	165000	81.9	<20.0

TABLE 4C - Quality Control Samples Analytical Sampling Results Summary, September 2013

Field Sample ID	Date Collected	Fraction	Metals (µg/L)																								Non-Metals (mg/L, unless otherwise indicated)													
			Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Alkalinity, Bicarbonate (CaCO3)	Alkalinity, Carbonate (CaCO3)	Alkalinity, Total as CaCO3	Chloride	Cyanide	Hardness (µg/L as CaCO3)	Nitrogen, NO2 plus NO3	Salinity, as dissolved solids	Salinity, as sea water (PSU)	Silica (µg/L)	Sulfate	Sulfide	TDS	TOC	TSS
DR-8 DUPLICATE OF DR-G	9/11/13	Total	3600	<0.50	4.3	133	0.35	0.93	40800	4.5	2.9	12.4	6310	21.8	7850	337	<0.20	1.8	7.7	1870	0.73	<0.50	2120	0.12	9.3	180	70.9	<20.0	70.9	1.4	<0.0050	134000	0.12	144	0.11	16800	31.2	<0.050	139	4.0	225
		Dissolved	84.7	<0.50	<0.50	71.5	<0.20	0.12	32800	<0.50	<0.50	2.0	115	0.44	4530	32.7	<0.20	0.71	0.97	865	<0.50	<0.50	2140	<0.10	0.43	18.3															
		Potentially Dissolved	504	0.070J	1.0	98.3	0.14J	0.61	39800	3.0	1.2	5.2	1430	10.7	6140	206	<0.20	0.46J	2.8	863	0.44J	0.021J	2150	0.037J	1.9	110															
DR-9 DUPLICATE OF DR-3	9/11/13	Total	576	<0.50	1.4	20.5	0.91	20.6	234000	<0.50	2.8	142	6490	11.9	18800	1810	<0.20	15.8	4.6	3020	<0.50	<0.50	12700	<0.10	0.11	3960	88.6	<20.0	88.6	<1.0	<0.0050	661000	<0.10	823	0.64	18100	617	<0.050	1070	<0.50	11.0
		Dissolved	9.2	<0.50	<0.50	20.5	0.36	18.6	238000	<0.50	2.8	6.2	227	<0.10	19100	1790	<0.20	14.4	6.3	3090	<0.50	<0.50	12800	<0.10	<0.10	3540															
		Potentially Dissolved	615	0.24J	1.0	20.2	0.81	20.9	241000	1.2	2.6	138	6550	12.3	18800	1890	<0.20	16.4	4.6	3050	0.14J	0.018J	13300	0.067J	<1.0	3980															
DR-10 DUPLICATE OF MW-103	9/12/13	Total	1310	<0.50	7.0	51.8	0.61	1.1	295000	1.9	3.5	5.4	9530	5.6	32900	8090	<0.20	9.6	2.8	5520	<0.50	<0.50	14900	0.16	1.5	127	319	<20.0	319	1.3	<0.0050	873000	0.60	1010	0.79	36100	504	<0.050	936	0.76	98.0
		Dissolved	19.8	<0.50	3.0	36.4	0.37	0.16	322000	0.58	3.0	0.50	6350	0.10	32400	8210	<0.20	10.2	2.1	5380	<0.50	<0.50	16900	<0.10	<0.10	89.1															
		Potentially Dissolved	625	<1.0	5.5	43.2	0.52	1.1	300000	1.8	3.3	4.7	8360	5.4	30200	8340	<0.20	8.4	2.1	5440	0.18J	0.034J	15200	0.18J	1.2	116															
DR-11 DUPLICATE OF DR-6	9/27/13	Total	127	<0.50	<0.50	18.9	<0.20	8.9	260000	<0.50	1.1	3.9	344	0.57	27100	1200	<0.20	12.6	3.3	4690	<0.50	<0.50	19100	<0.10	<0.10	1870	141	<20.0	141	<1.0	0.0051	761000	<0.10	815	0.63	18100	671	<0.050	1150	<0.50	11.0
		Dissolved	12.1	<0.50	<0.50	20.4	<0.20	8.6	288000	<0.50	1.1	1.7	92.0	0.21	28200	1240	<0.20	13.0	3.9	4660	<0.50	<0.50	18400	<0.10	<0.10	1910															
		Potentially Dissolved	16.9J	0.39J	0.26J	18.2	0.053J	8.4	249000	0.51J	1.1	3.8	330	0.55J	25500	1150	<0.20	12.1	1.8	4480	0.42J	<0.50	15600	0.041J	0.22J	1560															
DR-12 DUPLICATE OF DR-1	9/30/13	Total	153	<0.50	<0.50	53.2	<0.20	<0.080	26200	<0.50	<0.50	0.80	146	0.20	4370	11.3	<0.20	0.65	0.68	562	<0.50	<0.50	1920	<0.10	0.39	<5.0	65.6	<20.0	65.6	1.3	<0.0050	83400	<0.10	116	0.088	6040	25.1	<0.050	115	4.6	5.0
		Dissolved	25.6	<0.50	<0.50	54.4	<0.20	<0.080	30100	<0.50	<0.50	1.1	<50.0	<0.10	4500	9.1	<0.20	0.62	0.90	572	<0.50	<0.50	1940	<0.10	0.18	<5.0															
		Potentially Dissolved	64.8	0.065J	0.21J	54.8	<0.50	<0.50	27800	0.91J	<1.0	0.79J	153	0.25J	4240	11.5	<0.20	0.60J	0.32J	502	0.32J	<0.50	1890	0.10J	<1.0	3.7J															
FB- LAB	9/11/13	Total	<4.0	<0.50	<0.50	<0.30	<0.20	<0.080	23.4	<0.50	<0.50	0.64	<50.0	<0.10	<5.0	<0.50	<0.20	<0.50	<0.50	<20.0	<0.50	<0.50	415	<0.10	<0.10	<5.0	<20.0	<20.0	<20.0	<1.0	<0.0050	77.3	<0.10	21.0	0.022	<53.5	<1.0	<0.050	<5.0	<0.50	<5.0
		Dissolved	<4.0	<0.50	<0.50	<0.30	<0.20	<0.080	44.3	<0.50	<0.50	<0.50	<50.0	<0.10	12.0	<0.50	<0.20	<0.50	<0.50	39.3	<0.50	<0.50	449	<0.10	<0.10	<5.0															
		Potentially Dissolved	113	<1.0	<1.0	<1.0	<0.50	<0.50	25.6J	0.42J	<1.0	0.16J	7.2J	0.075J	<50.0	<1.0	<0.20	<1.0	0.10J	<500	<1.0	<0.50	443J	<1.0	<1.0	2.4J															
FB- FIELD	9/26/13	Total	11.5	<0.50	<0.50	<0.30	<0.20	<0.080	22.7	<0.50	<0.50	1.9	150	0.50	<5.0	1.1	<0.20	<0.50	<0.50	<20.0	<0.50	<0.50	466	<0.10	<0.10	5.4	<20.0	<20.0	<20.0	<1.0	<0.0050	75.6	<0.10	<6.4	<0.014	<53.5	<1.0	<0.050	11.0	<0.50	<5.0
		Dissolved	<4.0	<0.50	<0.50	<0.30	<0.20	<0.080	122	<0.50	<0.50	1.2	<50.0	<0.10	16.2	1.4	<0.20	<0.50	1.5	32.9	<0.50	<0.50	490	<0.10	<0.10	<5.0															
		Potentially Dissolved	<50.0	0.27J	<1.0	0.30J	<0.50	0.13J	55.7J	0.53J	0.24J	0.64J	<50.0	0.045J	10.2J	<1.0	<0.20	<1.0	0.39J	<500	<1.0	0.010J	435J	<1.0	0.17J	1.4J															

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TABLE 4D - Dolores River Composite Sampling Analytical Sampling Results Summary, September 2013

			Metals (µg/L)																							Non-Metals (mg/L, unless otherwise indicated)													
Field Sample ID	Date Collected	Fraction	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Alkalinity, Bicarbonate (CaCO3)	Alkalinity, Carbonate (CaCO3)	Alkalinity, Total as CaCO3	Chloride	Cyanide	Hardness (µg/L as CaCO3)	Nitrogen, NO2 plus NO3	Salinity, as dissolved solids	Salinity, as sea water (PSU)	Silica (µg/L)	Sulfate	Sulfide	TDS	TOC	TSS
DR-1 COMP	9/30/13	Total	Could not collect composite sample due to high, fast flows and unsafe access conditions																																						
		Dissolved																																							
		Potentially Dissolved																																							
DR-2 COMP	9/30/13	Total	153	<0.50	<0.50	51.9	<0.20	<0.080	27500	<0.50	<0.50	0.77	152	0.22	4570	30.6	<0.20	0.59	0.56	609	<0.50	<0.50	2020	<0.10	0.38	<5.0	66.4	<20.0	66.4	1.3	<0.0050	87400	<0.10	141	0.11	6150	29.3	<0.050	125	3.9	<5.0
		Dissolved	26.1	<0.50	<0.50	53.7	<0.20	<0.080	32000	<0.50	<0.50	1.4	<50.0	<0.10	4680	28.9	<0.20	0.65	1.7	602	<0.50	<0.50	2020	<0.10	0.18	<5.0															
		Potentially Dissolved	59.7	0.060J	0.11J	55.2	<0.50	<0.50	30300	0.53J	0.096J	0.87J	89.2	0.19J	4420	34.0	<0.20	0.66J	0.39J	537	0.42J	<0.50	1920	0.23J	<1.0	4.7J															
DR-7 COMP	9/30/13	Total	163	<0.50	<0.50	53.2	<0.20	0.097	30600	<0.50	<0.50	0.80	168	0.20	4960	43.7	<0.20	0.73	0.60	705	<0.50	<0.50	2270	<0.10	0.37	21.4	68.6	<20.0	68.6	1.3	<0.0050	96900	<0.10	134	0.10	6490	34.3	<0.050	138	4.0	<5.0
		Dissolved	22.9	<0.50	<0.50	53.7	<0.20	0.10	35000	<0.50	<0.50	1.2	<50.0	<0.10	5000	41.2	<0.20	0.79	0.66	663	<0.50	<0.50	2220	<0.10	0.16	17.2															
		Potentially Dissolved	60.5	0.055J	0.19J	52.2	<0.50	0.12J	31400	0.66J	0.096J	1.0	101	0.17J	4460	41.3	<0.20	0.68J	0.35J	539	0.25J	<0.50	2020	<1.0	<1.0	20.2															
DR-4-SW COMP	9/30/13	Total	120	<0.50	<0.50	56.2	<0.20	0.29	32700	<0.50	<0.50	1.3	136	0.30	4960	53.0	<0.20	0.72	0.60	661	<0.50	<0.50	2220	<0.10	0.30	62.4	74.4	<20.0	74.4	1.4	<0.0050	102000	<0.10	146	0.11	6730	36.3	<0.050	139	3.8	<5.0
		Dissolved	22.4	<0.50	<0.50	56.9	<0.20	0.32	37600	<0.50	<0.50	2.1	<50.0	<0.10	5270	56.9	<0.20	0.80	5.3	693	<0.50	<0.50	2270	<0.10	0.14	59.0															
		Potentially Dissolved	83.0	0.075J	0.29J	59.3	<0.50	0.32J	35800	1.0	0.13J	1.8	222	0.37J	4970	56.6	<0.20	0.74J	0.45J	628	0.34J	<0.50	2180	0.23J	<1.0	63.5															

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Table 5A - Relative Percent Difference (RPD) of Lab Analysis Between DR-G and DR-8

Analyte	Total Metals / Non Metals			Dissolved Metals			Potentially Dissolved Metals		
	DR-G (µg/L)	DR-8 (µg/L)	RPD (%)	DR-G (µg/L)	DR-8 (µg/L)	RPD (%)	DR-G (µg/L)	DR-8 (µg/L)	RPD (%)
Aluminum	2480	3600	36.84	33.4	84.7	86.88	647	504	-24.85
Antimony	<0.50	<0.50	-	<0.50	<0.50	-	0.11J	0.070J	-
Arsenic	2.9	4.3	38.89	<0.50	<0.50	-	1.3	1.0	-26.09
Barium	111	133	18.03	70.1	71.5	1.98	111	98.3	-12.14
Beryllium	0.27	0.35	25.81	<0.20	<0.20	-	0.19J	0.14J	-
Cadmium	0.64	0.93	36.94	0.12	0.12	0.00	0.81	0.61	-28.17
Calcium	38200	40800	6.58	32900	32800	-0.30	44200	39800	-10.48
Chromium	3.0	4.5	40.00	<0.50	<0.50	-	1.4	3.0	72.73
Cobalt	1.9	2.9	41.67	<0.50	<0.50	-	1.6	1.2	-28.57
Copper	8.3	12.4	39.61	2.0	2.0	0.00	6.4	5.2	-20.69
Iron	4030	6310	44.10	54.9	115	70.75	1860	1430	-26.14
Lead	15.3	21.8	35.04	0.20	0.44	75.00	13.7	10.7	-24.59
Magnesium	6640	7850	16.70	4520	4530	0.22	7040	6140	-13.66
Manganese	211	337	45.99	31.7	32.7	3.11	300	206	-37.15
Mercury	<0.20	<0.20	-	<0.20	<0.20	-	<0.20	<0.20	-
Molybdenum	1.4	1.8	25.00	0.66	0.71	7.30	0.56J	0.46J	-
Nickel	5.3	7.7	36.92	0.88	0.97	9.73	2.9	2.8	-3.51
Potassium	1600	1870	15.56	850	865	1.75	905	863	-4.75
Selenium	0.58	0.73	22.90	<0.50	<0.50	-	0.55J	0.44J	-
Silver	<0.50	<0.50	-	<0.50	<0.50	-	0.041J	0.021J	-
Sodium	2110	2120	0.47	2110	2140	1.41	2280	2150	-5.87
Thallium	<0.10	0.12	-	<0.10	<0.10	-	0.071J	0.037J	-
Vanadium	6.2	9.3	40.00	0.32	0.43	29.33	2.6	1.9	-31.11
Zinc	122	180	38.41	17.0	18.3	7.37	142	110	-25.40
Alkalinity, Bicarbonate (CaCO3, mg/L)	71.8	70.9	-1.26	-	-	-	-	-	-
Alkalinity, Carbonate (CaCO3, mg/L)	<20.0	<20.0	-	-	-	-	-	-	-
Alkalinity, Total as CaCO3 (mg/L)	71.8	70.9	-1.26	-	-	-	-	-	-
Chloride (mg/L)	1.4	1.4	0.00	-	-	-	-	-	-
Cyanide	<0.0050	<0.0050	-	-	-	-	-	-	-
Hardness	123000	134000	8.56	-	-	-	-	-	-
Nitrogen, NO2 plus NO3 (mg/L)	0.11	0.12	8.70	-	-	-	-	-	-
Salinity, as dissolved solids (mg/L)	139	144	3.53	-	-	-	-	-	-
Salinity, as sea water (PSU)	0.10	0.11	9.52	-	-	-	-	-	-
Silica	13700	16800	20.33	-	-	-	-	-	-
Sulfate (mg/L)	31.3	31.2	-0.32	-	-	-	-	-	-
Sulfide (mg/L)	<0.050	<0.050	-	-	-	-	-	-	-
TDS (mg/L)	145	139	-4.23	-	-	-	-	-	-
TOC (mg/L)	4.0	4.0	0.00	-	-	-	-	-	-
TSS (mg/L)	239	225	-6.03	-	-	-	-	-	-

Table 5B - Relative Percent Difference (RPD) of Lab Analysis Between DR-3 and DR-9

Analyte	Total Metals / Non Metals			Dissolved Metals			Potentially Dissolved Metals		
	DR-3 (µg/L)	DR-9 (µg/L)	RPD (%)	DR-3 (µg/L)	DR-9 (µg/L)	RPD (%)	DR-3 (µg/L)	DR-9 (µg/L)	RPD (%)
Aluminum	585	576	-1.55	8.0	9.2	13.95	621	615	-0.97
Antimony	<0.50	<0.50	-	<0.50	<0.50	-	0.24J	0.24J	-
Arsenic	1.4	1.4	0.00	<0.50	<0.50	-	1.1	1.0	-9.52
Barium	20.6	20.5	-0.49	20.4	20.5	0.49	20.8	20.2	-2.93
Beryllium	0.82	0.91	10.40	0.33	0.36	8.70	0.77	0.81	5.06
Cadmium	21.0	20.6	-1.92	18.8	18.6	-1.07	21.6	20.9	-3.29
Calcium	255000	234000	-8.59	240000	238000	-0.84	245000	241000	-1.65
Chromium	<0.50	<0.50	-	<0.50	<0.50	-	1.2	1.2	0.00
Cobalt	2.8	2.8	0.00	2.7	2.8	3.64	2.6	2.6	0.00
Copper	142	142	0.00	7.0	6.2	-12.12	141	138	-2.15
Iron	6470	6490	0.31	237	227	-4.31	6800	6550	-3.75
Lead	12.2	11.9	-2.49	<0.10	<0.10	-	12.5	12.3	-1.61
Magnesium	18700	18800	0.53	18900	19100	1.05	19400	18800	-3.14
Manganese	1990	1810	-9.47	1810	1790	-1.11	1930	1890	-2.09
Mercury	<0.20	<0.20	-	<0.20	<0.20	-	<0.20	<0.20	-
Molybdenum	16.0	15.8	-1.26	14.4	14.4	0.00	17.1	16.4	-4.18
Nickel	4.6	4.6	0.00	5.6	6.3	11.76	4.6	4.6	0.00
Potassium	3020	3020	0.00	3060	3090	0.98	3190	3050	-4.49
Selenium	<0.50	<0.50	-	<0.50	<0.50	-	0.21J	0.14J	-
Silver	<0.50	<0.50	-	<0.50	<0.50	-	0.045J	0.018J	-
Sodium	12700	12700	0.00	12700	12800	0.78	13800	13300	-3.69
Thallium	<0.10	<0.10	-	<0.10	<0.10	-	0.11J	0.067J	-
Vanadium	0.13	0.11	-16.67	<0.10	<0.10	-	<1.0	<1.0	-
Zinc	4380	3960	-10.07	3570	3540	-0.84	3940	3980	1.01
Alkalinity, Bicarbonate (CaCO3, mg/L)	85.8	88.6	3.21	-	-	-	-	-	-
Alkalinity, Carbonate (CaCO3, mg/L)	<20.0	<20.0	-	-	-	-	-	-	-
Alkalinity, Total as CaCO3 (mg/L)	85.8	88.6	3.21	-	-	-	-	-	-
Chloride (mg/L)	<1.0	<1.0	-	-	-	-	-	-	-
Cyanide	<0.0050	<0.0050	-	-	-	-	-	-	-
Hardness	715000	661000	-7.85	-	-	-	-	-	-
Nitrogen, NO2 plus NO3 (mg/L)	0.10	<0.10	-	-	-	-	-	-	-
Salinity, as dissolved solids (mg/L)	797	823	3.21	-	-	-	-	-	-
Salinity, as sea water (PSU)	0.62	0.64	3.17	-	-	-	-	-	-
Silica	19600	18100	-7.96	-	-	-	-	-	-
Sulfate (mg/L)	634	617	-2.72	-	-	-	-	-	-
Sulfide (mg/L)	<0.050	<0.050	-	-	-	-	-	-	-
TDS (mg/L)	1050	1070	1.89	-	-	-	-	-	-
TOC (mg/L)	<0.50	<0.50	-	-	-	-	-	-	-
TSS (mg/L)	17.0	11.0	-42.86	-	-	-	-	-	-

Table 5C - Relative Percent Difference (RPD) of Lab Analysis Between MW-103 and DR-10

Analyte	Total Metals / Non Metals			Dissolved Metals			Potentially Dissolved Metals		
	MW-103 (µg/L)	DR-10 (µg/L)	RPD (%)	MW-103 (µg/L)	DR-10 (µg/L)	RPD (%)	MW-103 (µg/L)	DR-10 (µg/L)	RPD (%)
Aluminum	1750	1310	-28.76	31.5	19.8	-45.61	615	625	1.61
Antimony	<0.50	<0.50	-	<0.50	<0.50	-	<1.0	<1.0	-
Arsenic	8.4	7.0	-18.18	3.2	3.0	-6.45	5.5	5.5	0.00
Barium	59.4	51.8	-13.67	37.4	36.4	-2.71	42.6	43.2	1.40
Beryllium	0.56	0.61	8.55	0.34	0.37	8.45	0.54	0.52	-3.77
Cadmium	1.3	1.1	-16.67	0.15	0.16	6.45	1.2	1.1	-8.70
Calcium	315000	295000	-6.56	322000	322000	0.00	298000	300000	0.67
Chromium	2.2	1.9	-14.63	<0.50	0.58	-	2.8	1.8	-43.48
Cobalt	3.6	3.5	-2.82	2.9	3.0	3.39	3.3	3.3	0.00
Copper	6.3	5.4	-15.38	0.80	0.50	-46.15	4.6	4.7	2.15
Iron	10700	9530	-11.57	6540	6350	-2.95	8640	8360	-3.29
Lead	6.4	5.6	-13.33	0.15	0.10	-40.00	5.5	5.4	-1.83
Magnesium	35600	32900	-7.88	32500	32400	-0.31	30800	30200	-1.97
Manganese	8570	8090	-5.76	8380	8210	-2.05	8340	8340	0.00
Mercury	<0.20	<0.20	-	<0.20	<0.20	-	<0.20	<0.20	-
Molybdenum	11.2	9.6	-15.38	10.2	10.2	0.00	7.9	8.4	6.13
Nickel	3.1	2.8	-10.17	1.9	2.1	10.00	2.4	2.1	-13.33
Potassium	5730	5520	-3.73	5440	5380	-1.11	5430	5440	0.18
Selenium	<0.50	<0.50	-	<0.50	<0.50	-	0.27J	0.18J	-
Silver	<0.50	<0.50	-	<0.50	<0.50	-	0.011J	0.034J	-
Sodium	15500	14900	-3.95	16900	16900	0.00	15500	15200	-1.95
Thallium	0.18	0.16	-11.76	<0.10	<0.10	-	0.15J	0.18J	-
Vanadium	2.2	1.5	-37.84	<0.10	<0.10	-	1.0	1.2	18.18
Zinc	136	127	-6.84	90.4	89.1	-1.45	114	116	1.74
Alkalinity, Bicarbonate (CaCO3, mg/L)	322	319	-0.94	-	-	-	-	-	-
Alkalinity, Carbonate (CaCO3, mg/L)	<20.0	<20.0	-	-	-	-	-	-	-
Alkalinity, Total as CaCO3 (mg/L)	322	319	-0.94	-	-	-	-	-	-
Chloride (mg/L)	1.6	1.3	-20.69	-	-	-	-	-	-
Cyanide	<0.0050	<0.0050	-	-	-	-	-	-	-
Hardness	932000	873000	-6.54	-	-	-	-	-	-
Nitrogen, NO2 plus NO3 (mg/L)	<0.10	0.60	-	-	-	-	-	-	-
Salinity, as dissolved solids (mg/L)	1010	1010	0.00	-	-	-	-	-	-
Salinity, as sea water (PSU)	0.79	0.79	0.00	-	-	-	-	-	-
Silica	40700	36100	-11.98	-	-	-	-	-	-
Sulfate (mg/L)	497	504	1.40	-	-	-	-	-	-
Sulfide (mg/L)	<0.050	<0.050	-	-	-	-	-	-	-
TDS (mg/L)	1250	936	-28.73	-	-	-	-	-	-
TOC (mg/L)	0.65	0.76	15.60	-	-	-	-	-	-
TSS (mg/L)	83.0	98.0	16.57	-	-	-	-	-	-

Table 5D - Relative Percent Difference (RPD) of Lab Analysis Between DR-6 and DR-11

Analyte	Total Metals / Non Metals			Dissolved Metals			Potentially Dissolved Metals		
	DR-6 (µg/L)	DR-11 (µg/L)	RPD (%)	DR-6 (µg/L)	DR-11 (µg/L)	RPD (%)	DR-6 (µg/L)	DR-11 (µg/L)	RPD (%)
Aluminum	21.0	127	143.24	<4.0	12.1	-	16.4J	16.9J	-
Antimony	<0.50	<0.50	-	<0.50	<0.50	-	0.38J	0.39J	-
Arsenic	<0.50	<0.50	-	<0.50	<0.50	-	0.20J	0.26J	-
Barium	19.2	18.9	-1.57	20.6	20.4	-0.98	18.5	18.2	-1.63
Beryllium	<0.20	<0.20	-	<0.20	<0.20	-	0.053J	0.053J	-
Cadmium	9.0	8.9	-1.12	8.4	8.6	2.35	8.4	8.4	0.00
Calcium	254000	260000	2.33	288000	288000	0.00	259000	249000	-3.94
Chromium	<0.50	<0.50	-	<0.50	<0.50	-	0.61J	0.51J	-
Cobalt	1.1	1.1	0.00	1.3	1.1	-16.67	1.1	1.1	0.00
Copper	3.9	3.9	0.00	1.3	1.7	26.67	4.0	3.8	-5.13
Iron	342	344	0.58	<50.0	92.0	-	337	330	-2.10
Lead	0.56	0.57	1.77	<0.10	0.21	-	0.62J	0.55J	-
Magnesium	26400	27100	2.62	28500	28200	-1.06	25700	25500	-0.78
Manganese	1170	1200	2.53	1260	1240	-1.60	1150	1150	0.00
Mercury	<0.20	<0.20	-	<0.20	<0.20	-	<0.20	<0.20	-
Molybdenum	12.4	12.6	1.60	13.0	13.0	0.00	12.3	12.1	-1.64
Nickel	3.2	3.3	3.08	8.4	3.9	-73.17	1.9	1.8	-5.41
Potassium	4540	4690	3.25	4630	4660	0.65	4720	4480	-5.22
Selenium	<0.50	<0.50	-	0.53	<0.50	-	0.41J	0.42J	-
Silver	<0.50	<0.50	-	<0.50	<0.50	-	<0.50	<0.50	-
Sodium	19000	19100	0.52	18500	18400	-0.54	16400	15600	-5.00
Thallium	<0.10	<0.10	-	<0.10	<0.10	-	0.041J	0.041J	-
Vanadium	<0.10	<0.10	-	<0.10	<0.10	-	0.25J	0.22J	-
Zinc	1990	1870	-6.22	1870	1910	2.12	1580	1560	-1.27
Alkalinity, Bicarbonate (CaCO3, mg/L)	144	141	-2.11	-	-	-	-	-	-
Alkalinity, Carbonate (CaCO3, mg/L)	<20.0	<20.0	-	-	-	-	-	-	-
Alkalinity, Total as CaCO3 (mg/L)	144	141	-2.11	-	-	-	-	-	-
Chloride (mg/L)	<1.0	<1.0	-	-	-	-	-	-	-
Cyanide	<0.0050	0.0051	-	-	-	-	-	-	-
Hardness	744000	761000	2.26	-	-	-	-	-	-
Nitrogen, NO2 plus NO3 (mg/L)	<0.10	<0.10	-	-	-	-	-	-	-
Salinity, as dissolved solids (mg/L)	821	815	-0.73	-	-	-	-	-	-
Salinity, as sea water (PSU)	0.64	0.63	-1.57	-	-	-	-	-	-
Silica	17700	18100	2.23	-	-	-	-	-	-
Sulfate (mg/L)	774	671	-14.26	-	-	-	-	-	-
Sulfide (mg/L)	<0.050	<0.050	-	-	-	-	-	-	-
TDS (mg/L)	1170	1150	-1.72	-	-	-	-	-	-
TOC (mg/L)	<0.50	<0.50	-	-	-	-	-	-	-
TSS (mg/L)	12.0	11.0	-8.70	-	-	-	-	-	-

Table 5E - Relative Percent Difference (RPD) of Lab Analysis Between DR-1 and DR-12

Analyte	Total Metals / Non Metals			Dissolved Metals			Potentially Dissolved Metals		
	DR-1 (µg/L)	DR-12 (µg/L)	RPD (%)	DR-1 (µg/L)	DR-12 (µg/L)	RPD (%)	DR-1 (µg/L)	DR-12 (µg/L)	RPD (%)
Aluminum	146	153	4.68	25.2	25.6	1.57	69.7	64.8	-7.29
Antimony	<0.50	<0.50	-	<0.50	<0.50	-	0.075J	0.065J	-
Arsenic	<0.50	<0.50	-	<0.50	<0.50	-	0.23J	0.21J	-
Barium	54.6	53.2	-2.60	54.6	54.4	-0.37	54.1	54.8	1.29
Beryllium	<0.20	<0.20	-	<0.20	<0.20	-	<0.50	<0.50	-
Cadmium	<0.080	<0.080	-	<0.080	<0.080	-	<0.50	<0.50	-
Calcium	27500	26200	-4.84	30300	30100	-0.66	28900	27800	-3.88
Chromium	<0.50	<0.50	-	<0.50	<0.50	-	0.79J	0.91J	-
Cobalt	<0.50	<0.50	-	<0.50	<0.50	-	0.086J	<1.0	-
Copper	1.0	0.80	-22.22	1.4	1.1	-24.00	0.75J	0.79J	-
Iron	127	146	13.92	<50.0	<50.0	-	183	153	-17.86
Lead	0.18	0.20	10.53	<0.10	<0.10	-	0.23J	0.25J	-
Magnesium	4480	4370	-2.49	4420	4500	1.79	4290	4240	-1.17
Manganese	10.9	11.3	3.60	11.0	9.1	-18.91	11.4	11.5	0.87
Mercury	<0.20	<0.20	-	<0.20	<0.20	-	<0.20	<0.20	-
Molybdenum	0.65	0.65	0.00	0.68	0.62	-9.23	0.80J	0.60J	-
Nickel	<0.50	0.68	-	5.0	0.90	-138.98	0.37J	0.32J	-
Potassium	564	562	-0.36	555	572	3.02	525	502	-4.48
Selenium	<0.50	<0.50	-	<0.50	<0.50	-	0.39J	0.32J	-
Silver	<0.50	<0.50	-	<0.50	<0.50	-	0.026J	<0.50	-
Sodium	1990	1920	-3.58	1910	1940	1.56	1950	1850	-5.26
Thallium	<0.10	<0.10	-	<0.10	<0.10	-	0.28J	0.10J	-
Vanadium	0.39	0.39	0.00	0.17	0.18	5.71	<1.0	<1.0	-
Zinc	<5.0	<5.0	-	15.8	<5.0	-	6.0J	3.7J	-
Alkalinity, Bicarbonate (CaCO3, mg/L)	65.5	65.6	0.15	-	-	-	-	-	-
Alkalinity, Carbonate (CaCO3, mg/L)	<20.0	<20.0	-	-	-	-	-	-	-
Alkalinity, Total as CaCO3 (mg/L)	65.5	65.6	0.15	-	-	-	-	-	-
Chloride (mg/L)	1.3	1.3	0.00	-	-	-	-	-	-
Cyanide	<0.0050	<0.0050	-	-	-	-	-	-	-
Hardness	87100	83400	-4.34	-	-	-	-	-	-
Nitrogen, NO2 plus NO3 (mg/L)	<0.10	<0.10	-	-	-	-	-	-	-
Salinity, as dissolved solids (mg/L)	116	116	0.00	-	-	-	-	-	-
Salinity, as sea water (PSU)	0.089	0.088	-1.13	-	-	-	-	-	-
Silica	6050	6040	-0.17	-	-	-	-	-	-
Sulfate (mg/L)	25.2	25.1	-0.40	-	-	-	-	-	-
Sulfide (mg/L)	<0.050	<0.050	-	-	-	-	-	-	-
TDS (mg/L)	110	115	4.44	-	-	-	-	-	-
TOC (mg/L)	4.5	4.6	2.20	-	-	-	-	-	-
TSS (mg/L)	<5.0	5.0	-	-	-	-	-	-	-

Appendix C

Project Narrative and Laboratory Analytical Reports

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

October 07, 2013

Mark DeFriez
Anderson Engineering Company I
977 W 2100 S.
Salt Lake City, UT 84119

RE: Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

Dear Mark DeFriez:
Enclosed are the analytical results for sample(s) received by the laboratory on September 13, 2013. The results relate only to the within this report conform to the most current version of the TNI standards, BP LaMP Technical Requirements Revision 10.1, and any applicable Quality Assurance Project Plan (QAPP), or Work Plan unless otherwise narrated in the body of this report.

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

Sincerely,

Heather M. Wilson

Heather Wilson

heather.wilson@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: Pace
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Hawaii Certification #Pace
Idaho Certification #: MN00064
Illinois Certification #: 200011
Kansas Certification #: E-10167
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Maryland Certification #: 322
Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT CERT0092
Nebraska Certification #: Pace
Nevada Certification #: MN_00064
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia/DCLS Certification #: 002521
Virginia/VELAP Certification #: 460163
Washington Certification #: C754
West Virginia Certification #: 382
Wisconsin Certification #: 999407970

Montana Certification IDs
602 South 25th Street, Billings, MT 59101
EPA Region 8 Certification #: 8TMS-Q
Idaho Certification #: MT00012
Montana Certification #: MT CERT0040
NVLAP Certification #: 101292-0
Minnesota Dept of Health Certification #: 030-999-442
Washington Department of Ecology #: C993

Green Bay Certification IDs
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 11888
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
US Dept of Agriculture #: S-76505
Wisconsin Certification #: 405132750

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: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60153027001	**DR-3_20130911**	Water	09/11/13 15:35	09/13/13 10:40
60153027002	**DR-5_20130911**	Water	09/11/13 15:25	09/13/13 10:40
60153027003	**DR-G_20130911**	Water	09/11/13 10:25	09/13/13 10:40
60153027004	**DR-8_20130911**	Water	09/11/13 10:30	09/13/13 10:40
60153027005	**DR-9_20130911**	Water	09/11/13 15:36	09/13/13 10:40
60153027006	**GW-1_20130911**	Water	09/11/13 11:35	09/13/13 10:40
60153027007	**GW-5_20130911**	Water	09/11/13 12:40	09/13/13 10:40
60153027008	**MW-104_20130911**	Water	09/11/13 15:03	09/13/13 10:40
60153027009	**MW-4 DEEP_20130911**	Water	09/11/13 14:30	09/13/13 10:40
60153027010	**MW-5 DEEP_20130911**	Water	09/11/13 13:30	09/13/13 10:40
60153027011	**MW-5 SHALLOW_20130911**	Water	09/11/13 13:25	09/13/13 10:40
60153027012	**FB-LAB_20130911**	Water	09/11/13 16:20	09/13/13 10:40

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SAMPLE ANALYTE COUNT

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60153027001	**DR-3_20130911**	EPA 200.7	JGP	4	PASI-K
		EPA 200.8	TT3	25	PASI-M
		EPA 200.8	TT3	23	PASI-M
		EPA 200.8	SMW	19	PASI-K
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	TDS	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	
		SM 2320B	JMC	3	PASI-K
		SM 2540C	RAH	1	PASI-K
		SM 2540D	RAH	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	TJJ	1	PASI-G
60153027002	**DR-5_20130911**	EPA 200.7	JGP	4	PASI-K
		EPA 200.8	TT3	25	PASI-M
		EPA 200.8	TT3	23	PASI-M
		EPA 200.8	SMW	19	PASI-K
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	TDS	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	
		SM 2320B	JMC	3	PASI-K
		SM 2540C	RAH	1	PASI-K
		SM 2540D	RAH	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	TJJ	1	PASI-G
60153027003	**DR-G_20130911**	EPA 200.7	JGP	4	PASI-K
		EPA 200.8	TT3	25	PASI-M
		EPA 200.8	TT3	23	PASI-M

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SAMPLE ANALYTE COUNT

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 200.8	SMW	19	PASI-K
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	TDS	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	
		SM 2320B	JMC	3	PASI-K
		SM 2540C	RAH	1	PASI-K
		SM 2540D	RAH	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	TJJ	1	PASI-G
60153027004	**DR-8_20130911**	EPA 200.7	JGP	4	PASI-K
		EPA 200.8	TT3	25	PASI-M
		EPA 200.8	TT3	23	PASI-M
		EPA 200.8	SMW	19	PASI-K
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	TDS	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	
		SM 2320B	JMC	3	PASI-K
		SM 2540C	RAH	1	PASI-K
		SM 2540D	RAH	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	TJJ	1	PASI-G
60153027005	**DR-9_20130911**	EPA 200.7	JGP	4	PASI-K
		EPA 200.8	TT3	25	PASI-M
		EPA 200.8	TT3	23	PASI-M
		EPA 200.8	SMW	19	PASI-K
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	WBS	1	PASI-M

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SAMPLE ANALYTE COUNT

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 245.1	TDS	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	
		SM 2320B	JMC	3	PASI-K
		SM 2540C	RAH	1	PASI-K
		SM 2540D	RAH	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	TJJ	1	PASI-G
60153027006	**GW-1_20130911**	EPA 200.7	JGP	4	PASI-K
		EPA 200.8	TT3	25	PASI-M
		EPA 200.8	TT3	23	PASI-M
		EPA 200.8	SMW	19	PASI-K
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	TDS	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	
		SM 2320B	JMC	3	PASI-K
		SM 2540C	RAH	1	PASI-K
		SM 2540D	RAH	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	TJJ	1	PASI-G
60153027007	**GW-5_20130911**	EPA 200.7	JGP	4	PASI-K
		EPA 200.8	TT3	25	PASI-M
		EPA 200.8	TT3	23	PASI-M
		EPA 200.8	SMW	19	PASI-K
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	TDS	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	

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SAMPLE ANALYTE COUNT

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2320B	JMC1	3	PASI-K
		SM 2540C	RAH	1	PASI-K
		SM 2540D	RAH	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	TJJ	1	PASI-G
60153027008	**MW-104_20130911**	EPA 200.7	JGP	4	PASI-K
		EPA 200.8	TT3	25	PASI-M
		EPA 200.8	TT3	23	PASI-M
		EPA 200.8	SMW	19	PASI-K
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	TDS	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	
		SM 2320B	JMC	3	PASI-K
		SM 2540C	RAH	1	PASI-K
		SM 2540D	RAH	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	TJJ	1	PASI-G
60153027009	**MW-4 DEEP_20130911**	EPA 200.7	JGP	4	PASI-K
		EPA 200.8	TT3	25	PASI-M
		EPA 200.8	TT3	23	PASI-M
		EPA 200.8	SMW	19	PASI-K
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	TDS	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	
		SM 2320B	JMC	3	PASI-K
		SM 2540C	RAH	1	PASI-K
		SM 2540D	RAH	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	TJJ	1	PASI-G
60153027010	**MW-5 DEEP_20130911**	EPA 200.7	JGP	4	PASI-K
		EPA 200.8	TT3	25	PASI-M
		EPA 200.8	TT3	23	PASI-M
		EPA 200.8	SMW	19	PASI-K
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	TDS	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	
		SM 2320B	JMC	3	PASI-K
		SM 2540C	RAH	1	PASI-K
		SM 2540D	RAH	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	TJJ	1	PASI-G
60153027011	**MW-5 SHALLOW_20130911**	EPA 200.7	JGP	4	PASI-K
		EPA 200.8	TT3	25	PASI-M
		EPA 200.8	TT3	23	PASI-M
		EPA 200.8	SMW	19	PASI-K
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	TDS	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	
		SM 2320B	JMC	3	PASI-K
		SM 2540C	RAH	1	PASI-K
		SM 2540D	RAH	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	AJM	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	TJJ	1	PASI-G
60153027012	**FB-LAB_20130911**	EPA 200.7	JGP	4	PASI-K
		EPA 200.8	TT3	25	PASI-M
		EPA 200.8	TT3	23	PASI-M
		EPA 200.8	SMW	19	PASI-K
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	TDS	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	
		SM 2320B	JMC	3	PASI-K
		SM 2540C	RAH	1	PASI-K
		SM 2540D	RAH	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	TJJ	1	PASI-G

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PROJECT NARRATIVE

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

Method: **EPA 200.7**
Description: 200.7 Potentially Diss. Metals
Client: BP Anderson Engineering Company Inc.
Date: October 07, 2013

General Information:
12 samples were analyzed for EPA 200.7. 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 200.7 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: MPRP/24390

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60153027001,60153027010

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

- MS (Lab ID: 1258699)
  - Calcium, Dissolved
- MS (Lab ID: 1258701)
  - Calcium, Dissolved

Additional Comments:

Sample Comments:

All reported results confirmed for total vs. dissolved metals (Ni)

- DR-3_20130911 (Lab ID: 60153027001)
- DR-5_20130911 (Lab ID: 60153027002)
- DR-9_20130911 (Lab ID: 60153027005)
- MW-5 DEEP_20130911 (Lab ID: 60153027010)

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PROJECT NARRATIVE

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

Method: **EPA 200.8**
Description: 200.8 MET ICPMS
Client: BP Anderson Engineering Company Inc.
Date: October 07, 2013

General Information:
12 samples were analyzed for EPA 200.8. 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 200.8 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.

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: MPRP/41971

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60153027002,60153027011

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

- MS (Lab ID: 1528891)
  - Calcium
  - Manganese
  - Zinc
- MS (Lab ID: 1528893)
  - Aluminum
  - Calcium
  - Copper
  - Iron
  - Lead
  - Magnesium
  - Manganese
  - Sodium
  - Zinc

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PROJECT NARRATIVE

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

Method: **EPA 200.8**
Description: 200.8 MET ICPMS
Client: BP Anderson Engineering Company Inc.
Date: October 07, 2013

QC Batch: MPRP/41971

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60153027002,60153027011

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

- MSD (Lab ID: 1528892)
  - Calcium
  - Manganese
  - Zinc

Additional Comments:

Sample Comments:

All reported results confirmed for total vs. dissolved metals (Ni)

- DR-3_20130911 (Lab ID: 60153027001)
- DR-5_20130911 (Lab ID: 60153027002)
- DR-9_20130911 (Lab ID: 60153027005)
- MW-5 DEEP_20130911 (Lab ID: 60153027010)

Analyte Comments:

QC Batch: MPRP/41971

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MS (Lab ID: 1528891)
  - Calcium
  - Manganese
  - Zinc
- MS (Lab ID: 1528893)
  - Calcium
  - Iron
  - Magnesium
  - Manganese
  - Lead
  - Zinc
- MSD (Lab ID: 1528892)
  - Calcium
  - Manganese
  - Zinc

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PROJECT NARRATIVE

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

Method: **EPA 200.8**
Description: 200.8 MET ICPMS, Dissolved
Client: BP Anderson Engineering Company Inc.
Date: October 07, 2013

General Information:
12 samples were analyzed for EPA 200.8. 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 200.8 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.

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: MPRP/41970

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60153027002,60153027011

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

- MS (Lab ID: 1528883)
  - Calcium, Dissolved
  - Magnesium, Dissolved
  - Manganese, Dissolved
  - Zinc, Dissolved
- MS (Lab ID: 1528885)
  - Aluminum, Dissolved
  - Calcium, Dissolved
  - Iron, Dissolved
  - Lead, Dissolved
  - Magnesium, Dissolved
  - Manganese, Dissolved
  - Sodium, Dissolved
  - Zinc, Dissolved

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PROJECT NARRATIVE

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

Method: **EPA 200.8**
Description: 200.8 MET ICPMS, Dissolved
Client: BP Anderson Engineering Company Inc.
Date: October 07, 2013

QC Batch: MPRP/41970

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60153027002,60153027011

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

- MSD (Lab ID: 1528884)
  - Calcium, Dissolved
  - Magnesium, Dissolved

Additional Comments:

Sample Comments:

All reported results confirmed for total vs. dissolved metals (Ni)

- DR-3_20130911 (Lab ID: 60153027001)
- DR-5_20130911 (Lab ID: 60153027002)
- DR-9_20130911 (Lab ID: 60153027005)
- MW-5 DEEP_20130911 (Lab ID: 60153027010)

Analyte Comments:

QC Batch: MPRP/41970

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MS (Lab ID: 1528883)
  - Calcium, Dissolved
  - Manganese, Dissolved
  - Zinc, Dissolved
- MS (Lab ID: 1528885)
  - Calcium, Dissolved
  - Iron, Dissolved
  - Magnesium, Dissolved
  - Manganese, Dissolved
  - Zinc, Dissolved
- MSD (Lab ID: 1528884)
  - Calcium, Dissolved
  - Manganese, Dissolved
  - Zinc, Dissolved

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PROJECT NARRATIVE

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

Method: **EPA 200.8**
Description: 200.8 Potentially Diss. Metals
Client: BP Anderson Engineering Company Inc.
Date: October 07, 2013

General Information:
12 samples were analyzed for EPA 200.8. 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 200.8 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.

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

QC Batch: MPRP/24391

B: Analyte was detected in the associated method blank.

- BLANK for HBN 308296 [MPRP/243 (Lab ID: 1258706)
  - Lead, Dissolved
  - Molybdenum, Dissolved

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: MPRP/24391

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60153027002,60153027011

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

- MS (Lab ID: 1258710)
  - Aluminum, Dissolved
  - Copper, Dissolved
  - Iron, Dissolved
  - Lead, Dissolved
  - Manganese, Dissolved
- MSD (Lab ID: 1258709)
  - Manganese, Dissolved

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PROJECT NARRATIVE

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

Method: **EPA 200.8**
Description: 200.8 Potentially Diss. Metals
Client: BP Anderson Engineering Company Inc.
Date: October 07, 2013

QC Batch: MPRP/24468

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60153027006,60153027010

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

- MS (Lab ID: 1262042)
  - Zinc, Dissolved
- MSD (Lab ID: 1262041)
  - Zinc, Dissolved

R1: RPD value was outside control limits.

- MSD (Lab ID: 1262041)
  - Zinc, Dissolved

Additional Comments:

Sample Comments:

All reported results confirmed for total vs. dissolved metals (Ni)

- DR-3_20130911 (Lab ID: 60153027001)
- DR-5_20130911 (Lab ID: 60153027002)
- DR-9_20130911 (Lab ID: 60153027005)
- MW-5 DEEP_20130911 (Lab ID: 60153027010)

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PROJECT NARRATIVE

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

Method: **EPA 245.1**
Description: 245.1 Mercury
Client: BP Anderson Engineering Company Inc.
Date: October 07, 2013

General Information:
12 samples were analyzed for EPA 245.1. 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 245.1 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: MERP/9286

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60153027001,60153027011

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

- MS (Lab ID: 1534550)
  - Mercury

Additional Comments:

Sample Comments:

All reported results confirmed for total vs. dissolved metals (Ni)

- DR-3_20130911 (Lab ID: 60153027001)
- DR-5_20130911 (Lab ID: 60153027002)
- DR-9_20130911 (Lab ID: 60153027005)
- MW-5 DEEP_20130911 (Lab ID: 60153027010)

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PROJECT NARRATIVE

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

Method: **EPA 245.1**
Description: 245.1 Mercury, Dissolved
Client: BP Anderson Engineering Company Inc.
Date: October 07, 2013

General Information:
12 samples were analyzed for EPA 245.1. 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 245.1 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:

Sample Comments:

All reported results confirmed for total vs. dissolved metals (Ni)
- DR-3_20130911 (Lab ID: 60153027001)
- DR-5_20130911 (Lab ID: 60153027002)
- DR-9_20130911 (Lab ID: 60153027005)
- MW-5 DEEP_20130911 (Lab ID: 60153027010)

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PROJECT NARRATIVE

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

Method: **EPA 245.1**
Description: 245.1 Potentially Diss Mercury
Client: BP Anderson Engineering Company Inc.
Date: October 07, 2013

General Information:
12 samples were analyzed for EPA 245.1. 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 245.1 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:

Sample Comments:

All reported results confirmed for total vs. dissolved metals (Ni)
- DR-3_20130911 (Lab ID: 60153027001)
- DR-5_20130911 (Lab ID: 60153027002)
- DR-9_20130911 (Lab ID: 60153027005)
- MW-5 DEEP_20130911 (Lab ID: 60153027010)

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PROJECT NARRATIVE

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

Method: **SM 2510B**
Description: 2510B Specific Conductance
Client: BP Anderson Engineering Company Inc.
Date: October 07, 2013

General Information:
12 samples were analyzed for SM 2510B. 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.

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

Additional Comments:

Sample Comments:

All reported results confirmed for total vs. dissolved metals (Ni)

- DR-3_20130911 (Lab ID: 60153027001)
- DR-5_20130911 (Lab ID: 60153027002)
- DR-9_20130911 (Lab ID: 60153027005)
- MW-5 DEEP_20130911 (Lab ID: 60153027010)

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PROJECT NARRATIVE

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

Method: **Calculated**
Description: Salinity
Client: BP Anderson Engineering Company Inc.
Date: October 07, 2013

General Information:
12 samples were analyzed for Calculated. 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.

Additional Comments:

Sample Comments:

All reported results confirmed for total vs. dissolved metals (Ni)
- DR-3_20130911 (Lab ID: 60153027001)
- DR-5_20130911 (Lab ID: 60153027002)
- DR-9_20130911 (Lab ID: 60153027005)
- MW-5 DEEP_20130911 (Lab ID: 60153027010)

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PROJECT NARRATIVE

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

Method: **SM 2320B**
Description: 2320B Alkalinity
Client: BP Anderson Engineering Company Inc.
Date: October 07, 2013

General Information:
12 samples were analyzed for SM 2320B. 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:

Sample Comments:

All reported results confirmed for total vs. dissolved metals (Ni)

- DR-3_20130911 (Lab ID: 60153027001)
- DR-5_20130911 (Lab ID: 60153027002)
- DR-9_20130911 (Lab ID: 60153027005)
- MW-5 DEEP_20130911 (Lab ID: 60153027010)

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PROJECT NARRATIVE

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: BP Anderson Engineering Company Inc.
Date: October 07, 2013

General Information:
12 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:

Sample Comments:

All reported results confirmed for total vs. dissolved metals (Ni)

- DR-3_20130911 (Lab ID: 60153027001)
- DR-5_20130911 (Lab ID: 60153027002)
- DR-9_20130911 (Lab ID: 60153027005)
- MW-5 DEEP_20130911 (Lab ID: 60153027010)

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PROJECT NARRATIVE

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

Method: **SM 2540D**
Description: 2540D Total Suspended Solids
Client: BP Anderson Engineering Company Inc.
Date: October 07, 2013

General Information:
12 samples were analyzed for SM 2540D. 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:

Sample Comments:

All reported results confirmed for total vs. dissolved metals (Ni)

- DR-3_20130911 (Lab ID: 60153027001)
- DR-5_20130911 (Lab ID: 60153027002)
- DR-9_20130911 (Lab ID: 60153027005)
- MW-5 DEEP_20130911 (Lab ID: 60153027010)

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PROJECT NARRATIVE

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

Method: **SM 4500-S-2 D**
Description: 4500S2D Sulfide, Total
Client: BP Anderson Engineering Company Inc.
Date: October 07, 2013

General Information:
12 samples were analyzed for SM 4500-S-2 D. 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:

Sample Comments:

All reported results confirmed for total vs. dissolved metals (Ni)

- DR-3_20130911 (Lab ID: 60153027001)
- DR-5_20130911 (Lab ID: 60153027002)
- DR-9_20130911 (Lab ID: 60153027005)
- MW-5 DEEP_20130911 (Lab ID: 60153027010)

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PROJECT NARRATIVE

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: BP Anderson Engineering Company Inc.
Date: October 07, 2013

General Information:
12 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.

QC Batch: WETA/26360

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60153027001,60153027002

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

- MS (Lab ID: 1260899)
  - Sulfate
- MSD (Lab ID: 1260900)
  - Sulfate

Additional Comments:

Sample Comments:

All reported results confirmed for total vs. dissolved metals (Ni)

- DR-3_20130911 (Lab ID: 60153027001)
- DR-5_20130911 (Lab ID: 60153027002)
- DR-9_20130911 (Lab ID: 60153027005)
- MW-5 DEEP_20130911 (Lab ID: 60153027010)

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PROJECT NARRATIVE

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

Method: **EPA 353.2**
Description: 353.2 Nitrogen, NO2/NO3 pres.
Client: BP Anderson Engineering Company Inc.
Date: October 07, 2013

General Information:
12 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/26218

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60152990002,60153027001

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

- MS (Lab ID: 1254084)
  - Nitrogen, NO2 plus NO3

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

Additional Comments:

Sample Comments:

All reported results confirmed for total vs. dissolved metals (Ni)

- DR-3_20130911 (Lab ID: 60153027001)
- DR-5_20130911 (Lab ID: 60153027002)
- DR-9_20130911 (Lab ID: 60153027005)
- MW-5 DEEP_20130911 (Lab ID: 60153027010)

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PROJECT NARRATIVE

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

Method: **SM 4500-CN-E**
Description: 4500CNE Cyanide, Total
Client: BP Anderson Engineering Company Inc.
Date: October 07, 2013

General Information:
12 samples were analyzed for SM 4500-CN-E. 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.

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

Additional Comments:

Sample Comments:

All reported results confirmed for total vs. dissolved metals (Ni)

- DR-3_20130911 (Lab ID: 60153027001)
- DR-5_20130911 (Lab ID: 60153027002)
- DR-9_20130911 (Lab ID: 60153027005)
- MW-5 DEEP_20130911 (Lab ID: 60153027010)

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PROJECT NARRATIVE

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

Method: **SM 5310C**
Description: 5310C TOC
Client: BP Anderson Engineering Company Inc.
Date: October 07, 2013

General Information:
12 samples were analyzed for SM 5310C. 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/19544

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60153115001,60153115002

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 859111)
  - Total Organic Carbon
- MSD (Lab ID: 859112)
  - Total Organic Carbon

Additional Comments:

Sample Comments:

All reported results confirmed for total vs. dissolved metals (Ni)

- DR-3_20130911 (Lab ID: 60153027001)
- DR-5_20130911 (Lab ID: 60153027002)
- DR-9_20130911 (Lab ID: 60153027005)
- MW-5 DEEP_20130911 (Lab ID: 60153027010)

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

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ANALYTICAL RESULTS

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

Sample: DR-3_20130911 **Lab ID: 60153027001** Collected: 09/11/13 15:35 Received: 09/13/13 10:40 Matrix: Water

Comments: • All reported results confirmed for total vs. dissolved metals (Ni)

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**245000**	ug/L	100	1	09/23/13 18:00	09/25/13 09:09	7440-70-2	M1
Magnesium, Dissolved	**19400**	ug/L	50.0	1	09/23/13 18:00	09/25/13 09:09	7439-95-4	
Potassium, Dissolved	**3190**	ug/L	500	1	09/23/13 18:00	09/25/13 09:09	7440-09-7	
Sodium, Dissolved	**13800**	ug/L	500	1	09/23/13 18:00	09/25/13 09:09	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**585**	ug/L	4.0	1	09/21/13 09:24	09/26/13 16:20	7429-90-5	
Antimony	ND	ug/L	0.50	1	09/21/13 09:24	09/26/13 16:20	7440-36-0	
Arsenic	**1.4**	ug/L	0.50	1	09/21/13 09:24	09/26/13 16:20	7440-38-2	
Barium	**20.6**	ug/L	0.30	1	09/21/13 09:24	09/26/13 16:20	7440-39-3	
Beryllium	**0.82**	ug/L	0.20	1	09/21/13 09:24	09/26/13 16:20	7440-41-7	
Cadmium	**21.0**	ug/L	0.080	1	09/21/13 09:24	09/26/13 16:20	7440-43-9	
Calcium	**255000**	ug/L	400	20	09/21/13 09:24	09/26/13 16:25	7440-70-2	
Chromium	ND	ug/L	0.50	1	09/21/13 09:24	09/26/13 16:20	7440-47-3	
Cobalt	**2.8**	ug/L	0.50	1	09/21/13 09:24	09/26/13 16:20	7440-48-4	
Copper	**142**	ug/L	0.50	1	09/21/13 09:24	09/26/13 16:20	7440-50-8	
Iron	**6470**	ug/L	50.0	1	09/21/13 09:24	09/26/13 16:20	7439-89-6	
Lead	**12.2**	ug/L	0.10	1	09/21/13 09:24	09/26/13 16:20	7439-92-1	
Magnesium	**18700**	ug/L	5.0	1	09/21/13 09:24	09/26/13 16:20	7439-95-4	
Manganese	**1990**	ug/L	10.0	20	09/21/13 09:24	09/26/13 16:25	7439-96-5	
Molybdenum	**16.0**	ug/L	0.50	1	09/21/13 09:24	09/26/13 16:20	7439-98-7	
Nickel	**4.6**	ug/L	0.50	1	09/21/13 09:24	09/26/13 16:20	7440-02-0	
Potassium	**3020**	ug/L	20.0	1	09/21/13 09:24	09/26/13 16:20	7440-09-7	
Selenium	ND	ug/L	0.50	1	09/21/13 09:24	09/26/13 16:20	7782-49-2	
Silica	**19600**	ug/L	1070	20	09/21/13 09:24	09/26/13 16:25	7631-86-9	
Silver	ND	ug/L	0.50	1	09/21/13 09:24	09/26/13 16:20	7440-22-4	
Sodium	**12700**	ug/L	50.0	1	09/21/13 09:24	09/26/13 16:20	7440-23-5	
Thallium	ND	ug/L	0.10	1	09/21/13 09:24	09/26/13 16:20	7440-28-0	
Total Hardness by 2340B	**715000**	ug/L	1420	20	09/21/13 09:24	09/26/13 16:25		
Vanadium	**0.13**	ug/L	0.10	1	09/21/13 09:24	09/26/13 16:20	7440-62-2	
Zinc	**4380**	ug/L	100	20	09/21/13 09:24	09/26/13 16:25	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**8.0**	ug/L	4.0	1	09/21/13 09:27	09/26/13 19:57	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/21/13 09:27	09/26/13 19:57	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	09/21/13 09:27	09/26/13 19:57	7440-38-2	
Barium, Dissolved	**20.4**	ug/L	0.30	1	09/21/13 09:27	09/26/13 19:57	7440-39-3	
Beryllium, Dissolved	**0.33**	ug/L	0.20	1	09/21/13 09:27	09/26/13 19:57	7440-41-7	
Cadmium, Dissolved	**18.8**	ug/L	0.080	1	09/21/13 09:27	09/26/13 19:57	7440-43-9	
Calcium, Dissolved	**240000**	ug/L	400	20	09/21/13 09:27	09/26/13 20:02	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	09/21/13 09:27	09/26/13 19:57	7440-47-3	
Cobalt, Dissolved	**2.7**	ug/L	0.50	1	09/21/13 09:27	09/26/13 19:57	7440-48-4	
Copper, Dissolved	**7.0**	ug/L	0.50	1	09/21/13 09:27	09/26/13 19:57	7440-50-8	
Iron, Dissolved	**237**	ug/L	50.0	1	09/21/13 09:27	09/26/13 19:57	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	09/21/13 09:27	09/27/13 12:29	7439-92-1	

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ANALYTICAL RESULTS

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

Sample: DR-3_20130911 **Lab ID: 60153027001** Collected: 09/11/13 15:35 Received: 09/13/13 10:40 Matrix: Water

Comments: • All reported results confirmed for total vs. dissolved metals (Ni)

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8		Preparation Method: EPA 200.8					
Magnesium, Dissolved	**18900**	ug/L	5.0	1	09/21/13 09:27	09/26/13 19:57	7439-95-4	
Manganese, Dissolved	**1810**	ug/L	10.0	20	09/21/13 09:27	09/26/13 20:02	7439-96-5	
Molybdenum, Dissolved	**14.4**	ug/L	0.50	1	09/21/13 09:27	09/26/13 19:57	7439-98-7	
Nickel, Dissolved	**5.6**	ug/L	0.50	1	09/21/13 09:27	09/26/13 19:57	7440-02-0	
Potassium, Dissolved	**3060**	ug/L	20.0	1	09/21/13 09:27	09/26/13 19:57	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	09/21/13 09:27	09/26/13 19:57	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/21/13 09:27	09/26/13 19:57	7440-22-4	
Sodium, Dissolved	**12700**	ug/L	50.0	1	09/21/13 09:27	09/26/13 19:57	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/21/13 09:27	09/26/13 19:57	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	09/21/13 09:27	09/26/13 19:57	7440-62-2	
Zinc, Dissolved	**3570**	ug/L	100	20	09/21/13 09:27	09/26/13 20:02	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8		Preparation Method: EPA 200.8					
Aluminum, Dissolved	**621**	ug/L	50.0	1	09/23/13 18:00	09/26/13 10:54	7429-90-5	
Antimony, Dissolved	**0.24J**	ug/L	1.0	1	09/23/13 18:00	09/26/13 10:54	7440-36-0	
Arsenic, Dissolved	**1.1**	ug/L	1.0	1	09/23/13 18:00	09/26/13 10:54	7440-38-2	
Barium, Dissolved	**20.8**	ug/L	1.0	1	09/23/13 18:00	09/26/13 10:54	7440-39-3	
Beryllium, Dissolved	**0.77**	ug/L	0.50	1	09/23/13 18:00	09/26/13 10:54	7440-41-7	
Cadmium, Dissolved	**21.6**	ug/L	0.50	1	09/23/13 18:00	09/26/13 10:54	7440-43-9	
Chromium, Dissolved	**1.2**	ug/L	1.0	1	09/23/13 18:00	09/26/13 10:54	7440-47-3	
Cobalt, Dissolved	**2.6**	ug/L	1.0	1	09/23/13 18:00	09/26/13 10:54	7440-48-4	
Copper, Dissolved	**141**	ug/L	1.0	1	09/23/13 18:00	09/26/13 10:54	7440-50-8	
Iron, Dissolved	**6800**	ug/L	50.0	1	09/23/13 18:00	09/26/13 10:54	7439-89-6	
Lead, Dissolved	**12.5**	ug/L	1.0	1	09/23/13 18:00	09/26/13 10:54	7439-92-1	
Manganese, Dissolved	**1930**	ug/L	1.0	1	09/23/13 18:00	09/26/13 10:54	7439-96-5	
Molybdenum, Dissolved	**17.1**	ug/L	1.0	1	09/23/13 18:00	09/26/13 10:54	7439-98-7	
Nickel, Dissolved	**4.6**	ug/L	1.0	1	09/23/13 18:00	09/26/13 10:54	7440-02-0	
Selenium, Dissolved	**0.21J**	ug/L	1.0	1	09/23/13 18:00	09/26/13 10:54	7782-49-2	
Silver, Dissolved	**0.045J**	ug/L	0.50	1	09/23/13 18:00	09/26/13 10:54	7440-22-4	
Thallium, Dissolved	**0.11J**	ug/L	1.0	1	09/23/13 18:00	09/26/13 10:54	7440-28-0	
Vanadium, Dissolved	ND	ug/L	1.0	1	09/23/13 18:00	09/26/13 10:54	7440-62-2	
Zinc, Dissolved	**3940**	ug/L	100	10	09/27/13 16:48	09/29/13 16:04	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1		Preparation Method: EPA 245.1					
Mercury	ND	ug/L	0.20	1	09/25/13 14:10	09/26/13 12:37	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1		Preparation Method: EPA 245.1					
Mercury, Dissolved	ND	ug/L	0.20	1	09/26/13 14:51	09/26/13 17:01	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1		Preparation Method: EPA 245.1					
Mercury, Dissolved	ND	ug/L	0.20	1	09/25/13 09:00	09/25/13 17:18	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**1240**	umhos/cm	10.0	1		09/20/13 10:45		

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ANALYTICAL RESULTS

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

Sample: DR-3_20130911 **Lab ID: 60153027001** Collected: 09/11/13 15:35 Received: 09/13/13 10:40 Matrix: Water

Comments: • All reported results confirmed for total vs. dissolved metals (Ni)

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**797**	mg/L	6.4	1		09/23/13 11:00		
Salinity (as seawater)	**0.62**	PSU	0.014	1		09/23/13 11:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**85.8**	mg/L	20.0	1		09/23/13 09:36		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/23/13 09:36		
Alkalinity, Total as CaCO3	**85.8**	mg/L	20.0	1		09/23/13 09:36		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1050**	mg/L	5.0	1		09/17/13 13:14		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**17.0**	mg/L	5.0	1		09/18/13 10:05		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/18/13 11:36	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	ND	mg/L	1.0	1		09/26/13 17:04	16887-00-6	
Sulfate	**634**	mg/L	100	100		09/27/13 09:26	14808-79-8	M1
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**0.10**	mg/L	0.10	1		09/16/13 14:17		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/23/13 15:29	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	0.50	1		09/21/13 05:50	7440-44-0	

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ANALYTICAL RESULTS

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

Sample: DR-5_20130911 **Lab ID: 60153027002** Collected: 09/11/13 15:25 Received: 09/13/13 10:40 Matrix: Water

Comments: • All reported results confirmed for total vs. dissolved metals (Ni)

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**244000**	ug/L	100	1	09/23/13 18:00	09/25/13 09:21	7440-70-2	
Magnesium, Dissolved	**20900**	ug/L	50.0	1	09/23/13 18:00	09/25/13 09:21	7439-95-4	
Potassium, Dissolved	**3520**	ug/L	500	1	09/23/13 18:00	09/25/13 09:21	7440-09-7	
Sodium, Dissolved	**14100**	ug/L	500	1	09/23/13 18:00	09/25/13 09:21	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**64.6**	ug/L	4.0	1	09/21/13 09:24	09/26/13 15:34	7429-90-5	
Antimony	ND	ug/L	0.50	1	09/21/13 09:24	09/26/13 15:34	7440-36-0	
Arsenic	ND	ug/L	0.50	1	09/21/13 09:24	09/26/13 15:34	7440-38-2	
Barium	**19.9**	ug/L	0.30	1	09/21/13 09:24	09/26/13 15:34	7440-39-3	
Beryllium	ND	ug/L	0.20	1	09/21/13 09:24	09/26/13 15:34	7440-41-7	
Cadmium	**11.8**	ug/L	0.080	1	09/21/13 09:24	09/26/13 15:34	7440-43-9	
Calcium	**245000**	ug/L	400	20	09/21/13 09:24	09/26/13 15:45	7440-70-2	M1
Chromium	ND	ug/L	0.50	1	09/21/13 09:24	09/26/13 15:34	7440-47-3	
Cobalt	**1.8**	ug/L	0.50	1	09/21/13 09:24	09/26/13 15:34	7440-48-4	
Copper	**14.2**	ug/L	0.50	1	09/21/13 09:24	09/26/13 15:34	7440-50-8	
Iron	**680**	ug/L	50.0	1	09/21/13 09:24	09/26/13 15:34	7439-89-6	
Lead	**1.2**	ug/L	0.10	1	09/21/13 09:24	09/27/13 12:06	7439-92-1	
Magnesium	**19700**	ug/L	5.0	1	09/21/13 09:24	09/26/13 15:34	7439-95-4	
Manganese	**1410**	ug/L	2.5	5	09/21/13 09:24	09/26/13 15:40	7439-96-5	M1
Molybdenum	**12.9**	ug/L	0.50	1	09/21/13 09:24	09/26/13 15:34	7439-98-7	
Nickel	**3.4**	ug/L	0.50	1	09/21/13 09:24	09/26/13 15:34	7440-02-0	
Potassium	**3360**	ug/L	20.0	1	09/21/13 09:24	09/26/13 15:34	7440-09-7	
Selenium	ND	ug/L	0.50	1	09/21/13 09:24	09/26/13 15:34	7782-49-2	
Silica	**16900**	ug/L	268	5	09/21/13 09:24	09/26/13 15:40	7631-86-9	
Silver	ND	ug/L	0.50	1	09/21/13 09:24	09/27/13 12:06	7440-22-4	
Sodium	**13100**	ug/L	50.0	1	09/21/13 09:24	09/26/13 15:34	7440-23-5	
Thallium	ND	ug/L	0.10	1	09/21/13 09:24	09/26/13 15:34	7440-28-0	
Total Hardness by 2340B	**693000**	ug/L	1420	20	09/21/13 09:24	09/26/13 15:45		
Vanadium	ND	ug/L	0.10	1	09/21/13 09:24	09/26/13 15:34	7440-62-2	
Zinc	**2160**	ug/L	25.0	5	09/21/13 09:24	09/26/13 15:40	7440-66-6	M1
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	ND	ug/L	4.0	1	09/21/13 09:27	09/26/13 19:09	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/21/13 09:27	09/26/13 19:09	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	09/21/13 09:27	09/26/13 19:09	7440-38-2	
Barium, Dissolved	**19.4**	ug/L	0.30	1	09/21/13 09:27	09/26/13 19:09	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	09/21/13 09:27	09/26/13 19:09	7440-41-7	
Cadmium, Dissolved	**6.5**	ug/L	0.080	1	09/21/13 09:27	09/26/13 19:09	7440-43-9	
Calcium, Dissolved	**231000**	ug/L	400	20	09/21/13 09:27	09/26/13 19:19	7440-70-2	M1
Chromium, Dissolved	ND	ug/L	0.50	1	09/21/13 09:27	09/26/13 19:09	7440-47-3	
Cobalt, Dissolved	**1.8**	ug/L	0.50	1	09/21/13 09:27	09/26/13 19:09	7440-48-4	
Copper, Dissolved	**1.2**	ug/L	0.50	1	09/21/13 09:27	09/26/13 19:09	7440-50-8	
Iron, Dissolved	ND	ug/L	50.0	1	09/21/13 09:27	09/26/13 19:09	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	09/21/13 09:27	09/27/13 12:35	7439-92-1	

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ANALYTICAL RESULTS

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

Sample: DR-5_20130911 **Lab ID: 60153027002** Collected: 09/11/13 15:25 Received: 09/13/13 10:40 Matrix: Water

Comments: • All reported results confirmed for total vs. dissolved metals (Ni)

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8		Preparation Method: EPA 200.8					
Magnesium, Dissolved	**19700**	ug/L	5.0	1	09/21/13 09:27	09/26/13 19:09	7439-95-4	M1
Manganese, Dissolved	**1390**	ug/L	2.5	5	09/21/13 09:27	09/26/13 19:14	7439-96-5	M1
Molybdenum, Dissolved	**12.6**	ug/L	0.50	1	09/21/13 09:27	09/26/13 19:09	7439-98-7	
Nickel, Dissolved	**4.9**	ug/L	0.50	1	09/21/13 09:27	09/26/13 19:09	7440-02-0	
Potassium, Dissolved	**3400**	ug/L	20.0	1	09/21/13 09:27	09/26/13 19:09	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	09/21/13 09:27	09/26/13 19:09	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/21/13 09:27	09/26/13 19:09	7440-22-4	
Sodium, Dissolved	**13000**	ug/L	50.0	1	09/21/13 09:27	09/26/13 19:09	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/21/13 09:27	09/26/13 19:09	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	09/21/13 09:27	09/26/13 19:09	7440-62-2	
Zinc, Dissolved	**1920**	ug/L	25.0	5	09/21/13 09:27	09/26/13 19:14	7440-66-6	M1
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8		Preparation Method: EPA 200.8					
Aluminum, Dissolved	**58.4**	ug/L	50.0	1	09/23/13 18:00	09/26/13 10:58	7429-90-5	
Antimony, Dissolved	**0.13J**	ug/L	1.0	1	09/23/13 18:00	09/26/13 10:58	7440-36-0	
Arsenic, Dissolved	**0.24J**	ug/L	1.0	1	09/23/13 18:00	09/26/13 10:58	7440-38-2	
Barium, Dissolved	**18.9**	ug/L	1.0	1	09/23/13 18:00	09/26/13 10:58	7440-39-3	
Beryllium, Dissolved	**0.10J**	ug/L	0.50	1	09/23/13 18:00	09/26/13 10:58	7440-41-7	
Cadmium, Dissolved	**11.7**	ug/L	0.50	1	09/23/13 18:00	09/26/13 10:58	7440-43-9	
Chromium, Dissolved	**0.45J**	ug/L	1.0	1	09/23/13 18:00	09/26/13 10:58	7440-47-3	
Cobalt, Dissolved	**1.7**	ug/L	1.0	1	09/23/13 18:00	09/26/13 10:58	7440-48-4	
Copper, Dissolved	**14.0**	ug/L	1.0	1	09/23/13 18:00	09/26/13 10:58	7440-50-8	
Iron, Dissolved	**693**	ug/L	50.0	1	09/23/13 18:00	09/26/13 10:58	7439-89-6	
Lead, Dissolved	**1.3**	ug/L	1.0	1	09/23/13 18:00	09/26/13 10:58	7439-92-1	
Manganese, Dissolved	**1430**	ug/L	1.0	1	09/23/13 18:00	09/26/13 10:58	7439-96-5	M1
Molybdenum, Dissolved	**13.2**	ug/L	1.0	1	09/23/13 18:00	09/26/13 10:58	7439-98-7	
Nickel, Dissolved	**3.4**	ug/L	1.0	1	09/23/13 18:00	09/26/13 10:58	7440-02-0	
Selenium, Dissolved	ND	ug/L	1.0	1	09/23/13 18:00	09/26/13 10:58	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/23/13 18:00	09/26/13 10:58	7440-22-4	
Thallium, Dissolved	**0.064J**	ug/L	1.0	1	09/23/13 18:00	09/26/13 10:58	7440-28-0	
Vanadium, Dissolved	ND	ug/L	1.0	1	09/23/13 18:00	09/26/13 10:58	7440-62-2	
Zinc, Dissolved	**1970**	ug/L	50.0	5	09/27/13 16:48	09/29/13 16:08	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1		Preparation Method: EPA 245.1					
Mercury	ND	ug/L	0.20	1	09/25/13 14:10	09/26/13 12:45	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1		Preparation Method: EPA 245.1					
Mercury, Dissolved	ND	ug/L	0.20	1	09/26/13 14:51	09/26/13 17:03	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1		Preparation Method: EPA 245.1					
Mercury, Dissolved	ND	ug/L	0.20	1	09/25/13 09:00	09/25/13 17:25	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**1260**	umhos/cm	10.0	1		09/20/13 10:47		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

Sample: DR-5_20130911 **Lab ID: 60153027002** Collected: 09/11/13 15:25 Received: 09/13/13 10:40 Matrix: Water

Comments: • All reported results confirmed for total vs. dissolved metals (Ni)

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**809**	mg/L	6.4	1		09/23/13 11:00		
Salinity (as seawater)	**0.63**	PSU	0.014	1		09/23/13 11:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**96.8**	mg/L	20.0	1		09/23/13 09:40		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/23/13 09:40		
Alkalinity, Total as CaCO3	**96.8**	mg/L	20.0	1		09/23/13 09:40		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1070**	mg/L	5.0	1		09/17/13 13:14		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	ND	mg/L	5.0	1		09/18/13 10:06		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/18/13 11:37	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	ND	mg/L	1.0	1		09/26/13 17:47	16887-00-6	
Sulfate	**608**	mg/L	100	100		09/27/13 10:09	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/16/13 14:20		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	**0.051**	mg/L	0.0050	1		09/23/13 15:30	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	0.50	1		09/21/13 06:09	7440-44-0	

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ANALYTICAL RESULTS

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

Sample: DR-G_20130911 **Lab ID: 60153027003** Collected: 09/11/13 10:25 Received: 09/13/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**44200**	ug/L	100	1	09/23/13 18:00	09/25/13 09:25	7440-70-2	
Magnesium, Dissolved	**7040**	ug/L	50.0	1	09/23/13 18:00	09/25/13 09:25	7439-95-4	
Potassium, Dissolved	**905**	ug/L	500	1	09/23/13 18:00	09/25/13 09:25	7440-09-7	
Sodium, Dissolved	**2280**	ug/L	500	1	09/23/13 18:00	09/25/13 09:25	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**2480**	ug/L	4.0	1	09/21/13 09:24	09/26/13 16:30	7429-90-5	
Antimony	ND	ug/L	0.50	1	09/21/13 09:24	09/26/13 16:30	7440-36-0	
Arsenic	**2.9**	ug/L	0.50	1	09/21/13 09:24	09/26/13 16:30	7440-38-2	
Barium	**111**	ug/L	0.30	1	09/21/13 09:24	09/26/13 16:30	7440-39-3	
Beryllium	**0.27**	ug/L	0.20	1	09/21/13 09:24	09/26/13 16:30	7440-41-7	
Cadmium	**0.64**	ug/L	0.080	1	09/21/13 09:24	09/26/13 16:30	7440-43-9	
Calcium	**38200**	ug/L	400	20	09/21/13 09:24	09/26/13 16:35	7440-70-2	
Chromium	**3.0**	ug/L	0.50	1	09/21/13 09:24	09/26/13 16:30	7440-47-3	
Cobalt	**1.9**	ug/L	0.50	1	09/21/13 09:24	09/26/13 16:30	7440-48-4	
Copper	**8.3**	ug/L	0.50	1	09/21/13 09:24	09/26/13 16:30	7440-50-8	
Iron	**4030**	ug/L	50.0	1	09/21/13 09:24	09/26/13 16:30	7439-89-6	
Lead	**15.3**	ug/L	0.10	1	09/21/13 09:24	09/26/13 16:30	7439-92-1	
Magnesium	**6640**	ug/L	5.0	1	09/21/13 09:24	09/26/13 16:30	7439-95-4	
Manganese	**211**	ug/L	0.50	1	09/21/13 09:24	09/26/13 16:30	7439-96-5	
Molybdenum	**1.4**	ug/L	0.50	1	09/21/13 09:24	09/26/13 16:30	7439-98-7	
Nickel	**5.3**	ug/L	0.50	1	09/21/13 09:24	09/26/13 16:30	7440-02-0	
Potassium	**1600**	ug/L	20.0	1	09/21/13 09:24	09/26/13 16:30	7440-09-7	
Selenium	**0.58**	ug/L	0.50	1	09/21/13 09:24	09/26/13 16:30	7782-49-2	
Silica	**13700**	ug/L	1070	20	09/21/13 09:24	09/26/13 16:35	7631-86-9	
Silver	ND	ug/L	0.50	1	09/21/13 09:24	09/26/13 16:30	7440-22-4	
Sodium	**2110**	ug/L	50.0	1	09/21/13 09:24	09/26/13 16:30	7440-23-5	
Thallium	ND	ug/L	0.10	1	09/21/13 09:24	09/26/13 16:30	7440-28-0	
Total Hardness by 2340B	**123000**	ug/L	1420	20	09/21/13 09:24	09/26/13 16:35		
Vanadium	**6.2**	ug/L	0.10	1	09/21/13 09:24	09/26/13 16:30	7440-62-2	
Zinc	**122**	ug/L	5.0	1	09/21/13 09:24	09/26/13 16:30	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**33.4**	ug/L	4.0	1	09/21/13 09:27	09/26/13 20:07	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/21/13 09:27	09/26/13 20:07	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	09/21/13 09:27	09/26/13 20:07	7440-38-2	
Barium, Dissolved	**70.1**	ug/L	0.30	1	09/21/13 09:27	09/26/13 20:07	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	09/21/13 09:27	09/26/13 20:07	7440-41-7	
Cadmium, Dissolved	**0.12**	ug/L	0.080	1	09/21/13 09:27	09/26/13 20:07	7440-43-9	
Calcium, Dissolved	**32900**	ug/L	400	20	09/21/13 09:27	09/26/13 20:12	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	09/21/13 09:27	09/26/13 20:07	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	09/21/13 09:27	09/26/13 20:07	7440-48-4	
Copper, Dissolved	**2.0**	ug/L	0.50	1	09/21/13 09:27	09/26/13 20:07	7440-50-8	
Iron, Dissolved	**54.9**	ug/L	50.0	1	09/21/13 09:27	09/26/13 20:07	7439-89-6	
Lead, Dissolved	**0.20**	ug/L	0.10	1	09/21/13 09:27	09/27/13 12:40	7439-92-1	
Magnesium, Dissolved	**4520**	ug/L	5.0	1	09/21/13 09:27	09/26/13 20:07	7439-95-4	

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ANALYTICAL RESULTS

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

Sample: DR-G_20130911 **Lab ID: 60153027003** Collected: 09/11/13 10:25 Received: 09/13/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	**31.7**	ug/L	0.50	1	09/21/13 09:27	09/26/13 20:07	7439-96-5	
Molybdenum, Dissolved	**0.66**	ug/L	0.50	1	09/21/13 09:27	09/26/13 20:07	7439-98-7	
Nickel, Dissolved	**0.88**	ug/L	0.50	1	09/21/13 09:27	09/26/13 20:07	7440-02-0	
Potassium, Dissolved	**850**	ug/L	20.0	1	09/21/13 09:27	09/26/13 20:07	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	09/21/13 09:27	09/26/13 20:07	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/21/13 09:27	09/26/13 20:07	7440-22-4	
Sodium, Dissolved	**2110**	ug/L	50.0	1	09/21/13 09:27	09/26/13 20:07	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/21/13 09:27	09/26/13 20:07	7440-28-0	
Vanadium, Dissolved	**0.32**	ug/L	0.10	1	09/21/13 09:27	09/26/13 20:07	7440-62-2	
Zinc, Dissolved	**17.0**	ug/L	5.0	1	09/21/13 09:27	09/26/13 20:07	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**647**	ug/L	50.0	1	09/23/13 18:00	09/26/13 11:14	7429-90-5	
Antimony, Dissolved	**0.11J**	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:14	7440-36-0	
Arsenic, Dissolved	**1.3**	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:14	7440-38-2	
Barium, Dissolved	**111**	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:14	7440-39-3	
Beryllium, Dissolved	**0.19J**	ug/L	0.50	1	09/23/13 18:00	09/26/13 11:14	7440-41-7	
Cadmium, Dissolved	**0.81**	ug/L	0.50	1	09/23/13 18:00	09/26/13 11:14	7440-43-9	
Chromium, Dissolved	**1.4**	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:14	7440-47-3	
Cobalt, Dissolved	**1.6**	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:14	7440-48-4	
Copper, Dissolved	**6.4**	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:14	7440-50-8	
Iron, Dissolved	**1860**	ug/L	50.0	1	09/23/13 18:00	09/26/13 11:14	7439-89-6	
Lead, Dissolved	**13.7**	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:14	7439-92-1	
Manganese, Dissolved	**300**	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:14	7439-96-5	
Molybdenum, Dissolved	**0.56J**	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:14	7439-98-7	B
Nickel, Dissolved	**2.9**	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:14	7440-02-0	
Selenium, Dissolved	**0.55J**	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:14	7782-49-2	
Silver, Dissolved	**0.041J**	ug/L	0.50	1	09/23/13 18:00	09/26/13 11:14	7440-22-4	
Thallium, Dissolved	**0.071J**	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:14	7440-28-0	
Vanadium, Dissolved	**2.6**	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:14	7440-62-2	
Zinc, Dissolved	**142**	ug/L	10.0	1	09/27/13 16:48	09/29/13 16:12	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/25/13 14:10	09/26/13 12:47	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/26/13 14:51	09/26/13 17:10	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/25/13 09:00	09/25/13 17:30	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**217**	umhos/cm	10.0	1		09/20/13 10:48		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**139**	mg/L	6.4	1		09/23/13 11:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

Sample: DR-G_20130911 **Lab ID: 60153027003** Collected: 09/11/13 10:25 Received: 09/13/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.10**	PSU	0.014	1		09/23/13 11:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**71.8**	mg/L	20.0	1		09/23/13 09:44		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/23/13 09:44		
Alkalinity, Total as CaCO3	**71.8**	mg/L	20.0	1		09/23/13 09:44		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**145**	mg/L	5.0	1		09/17/13 13:14		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**239**	mg/L	5.0	1		09/18/13 10:06		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/18/13 11:39	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.4**	mg/L	1.0	1		09/26/13 18:16	16887-00-6	
Sulfate	**31.3**	mg/L	2.0	2		09/27/13 11:07	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**0.11**	mg/L	0.10	1		09/16/13 14:21		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/23/13 15:33	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**4.0**	mg/L	0.50	1		09/21/13 06:28	7440-44-0	

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ANALYTICAL RESULTS

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

Sample: DR-8_20130911 **Lab ID: 60153027004** Collected: 09/11/13 10:30 Received: 09/13/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**39800**	ug/L	100	1	09/23/13 18:00	09/25/13 09:28	7440-70-2	
Magnesium, Dissolved	**6140**	ug/L	50.0	1	09/23/13 18:00	09/25/13 09:28	7439-95-4	
Potassium, Dissolved	**863**	ug/L	500	1	09/23/13 18:00	09/25/13 09:28	7440-09-7	
Sodium, Dissolved	**2150**	ug/L	500	1	09/23/13 18:00	09/25/13 09:28	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**3600**	ug/L	4.0	1	09/21/13 09:24	09/26/13 16:40	7429-90-5	
Antimony	ND	ug/L	0.50	1	09/21/13 09:24	09/26/13 16:40	7440-36-0	
Arsenic	**4.3**	ug/L	0.50	1	09/21/13 09:24	09/26/13 16:40	7440-38-2	
Barium	**133**	ug/L	0.30	1	09/21/13 09:24	09/26/13 16:40	7440-39-3	
Beryllium	**0.35**	ug/L	0.20	1	09/21/13 09:24	09/26/13 16:40	7440-41-7	
Cadmium	**0.93**	ug/L	0.080	1	09/21/13 09:24	09/26/13 16:40	7440-43-9	
Calcium	**40800**	ug/L	400	20	09/21/13 09:24	09/26/13 16:45	7440-70-2	
Chromium	**4.5**	ug/L	0.50	1	09/21/13 09:24	09/26/13 16:40	7440-47-3	
Cobalt	**2.9**	ug/L	0.50	1	09/21/13 09:24	09/26/13 16:40	7440-48-4	
Copper	**12.4**	ug/L	0.50	1	09/21/13 09:24	09/26/13 16:40	7440-50-8	
Iron	**6310**	ug/L	50.0	1	09/21/13 09:24	09/26/13 16:40	7439-89-6	
Lead	**21.8**	ug/L	0.10	1	09/21/13 09:24	09/26/13 16:40	7439-92-1	
Magnesium	**7850**	ug/L	5.0	1	09/21/13 09:24	09/26/13 16:40	7439-95-4	
Manganese	**337**	ug/L	0.50	1	09/21/13 09:24	09/26/13 16:40	7439-96-5	
Molybdenum	**1.8**	ug/L	0.50	1	09/21/13 09:24	09/26/13 16:40	7439-98-7	
Nickel	**7.7**	ug/L	0.50	1	09/21/13 09:24	09/26/13 16:40	7440-02-0	
Potassium	**1870**	ug/L	20.0	1	09/21/13 09:24	09/26/13 16:40	7440-09-7	
Selenium	**0.73**	ug/L	0.50	1	09/21/13 09:24	09/26/13 16:40	7782-49-2	
Silica	**16800**	ug/L	1070	20	09/21/13 09:24	09/26/13 16:45	7631-86-9	
Silver	ND	ug/L	0.50	1	09/21/13 09:24	09/26/13 16:40	7440-22-4	
Sodium	**2120**	ug/L	50.0	1	09/21/13 09:24	09/26/13 16:40	7440-23-5	
Thallium	**0.12**	ug/L	0.10	1	09/21/13 09:24	09/26/13 16:40	7440-28-0	
Total Hardness by 2340B	**134000**	ug/L	1420	20	09/21/13 09:24	09/26/13 16:45		
Vanadium	**9.3**	ug/L	0.10	1	09/21/13 09:24	09/26/13 16:40	7440-62-2	
Zinc	**180**	ug/L	5.0	1	09/21/13 09:24	09/26/13 16:40	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**84.7**	ug/L	4.0	1	09/21/13 09:27	09/26/13 20:18	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/21/13 09:27	09/26/13 20:18	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	09/21/13 09:27	09/26/13 20:18	7440-38-2	
Barium, Dissolved	**71.5**	ug/L	0.30	1	09/21/13 09:27	09/26/13 20:18	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	09/21/13 09:27	09/26/13 20:18	7440-41-7	
Cadmium, Dissolved	**0.12**	ug/L	0.080	1	09/21/13 09:27	09/26/13 20:18	7440-43-9	
Calcium, Dissolved	**32800**	ug/L	400	20	09/21/13 09:27	09/26/13 20:23	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	09/21/13 09:27	09/26/13 20:18	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	09/21/13 09:27	09/26/13 20:18	7440-48-4	
Copper, Dissolved	**2.0**	ug/L	0.50	1	09/21/13 09:27	09/26/13 20:18	7440-50-8	
Iron, Dissolved	**115**	ug/L	50.0	1	09/21/13 09:27	09/26/13 20:18	7439-89-6	
Lead, Dissolved	**0.44**	ug/L	0.10	1	09/21/13 09:27	09/27/13 12:45	7439-92-1	
Magnesium, Dissolved	**4530**	ug/L	5.0	1	09/21/13 09:27	09/26/13 20:18	7439-95-4	

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ANALYTICAL RESULTS

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

Sample: DR-8_20130911 **Lab ID: 60153027004** Collected: 09/11/13 10:30 Received: 09/13/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	**32.7**	ug/L	0.50	1	09/21/13 09:27	09/26/13 20:18	7439-96-5	
Molybdenum, Dissolved	**0.71**	ug/L	0.50	1	09/21/13 09:27	09/26/13 20:18	7439-98-7	
Nickel, Dissolved	**0.97**	ug/L	0.50	1	09/21/13 09:27	09/26/13 20:18	7440-02-0	
Potassium, Dissolved	**865**	ug/L	20.0	1	09/21/13 09:27	09/26/13 20:18	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	09/21/13 09:27	09/26/13 20:18	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/21/13 09:27	09/26/13 20:18	7440-22-4	
Sodium, Dissolved	**2140**	ug/L	50.0	1	09/21/13 09:27	09/26/13 20:18	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/21/13 09:27	09/26/13 20:18	7440-28-0	
Vanadium, Dissolved	**0.43**	ug/L	0.10	1	09/21/13 09:27	09/26/13 20:18	7440-62-2	
Zinc, Dissolved	**18.3**	ug/L	5.0	1	09/21/13 09:27	09/26/13 20:18	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**504**	ug/L	50.0	1	09/23/13 18:00	09/26/13 11:18	7429-90-5	
Antimony, Dissolved	**0.070J**	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:18	7440-36-0	
Arsenic, Dissolved	**1.0**	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:18	7440-38-2	
Barium, Dissolved	**98.3**	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:18	7440-39-3	
Beryllium, Dissolved	**0.14J**	ug/L	0.50	1	09/23/13 18:00	09/26/13 11:18	7440-41-7	
Cadmium, Dissolved	**0.61**	ug/L	0.50	1	09/23/13 18:00	09/26/13 11:18	7440-43-9	
Chromium, Dissolved	**3.0**	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:18	7440-47-3	
Cobalt, Dissolved	**1.2**	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:18	7440-48-4	
Copper, Dissolved	**5.2**	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:18	7440-50-8	
Iron, Dissolved	**1430**	ug/L	50.0	1	09/23/13 18:00	09/26/13 11:18	7439-89-6	
Lead, Dissolved	**10.7**	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:18	7439-92-1	
Manganese, Dissolved	**206**	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:18	7439-96-5	
Molybdenum, Dissolved	**0.46J**	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:18	7439-98-7	B
Nickel, Dissolved	**2.8**	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:18	7440-02-0	
Selenium, Dissolved	**0.44J**	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:18	7782-49-2	
Silver, Dissolved	**0.021J**	ug/L	0.50	1	09/23/13 18:00	09/26/13 11:18	7440-22-4	
Thallium, Dissolved	**0.037J**	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:18	7440-28-0	
Vanadium, Dissolved	**1.9**	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:18	7440-62-2	
Zinc, Dissolved	**110**	ug/L	10.0	1	09/27/13 16:48	09/29/13 16:16	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/25/13 14:10	09/26/13 12:49	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/26/13 14:51	09/26/13 17:16	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/25/13 09:00	09/25/13 17:32	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**225**	umhos/cm	10.0	1		09/20/13 10:49		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**144**	mg/L	6.4	1		09/23/13 11:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

Sample: DR-8_20130911 **Lab ID: 60153027004** Collected: 09/11/13 10:30 Received: 09/13/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.11**	PSU	0.014	1		09/23/13 11:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**70.9**	mg/L	20.0	1		09/23/13 09:58		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/23/13 09:58		
Alkalinity, Total as CaCO3	**70.9**	mg/L	20.0	1		09/23/13 09:58		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**139**	mg/L	5.0	1		09/17/13 13:14		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**225**	mg/L	5.0	1		09/18/13 10:06		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/18/13 11:40	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.4**	mg/L	1.0	1		09/26/13 18:30	16887-00-6	
Sulfate	**31.2**	mg/L	2.0	2		09/27/13 11:21	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**0.12**	mg/L	0.10	1		09/16/13 14:22		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/23/13 15:35	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**4.0**	mg/L	0.50	1		09/21/13 07:06	7440-44-0	

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ANALYTICAL RESULTS

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

Sample: DR-9_20130911 **Lab ID: 60153027005** Collected: 09/11/13 15:36 Received: 09/13/13 10:40 Matrix: Water

Comments: • All reported results confirmed for total vs. dissolved metals (Ni)

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**241000**	ug/L	100	1	09/23/13 18:00	09/25/13 09:31	7440-70-2	
Magnesium, Dissolved	**18800**	ug/L	50.0	1	09/23/13 18:00	09/25/13 09:31	7439-95-4	
Potassium, Dissolved	**3050**	ug/L	500	1	09/23/13 18:00	09/25/13 09:31	7440-09-7	
Sodium, Dissolved	**13300**	ug/L	500	1	09/23/13 18:00	09/25/13 09:31	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**576**	ug/L	4.0	1	09/21/13 09:24	09/26/13 16:51	7429-90-5	
Antimony	ND	ug/L	0.50	1	09/21/13 09:24	09/26/13 16:51	7440-36-0	
Arsenic	**1.4**	ug/L	0.50	1	09/21/13 09:24	09/26/13 16:51	7440-38-2	
Barium	**20.5**	ug/L	0.30	1	09/21/13 09:24	09/26/13 16:51	7440-39-3	
Beryllium	**0.91**	ug/L	0.20	1	09/21/13 09:24	09/26/13 16:51	7440-41-7	
Cadmium	**20.6**	ug/L	0.080	1	09/21/13 09:24	09/26/13 16:51	7440-43-9	
Calcium	**234000**	ug/L	400	20	09/21/13 09:24	09/26/13 16:56	7440-70-2	
Chromium	ND	ug/L	0.50	1	09/21/13 09:24	09/26/13 16:51	7440-47-3	
Cobalt	**2.8**	ug/L	0.50	1	09/21/13 09:24	09/26/13 16:51	7440-48-4	
Copper	**142**	ug/L	0.50	1	09/21/13 09:24	09/26/13 16:51	7440-50-8	
Iron	**6490**	ug/L	50.0	1	09/21/13 09:24	09/26/13 16:51	7439-89-6	
Lead	**11.9**	ug/L	0.10	1	09/21/13 09:24	09/26/13 16:51	7439-92-1	
Magnesium	**18800**	ug/L	5.0	1	09/21/13 09:24	09/26/13 16:51	7439-95-4	
Manganese	**1810**	ug/L	10.0	20	09/21/13 09:24	09/26/13 16:56	7439-96-5	
Molybdenum	**15.8**	ug/L	0.50	1	09/21/13 09:24	09/26/13 16:51	7439-98-7	
Nickel	**4.6**	ug/L	0.50	1	09/21/13 09:24	09/26/13 16:51	7440-02-0	
Potassium	**3020**	ug/L	20.0	1	09/21/13 09:24	09/26/13 16:51	7440-09-7	
Selenium	ND	ug/L	0.50	1	09/21/13 09:24	09/26/13 16:51	7782-49-2	
Silica	**18100**	ug/L	1070	20	09/21/13 09:24	09/26/13 16:56	7631-86-9	
Silver	ND	ug/L	0.50	1	09/21/13 09:24	09/26/13 16:51	7440-22-4	
Sodium	**12700**	ug/L	50.0	1	09/21/13 09:24	09/26/13 16:51	7440-23-5	
Thallium	ND	ug/L	0.10	1	09/21/13 09:24	09/26/13 16:51	7440-28-0	
Total Hardness by 2340B	**661000**	ug/L	1420	20	09/21/13 09:24	09/26/13 16:56		
Vanadium	**0.11**	ug/L	0.10	1	09/21/13 09:24	09/26/13 16:51	7440-62-2	
Zinc	**3960**	ug/L	100	20	09/21/13 09:24	09/26/13 16:56	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**9.2**	ug/L	4.0	1	09/21/13 09:27	09/26/13 20:28	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/21/13 09:27	09/26/13 20:28	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	09/21/13 09:27	09/26/13 20:28	7440-38-2	
Barium, Dissolved	**20.5**	ug/L	0.30	1	09/21/13 09:27	09/26/13 20:28	7440-39-3	
Beryllium, Dissolved	**0.36**	ug/L	0.20	1	09/21/13 09:27	09/26/13 20:28	7440-41-7	
Cadmium, Dissolved	**18.6**	ug/L	0.080	1	09/21/13 09:27	09/26/13 20:28	7440-43-9	
Calcium, Dissolved	**238000**	ug/L	400	20	09/21/13 09:27	09/26/13 20:45	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	09/21/13 09:27	09/26/13 20:28	7440-47-3	
Cobalt, Dissolved	**2.8**	ug/L	0.50	1	09/21/13 09:27	09/26/13 20:28	7440-48-4	
Copper, Dissolved	**6.2**	ug/L	0.50	1	09/21/13 09:27	09/26/13 20:28	7440-50-8	
Iron, Dissolved	**227**	ug/L	50.0	1	09/21/13 09:27	09/26/13 20:28	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	09/21/13 09:27	09/27/13 13:14	7439-92-1	

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ANALYTICAL RESULTS

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

Sample: DR-9_20130911 **Lab ID: 60153027005** Collected: 09/11/13 15:36 Received: 09/13/13 10:40 Matrix: Water

Comments: • All reported results confirmed for total vs. dissolved metals (Ni)

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8		Preparation Method: EPA 200.8					
Magnesium, Dissolved	**19100**	ug/L	5.0	1	09/21/13 09:27	09/26/13 20:28	7439-95-4	
Manganese, Dissolved	**1790**	ug/L	10.0	20	09/21/13 09:27	09/26/13 20:45	7439-96-5	
Molybdenum, Dissolved	**14.4**	ug/L	0.50	1	09/21/13 09:27	09/26/13 20:28	7439-98-7	
Nickel, Dissolved	**6.3**	ug/L	0.50	1	09/21/13 09:27	09/26/13 20:28	7440-02-0	
Potassium, Dissolved	**3090**	ug/L	20.0	1	09/21/13 09:27	09/26/13 20:28	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	09/21/13 09:27	09/26/13 20:28	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/21/13 09:27	09/26/13 20:28	7440-22-4	
Sodium, Dissolved	**12800**	ug/L	50.0	1	09/21/13 09:27	09/26/13 20:28	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/21/13 09:27	09/26/13 20:28	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	09/21/13 09:27	09/26/13 20:28	7440-62-2	
Zinc, Dissolved	**3540**	ug/L	100	20	09/21/13 09:27	09/26/13 20:45	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8		Preparation Method: EPA 200.8					
Aluminum, Dissolved	**615**	ug/L	50.0	1	09/23/13 18:00	09/26/13 11:22	7429-90-5	
Antimony, Dissolved	**0.24J**	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:22	7440-36-0	
Arsenic, Dissolved	**1.0**	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:22	7440-38-2	
Barium, Dissolved	**20.2**	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:22	7440-39-3	
Beryllium, Dissolved	**0.81**	ug/L	0.50	1	09/23/13 18:00	09/26/13 11:22	7440-41-7	
Cadmium, Dissolved	**20.9**	ug/L	0.50	1	09/23/13 18:00	09/26/13 11:22	7440-43-9	
Chromium, Dissolved	**1.2**	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:22	7440-47-3	
Cobalt, Dissolved	**2.6**	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:22	7440-48-4	
Copper, Dissolved	**138**	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:22	7440-50-8	
Iron, Dissolved	**6550**	ug/L	50.0	1	09/23/13 18:00	09/26/13 11:22	7439-89-6	
Lead, Dissolved	**12.3**	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:22	7439-92-1	
Manganese, Dissolved	**1890**	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:22	7439-96-5	
Molybdenum, Dissolved	**16.4**	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:22	7439-98-7	
Nickel, Dissolved	**4.6**	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:22	7440-02-0	
Selenium, Dissolved	**0.14J**	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:22	7782-49-2	
Silver, Dissolved	**0.018J**	ug/L	0.50	1	09/23/13 18:00	09/26/13 11:22	7440-22-4	
Thallium, Dissolved	**0.067J**	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:22	7440-28-0	
Vanadium, Dissolved	ND	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:22	7440-62-2	
Zinc, Dissolved	**3980**	ug/L	100	10	09/27/13 16:48	09/29/13 16:20	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1		Preparation Method: EPA 245.1					
Mercury	ND	ug/L	0.20	1	09/25/13 14:10	09/26/13 12:52	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1		Preparation Method: EPA 245.1					
Mercury, Dissolved	ND	ug/L	0.20	1	09/26/13 14:51	09/26/13 17:18	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1		Preparation Method: EPA 245.1					
Mercury, Dissolved	ND	ug/L	0.20	1	09/25/13 09:00	09/25/13 17:34	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**1290**	umhos/cm	10.0	1		09/20/13 10:53		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

Sample: DR-9_20130911 **Lab ID: 60153027005** Collected: 09/11/13 15:36 Received: 09/13/13 10:40 Matrix: Water

Comments: • All reported results confirmed for total vs. dissolved metals (Ni)

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**823**	mg/L	6.4	1		09/23/13 11:00		
Salinity (as seawater)	**0.64**	PSU	0.014	1		09/23/13 11:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**88.6**	mg/L	20.0	1		09/23/13 10:02		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/23/13 10:02		
Alkalinity, Total as CaCO3	**88.6**	mg/L	20.0	1		09/23/13 10:02		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1070**	mg/L	5.0	1		09/17/13 13:15		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**11.0**	mg/L	5.0	1		09/18/13 10:06		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/18/13 11:40	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	ND	mg/L	1.0	1		09/26/13 18:45	16887-00-6	
Sulfate	**617**	mg/L	100	100		09/27/13 11:36	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/16/13 14:23		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/23/13 15:37	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	0.50	1		09/21/13 07:25	7440-44-0	

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ANALYTICAL RESULTS

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

Sample: GW-1_20130911 **Lab ID: 60153027006** Collected: 09/11/13 11:35 Received: 09/13/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**54200**	ug/L	100	1	09/23/13 18:00	09/25/13 09:40	7440-70-2	
Magnesium, Dissolved	**6850**	ug/L	50.0	1	09/23/13 18:00	09/25/13 09:40	7439-95-4	
Potassium, Dissolved	**921**	ug/L	500	1	09/23/13 18:00	09/25/13 09:40	7440-09-7	
Sodium, Dissolved	**2460**	ug/L	500	1	09/23/13 18:00	09/25/13 09:40	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**5790**	ug/L	4.0	1	09/21/13 09:24	09/26/13 17:01	7429-90-5	
Antimony	ND	ug/L	0.50	1	09/21/13 09:24	09/26/13 17:01	7440-36-0	
Arsenic	**10**	ug/L	0.50	1	09/21/13 09:24	09/26/13 17:01	7440-38-2	
Barium	**200**	ug/L	0.30	1	09/21/13 09:24	09/26/13 17:01	7440-39-3	
Beryllium	**0.53**	ug/L	0.20	1	09/21/13 09:24	09/26/13 17:01	7440-41-7	
Cadmium	**1.2**	ug/L	0.080	1	09/21/13 09:24	09/26/13 17:01	7440-43-9	
Calcium	**53900**	ug/L	400	20	09/21/13 09:24	09/26/13 17:07	7440-70-2	
Chromium	**6.6**	ug/L	0.50	1	09/21/13 09:24	09/26/13 17:01	7440-47-3	
Cobalt	**7.0**	ug/L	0.50	1	09/21/13 09:24	09/26/13 17:01	7440-48-4	
Copper	**41.5**	ug/L	0.50	1	09/21/13 09:24	09/26/13 17:01	7440-50-8	
Iron	**10400**	ug/L	50.0	1	09/21/13 09:24	09/26/13 17:01	7439-89-6	
Lead	**32.4**	ug/L	0.10	1	09/21/13 09:24	09/26/13 17:01	7439-92-1	
Magnesium	**8450**	ug/L	5.0	1	09/21/13 09:24	09/26/13 17:01	7439-95-4	
Manganese	**1320**	ug/L	10.0	20	09/21/13 09:24	09/26/13 17:07	7439-96-5	
Molybdenum	**3.6**	ug/L	0.50	1	09/21/13 09:24	09/26/13 17:01	7439-98-7	
Nickel	**12.4**	ug/L	0.50	1	09/21/13 09:24	09/26/13 17:01	7440-02-0	
Potassium	**2380**	ug/L	20.0	1	09/21/13 09:24	09/26/13 17:01	7440-09-7	
Selenium	**0.71**	ug/L	0.50	1	09/21/13 09:24	09/26/13 17:01	7782-49-2	
Silica	**28700**	ug/L	1070	20	09/21/13 09:24	09/26/13 17:07	7631-86-9	
Silver	ND	ug/L	0.50	1	09/21/13 09:24	09/26/13 17:01	7440-22-4	
Sodium	**2560**	ug/L	50.0	1	09/21/13 09:24	09/26/13 17:01	7440-23-5	
Thallium	**0.21**	ug/L	0.10	1	09/21/13 09:24	09/26/13 17:01	7440-28-0	
Total Hardness by 2340B	**169000**	ug/L	1420	20	09/21/13 09:24	09/26/13 17:07		
Vanadium	**13.4**	ug/L	0.10	1	09/21/13 09:24	09/26/13 17:01	7440-62-2	
Zinc	**122**	ug/L	5.0	1	09/21/13 09:24	09/26/13 17:01	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**72.0**	ug/L	4.0	1	09/21/13 09:27	09/26/13 21:08	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/21/13 09:27	09/26/13 21:08	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	09/21/13 09:27	09/26/13 21:08	7440-38-2	
Barium, Dissolved	**72.5**	ug/L	0.30	1	09/21/13 09:27	09/26/13 21:08	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	09/21/13 09:27	09/26/13 21:08	7440-41-7	
Cadmium, Dissolved	ND	ug/L	0.080	1	09/21/13 09:27	09/26/13 21:08	7440-43-9	
Calcium, Dissolved	**52200**	ug/L	400	20	09/21/13 09:27	09/26/13 21:13	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	09/21/13 09:27	09/26/13 21:08	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	09/21/13 09:27	09/26/13 21:08	7440-48-4	
Copper, Dissolved	**1.9**	ug/L	0.50	1	09/21/13 09:27	09/26/13 21:08	7440-50-8	
Iron, Dissolved	**118**	ug/L	50.0	1	09/21/13 09:27	09/26/13 21:08	7439-89-6	
Lead, Dissolved	**0.48**	ug/L	0.10	1	09/21/13 09:27	09/27/13 13:19	7439-92-1	
Magnesium, Dissolved	**6270**	ug/L	5.0	1	09/21/13 09:27	09/26/13 21:08	7439-95-4	

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ANALYTICAL RESULTS

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

Sample: GW-1_20130911 **Lab ID: 60153027006** Collected: 09/11/13 11:35 Received: 09/13/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	**19.3**	ug/L	0.50	1	09/21/13 09:27	09/26/13 21:08	7439-96-5	
Molybdenum, Dissolved	**1.3**	ug/L	0.50	1	09/21/13 09:27	09/26/13 21:08	7439-98-7	
Nickel, Dissolved	ND	ug/L	0.50	1	09/21/13 09:27	09/26/13 21:08	7440-02-0	
Potassium, Dissolved	**818**	ug/L	20.0	1	09/21/13 09:27	09/26/13 21:08	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	09/21/13 09:27	09/26/13 21:08	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/21/13 09:27	09/26/13 21:08	7440-22-4	
Sodium, Dissolved	**2410**	ug/L	50.0	1	09/21/13 09:27	09/26/13 21:08	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/21/13 09:27	09/26/13 21:08	7440-28-0	
Vanadium, Dissolved	**0.23**	ug/L	0.10	1	09/21/13 09:27	09/26/13 21:08	7440-62-2	
Zinc, Dissolved	**6.6**	ug/L	5.0	1	09/21/13 09:27	09/26/13 21:08	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**1450**	ug/L	50.0	1	09/23/13 18:00	09/26/13 11:39	7429-90-5	
Antimony, Dissolved	**0.11J**	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:39	7440-36-0	
Arsenic, Dissolved	**1.7**	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:39	7440-38-2	
Barium, Dissolved	**151**	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:39	7440-39-3	
Beryllium, Dissolved	**0.28J**	ug/L	0.50	1	09/23/13 18:00	09/26/13 11:39	7440-41-7	
Cadmium, Dissolved	**0.74**	ug/L	0.50	1	09/23/13 18:00	09/26/13 11:39	7440-43-9	
Chromium, Dissolved	**2.2**	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:39	7440-47-3	
Cobalt, Dissolved	**3.6**	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:39	7440-48-4	
Copper, Dissolved	**18.2**	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:39	7440-50-8	
Iron, Dissolved	**2580**	ug/L	50.0	1	09/23/13 18:00	09/26/13 11:39	7439-89-6	
Lead, Dissolved	**18.3**	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:39	7439-92-1	
Manganese, Dissolved	**820**	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:39	7439-96-5	
Molybdenum, Dissolved	**0.59J**	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:39	7439-98-7	B
Nickel, Dissolved	**6.3**	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:39	7440-02-0	
Selenium, Dissolved	**0.79J**	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:39	7782-49-2	
Silver, Dissolved	**0.36J**	ug/L	0.50	1	09/23/13 18:00	09/26/13 11:39	7440-22-4	
Thallium, Dissolved	**0.026J**	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:39	7440-28-0	
Vanadium, Dissolved	**3.2**	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:39	7440-62-2	
Zinc, Dissolved	**57.3**	ug/L	10.0	1	09/27/13 16:48	09/29/13 16:25	7440-66-6	M1,R1
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	**0.68**	ug/L	0.20	1	09/25/13 14:10	09/26/13 12:59	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/26/13 14:51	09/26/13 17:20	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/25/13 09:00	09/25/13 17:36	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**354**	umhos/cm	10.0	1		09/20/13 10:59		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**227**	mg/L	6.4	1		09/23/13 11:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

Sample: GW-1_20130911 **Lab ID: 60153027006** Collected: 09/11/13 11:35 Received: 09/13/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.17**	PSU	0.014	1		09/23/13 11:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**110**	mg/L	20.0	1		09/23/13 10:06		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/23/13 10:06		
Alkalinity, Total as CaCO3	**110**	mg/L	20.0	1		09/23/13 10:06		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**218**	mg/L	5.0	1		09/17/13 13:15		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**256**	mg/L	5.0	1		09/18/13 10:07		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/18/13 11:40	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.5**	mg/L	1.0	1		09/26/13 18:59	16887-00-6	
Sulfate	**47.2**	mg/L	5.0	5		09/27/13 11:50	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/16/13 14:24		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/23/13 15:38	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.3**	mg/L	0.50	1		09/21/13 07:44	7440-44-0	

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ANALYTICAL RESULTS

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

Sample: GW-5_20130911 **Lab ID: 60153027007** Collected: 09/11/13 12:40 Received: 09/13/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**664000**	ug/L	1000	10	09/23/13 18:00	09/25/13 10:10	7440-70-2	
Magnesium, Dissolved	**54200**	ug/L	50.0	1	09/23/13 18:00	09/25/13 09:44	7439-95-4	
Potassium, Dissolved	**5990**	ug/L	500	1	09/23/13 18:00	09/25/13 09:44	7440-09-7	
Sodium, Dissolved	**8160**	ug/L	500	1	09/23/13 18:00	09/25/13 09:44	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**75700**	ug/L	80.0	20	09/21/13 09:24	09/26/13 15:22	7429-90-5	
Antimony	**4.9**	ug/L	0.50	1	09/21/13 09:24	09/26/13 15:16	7440-36-0	
Arsenic	**661**	ug/L	10.0	20	09/21/13 09:24	09/26/13 15:22	7440-38-2	
Barium	**115**	ug/L	0.30	1	09/21/13 09:24	09/26/13 15:16	7440-39-3	
Beryllium	**6.5**	ug/L	0.20	1	09/21/13 09:24	09/26/13 15:16	7440-41-7	
Cadmium	**332**	ug/L	0.080	1	09/21/13 09:24	09/26/13 15:16	7440-43-9	
Calcium	**663000**	ug/L	4000	200	09/21/13 09:24	09/26/13 15:28	7440-70-2	
Chromium	**87.0**	ug/L	0.50	1	09/21/13 09:24	09/26/13 15:16	7440-47-3	
Cobalt	**161**	ug/L	0.50	1	09/21/13 09:24	09/26/13 15:16	7440-48-4	
Copper	**8320**	ug/L	10.0	20	09/21/13 09:24	09/26/13 15:22	7440-50-8	
Iron	**362000**	ug/L	1000	20	09/21/13 09:24	09/26/13 15:22	7439-89-6	
Lead	**58900**	ug/L	20.0	200	09/21/13 09:24	09/26/13 15:28	7439-92-1	
Magnesium	**93000**	ug/L	100	20	09/21/13 09:24	09/26/13 15:22	7439-95-4	
Manganese	**26900**	ug/L	100	200	09/21/13 09:24	09/26/13 15:28	7439-96-5	
Molybdenum	**69.3**	ug/L	0.50	1	09/21/13 09:24	09/26/13 15:16	7439-98-7	
Nickel	**203**	ug/L	0.50	1	09/21/13 09:24	09/26/13 15:16	7440-02-0	
Potassium	**16100**	ug/L	20.0	1	09/21/13 09:24	09/26/13 15:16	7440-09-7	
Selenium	**7.5**	ug/L	0.50	1	09/21/13 09:24	09/26/13 15:16	7782-49-2	
Silica	**197000**	ug/L	10700	200	09/21/13 09:24	09/26/13 15:28	7631-86-9	
Silver	**373**	ug/L	10.0	20	09/21/13 09:24	09/26/13 15:22	7440-22-4	
Sodium	**8960**	ug/L	50.0	1	09/21/13 09:24	09/26/13 15:16	7440-23-5	
Thallium	**6.6**	ug/L	2.0	20	09/21/13 09:24	09/26/13 15:22	7440-28-0	
Total Hardness by 2340B	**2040000**	ug/L	14200	200	09/21/13 09:24	09/26/13 15:28		
Vanadium	**125**	ug/L	0.10	1	09/21/13 09:24	09/26/13 15:16	7440-62-2	
Zinc	**167000**	ug/L	2500	500	09/21/13 09:24	09/27/13 12:23	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	ND	ug/L	4.0	1	09/21/13 09:27	09/26/13 19:24	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/21/13 09:27	09/26/13 19:24	7440-36-0	
Arsenic, Dissolved	**34.6**	ug/L	0.50	1	09/21/13 09:27	09/26/13 19:24	7440-38-2	
Barium, Dissolved	**13.7**	ug/L	0.30	1	09/21/13 09:27	09/26/13 19:24	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	09/21/13 09:27	09/26/13 19:24	7440-41-7	
Cadmium, Dissolved	ND	ug/L	0.080	1	09/21/13 09:27	09/26/13 19:24	7440-43-9	
Calcium, Dissolved	**554000**	ug/L	4000	200	09/21/13 09:27	09/26/13 19:35	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	09/21/13 09:27	09/26/13 19:24	7440-47-3	
Cobalt, Dissolved	**6.0**	ug/L	0.50	1	09/21/13 09:27	09/26/13 19:24	7440-48-4	
Copper, Dissolved	**1.3**	ug/L	0.50	1	09/21/13 09:27	09/26/13 19:24	7440-50-8	
Iron, Dissolved	**888**	ug/L	50.0	1	09/21/13 09:27	09/26/13 19:24	7439-89-6	
Lead, Dissolved	**4.2**	ug/L	0.10	1	09/21/13 09:27	09/26/13 19:24	7439-92-1	
Magnesium, Dissolved	**51000**	ug/L	100	20	09/21/13 09:27	09/26/13 19:29	7439-95-4	

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ANALYTICAL RESULTS

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

Sample: GW-5_20130911 **Lab ID: 60153027007** Collected: 09/11/13 12:40 Received: 09/13/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	**3390**	ug/L	10.0	20	09/21/13 09:27	09/26/13 19:29	7439-96-5	
Molybdenum, Dissolved	**12.3**	ug/L	0.50	1	09/21/13 09:27	09/26/13 19:24	7439-98-7	
Nickel, Dissolved	**13.0**	ug/L	0.50	1	09/21/13 09:27	09/26/13 19:24	7440-02-0	
Potassium, Dissolved	**5120**	ug/L	20.0	1	09/21/13 09:27	09/26/13 19:24	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	09/21/13 09:27	09/26/13 19:24	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/21/13 09:27	09/26/13 19:24	7440-22-4	
Sodium, Dissolved	**8460**	ug/L	50.0	1	09/21/13 09:27	09/26/13 19:24	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/21/13 09:27	09/26/13 19:24	7440-28-0	
Vanadium, Dissolved	**0.10**	ug/L	0.10	1	09/21/13 09:27	09/26/13 19:24	7440-62-2	
Zinc, Dissolved	**3620**	ug/L	100	20	09/21/13 09:27	09/26/13 19:29	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**28600**	ug/L	50.0	1	09/23/13 18:00	09/26/13 11:43	7429-90-5	
Antimony, Dissolved	**0.25J**	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:43	7440-36-0	
Arsenic, Dissolved	**197**	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:43	7440-38-2	
Barium, Dissolved	**21.2**	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:43	7440-39-3	
Beryllium, Dissolved	**3.6**	ug/L	0.50	1	09/23/13 18:00	09/26/13 11:43	7440-41-7	
Cadmium, Dissolved	**135**	ug/L	0.50	1	09/23/13 18:00	09/26/13 11:43	7440-43-9	
Chromium, Dissolved	**34.9**	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:43	7440-47-3	
Cobalt, Dissolved	**44.0**	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:43	7440-48-4	
Copper, Dissolved	**86.5**	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:43	7440-50-8	
Iron, Dissolved	**139000**	ug/L	2500	50	09/23/13 18:00	09/26/13 11:47	7439-89-6	
Lead, Dissolved	**4040**	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:43	7439-92-1	
Manganese, Dissolved	**15900**	ug/L	50.0	50	09/23/13 18:00	09/26/13 11:47	7439-96-5	
Molybdenum, Dissolved	**0.89J**	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:43	7439-98-7	B
Nickel, Dissolved	**76.7**	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:43	7440-02-0	
Selenium, Dissolved	**11.8**	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:43	7782-49-2	
Silver, Dissolved	**0.010J**	ug/L	0.50	1	09/23/13 18:00	09/26/13 11:43	7440-22-4	
Thallium, Dissolved	**0.54J**	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:43	7440-28-0	
Vanadium, Dissolved	**58.3**	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:43	7440-62-2	
Zinc, Dissolved	**104000**	ug/L	500	50	09/27/13 16:48	09/29/13 16:49	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	**1.1**	ug/L	0.20	1	09/25/13 14:10	09/26/13 13:02	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/26/13 14:51	09/26/13 17:22	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/25/13 09:00	09/25/13 17:43	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**2330**	umhos/cm	10.0	1		09/20/13 11:06		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**1490**	mg/L	6.4	1		09/23/13 11:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

Sample: GW-5_20130911 **Lab ID: 60153027007** Collected: 09/11/13 12:40 Received: 09/13/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**1.2**	PSU	0.014	1		09/23/13 11:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**198**	mg/L	20.0	1		09/23/13 10:10		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/23/13 10:10		
Alkalinity, Total as CaCO3	**198**	mg/L	20.0	1		09/23/13 10:10		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1080**	mg/L	5.0	1		09/17/13 13:15		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**2600**	mg/L	5.0	1		09/18/13 10:07		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/18/13 11:46	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.4**	mg/L	1.0	1		09/26/13 19:42	16887-00-6	
Sulfate	**1410**	mg/L	200	200		09/27/13 12:04	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**0.10**	mg/L	0.10	1		09/16/13 14:26		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/23/13 15:38	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**0.83**	mg/L	0.50	1		09/21/13 08:03	7440-44-0	

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ANALYTICAL RESULTS

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

Sample: MW-104_20130911 **Lab ID: 60153027008** Collected: 09/11/13 15:03 Received: 09/13/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**248000**	ug/L	100	1	09/23/13 18:00	09/25/13 09:47	7440-70-2	
Magnesium, Dissolved	**21800**	ug/L	50.0	1	09/23/13 18:00	09/25/13 09:47	7439-95-4	
Potassium, Dissolved	**5070**	ug/L	500	1	09/23/13 18:00	09/25/13 09:47	7440-09-7	
Sodium, Dissolved	**16200**	ug/L	500	1	09/23/13 18:00	09/25/13 09:47	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**757**	ug/L	4.0	1	09/21/13 09:24	09/26/13 17:29	7429-90-5	
Antimony	ND	ug/L	0.50	1	09/21/13 09:24	09/26/13 17:29	7440-36-0	
Arsenic	**1.0**	ug/L	0.50	1	09/21/13 09:24	09/26/13 17:29	7440-38-2	
Barium	**42.5**	ug/L	0.30	1	09/21/13 09:24	09/26/13 17:29	7440-39-3	
Beryllium	ND	ug/L	0.20	1	09/21/13 09:24	09/26/13 17:29	7440-41-7	
Cadmium	**2.7**	ug/L	0.080	1	09/21/13 09:24	09/26/13 17:29	7440-43-9	
Calcium	**244000**	ug/L	400	20	09/21/13 09:24	09/26/13 17:34	7440-70-2	
Chromium	**1.5**	ug/L	0.50	1	09/21/13 09:24	09/26/13 17:29	7440-47-3	
Cobalt	**0.72**	ug/L	0.50	1	09/21/13 09:24	09/26/13 17:29	7440-48-4	
Copper	**5.8**	ug/L	0.50	1	09/21/13 09:24	09/26/13 17:29	7440-50-8	
Iron	**1220**	ug/L	50.0	1	09/21/13 09:24	09/26/13 17:29	7439-89-6	
Lead	**8.7**	ug/L	0.10	1	09/21/13 09:24	09/26/13 17:29	7439-92-1	
Magnesium	**21400**	ug/L	5.0	1	09/21/13 09:24	09/26/13 17:29	7439-95-4	
Manganese	**379**	ug/L	0.50	1	09/21/13 09:24	09/26/13 17:29	7439-96-5	
Molybdenum	**13.0**	ug/L	0.50	1	09/21/13 09:24	09/26/13 17:29	7439-98-7	
Nickel	**1.7**	ug/L	0.50	1	09/21/13 09:24	09/26/13 17:29	7440-02-0	
Potassium	**5150**	ug/L	20.0	1	09/21/13 09:24	09/26/13 17:29	7440-09-7	
Selenium	**1.5**	ug/L	0.50	1	09/21/13 09:24	09/26/13 17:29	7782-49-2	
Silica	**20900**	ug/L	1070	20	09/21/13 09:24	09/26/13 17:34	7631-86-9	
Silver	ND	ug/L	0.50	1	09/21/13 09:24	09/26/13 17:29	7440-22-4	
Sodium	**15700**	ug/L	50.0	1	09/21/13 09:24	09/26/13 17:29	7440-23-5	
Thallium	ND	ug/L	0.10	1	09/21/13 09:24	09/26/13 17:29	7440-28-0	
Total Hardness by 2340B	**696000**	ug/L	1420	20	09/21/13 09:24	09/26/13 17:34		
Vanadium	**1.7**	ug/L	0.10	1	09/21/13 09:24	09/26/13 17:29	7440-62-2	
Zinc	**693**	ug/L	100	20	09/21/13 09:24	09/26/13 17:34	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	ND	ug/L	4.0	1	09/21/13 09:27	09/26/13 21:18	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/21/13 09:27	09/26/13 21:18	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	09/21/13 09:27	09/26/13 21:18	7440-38-2	
Barium, Dissolved	**17.2**	ug/L	0.30	1	09/21/13 09:27	09/26/13 21:18	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	09/21/13 09:27	09/26/13 21:18	7440-41-7	
Cadmium, Dissolved	**2.3**	ug/L	0.080	1	09/21/13 09:27	09/26/13 21:18	7440-43-9	
Calcium, Dissolved	**248000**	ug/L	400	20	09/21/13 09:27	09/26/13 21:23	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	09/21/13 09:27	09/26/13 21:18	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	09/21/13 09:27	09/26/13 21:18	7440-48-4	
Copper, Dissolved	**1.3**	ug/L	0.50	1	09/21/13 09:27	09/26/13 21:18	7440-50-8	
Iron, Dissolved	ND	ug/L	50.0	1	09/21/13 09:27	09/26/13 21:18	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	09/21/13 09:27	09/26/13 21:18	7439-92-1	
Magnesium, Dissolved	**21800**	ug/L	5.0	1	09/21/13 09:27	09/26/13 21:18	7439-95-4	

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ANALYTICAL RESULTS

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

Sample: MW-104_20130911 **Lab ID: 60153027008** Collected: 09/11/13 15:03 Received: 09/13/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	**40.2**	ug/L	0.50	1	09/21/13 09:27	09/26/13 21:18	7439-96-5	
Molybdenum, Dissolved	**12.4**	ug/L	0.50	1	09/21/13 09:27	09/26/13 21:18	7439-98-7	
Nickel, Dissolved	**2.0**	ug/L	0.50	1	09/21/13 09:27	09/26/13 21:18	7440-02-0	
Potassium, Dissolved	**5090**	ug/L	20.0	1	09/21/13 09:27	09/26/13 21:18	7440-09-7	
Selenium, Dissolved	**1.5**	ug/L	0.50	1	09/21/13 09:27	09/26/13 21:18	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/21/13 09:27	09/26/13 21:18	7440-22-4	
Sodium, Dissolved	**16100**	ug/L	50.0	1	09/21/13 09:27	09/26/13 21:18	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/21/13 09:27	09/26/13 21:18	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	09/21/13 09:27	09/26/13 21:18	7440-62-2	
Zinc, Dissolved	**603**	ug/L	100	20	09/21/13 09:27	09/26/13 21:23	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**396**	ug/L	50.0	1	09/23/13 18:00	09/26/13 12:03	7429-90-5	
Antimony, Dissolved	**0.064J**	ug/L	1.0	1	09/23/13 18:00	09/26/13 12:03	7440-36-0	
Arsenic, Dissolved	**0.49J**	ug/L	1.0	1	09/23/13 18:00	09/26/13 12:03	7440-38-2	
Barium, Dissolved	**29.3**	ug/L	1.0	1	09/23/13 18:00	09/26/13 12:03	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.50	1	09/23/13 18:00	09/26/13 12:03	7440-41-7	
Cadmium, Dissolved	**2.8**	ug/L	0.50	1	09/23/13 18:00	09/26/13 12:03	7440-43-9	
Chromium, Dissolved	**1.6**	ug/L	1.0	1	09/23/13 18:00	09/26/13 12:03	7440-47-3	
Cobalt, Dissolved	**0.46J**	ug/L	1.0	1	09/23/13 18:00	09/26/13 12:03	7440-48-4	
Copper, Dissolved	**4.6**	ug/L	1.0	1	09/23/13 18:00	09/26/13 12:03	7440-50-8	
Iron, Dissolved	**791**	ug/L	50.0	1	09/23/13 18:00	09/26/13 12:03	7439-89-6	
Lead, Dissolved	**7.0**	ug/L	1.0	1	09/23/13 18:00	09/26/13 12:03	7439-92-1	
Manganese, Dissolved	**307**	ug/L	1.0	1	09/23/13 18:00	09/26/13 12:03	7439-96-5	
Molybdenum, Dissolved	**10.7**	ug/L	1.0	1	09/23/13 18:00	09/26/13 12:03	7439-98-7	
Nickel, Dissolved	**1.4**	ug/L	1.0	1	09/23/13 18:00	09/26/13 12:03	7440-02-0	
Selenium, Dissolved	**1.5**	ug/L	1.0	1	09/23/13 18:00	09/26/13 12:03	7782-49-2	
Silver, Dissolved	**0.11J**	ug/L	0.50	1	09/23/13 18:00	09/26/13 12:03	7440-22-4	
Thallium, Dissolved	ND	ug/L	1.0	1	09/23/13 18:00	09/26/13 12:03	7440-28-0	
Vanadium, Dissolved	**0.54J**	ug/L	1.0	1	09/23/13 18:00	09/26/13 12:03	7440-62-2	
Zinc, Dissolved	**629**	ug/L	10.0	1	09/27/13 16:48	09/29/13 16:53	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/25/13 14:10	09/26/13 13:04	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/26/13 14:51	09/26/13 17:28	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/25/13 09:00	09/25/13 17:45	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**1280**	umhos/cm	10.0	1		09/20/13 11:08		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**821**	mg/L	6.4	1		09/23/13 11:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

Sample: MW-104_20130911 **Lab ID: 60153027008** Collected: 09/11/13 15:03 Received: 09/13/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.64**	PSU	0.014	1		09/23/13 11:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**101**	mg/L	20.0	1		09/24/13 10:13		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/24/13 10:13		
Alkalinity, Total as CaCO3	**101**	mg/L	20.0	1		09/24/13 10:13		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**2360**	mg/L	5.0	1		09/17/13 13:15		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**33.0**	mg/L	5.0	1		09/18/13 10:08		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/18/13 11:48	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	ND	mg/L	1.0	1		09/26/13 19:57	16887-00-6	
Sulfate	**642**	mg/L	100	100		09/27/13 12:19	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/16/13 14:27		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/23/13 15:39	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	0.50	1		09/21/13 08:22	7440-44-0	

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ANALYTICAL RESULTS

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

Sample: MW-4 DEEP_20130911 **Lab ID: 60153027009** Collected: 09/11/13 14:30 Received: 09/13/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**292000**	ug/L	100	1	09/23/13 18:00	09/25/13 09:50	7440-70-2	
Magnesium, Dissolved	**33300**	ug/L	50.0	1	09/23/13 18:00	09/25/13 09:50	7439-95-4	
Potassium, Dissolved	**3360**	ug/L	500	1	09/23/13 18:00	09/25/13 09:50	7440-09-7	
Sodium, Dissolved	**6940**	ug/L	500	1	09/23/13 18:00	09/25/13 09:50	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**1900**	ug/L	4.0	1	09/21/13 09:24	09/26/13 17:40	7429-90-5	
Antimony	ND	ug/L	0.50	1	09/21/13 09:24	09/26/13 17:40	7440-36-0	
Arsenic	**4.1**	ug/L	0.50	1	09/21/13 09:24	09/26/13 17:40	7440-38-2	
Barium	**96.8**	ug/L	0.30	1	09/21/13 09:24	09/26/13 17:40	7440-39-3	
Beryllium	**0.36**	ug/L	0.20	1	09/21/13 09:24	09/26/13 17:40	7440-41-7	
Cadmium	**3.2**	ug/L	0.080	1	09/21/13 09:24	09/26/13 17:40	7440-43-9	
Calcium	**292000**	ug/L	400	20	09/21/13 09:24	09/26/13 17:45	7440-70-2	
Chromium	**2.1**	ug/L	0.50	1	09/21/13 09:24	09/26/13 17:40	7440-47-3	
Cobalt	**3.1**	ug/L	0.50	1	09/21/13 09:24	09/26/13 17:40	7440-48-4	
Copper	**23.5**	ug/L	0.50	1	09/21/13 09:24	09/26/13 17:40	7440-50-8	
Iron	**3280**	ug/L	50.0	1	09/21/13 09:24	09/26/13 17:40	7439-89-6	
Lead	**21.1**	ug/L	0.10	1	09/21/13 09:24	09/26/13 17:40	7439-92-1	
Magnesium	**34200**	ug/L	100	20	09/21/13 09:24	09/26/13 17:45	7439-95-4	
Manganese	**565**	ug/L	10.0	20	09/21/13 09:24	09/26/13 17:45	7439-96-5	
Molybdenum	**3.9**	ug/L	0.50	1	09/21/13 09:24	09/26/13 17:40	7439-98-7	
Nickel	**2.8**	ug/L	0.50	1	09/21/13 09:24	09/26/13 17:40	7440-02-0	
Potassium	**3600**	ug/L	20.0	1	09/21/13 09:24	09/26/13 17:40	7440-09-7	
Selenium	**22.7**	ug/L	0.50	1	09/21/13 09:24	09/26/13 17:40	7782-49-2	
Silica	**23500**	ug/L	1070	20	09/21/13 09:24	09/26/13 17:45	7631-86-9	
Silver	ND	ug/L	0.50	1	09/21/13 09:24	09/26/13 17:40	7440-22-4	
Sodium	**6440**	ug/L	50.0	1	09/21/13 09:24	09/26/13 17:40	7440-23-5	
Thallium	**0.12**	ug/L	0.10	1	09/21/13 09:24	09/26/13 17:40	7440-28-0	
Total Hardness by 2340B	**871000**	ug/L	1420	20	09/21/13 09:24	09/26/13 17:45		
Vanadium	**3.9**	ug/L	0.10	1	09/21/13 09:24	09/26/13 17:40	7440-62-2	
Zinc	**424**	ug/L	5.0	1	09/21/13 09:24	09/26/13 17:40	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**42.7**	ug/L	4.0	1	09/21/13 09:27	09/26/13 21:29	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/21/13 09:27	09/26/13 21:29	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	09/21/13 09:27	09/26/13 21:29	7440-38-2	
Barium, Dissolved	**20.9**	ug/L	0.30	1	09/21/13 09:27	09/26/13 21:29	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	09/21/13 09:27	09/26/13 21:29	7440-41-7	
Cadmium, Dissolved	**2.4**	ug/L	0.080	1	09/21/13 09:27	09/26/13 21:29	7440-43-9	
Calcium, Dissolved	**297000**	ug/L	400	20	09/21/13 09:27	09/26/13 21:34	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	09/21/13 09:27	09/26/13 21:29	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	09/21/13 09:27	09/26/13 21:29	7440-48-4	
Copper, Dissolved	**4.3**	ug/L	0.50	1	09/21/13 09:27	09/26/13 21:29	7440-50-8	
Iron, Dissolved	ND	ug/L	50.0	1	09/21/13 09:27	09/26/13 21:29	7439-89-6	
Lead, Dissolved	**0.12**	ug/L	0.10	1	09/21/13 09:27	09/27/13 13:24	7439-92-1	
Magnesium, Dissolved	**34000**	ug/L	100	20	09/21/13 09:27	09/26/13 21:34	7439-95-4	

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ANALYTICAL RESULTS

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

Sample: MW-4 DEEP_20130911 **Lab ID: 60153027009** Collected: 09/11/13 14:30 Received: 09/13/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	**7.6**	ug/L	0.50	1	09/21/13 09:27	09/26/13 21:29	7439-96-5	
Molybdenum, Dissolved	**2.1**	ug/L	0.50	1	09/21/13 09:27	09/26/13 21:29	7439-98-7	
Nickel, Dissolved	**1.1**	ug/L	0.50	1	09/21/13 09:27	09/26/13 21:29	7440-02-0	
Potassium, Dissolved	**3280**	ug/L	20.0	1	09/21/13 09:27	09/26/13 21:29	7440-09-7	
Selenium, Dissolved	**22.9**	ug/L	0.50	1	09/21/13 09:27	09/26/13 21:29	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/21/13 09:27	09/26/13 21:29	7440-22-4	
Sodium, Dissolved	**6570**	ug/L	50.0	1	09/21/13 09:27	09/26/13 21:29	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/21/13 09:27	09/26/13 21:29	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	09/21/13 09:27	09/26/13 21:29	7440-62-2	
Zinc, Dissolved	**354**	ug/L	5.0	1	09/21/13 09:27	09/26/13 21:29	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**1040**	ug/L	50.0	1	09/23/13 18:00	09/26/13 12:07	7429-90-5	
Antimony, Dissolved	**0.065J**	ug/L	1.0	1	09/23/13 18:00	09/26/13 12:07	7440-36-0	
Arsenic, Dissolved	**2.7**	ug/L	1.0	1	09/23/13 18:00	09/26/13 12:07	7440-38-2	
Barium, Dissolved	**54.8**	ug/L	1.0	1	09/23/13 18:00	09/26/13 12:07	7440-39-3	
Beryllium, Dissolved	**0.23J**	ug/L	0.50	1	09/23/13 18:00	09/26/13 12:07	7440-41-7	
Cadmium, Dissolved	**3.1**	ug/L	0.50	1	09/23/13 18:00	09/26/13 12:07	7440-43-9	
Chromium, Dissolved	**2.4**	ug/L	1.0	1	09/23/13 18:00	09/26/13 12:07	7440-47-3	
Cobalt, Dissolved	**1.9**	ug/L	1.0	1	09/23/13 18:00	09/26/13 12:07	7440-48-4	
Copper, Dissolved	**21.8**	ug/L	1.0	1	09/23/13 18:00	09/26/13 12:07	7440-50-8	
Iron, Dissolved	**2170**	ug/L	50.0	1	09/23/13 18:00	09/26/13 12:07	7439-89-6	
Lead, Dissolved	**17.9**	ug/L	1.0	1	09/23/13 18:00	09/26/13 12:07	7439-92-1	
Manganese, Dissolved	**313**	ug/L	1.0	1	09/23/13 18:00	09/26/13 12:07	7439-96-5	
Molybdenum, Dissolved	**1.0**	ug/L	1.0	1	09/23/13 18:00	09/26/13 12:07	7439-98-7	B
Nickel, Dissolved	**2.5**	ug/L	1.0	1	09/23/13 18:00	09/26/13 12:07	7440-02-0	
Selenium, Dissolved	**23.5**	ug/L	1.0	1	09/23/13 18:00	09/26/13 12:07	7782-49-2	
Silver, Dissolved	**0.29J**	ug/L	0.50	1	09/23/13 18:00	09/26/13 12:07	7440-22-4	
Thallium, Dissolved	ND	ug/L	1.0	1	09/23/13 18:00	09/26/13 12:07	7440-28-0	
Vanadium, Dissolved	**1.8**	ug/L	1.0	1	09/23/13 18:00	09/26/13 12:07	7440-62-2	
Zinc, Dissolved	**396**	ug/L	10.0	1	09/27/13 16:48	09/29/13 17:01	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/25/13 14:10	09/26/13 13:07	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/26/13 14:51	09/26/13 17:30	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/25/13 09:00	09/25/13 17:47	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**1490**	umhos/cm	10.0	1		09/20/13 11:10		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**953**	mg/L	6.4	1		09/23/13 11:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

Sample: MW-4 DEEP_20130911 **Lab ID: 60153027009** Collected: 09/11/13 14:30 Received: 09/13/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.75**	PSU	0.014	1		09/23/13 11:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**412**	mg/L	20.0	1		09/24/13 10:18		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/24/13 10:18		
Alkalinity, Total as CaCO3	**412**	mg/L	20.0	1		09/24/13 10:18		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1170**	mg/L	5.0	1		09/17/13 13:16		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**65.0**	mg/L	5.0	1		09/18/13 10:08		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/18/13 11:49	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.1**	mg/L	1.0	1		09/26/13 20:11	16887-00-6	
Sulfate	**489**	mg/L	100	100		09/27/13 12:33	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/16/13 14:27		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/23/13 15:41	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	0.50	1		09/21/13 08:41	7440-44-0	

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ANALYTICAL RESULTS

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

Sample: MW-5 DEEP_20130911 **Lab ID: 60153027010** Collected: 09/11/13 13:30 Received: 09/13/13 10:40 Matrix: Water

Comments: • All reported results confirmed for total vs. dissolved metals (Ni)

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7	Preparation Method: EPA 200.7						
Calcium, Dissolved	**318000**	ug/L	100	1	09/23/13 18:00	09/25/13 09:53	7440-70-2	M1
Magnesium, Dissolved	**51300**	ug/L	50.0	1	09/23/13 18:00	09/25/13 09:53	7439-95-4	
Potassium, Dissolved	**8130**	ug/L	500	1	09/23/13 18:00	09/25/13 09:53	7440-09-7	
Sodium, Dissolved	**7890**	ug/L	500	1	09/23/13 18:00	09/25/13 09:53	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8	Preparation Method: EPA 200.8						
Aluminum	**1400**	ug/L	4.0	1	09/21/13 09:24	09/26/13 17:50	7429-90-5	
Antimony	ND	ug/L	0.50	1	09/21/13 09:24	09/26/13 17:50	7440-36-0	
Arsenic	**161**	ug/L	0.50	1	09/21/13 09:24	09/26/13 17:50	7440-38-2	
Barium	**33.4**	ug/L	0.30	1	09/21/13 09:24	09/26/13 17:50	7440-39-3	
Beryllium	**1.6**	ug/L	0.20	1	09/21/13 09:24	09/26/13 17:50	7440-41-7	
Cadmium	**0.44**	ug/L	0.080	1	09/21/13 09:24	09/26/13 17:50	7440-43-9	
Calcium	**326000**	ug/L	1000	50	09/21/13 09:24	09/26/13 17:55	7440-70-2	
Chromium	ND	ug/L	0.50	1	09/21/13 09:24	09/26/13 17:50	7440-47-3	
Cobalt	**8.7**	ug/L	0.50	1	09/21/13 09:24	09/26/13 17:50	7440-48-4	
Copper	**9.0**	ug/L	0.50	1	09/21/13 09:24	09/26/13 17:50	7440-50-8	
Iron	**67600**	ug/L	2500	50	09/21/13 09:24	09/26/13 17:55	7439-89-6	
Lead	**66.3**	ug/L	0.10	1	09/21/13 09:24	09/26/13 17:50	7439-92-1	
Magnesium	**52000**	ug/L	250	50	09/21/13 09:24	09/26/13 17:55	7439-95-4	
Manganese	**10300**	ug/L	25.0	50	09/21/13 09:24	09/26/13 17:55	7439-96-5	
Molybdenum	**10.9**	ug/L	0.50	1	09/21/13 09:24	09/26/13 17:50	7439-98-7	
Nickel	**8.0**	ug/L	0.50	1	09/21/13 09:24	09/26/13 17:50	7440-02-0	
Potassium	**7880**	ug/L	20.0	1	09/21/13 09:24	09/26/13 17:50	7440-09-7	
Selenium	ND	ug/L	0.50	1	09/21/13 09:24	09/26/13 17:50	7782-49-2	
Silica	**27200**	ug/L	2680	50	09/21/13 09:24	09/26/13 17:55	7631-86-9	
Silver	ND	ug/L	0.50	1	09/21/13 09:24	09/26/13 17:50	7440-22-4	
Sodium	**7260**	ug/L	50.0	1	09/21/13 09:24	09/26/13 17:50	7440-23-5	
Thallium	**0.10**	ug/L	0.10	1	09/21/13 09:24	09/26/13 17:50	7440-28-0	
Total Hardness by 2340B	**1030000**	ug/L	3550	50	09/21/13 09:24	09/26/13 17:55		
Vanadium	**1.8**	ug/L	0.10	1	09/21/13 09:24	09/26/13 17:50	7440-62-2	
Zinc	**8460**	ug/L	250	50	09/21/13 09:24	09/26/13 17:55	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8	Preparation Method: EPA 200.8						
Aluminum, Dissolved	**468**	ug/L	4.0	1	09/21/13 09:27	09/26/13 21:39	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/21/13 09:27	09/26/13 21:39	7440-36-0	
Arsenic, Dissolved	**119**	ug/L	0.50	1	09/21/13 09:27	09/26/13 21:39	7440-38-2	
Barium, Dissolved	**14.8**	ug/L	0.30	1	09/21/13 09:27	09/26/13 21:39	7440-39-3	
Beryllium, Dissolved	**1.5**	ug/L	0.20	1	09/21/13 09:27	09/26/13 21:39	7440-41-7	
Cadmium, Dissolved	ND	ug/L	0.080	1	09/21/13 09:27	09/26/13 21:39	7440-43-9	
Calcium, Dissolved	**327000**	ug/L	1000	50	09/21/13 09:27	09/26/13 21:44	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	09/21/13 09:27	09/26/13 21:39	7440-47-3	
Cobalt, Dissolved	**8.6**	ug/L	0.50	1	09/21/13 09:27	09/26/13 21:39	7440-48-4	
Copper, Dissolved	**1.0**	ug/L	0.50	1	09/21/13 09:27	09/26/13 21:39	7440-50-8	
Iron, Dissolved	**61000**	ug/L	2500	50	09/21/13 09:27	09/26/13 21:44	7439-89-6	
Lead, Dissolved	**0.33**	ug/L	0.10	1	09/21/13 09:27	09/27/13 13:29	7439-92-1	

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ANALYTICAL RESULTS

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

Sample: MW-5 DEEP_20130911 **Lab ID: 60153027010** Collected: 09/11/13 13:30 Received: 09/13/13 10:40 Matrix: Water

Comments: • All reported results confirmed for total vs. dissolved metals (Ni)

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8		Preparation Method: EPA 200.8					
Magnesium, Dissolved	**53800**	ug/L	250	50	09/21/13 09:27	09/26/13 21:44	7439-95-4	
Manganese, Dissolved	**10200**	ug/L	25.0	50	09/21/13 09:27	09/26/13 21:44	7439-96-5	
Molybdenum, Dissolved	**11.7**	ug/L	0.50	1	09/21/13 09:27	09/26/13 21:39	7439-98-7	
Nickel, Dissolved	**11.8**	ug/L	0.50	1	09/21/13 09:27	09/26/13 21:39	7440-02-0	
Potassium, Dissolved	**7910**	ug/L	20.0	1	09/21/13 09:27	09/26/13 21:39	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	09/21/13 09:27	09/26/13 21:39	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/21/13 09:27	09/26/13 21:39	7440-22-4	
Sodium, Dissolved	**7370**	ug/L	50.0	1	09/21/13 09:27	09/26/13 21:39	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/21/13 09:27	09/26/13 21:39	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	09/21/13 09:27	09/26/13 21:39	7440-62-2	
Zinc, Dissolved	**8100**	ug/L	250	50	09/21/13 09:27	09/26/13 21:44	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8		Preparation Method: EPA 200.8					
Aluminum, Dissolved	**1100**	ug/L	50.0	1	09/23/13 18:00	09/26/13 12:11	7429-90-5	
Antimony, Dissolved	**0.037J**	ug/L	1.0	1	09/23/13 18:00	09/26/13 12:11	7440-36-0	
Arsenic, Dissolved	**156**	ug/L	1.0	1	09/23/13 18:00	09/26/13 12:11	7440-38-2	
Barium, Dissolved	**22.0**	ug/L	1.0	1	09/23/13 18:00	09/26/13 12:11	7440-39-3	
Beryllium, Dissolved	**1.4**	ug/L	0.50	1	09/23/13 18:00	09/26/13 12:11	7440-41-7	
Cadmium, Dissolved	**0.35J**	ug/L	0.50	1	09/23/13 18:00	09/26/13 12:11	7440-43-9	
Chromium, Dissolved	**0.86J**	ug/L	1.0	1	09/23/13 18:00	09/26/13 12:11	7440-47-3	
Cobalt, Dissolved	**8.7**	ug/L	1.0	1	09/23/13 18:00	09/26/13 12:11	7440-48-4	
Copper, Dissolved	**7.2**	ug/L	1.0	1	09/23/13 18:00	09/26/13 12:11	7440-50-8	
Iron, Dissolved	**64200**	ug/L	50.0	1	09/23/13 18:00	09/26/13 12:11	7439-89-6	
Lead, Dissolved	**63.9**	ug/L	1.0	1	09/23/13 18:00	09/26/13 12:11	7439-92-1	
Manganese, Dissolved	**10000**	ug/L	20.0	20	09/23/13 18:00	09/27/13 13:58	7439-96-5	
Molybdenum, Dissolved	**9.4**	ug/L	1.0	1	09/23/13 18:00	09/26/13 12:11	7439-98-7	
Nickel, Dissolved	**7.6**	ug/L	1.0	1	09/23/13 18:00	09/26/13 12:11	7440-02-0	
Selenium, Dissolved	**0.32J**	ug/L	1.0	1	09/23/13 18:00	09/26/13 12:11	7782-49-2	
Silver, Dissolved	**0.079J**	ug/L	0.50	1	09/23/13 18:00	09/26/13 12:11	7440-22-4	
Thallium, Dissolved	**0.093J**	ug/L	1.0	1	09/23/13 18:00	09/26/13 12:11	7440-28-0	
Vanadium, Dissolved	**0.58J**	ug/L	1.0	1	09/23/13 18:00	09/26/13 12:11	7440-62-2	
Zinc, Dissolved	**8330**	ug/L	100	10	09/27/13 16:48	09/29/13 17:05	7440-66-6	M1
245.1 Mercury	Analytical Method: EPA 245.1		Preparation Method: EPA 245.1					
Mercury	ND	ug/L	0.20	1	09/25/13 14:10	09/26/13 13:09	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1		Preparation Method: EPA 245.1					
Mercury, Dissolved	ND	ug/L	0.20	1	09/26/13 14:51	09/26/13 17:32	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1		Preparation Method: EPA 245.1					
Mercury, Dissolved	ND	ug/L	0.20	1	09/25/13 09:00	09/25/13 17:50	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**1790**	umhos/cm	10.0	1		09/20/13 11:11		

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ANALYTICAL RESULTS

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

Sample: MW-5 DEEP_20130911 **Lab ID: 60153027010** Collected: 09/11/13 13:30 Received: 09/13/13 10:40 Matrix: Water

Comments: • All reported results confirmed for total vs. dissolved metals (Ni)

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**1150**	mg/L	6.4	1		09/23/13 11:00		
Salinity (as seawater)	**0.91**	PSU	0.014	1		09/23/13 11:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**108**	mg/L	20.0	1		09/24/13 10:27		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/24/13 10:27		
Alkalinity, Total as CaCO3	**108**	mg/L	20.0	1		09/24/13 10:27		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1620**	mg/L	5.0	1		09/17/13 13:16		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**104**	mg/L	5.0	1		09/18/13 10:08		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/18/13 11:50	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.8**	mg/L	1.0	1		09/26/13 20:25	16887-00-6	
Sulfate	**957**	mg/L	200	200		09/27/13 12:48	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**0.13**	mg/L	0.10	1		09/16/13 14:28		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/23/13 15:42	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	0.50	1		09/25/13 10:55	7440-44-0	

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ANALYTICAL RESULTS

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

Sample: MW-5 SHALLOW_20130911 **Lab ID: 60153027011** Collected: 09/11/13 13:25 Received: 09/13/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**435000**	ug/L	500	5	09/23/13 18:00	09/25/13 10:00	7440-70-2	
Magnesium, Dissolved	**126000**	ug/L	250	5	09/23/13 18:00	09/25/13 10:00	7439-95-4	
Potassium, Dissolved	**2220**	ug/L	2000	4	09/23/13 18:00	09/25/13 10:06	7440-09-7	
Sodium, Dissolved	**15200**	ug/L	2500	5	09/23/13 18:00	09/25/13 10:00	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**43000**	ug/L	200	50	09/21/13 09:24	09/26/13 18:12	7429-90-5	M1
Antimony	**2.8**	ug/L	0.50	1	09/21/13 09:24	09/26/13 18:00	7440-36-0	
Arsenic	**413**	ug/L	0.50	1	09/21/13 09:24	09/26/13 18:00	7440-38-2	
Barium	**72.0**	ug/L	0.30	1	09/21/13 09:24	09/26/13 18:00	7440-39-3	
Beryllium	**8.8**	ug/L	0.20	1	09/21/13 09:24	09/26/13 18:00	7440-41-7	
Cadmium	**236**	ug/L	0.080	1	09/21/13 09:24	09/26/13 18:00	7440-43-9	
Calcium	**447000**	ug/L	1000	50	09/21/13 09:24	09/26/13 18:12	7440-70-2	M1
Chromium	**0.65**	ug/L	0.50	1	09/21/13 09:24	09/26/13 18:00	7440-47-3	
Cobalt	**87.8**	ug/L	0.50	1	09/21/13 09:24	09/26/13 18:00	7440-48-4	
Copper	**919**	ug/L	25.0	50	09/21/13 09:24	09/26/13 18:12	7440-50-8	M1
Iron	**483000**	ug/L	2500	50	09/21/13 09:24	09/26/13 18:12	7439-89-6	M1
Lead	**5240**	ug/L	5.0	50	09/21/13 09:24	09/26/13 18:12	7439-92-1	M1
Magnesium	**134000**	ug/L	250	50	09/21/13 09:24	09/26/13 18:12	7439-95-4	M1
Manganese	**24500**	ug/L	100	200	09/21/13 09:24	09/26/13 18:18	7439-96-5	M1
Molybdenum	**5.0**	ug/L	0.50	1	09/21/13 09:24	09/26/13 18:00	7439-98-7	
Nickel	**158**	ug/L	0.50	1	09/21/13 09:24	09/26/13 18:00	7440-02-0	
Potassium	**3830**	ug/L	20.0	1	09/21/13 09:24	09/26/13 18:00	7440-09-7	
Selenium	**5.8**	ug/L	0.50	1	09/21/13 09:24	09/26/13 18:00	7782-49-2	
Silica	**86500**	ug/L	2680	50	09/21/13 09:24	09/26/13 18:12	7631-86-9	
Silver	**17.7**	ug/L	0.50	1	09/21/13 09:24	09/26/13 18:00	7440-22-4	
Sodium	**15600**	ug/L	50.0	1	09/21/13 09:24	09/26/13 18:00	7440-23-5	M1
Thallium	**1.1**	ug/L	0.50	5	09/21/13 09:24	09/27/13 12:11	7440-28-0	
Total Hardness by 2340B	**1670000**	ug/L	3550	50	09/21/13 09:24	09/26/13 18:12		
Vanadium	**11.4**	ug/L	0.10	1	09/21/13 09:24	09/26/13 18:00	7440-62-2	
Zinc	**118000**	ug/L	2500	500	09/21/13 09:24	09/27/13 12:17	7440-66-6	M1
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**36600**	ug/L	80.0	20	09/21/13 09:27	09/26/13 22:12	7429-90-5	M1
Antimony, Dissolved	ND	ug/L	0.50	1	09/21/13 09:27	09/26/13 22:07	7440-36-0	
Arsenic, Dissolved	**270**	ug/L	0.50	1	09/21/13 09:27	09/26/13 22:07	7440-38-2	
Barium, Dissolved	**9.9**	ug/L	0.30	1	09/21/13 09:27	09/26/13 22:07	7440-39-3	
Beryllium, Dissolved	**8.0**	ug/L	0.20	1	09/21/13 09:27	09/26/13 22:07	7440-41-7	
Cadmium, Dissolved	**211**	ug/L	0.080	1	09/21/13 09:27	09/26/13 22:07	7440-43-9	
Calcium, Dissolved	**439000**	ug/L	400	20	09/21/13 09:27	09/26/13 22:12	7440-70-2	M1
Chromium, Dissolved	ND	ug/L	0.50	1	09/21/13 09:27	09/26/13 22:07	7440-47-3	
Cobalt, Dissolved	**82.5**	ug/L	0.50	1	09/21/13 09:27	09/26/13 22:07	7440-48-4	
Copper, Dissolved	**49.8**	ug/L	0.50	1	09/21/13 09:27	09/26/13 22:07	7440-50-8	
Iron, Dissolved	**427000**	ug/L	1000	20	09/21/13 09:27	09/26/13 22:12	7439-89-6	M1
Lead, Dissolved	**1170**	ug/L	2.0	20	09/21/13 09:27	09/26/13 22:12	7439-92-1	M1
Magnesium, Dissolved	**130000**	ug/L	100	20	09/21/13 09:27	09/26/13 22:12	7439-95-4	M1

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ANALYTICAL RESULTS

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

Sample: MW-5 SHALLOW_20130911 **Lab ID: 60153027011** Collected: 09/11/13 13:25 Received: 09/13/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	**23500**	ug/L	100	200	09/21/13 09:27	09/26/13 22:17	7439-96-5	M1
Molybdenum, Dissolved	ND	ug/L	0.50	1	09/21/13 09:27	09/26/13 22:07	7439-98-7	
Nickel, Dissolved	**152**	ug/L	0.50	1	09/21/13 09:27	09/26/13 22:07	7440-02-0	
Potassium, Dissolved	**2330**	ug/L	20.0	1	09/21/13 09:27	09/26/13 22:07	7440-09-7	
Selenium, Dissolved	**4.4**	ug/L	0.50	1	09/21/13 09:27	09/26/13 22:07	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/21/13 09:27	09/26/13 22:07	7440-22-4	
Sodium, Dissolved	**15700**	ug/L	50.0	1	09/21/13 09:27	09/26/13 22:07	7440-23-5	M1
Thallium, Dissolved	**0.40**	ug/L	0.10	1	09/21/13 09:27	09/26/13 22:07	7440-28-0	
Vanadium, Dissolved	**2.7**	ug/L	0.10	1	09/21/13 09:27	09/26/13 22:07	7440-62-2	
Zinc, Dissolved	**113000**	ug/L	2500	500	09/21/13 09:27	09/27/13 13:34	7440-66-6	M1
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**39100**	ug/L	100	2	09/23/13 18:00	09/26/13 11:51	7429-90-5	M1
Antimony, Dissolved	**0.91J**	ug/L	2.0	2	09/23/13 18:00	09/26/13 11:51	7440-36-0	
Arsenic, Dissolved	**411**	ug/L	2.0	2	09/23/13 18:00	09/26/13 11:51	7440-38-2	
Barium, Dissolved	**7.7**	ug/L	2.0	2	09/23/13 18:00	09/26/13 11:51	7440-39-3	
Beryllium, Dissolved	**8.1**	ug/L	1.0	2	09/23/13 18:00	09/26/13 11:51	7440-41-7	
Cadmium, Dissolved	**245**	ug/L	1.0	2	09/23/13 18:00	09/26/13 11:51	7440-43-9	
Chromium, Dissolved	**10.3**	ug/L	2.0	2	09/23/13 18:00	09/26/13 11:51	7440-47-3	
Cobalt, Dissolved	**89.8**	ug/L	2.0	2	09/23/13 18:00	09/26/13 11:51	7440-48-4	
Copper, Dissolved	**694**	ug/L	2.0	2	09/23/13 18:00	09/26/13 11:51	7440-50-8	M1
Iron, Dissolved	**438000**	ug/L	2500	50	09/23/13 18:00	09/26/13 11:55	7439-89-6	M1
Lead, Dissolved	**3660**	ug/L	2.0	2	09/23/13 18:00	09/26/13 11:51	7439-92-1	M1
Manganese, Dissolved	**25800**	ug/L	50.0	50	09/23/13 18:00	09/26/13 11:55	7439-96-5	M1
Molybdenum, Dissolved	**1.7J**	ug/L	2.0	2	09/23/13 18:00	09/26/13 11:51	7439-98-7	B
Nickel, Dissolved	**164**	ug/L	2.0	2	09/23/13 18:00	09/26/13 11:51	7440-02-0	
Selenium, Dissolved	**14.0**	ug/L	2.0	2	09/23/13 18:00	09/26/13 11:51	7782-49-2	
Silver, Dissolved	**0.64J**	ug/L	1.0	2	09/23/13 18:00	09/26/13 11:51	7440-22-4	
Thallium, Dissolved	**0.81J**	ug/L	2.0	2	09/23/13 18:00	09/26/13 11:51	7440-28-0	
Vanadium, Dissolved	**6.2**	ug/L	2.0	2	09/23/13 18:00	09/26/13 11:51	7440-62-2	
Zinc, Dissolved	**111000**	ug/L	500	50	09/27/13 16:48	09/29/13 17:13	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/25/13 14:10	09/26/13 13:12	7439-97-6	M1
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/26/13 14:52	09/26/13 17:34	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/25/13 09:00	09/25/13 17:52	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**3690**	umhos/cm	10.0	1		09/20/13 11:16		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**2360**	mg/L	6.4	1		09/23/13 11:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

Sample: MW-5 SHALLOW_20130911 **Lab ID: 60153027011** Collected: 09/11/13 13:25 Received: 09/13/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**1.9**	PSU	0.014	1		09/23/13 11:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	20.0	1		09/24/13 10:29		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/24/13 10:29		
Alkalinity, Total as CaCO3	ND	mg/L	20.0	1		09/24/13 10:29		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**4160**	mg/L	5.0	1		09/17/13 13:16		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**352**	mg/L	5.0	1		09/18/13 10:09		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/18/13 11:50	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**3.1**	mg/L	1.0	1		09/26/13 20:40	16887-00-6	
Sulfate	**4080**	mg/L	500	500		09/27/13 13:02	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/16/13 14:31		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/23/13 15:43	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	0.50	1		09/24/13 19:58	7440-44-0	

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ANALYTICAL RESULTS

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

Sample: FB-LAB_20130911 **Lab ID: 60153027012** Collected: 09/11/13 16:20 Received: 09/13/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**25.6J**	ug/L	100	1	09/23/13 18:00	09/25/13 10:19	7440-70-2	
Magnesium, Dissolved	ND	ug/L	50.0	1	09/23/13 18:00	09/25/13 10:19	7439-95-4	
Potassium, Dissolved	ND	ug/L	500	1	09/23/13 18:00	09/25/13 10:19	7440-09-7	
Sodium, Dissolved	**443J**	ug/L	500	1	09/23/13 18:00	09/25/13 10:19	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	ND	ug/L	4.0	1	09/21/13 09:24	09/26/13 15:11	7429-90-5	
Antimony	ND	ug/L	0.50	1	09/21/13 09:24	09/26/13 15:11	7440-36-0	
Arsenic	ND	ug/L	0.50	1	09/21/13 09:24	09/26/13 15:11	7440-38-2	
Barium	ND	ug/L	0.30	1	09/21/13 09:24	09/27/13 12:01	7440-39-3	
Beryllium	ND	ug/L	0.20	1	09/21/13 09:24	09/26/13 15:11	7440-41-7	
Cadmium	ND	ug/L	0.080	1	09/21/13 09:24	09/26/13 15:11	7440-43-9	
Calcium	**23.4**	ug/L	20.0	1	09/21/13 09:24	09/27/13 12:01	7440-70-2	
Chromium	ND	ug/L	0.50	1	09/21/13 09:24	09/26/13 15:11	7440-47-3	
Cobalt	ND	ug/L	0.50	1	09/21/13 09:24	09/26/13 15:11	7440-48-4	
Copper	**0.64**	ug/L	0.50	1	09/21/13 09:24	09/26/13 15:11	7440-50-8	
Iron	ND	ug/L	50.0	1	09/21/13 09:24	09/26/13 15:11	7439-89-6	
Lead	ND	ug/L	0.10	1	09/21/13 09:24	09/27/13 12:01	7439-92-1	
Magnesium	ND	ug/L	5.0	1	09/21/13 09:24	09/27/13 12:01	7439-95-4	
Manganese	ND	ug/L	0.50	1	09/21/13 09:24	09/26/13 15:11	7439-96-5	
Molybdenum	ND	ug/L	0.50	1	09/21/13 09:24	09/26/13 15:11	7439-98-7	
Nickel	ND	ug/L	0.50	1	09/21/13 09:24	09/26/13 15:11	7440-02-0	
Potassium	ND	ug/L	20.0	1	09/21/13 09:24	09/26/13 15:11	7440-09-7	
Selenium	ND	ug/L	0.50	1	09/21/13 09:24	09/26/13 15:11	7782-49-2	
Silica	ND	ug/L	53.5	1	09/21/13 09:24	09/26/13 15:11	7631-86-9	
Silver	ND	ug/L	0.50	1	09/21/13 09:24	09/26/13 15:11	7440-22-4	
Sodium	**415**	ug/L	50.0	1	09/21/13 09:24	09/26/13 15:11	7440-23-5	
Thallium	ND	ug/L	0.10	1	09/21/13 09:24	09/26/13 15:11	7440-28-0	
Total Hardness by 2340B	**77.3**	ug/L	71.0	1	09/21/13 09:24	09/27/13 12:01		
Vanadium	ND	ug/L	0.10	1	09/21/13 09:24	09/26/13 15:11	7440-62-2	
Zinc	ND	ug/L	5.0	1	09/21/13 09:24	09/26/13 15:11	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	ND	ug/L	4.0	1	09/21/13 09:27	09/26/13 19:04	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/21/13 09:27	09/26/13 19:04	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	09/21/13 09:27	09/26/13 19:04	7440-38-2	
Barium, Dissolved	ND	ug/L	0.30	1	09/21/13 09:27	09/27/13 13:08	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	09/21/13 09:27	09/26/13 19:04	7440-41-7	
Cadmium, Dissolved	ND	ug/L	0.080	1	09/21/13 09:27	09/26/13 19:04	7440-43-9	
Calcium, Dissolved	**44.3**	ug/L	20.0	1	09/21/13 09:27	09/26/13 19:04	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	09/21/13 09:27	09/26/13 19:04	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	09/21/13 09:27	09/26/13 19:04	7440-48-4	
Copper, Dissolved	ND	ug/L	0.50	1	09/21/13 09:27	09/26/13 19:04	7440-50-8	
Iron, Dissolved	ND	ug/L	50.0	1	09/21/13 09:27	09/26/13 19:04	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	09/21/13 09:27	09/27/13 13:08	7439-92-1	
Magnesium, Dissolved	**12.0**	ug/L	5.0	1	09/21/13 09:27	09/26/13 19:04	7439-95-4	

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ANALYTICAL RESULTS

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

Sample: FB-LAB_20130911 **Lab ID: 60153027012** Collected: 09/11/13 16:20 Received: 09/13/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	ND	ug/L	0.50	1	09/21/13 09:27	09/26/13 19:04	7439-96-5	
Molybdenum, Dissolved	ND	ug/L	0.50	1	09/21/13 09:27	09/26/13 19:04	7439-98-7	
Nickel, Dissolved	ND	ug/L	0.50	1	09/21/13 09:27	09/26/13 19:04	7440-02-0	
Potassium, Dissolved	**39.3**	ug/L	20.0	1	09/21/13 09:27	09/26/13 19:04	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	09/21/13 09:27	09/26/13 19:04	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/21/13 09:27	09/26/13 19:04	7440-22-4	
Sodium, Dissolved	**449**	ug/L	50.0	1	09/21/13 09:27	09/26/13 19:04	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/21/13 09:27	09/26/13 19:04	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	09/21/13 09:27	09/26/13 19:04	7440-62-2	
Zinc, Dissolved	ND	ug/L	5.0	1	09/21/13 09:27	09/26/13 19:04	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**113**	ug/L	50.0	1	09/23/13 18:00	09/26/13 11:35	7429-90-5	
Antimony, Dissolved	ND	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:35	7440-36-0	
Arsenic, Dissolved	ND	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:35	7440-38-2	
Barium, Dissolved	ND	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:35	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.50	1	09/23/13 18:00	09/26/13 11:35	7440-41-7	
Cadmium, Dissolved	ND	ug/L	0.50	1	09/23/13 18:00	09/26/13 11:35	7440-43-9	
Chromium, Dissolved	**0.42J**	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:35	7440-47-3	
Cobalt, Dissolved	ND	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:35	7440-48-4	
Copper, Dissolved	**0.16J**	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:35	7440-50-8	
Iron, Dissolved	**7.2J**	ug/L	50.0	1	09/23/13 18:00	09/26/13 11:35	7439-89-6	
Lead, Dissolved	**0.075J**	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:35	7439-92-1	B
Manganese, Dissolved	ND	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:35	7439-96-5	
Molybdenum, Dissolved	ND	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:35	7439-98-7	
Nickel, Dissolved	**0.10J**	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:35	7440-02-0	
Selenium, Dissolved	ND	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:35	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/23/13 18:00	09/26/13 11:35	7440-22-4	
Thallium, Dissolved	ND	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:35	7440-28-0	
Vanadium, Dissolved	ND	ug/L	1.0	1	09/23/13 18:00	09/26/13 11:35	7440-62-2	
Zinc, Dissolved	**2.4J**	ug/L	10.0	1	09/27/13 16:48	09/29/13 16:45	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/25/13 14:10	09/26/13 13:17	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/26/13 14:52	09/26/13 17:38	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/25/13 09:00	09/25/13 17:54	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**32.8**	umhos/cm	10.0	1		09/20/13 11:21		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**21.0**	mg/L	6.4	1		09/23/13 11:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

Sample: FB-LAB_20130911 **Lab ID: 60153027012** Collected: 09/11/13 16:20 Received: 09/13/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.022**	PSU	0.014	1		09/23/13 11:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	20.0	1		09/24/13 10:32		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/24/13 10:32		
Alkalinity, Total as CaCO3	ND	mg/L	20.0	1		09/24/13 10:32		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	ND	mg/L	5.0	1		09/17/13 13:16		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	ND	mg/L	5.0	1		09/18/13 10:09		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/18/13 11:50	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	ND	mg/L	1.0	1		09/27/13 13:45	16887-00-6	
Sulfate	ND	mg/L	1.0	1		09/27/13 13:45	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/16/13 14:32		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/23/13 15:46	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	0.50	1		09/24/13 20:44	7440-44-0	

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October 07, 2013

Mark DeFriez
Anderson Engineering Company I
977 W 2100 S.
Salt Lake City, UT 84119

RE: Project: September 2013 Rico Water
Pace Project No.: 60153115

Dear Mark DeFriez:
Enclosed are the analytical results for sample(s) received by the laboratory on September 14, 2013. The results relate only to the within this report conform to the most current version of the TNI standards, BP LaMP Technical Requirements Revision 10.1, and any applicable Quality Assurance Project Plan (QAPP), or Work Plan unless otherwise narrated in the body of this report.

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

Sincerely,

Heather M. Wilson

Heather Wilson

heather.wilson@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: September 2013 Rico Water
Pace Project No.: 60153115

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: Pace
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Hawaii Certification #Pace
Idaho Certification #: MN00064
Illinois Certification #: 200011
Kansas Certification #: E-10167
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Maryland Certification #: 322
Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT CERT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia/DCLS Certification #: 002521
Virginia/VELAP Certification #: 460163
Washington Certification #: C754
West Virginia Certification #: 382
Wisconsin Certification #: 999407970

Montana Certification IDs
602 South 25th Street, Billings, MT 59101
EPA Region 8 Certification #: 8TMS-Q
Idaho Certification #: MT00012
Montana Certification #: MT CERT0040
NVLAP Certification #: 101292-0
Minnesota Dept of Health Certification #: 030-999-442
Washington Department of Ecology #: C993

Green Bay Certification IDs
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 11888
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
US Dept of Agriculture #: S-76505
Wisconsin Certification #: 405132750

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: September 2013 Rico Water
Pace Project No.: 60153115

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60153115001	**DR-4_20130912**	Water	09/12/13 10:10	09/14/13 09:05
60153115002	**GW-6_20130912**	Water	09/12/13 10:40	09/14/13 09:05
60153115003	**EB-1_20130912**	Water	09/12/13 11:30	09/14/13 09:05
60153115004	**EB-2_20130912**	Water	09/12/13 10:00	09/14/13 09:05
60153115005	**MW-103_20130912**	Water	09/12/13 15:17	09/14/13 09:05
60153115006	**P13-102_20130912**	Water	09/12/13 13:02	09/14/13 09:05
60153115007	**P13-103_20130912**	Water	09/12/13 12:42	09/14/13 09:05
60153115008	**MW-1 DEEP_20130912**	Water	09/12/13 12:20	09/14/13 09:05
60153115009	**MW-1 SHALLOW_20130912**	Water	09/12/13 12:15	09/14/13 09:05
60153115010	**MW-2 DEEP_20130912**	Water	09/12/13 15:37	09/14/13 09:05
60153115011	**MW-3 DEEP_20130912**	Water	09/12/13 16:00	09/14/13 09:05
60153115012	**MW-4 SHALLOW_20130912**	Water	09/12/13 11:40	09/14/13 09:05
60153115013	**DR-10_20130912**	Water	09/12/13 15:20	09/14/13 09:05
60153115014	**GW-3_20130912**	Water	09/12/13 09:40	09/14/13 09:05

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SAMPLE ANALYTE COUNT

Project: September 2013 Rico Water
Pace Project No.: 60153115

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60153115001	**DR-4_20130912**	EPA 200.7	NDJ	4	PASI-K
		EPA 200.8	RB1	25	PASI-M
		EPA 200.8	RB1	23	PASI-M
		EPA 200.8	SMW	19	PASI-K
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	TDS	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	
		SM 2320B	JMC	3	PASI-K
		SM 2540C	RAH	1	PASI-K
		SM 2540D	RAH	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	TJJ	1	PASI-G
60153115002	**GW-6_20130912**	EPA 200.7	NDJ	4	PASI-K
		EPA 200.8	RB1	25	PASI-M
		EPA 200.8	RB1	23	PASI-M
		EPA 200.8	SMW	19	PASI-K
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	TDS	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	
		SM 2320B	JMC	3	PASI-K
		SM 2540C	RAH	1	PASI-K
		SM 2540D	RAH	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	TJJ	1	PASI-G
60153115003	**EB-1_20130912**	EPA 200.7	NDJ	4	PASI-K
		EPA 200.8	RB1	25	PASI-M
		EPA 200.8	RB1	23	PASI-M

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SAMPLE ANALYTE COUNT

Project: September 2013 Rico Water
Pace Project No.: 60153115

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 200.8	SMW	19	PASI-K
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	TDS	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	
		SM 2320B	JMC	3	PASI-K
		SM 2540C	RAH	1	PASI-K
		SM 2540D	RAH	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	TJJ	1	PASI-G
60153115004	**EB-2_20130912**	EPA 200.7	NDJ	4	PASI-K
		EPA 200.8	RB1	25	PASI-M
		EPA 200.8	RB1	23	PASI-M
		EPA 200.8	SMW	19	PASI-K
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	TDS	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	
		SM 2320B	JMC	3	PASI-K
		SM 2540C	RAH	1	PASI-K
		SM 2540D	RAH	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	TJJ	1	PASI-G
60153115005	**MW-103_20130912**	EPA 200.7	NDJ	4	PASI-K
		EPA 200.8	RB1	25	PASI-M
		EPA 200.8	RB1	23	PASI-M
		EPA 200.8	SMW	19	PASI-K
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	WBS	1	PASI-M

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SAMPLE ANALYTE COUNT

Project: September 2013 Rico Water
Pace Project No.: 60153115

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 245.1	TDS	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	
		SM 2320B	JMC	3	PASI-K
		SM 2540C	RAH	1	PASI-K
		SM 2540D	RAH	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	TJJ	1	PASI-G
60153115006	**P13-102_20130912**	EPA 200.7	NDJ	4	PASI-K
		EPA 200.8	RB1	25	PASI-M
		EPA 200.8	RB1	23	PASI-M
		EPA 200.8	SMW	19	PASI-K
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	TDS	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	
		SM 2320B	JMC	3	PASI-K
		SM 2540C	RAH	1	PASI-K
		SM 2540D	RAH	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	TJJ	1	PASI-G
60153115007	**P13-103_20130912**	EPA 200.7	NDJ	4	PASI-K
		EPA 200.8	RB1	25	PASI-M
		EPA 200.8	RB1	23	PASI-M
		EPA 200.8	SMW	19	PASI-K
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	TDS	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	

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SAMPLE ANALYTE COUNT

Project: September 2013 Rico Water
Pace Project No.: 60153115

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2320B	JMC	3	PASI-K
		SM 2540C	RAH	1	PASI-K
		SM 2540D	RAH	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	TJJ	1	PASI-G
60153115008	**MW-1 DEEP_20130912**	EPA 200.7	NDJ	4	PASI-K
		EPA 200.8	RB1	25	PASI-M
		EPA 200.8	RB1	23	PASI-M
		EPA 200.8	SMW	19	PASI-K
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	TDS	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	
		SM 2320B	JMC	3	PASI-K
		SM 2540C	RAH	1	PASI-K
		SM 2540D	RAH	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	TJJ	1	PASI-G
60153115009	**MW-1 SHALLOW_20130912**	EPA 200.7	NDJ	4	PASI-K
		EPA 200.8	RB1	25	PASI-M
		EPA 200.8	RB1	23	PASI-M
		EPA 200.8	SMW	19	PASI-K
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	TDS	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	
		SM 2320B	JMC	3	PASI-K
		SM 2540C	RAH	1	PASI-K
		SM 2540D	RAH	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: September 2013 Rico Water
Pace Project No.: 60153115

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	TJJ	1	PASI-G
60153115010	**MW-2 DEEP_20130912**	EPA 200.7	NDJ	4	PASI-K
		EPA 200.8	RB1	25	PASI-M
		EPA 200.8	RB1	23	PASI-M
		EPA 200.8	SMW	19	PASI-K
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	TDS	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	
		SM 2320B	JMC	3	PASI-K
		SM 2540C	RAH	1	PASI-K
		SM 2540D	RAH	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	TJJ	1	PASI-G
60153115011	**MW-3 DEEP_20130912**	EPA 200.7	NDJ	4	PASI-K
		EPA 200.8	RB1	25	PASI-M
		EPA 200.8	RB1	23	PASI-M
		EPA 200.8	SMW	19	PASI-K
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	TDS	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	
		SM 2320B	JMC	3	PASI-K
		SM 2540C	RAH	1	PASI-K
		SM 2540D	RAH	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	AJM	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: September 2013 Rico Water
Pace Project No.: 60153115

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	TJJ	1	PASI-G
60153115012	**MW-4 SHALLOW_20130912**	EPA 200.7	NDJ	4	PASI-K
		EPA 200.8	RB1	25	PASI-M
		EPA 200.8	RB1	23	PASI-M
		EPA 200.8	SMW	19	PASI-K
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	TDS	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	
		SM 2320B	JMC	3	PASI-K
		SM 2540C	RAH	1	PASI-K
		SM 2540D	RAH	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	TJJ	1	PASI-G
60153115013	**DR-10_20130912**	EPA 200.7	NDJ	4	PASI-K
		EPA 200.8	RB1	25	PASI-M
		EPA 200.8	RB1	23	PASI-M
		EPA 200.8	SMW	19	PASI-K
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	TDS	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	
		SM 2320B	JMC	3	PASI-K
		SM 2540C	RAH	1	PASI-K
		SM 2540D	RAH	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	TJJ	1	PASI-G
60153115014	**GW-3_20130912**	EPA 200.7	NDJ	4	PASI-K

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SAMPLE ANALYTE COUNT

Project: September 2013 Rico Water
Pace Project No.: 60153115

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 200.8	RB1	25	PASI-M
		EPA 200.8	RB1	23	PASI-M
		EPA 200.8	SMW	19	PASI-K
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	TDS	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	
		SM 2320B	JMC	3	PASI-K
		SM 2540C	RAH	1	PASI-K
		SM 2540D	RAH	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	TJJ	1	PASI-G

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PROJECT NARRATIVE

Project: September 2013 Rico Water
Pace Project No.: 60153115

Method: **EPA 200.7**
Description: 200.7 Potentially Diss. Metals
Client: BP Anderson Engineering Company Inc.
Date: October 07, 2013

General Information:
14 samples were analyzed for EPA 200.7. 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 200.7 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: MPRP/24419

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60153115001,60153115011

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

- MSD (Lab ID: 1259436)
  - Calcium, Dissolved

Additional Comments:

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PROJECT NARRATIVE

Project: September 2013 Rico Water
Pace Project No.: 60153115

Method: **EPA 200.8**
Description: 200.8 MET ICPMS
Client: BP Anderson Engineering Company Inc.
Date: October 07, 2013

General Information:
14 samples were analyzed for EPA 200.8. 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 200.8 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.

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: MPRP/41979

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60153115001,60153115014

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

- MS (Lab ID: 1529143)
  - Calcium
  - Magnesium
  - Manganese
  - Sodium
- MS (Lab ID: 1529145)
  - Aluminum
  - Calcium
  - Iron
  - Magnesium
  - Potassium
  - Sodium
  - Zinc
- MSD (Lab ID: 1529144)

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PROJECT NARRATIVE

Project: September 2013 Rico Water
Pace Project No.: 60153115

Method: **EPA 200.8**
Description: 200.8 MET ICPMS
Client: BP Anderson Engineering Company Inc.
Date: October 07, 2013

QC Batch: MPRP/41979

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60153115001,60153115014

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

- Calcium
- Magnesium
- Sodium
- Zinc

Additional Comments:

Analyte Comments:

QC Batch: MPRP/41979

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MS (Lab ID: 1529143)
  - Calcium
  - Zinc
- MS (Lab ID: 1529145)
  - Calcium
- MSD (Lab ID: 1529144)
  - Calcium
  - Zinc

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PROJECT NARRATIVE

Project: September 2013 Rico Water
Pace Project No.: 60153115

Method: **EPA 200.8**
Description: 200.8 MET ICPMS, Dissolved
Client: BP Anderson Engineering Company Inc.
Date: October 07, 2013

General Information:
14 samples were analyzed for EPA 200.8. 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 200.8 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.

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: MPRP/41975

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60153115001,60153115014

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

- MS (Lab ID: 1529110)
  - Calcium, Dissolved
  - Magnesium, Dissolved
  - Manganese, Dissolved
  - Potassium, Dissolved
  - Zinc, Dissolved
- MS (Lab ID: 1529112)
  - Calcium, Dissolved
  - Magnesium, Dissolved
- MSD (Lab ID: 1529111)
  - Calcium, Dissolved
  - Magnesium, Dissolved
  - Manganese, Dissolved
  - Zinc, Dissolved

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PROJECT NARRATIVE

Project: September 2013 Rico Water
Pace Project No.: 60153115

Method: **EPA 200.8**
Description: 200.8 MET ICPMS, Dissolved
Client: BP Anderson Engineering Company Inc.
Date: October 07, 2013

Additional Comments:

Analyte Comments:

QC Batch: MPRP/41975

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MS (Lab ID: 1529110)
  - Calcium, Dissolved
- MS (Lab ID: 1529112)
  - Calcium, Dissolved
- MSD (Lab ID: 1529111)
  - Calcium, Dissolved

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PROJECT NARRATIVE

Project: September 2013 Rico Water
Pace Project No.: 60153115

Method: **EPA 200.8**
Description: 200.8 Potentially Diss. Metals
Client: BP Anderson Engineering Company Inc.
Date: October 07, 2013

General Information:
14 samples were analyzed for EPA 200.8. 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 200.8 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.

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: MPRP/24420

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60153115002,60153115012

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

- MS (Lab ID: 1259441)
  - Aluminum, Dissolved
  - Copper, Dissolved
  - Iron, Dissolved
  - Lead, Dissolved
  - Manganese, Dissolved
  - Zinc, Dissolved
- MSD (Lab ID: 1259442)
  - Aluminum, Dissolved
  - Barium, Dissolved
  - Copper, Dissolved
  - Iron, Dissolved
  - Lead, Dissolved
  - Manganese, Dissolved

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PROJECT NARRATIVE

Project: September 2013 Rico Water
Pace Project No.: 60153115

Method: **EPA 200.8**
Description: 200.8 Potentially Diss. Metals
Client: BP Anderson Engineering Company Inc.
Date: October 07, 2013

QC Batch: MPRP/24420

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60153115002,60153115012

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

- Zinc, Dissolved

Additional Comments:

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PROJECT NARRATIVE

Project: September 2013 Rico Water
Pace Project No.: 60153115

Method: **EPA 245.1**
Description: 245.1 Mercury
Client: BP Anderson Engineering Company Inc.
Date: October 07, 2013

General Information:
14 samples were analyzed for EPA 245.1. 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 245.1 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: MERP/9285

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60153115002,60153115013

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

- MS (Lab ID: 1531555)
  - Mercury

Additional Comments:

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PROJECT NARRATIVE

Project: September 2013 Rico Water
Pace Project No.: 60153115

Method: **EPA 245.1**
Description: 245.1 Mercury, Dissolved
Client: BP Anderson Engineering Company Inc.
Date: October 07, 2013

General Information:
14 samples were analyzed for EPA 245.1. 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 245.1 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: MERP/9349

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60153115005,60153115014

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

- MS (Lab ID: 1534186)
  - Mercury, Dissolved

Additional Comments:

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PROJECT NARRATIVE

Project: September 2013 Rico Water
Pace Project No.: 60153115

Method: **EPA 245.1**
Description: 245.1 Potentially Diss Mercury
Client: BP Anderson Engineering Company Inc.
Date: October 07, 2013

General Information:
14 samples were analyzed for EPA 245.1. 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 245.1 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: September 2013 Rico Water
Pace Project No.: 60153115

Method: **SM 2510B**
Description: 2510B Specific Conductance
Client: BP Anderson Engineering Company Inc.
Date: October 07, 2013

General Information:
14 samples were analyzed for SM 2510B. 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.

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: September 2013 Rico Water
Pace Project No.: 60153115

Method: **Calculated**
Description: Salinity
Client: BP Anderson Engineering Company Inc.
Date: October 07, 2013

General Information:
14 samples were analyzed for Calculated. 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.

Additional Comments:

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PROJECT NARRATIVE

Project: September 2013 Rico Water
Pace Project No.: 60153115

Method: **SM 2320B**
Description: 2320B Alkalinity
Client: BP Anderson Engineering Company Inc.
Date: October 07, 2013

General Information:
14 samples were analyzed for SM 2320B. 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: September 2013 Rico Water
Pace Project No.: 60153115

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: BP Anderson Engineering Company Inc.
Date: October 07, 2013

General Information:
14 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: September 2013 Rico Water
Pace Project No.: 60153115

Method: **SM 2540D**
Description: 2540D Total Suspended Solids
Client: BP Anderson Engineering Company Inc.
Date: October 07, 2013

General Information:
14 samples were analyzed for SM 2540D. 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: September 2013 Rico Water
Pace Project No.: 60153115

Method: **SM 4500-S-2 D**
Description: 4500S2D Sulfide, Total
Client: BP Anderson Engineering Company Inc.
Date: October 07, 2013

General Information:
14 samples were analyzed for SM 4500-S-2 D. 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.

QC Batch: WET/43471

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60153115008

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

- MS (Lab ID: 1255247)
  - Sulfide, Total

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: September 2013 Rico Water
Pace Project No.: 60153115

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: BP Anderson Engineering Company Inc.
Date: October 07, 2013

General Information:
14 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.

QC Batch: WETA/26361

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60153115002,60153115003

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

- MS (Lab ID: 1261262)
  - Sulfate
- MSD (Lab ID: 1261263)
  - Sulfate

Additional Comments:

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PROJECT NARRATIVE

Project: September 2013 Rico Water
Pace Project No.: 60153115

Method: **EPA 353.2**
Description: 353.2 Nitrogen, NO2/NO3 pres.
Client: BP Anderson Engineering Company Inc.
Date: October 07, 2013

General Information:
14 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/26391

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60153115001,60153115002

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

- MS (Lab ID: 1262358)
  - Nitrogen, NO2 plus NO3

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: September 2013 Rico Water
Pace Project No.: 60153115

Method: **SM 4500-CN-E**
Description: 4500CNE Cyanide, Total
Client: BP Anderson Engineering Company Inc.
Date: October 07, 2013

General Information:
14 samples were analyzed for SM 4500-CN-E. 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.

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: September 2013 Rico Water
Pace Project No.: 60153115

Method: **SM 5310C**
Description: 5310C TOC
Client: BP Anderson Engineering Company Inc.
Date: October 07, 2013

General Information:
14 samples were analyzed for SM 5310C. 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/19544

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60153115001,60153115002

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 859111)
  - Total Organic Carbon
- MSD (Lab ID: 859112)
  - Total Organic Carbon

Additional Comments:

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

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ANALYTICAL RESULTS

Project: September 2013 Rico Water
Pace Project No.: 60153115

Sample: DR-4_20130912 **Lab ID: 60153115001** Collected: 09/12/13 10:10 Received: 09/14/13 09:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**240000**	ug/L	100	1	09/24/13 17:20	09/25/13 16:43	7440-70-2	M1
Magnesium, Dissolved	**19300**	ug/L	50.0	1	09/24/13 17:20	09/25/13 16:43	7439-95-4	
Potassium, Dissolved	**2990**	ug/L	500	1	09/24/13 17:20	09/25/13 16:43	7440-09-7	
Sodium, Dissolved	**12900**	ug/L	500	1	09/24/13 17:20	09/25/13 16:43	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**208**	ug/L	4.0	1	09/21/13 12:31	09/26/13 19:52	7429-90-5	
Antimony	ND	ug/L	0.50	1	09/21/13 12:31	09/26/13 19:52	7440-36-0	
Arsenic	ND	ug/L	0.50	1	09/21/13 12:31	09/26/13 19:52	7440-38-2	
Barium	**19.5**	ug/L	0.30	1	09/21/13 12:31	09/26/13 19:52	7440-39-3	
Beryllium	**0.31**	ug/L	0.20	1	09/21/13 12:31	09/26/13 19:52	7440-41-7	
Cadmium	**17.0**	ug/L	0.080	1	09/21/13 12:31	09/26/13 19:52	7440-43-9	
Calcium	**229000**	ug/L	400	20	09/21/13 12:31	09/26/13 20:02	7440-70-2	M1
Chromium	ND	ug/L	0.50	1	09/21/13 12:31	09/26/13 19:52	7440-47-3	
Cobalt	**2.6**	ug/L	0.50	1	09/21/13 12:31	09/26/13 19:52	7440-48-4	
Copper	**48.4**	ug/L	0.50	1	09/21/13 12:31	09/26/13 19:52	7440-50-8	
Iron	**2260**	ug/L	50.0	1	09/21/13 12:31	09/26/13 19:52	7439-89-6	
Lead	**3.7**	ug/L	0.10	1	09/21/13 12:31	09/26/13 19:52	7439-92-1	
Magnesium	**19600**	ug/L	5.0	1	09/21/13 12:31	09/26/13 19:52	7439-95-4	M1
Manganese	**1760**	ug/L	2.5	5	09/21/13 12:31	09/26/13 19:57	7439-96-5	M1
Molybdenum	**14.6**	ug/L	0.50	1	09/21/13 12:31	09/26/13 19:52	7439-98-7	
Nickel	**4.5**	ug/L	0.50	1	09/21/13 12:31	09/26/13 19:52	7440-02-0	
Potassium	**3000**	ug/L	20.0	1	09/21/13 12:31	09/26/13 19:52	7440-09-7	
Selenium	ND	ug/L	0.50	1	09/21/13 12:31	09/27/13 11:17	7782-49-2	
Silica	**16600**	ug/L	268	5	09/21/13 12:31	09/26/13 19:57	7631-86-9	
Silver	ND	ug/L	0.50	1	09/21/13 12:31	09/26/13 19:52	7440-22-4	
Sodium	**13100**	ug/L	50.0	1	09/21/13 12:31	09/26/13 19:52	7440-23-5	M1
Thallium	ND	ug/L	0.10	1	09/21/13 12:31	09/26/13 19:52	7440-28-0	
Total Hardness by 2340B	**653000**	ug/L	1420	20	09/21/13 12:31	09/26/13 20:02		
Vanadium	ND	ug/L	0.10	1	09/21/13 12:31	09/26/13 19:52	7440-62-2	
Zinc	**3190**	ug/L	100	20	09/21/13 12:31	09/26/13 20:02	7440-66-6	M1
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**14.3**	ug/L	4.0	1	09/21/13 12:29	09/27/13 05:25	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/21/13 12:29	09/27/13 05:25	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	09/21/13 12:29	09/27/13 05:25	7440-38-2	
Barium, Dissolved	**20.2**	ug/L	0.30	1	09/21/13 12:29	09/27/13 05:25	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	09/21/13 12:29	09/27/13 05:25	7440-41-7	
Cadmium, Dissolved	**15.6**	ug/L	0.080	1	09/21/13 12:29	09/27/13 05:25	7440-43-9	
Calcium, Dissolved	**253000**	ug/L	400	20	09/21/13 12:29	09/27/13 05:39	7440-70-2	M1
Chromium, Dissolved	ND	ug/L	0.50	1	09/21/13 12:29	09/27/13 05:25	7440-47-3	
Cobalt, Dissolved	**2.6**	ug/L	0.50	1	09/21/13 12:29	09/27/13 05:25	7440-48-4	
Copper, Dissolved	**3.3**	ug/L	0.50	1	09/21/13 12:29	09/27/13 05:25	7440-50-8	
Iron, Dissolved	ND	ug/L	50.0	1	09/21/13 12:29	09/27/13 05:25	7439-89-6	
Lead, Dissolved	**0.19**	ug/L	0.10	1	09/21/13 12:29	09/27/13 05:25	7439-92-1	
Magnesium, Dissolved	**19900**	ug/L	5.0	1	09/21/13 12:29	09/27/13 05:25	7439-95-4	M1

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ANALYTICAL RESULTS

Project: September 2013 Rico Water
Pace Project No.: 60153115

Sample: DR-4_20130912 **Lab ID: 60153115001** Collected: 09/12/13 10:10 Received: 09/14/13 09:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	**1810**	ug/L	0.50	1	09/21/13 12:29	09/27/13 05:25	7439-96-5	M1
Molybdenum, Dissolved	**14.4**	ug/L	0.50	1	09/21/13 12:29	09/27/13 05:25	7439-98-7	
Nickel, Dissolved	**4.9**	ug/L	0.50	1	09/21/13 12:29	09/27/13 05:25	7440-02-0	
Potassium, Dissolved	**3160**	ug/L	20.0	1	09/21/13 12:29	09/27/13 05:25	7440-09-7	M1
Selenium, Dissolved	ND	ug/L	0.50	1	09/21/13 12:29	09/27/13 05:25	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/21/13 12:29	09/27/13 13:33	7440-22-4	
Sodium, Dissolved	**12800**	ug/L	50.0	1	09/21/13 12:29	09/27/13 05:25	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/21/13 12:29	09/27/13 05:25	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	09/21/13 12:29	09/27/13 05:25	7440-62-2	
Zinc, Dissolved	**2780**	ug/L	5.0	1	09/21/13 12:29	09/27/13 05:25	7440-66-6	M1
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**196**	ug/L	50.0	1	09/24/13 17:20	09/26/13 12:59	7429-90-5	
Antimony, Dissolved	**0.17J**	ug/L	1.0	1	09/24/13 17:20	09/26/13 12:59	7440-36-0	
Arsenic, Dissolved	**0.40J**	ug/L	1.0	1	09/24/13 17:20	09/26/13 12:59	7440-38-2	
Barium, Dissolved	**20.6**	ug/L	1.0	1	09/24/13 17:20	09/26/13 12:59	7440-39-3	
Beryllium, Dissolved	**0.32J**	ug/L	0.50	1	09/24/13 17:20	09/26/13 12:59	7440-41-7	
Cadmium, Dissolved	**17.3**	ug/L	0.50	1	09/24/13 17:20	09/26/13 12:59	7440-43-9	
Chromium, Dissolved	**0.32J**	ug/L	1.0	1	09/24/13 17:20	09/26/13 12:59	7440-47-3	
Cobalt, Dissolved	**2.5**	ug/L	1.0	1	09/24/13 17:20	09/26/13 12:59	7440-48-4	
Copper, Dissolved	**48.1**	ug/L	1.0	1	09/24/13 17:20	09/26/13 12:59	7440-50-8	
Iron, Dissolved	**2250**	ug/L	50.0	1	09/24/13 17:20	09/27/13 14:15	7439-89-6	
Lead, Dissolved	**4.0**	ug/L	1.0	1	09/24/13 17:20	09/26/13 12:59	7439-92-1	
Manganese, Dissolved	**1830**	ug/L	1.0	1	09/24/13 17:20	09/26/13 12:59	7439-96-5	
Molybdenum, Dissolved	**15.4**	ug/L	1.0	1	09/24/13 17:20	09/26/13 12:59	7439-98-7	
Nickel, Dissolved	**4.2**	ug/L	1.0	1	09/24/13 17:20	09/26/13 12:59	7440-02-0	
Selenium, Dissolved	ND	ug/L	1.0	1	09/24/13 17:20	09/26/13 12:59	7782-49-2	
Silver, Dissolved	**0.029J**	ug/L	0.50	1	09/24/13 17:20	09/26/13 12:59	7440-22-4	
Thallium, Dissolved	**0.11J**	ug/L	1.0	1	09/24/13 17:20	09/26/13 12:59	7440-28-0	
Vanadium, Dissolved	ND	ug/L	1.0	1	09/24/13 17:20	09/26/13 12:59	7440-62-2	
Zinc, Dissolved	**2980**	ug/L	10.0	1	09/24/13 17:20	09/26/13 12:59	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/23/13 12:41	09/25/13 09:26	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/26/13 10:51	09/26/13 13:54	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/25/13 09:00	09/25/13 16:27	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**1230**	umhos/cm	10.0	1		09/20/13 15:28		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**785**	mg/L	6.4	1		09/23/13 11:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: September 2013 Rico Water
Pace Project No.: 60153115

Sample: DR-4_20130912 **Lab ID: 60153115001** Collected: 09/12/13 10:10 Received: 09/14/13 09:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.61**	PSU	0.014	1		09/23/13 11:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**86.5**	mg/L	20.0	1		09/24/13 10:36		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/24/13 10:36		
Alkalinity, Total as CaCO3	**86.5**	mg/L	20.0	1		09/24/13 10:36		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1220**	mg/L	5.0	1		09/19/13 13:49		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	ND	mg/L	5.0	1		09/19/13 10:26		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/18/13 11:51	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.5**	mg/L	1.0	1		09/26/13 19:28	16887-00-6	
Sulfate	**517**	mg/L	100	100		09/27/13 15:41	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/29/13 09:44		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/23/13 15:47	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	0.50	1		09/24/13 21:03	7440-44-0	

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ANALYTICAL RESULTS

Project: September 2013 Rico Water
Pace Project No.: 60153115

Sample: GW-6_20130912 **Lab ID: 60153115002** Collected: 09/12/13 10:40 Received: 09/14/13 09:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**406000**	ug/L	100	1	09/24/13 17:20	09/25/13 16:52	7440-70-2	
Magnesium, Dissolved	**57800**	ug/L	50.0	1	09/24/13 17:20	09/25/13 16:52	7439-95-4	
Potassium, Dissolved	**12100**	ug/L	500	1	09/24/13 17:20	09/25/13 16:52	7440-09-7	
Sodium, Dissolved	**6090**	ug/L	500	1	09/24/13 17:20	09/25/13 16:52	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**102000**	ug/L	80.0	20	09/21/13 12:31	09/26/13 20:17	7429-90-5	
Antimony	**2.6**	ug/L	0.50	1	09/21/13 12:31	09/26/13 20:07	7440-36-0	
Arsenic	**781**	ug/L	10.0	20	09/21/13 12:31	09/26/13 20:17	7440-38-2	
Barium	**1200**	ug/L	6.0	20	09/21/13 12:31	09/26/13 20:17	7440-39-3	
Beryllium	**6.0**	ug/L	0.20	1	09/21/13 12:31	09/26/13 20:07	7440-41-7	
Cadmium	**176**	ug/L	0.080	1	09/21/13 12:31	09/26/13 20:07	7440-43-9	
Calcium	**422000**	ug/L	400	20	09/21/13 12:31	09/26/13 20:17	7440-70-2	
Chromium	**115**	ug/L	0.50	1	09/21/13 12:31	09/26/13 20:07	7440-47-3	
Cobalt	**87.2**	ug/L	0.50	1	09/21/13 12:31	09/26/13 20:07	7440-48-4	
Copper	**2970**	ug/L	10.0	20	09/21/13 12:31	09/26/13 20:17	7440-50-8	
Iron	**463000**	ug/L	5000	100	09/21/13 12:31	09/30/13 16:06	7439-89-6	
Lead	**33900**	ug/L	10.0	100	09/21/13 12:31	09/30/13 16:06	7439-92-1	
Magnesium	**118000**	ug/L	100	20	09/21/13 12:31	09/26/13 20:17	7439-95-4	
Manganese	**22200**	ug/L	50.0	100	09/21/13 12:31	09/30/13 16:06	7439-96-5	
Molybdenum	**36.1**	ug/L	0.50	1	09/21/13 12:31	09/26/13 20:07	7439-98-7	
Nickel	**147**	ug/L	0.50	1	09/21/13 12:31	09/26/13 20:07	7440-02-0	
Potassium	**24800**	ug/L	400	20	09/21/13 12:31	09/26/13 20:17	7440-09-7	
Selenium	**7.7**	ug/L	0.50	1	09/21/13 12:31	09/30/13 11:06	7782-49-2	
Silica	**218000**	ug/L	5350	100	09/21/13 12:31	09/30/13 16:06	7631-86-9	
Silver	**77.2**	ug/L	0.50	1	09/21/13 12:31	09/26/13 20:07	7440-22-4	
Sodium	**6840**	ug/L	50.0	1	09/21/13 12:31	09/26/13 20:07	7440-23-5	
Thallium	**3.3**	ug/L	0.10	1	09/21/13 12:31	09/26/13 20:07	7440-28-0	
Total Hardness by 2340B	**1540000**	ug/L	1420	20	09/21/13 12:31	09/26/13 20:17		
Vanadium	**178**	ug/L	0.10	1	09/21/13 12:31	09/26/13 20:07	7440-62-2	
Zinc	**43600**	ug/L	500	100	09/21/13 12:31	09/30/13 16:06	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**812**	ug/L	4.0	1	09/21/13 12:29	09/27/13 05:44	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/21/13 12:29	09/27/13 05:44	7440-36-0	
Arsenic, Dissolved	**51.3**	ug/L	0.50	1	09/21/13 12:29	09/27/13 05:44	7440-38-2	
Barium, Dissolved	**66.3**	ug/L	0.30	1	09/21/13 12:29	09/27/13 05:44	7440-39-3	
Beryllium, Dissolved	**0.55**	ug/L	0.20	1	09/21/13 12:29	09/27/13 05:44	7440-41-7	
Cadmium, Dissolved	**1.6**	ug/L	0.080	1	09/21/13 12:29	09/27/13 05:44	7440-43-9	
Calcium, Dissolved	**372000**	ug/L	400	20	09/21/13 12:29	09/27/13 05:48	7440-70-2	
Chromium, Dissolved	**1.1**	ug/L	0.50	1	09/21/13 12:29	09/27/13 05:44	7440-47-3	
Cobalt, Dissolved	**5.6**	ug/L	0.50	1	09/21/13 12:29	09/27/13 05:44	7440-48-4	
Copper, Dissolved	**19.7**	ug/L	0.50	1	09/21/13 12:29	09/27/13 05:44	7440-50-8	
Iron, Dissolved	**41300**	ug/L	1000	20	09/21/13 12:29	09/27/13 05:48	7439-89-6	
Lead, Dissolved	**312**	ug/L	0.10	1	09/21/13 12:29	09/27/13 05:44	7439-92-1	
Magnesium, Dissolved	**51100**	ug/L	100	20	09/21/13 12:29	09/27/13 05:48	7439-95-4	

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ANALYTICAL RESULTS

Project: September 2013 Rico Water
Pace Project No.: 60153115

Sample: GW-6_20130912 **Lab ID: 60153115002** Collected: 09/12/13 10:40 Received: 09/14/13 09:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	**9970**	ug/L	0.50	1	09/21/13 12:29	09/27/13 05:44	7439-96-5	
Molybdenum, Dissolved	**7.5**	ug/L	0.50	1	09/21/13 12:29	09/27/13 05:44	7439-98-7	
Nickel, Dissolved	**6.9**	ug/L	0.50	1	09/21/13 12:29	09/27/13 05:44	7440-02-0	
Potassium, Dissolved	**11000**	ug/L	20.0	1	09/21/13 12:29	09/27/13 05:44	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	09/21/13 12:29	09/27/13 05:44	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/21/13 12:29	09/27/13 13:42	7440-22-4	
Sodium, Dissolved	**6390**	ug/L	50.0	1	09/21/13 12:29	09/27/13 05:44	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/21/13 12:29	09/27/13 05:44	7440-28-0	
Vanadium, Dissolved	**1.5**	ug/L	0.10	1	09/21/13 12:29	09/27/13 05:44	7440-62-2	
Zinc, Dissolved	**6360**	ug/L	100	20	09/21/13 12:29	09/27/13 05:48	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**24200**	ug/L	50.0	1	09/24/13 17:20	09/26/13 13:03	7429-90-5	M1
Antimony, Dissolved	**0.90J**	ug/L	1.0	1	09/24/13 17:20	09/26/13 13:03	7440-36-0	
Arsenic, Dissolved	**359**	ug/L	1.0	1	09/24/13 17:20	09/26/13 13:03	7440-38-2	
Barium, Dissolved	**111**	ug/L	1.0	1	09/24/13 17:20	09/26/13 13:03	7440-39-3	M1
Beryllium, Dissolved	**8.0**	ug/L	0.50	1	09/24/13 17:20	09/26/13 13:03	7440-41-7	
Cadmium, Dissolved	**99.7**	ug/L	0.50	1	09/24/13 17:20	09/26/13 13:03	7440-43-9	
Chromium, Dissolved	**16.8**	ug/L	1.0	1	09/24/13 17:20	09/26/13 13:03	7440-47-3	
Cobalt, Dissolved	**39.9**	ug/L	1.0	1	09/24/13 17:20	09/26/13 13:03	7440-48-4	
Copper, Dissolved	**1320**	ug/L	1.0	1	09/24/13 17:20	09/26/13 13:03	7440-50-8	M1
Iron, Dissolved	**151000**	ug/L	1000	20	09/24/13 17:20	09/27/13 14:19	7439-89-6	M1
Lead, Dissolved	**6330**	ug/L	10.0	10	09/24/13 17:20	09/26/13 13:07	7439-92-1	M1
Manganese, Dissolved	**18800**	ug/L	10.0	10	09/24/13 17:20	09/26/13 13:07	7439-96-5	M1
Molybdenum, Dissolved	**5.1**	ug/L	1.0	1	09/24/13 17:20	09/26/13 13:03	7439-98-7	
Nickel, Dissolved	**51.7**	ug/L	1.0	1	09/24/13 17:20	09/26/13 13:03	7440-02-0	
Selenium, Dissolved	**8.4**	ug/L	1.0	1	09/24/13 17:20	09/26/13 13:03	7782-49-2	
Silver, Dissolved	**0.13J**	ug/L	0.50	1	09/24/13 17:20	09/26/13 13:03	7440-22-4	
Thallium, Dissolved	**0.81J**	ug/L	1.0	1	09/24/13 17:20	09/26/13 13:03	7440-28-0	
Vanadium, Dissolved	**52.1**	ug/L	1.0	1	09/24/13 17:20	09/26/13 13:03	7440-62-2	
Zinc, Dissolved	**27400**	ug/L	100	10	09/24/13 17:20	09/26/13 13:07	7440-66-6	M1
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	**1.1**	ug/L	0.20	1	09/23/13 12:41	09/25/13 09:28	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/26/13 10:51	09/26/13 13:56	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/25/13 09:00	09/25/13 16:29	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**2090**	umhos/cm	10.0	1		09/20/13 15:30		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**1340**	mg/L	6.4	1		09/23/13 11:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: September 2013 Rico Water
Pace Project No.: 60153115

Sample: GW-6_20130912 **Lab ID: 60153115002** Collected: 09/12/13 10:40 Received: 09/14/13 09:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**1.1**	PSU	0.014	1		09/23/13 11:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**184**	mg/L	20.0	1		09/24/13 10:40		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/24/13 10:40		
Alkalinity, Total as CaCO3	**184**	mg/L	20.0	1		09/24/13 10:40		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1900**	mg/L	5.0	1		09/19/13 13:50		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**5470**	mg/L	5.0	1		09/19/13 10:27		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/18/13 11:51	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.3**	mg/L	1.0	1		09/26/13 19:43	16887-00-6	
Sulfate	**791**	mg/L	100	100		09/27/13 15:56	14808-79-8	M1
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/29/13 09:46		M1
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/23/13 15:47	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**2.1**	mg/L	0.50	1		09/24/13 21:58	7440-44-0	M0

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ANALYTICAL RESULTS

Project: September 2013 Rico Water
Pace Project No.: 60153115

Sample: EB-1_20130912 **Lab ID: 60153115003** Collected: 09/12/13 11:30 Received: 09/14/13 09:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**382000**	ug/L	100	1	09/24/13 17:20	09/25/13 16:54	7440-70-2	
Magnesium, Dissolved	**26000**	ug/L	50.0	1	09/24/13 17:20	09/25/13 16:54	7439-95-4	
Potassium, Dissolved	**4600**	ug/L	500	1	09/24/13 17:20	09/25/13 16:54	7440-09-7	
Sodium, Dissolved	**7390**	ug/L	500	1	09/24/13 17:20	09/25/13 16:54	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**871**	ug/L	4.0	1	09/21/13 12:31	09/26/13 20:22	7429-90-5	
Antimony	ND	ug/L	0.50	1	09/21/13 12:31	09/26/13 20:22	7440-36-0	
Arsenic	**11.3**	ug/L	0.50	1	09/21/13 12:31	09/26/13 20:22	7440-38-2	
Barium	**41.9**	ug/L	0.30	1	09/21/13 12:31	09/26/13 20:22	7440-39-3	
Beryllium	**0.20**	ug/L	0.20	1	09/21/13 12:31	09/26/13 20:22	7440-41-7	
Cadmium	**1.6**	ug/L	0.080	1	09/21/13 12:31	09/26/13 20:22	7440-43-9	
Calcium	**397000**	ug/L	400	20	09/21/13 12:31	09/26/13 20:54	7440-70-2	
Chromium	**1.5**	ug/L	0.50	1	09/21/13 12:31	09/26/13 20:22	7440-47-3	
Cobalt	**5.0**	ug/L	0.50	1	09/21/13 12:31	09/26/13 20:22	7440-48-4	
Copper	**36.0**	ug/L	0.50	1	09/21/13 12:31	09/26/13 20:22	7440-50-8	
Iron	**7600**	ug/L	50.0	1	09/21/13 12:31	09/26/13 20:22	7439-89-6	
Lead	**213**	ug/L	0.10	1	09/21/13 12:31	09/26/13 20:22	7439-92-1	
Magnesium	**29000**	ug/L	100	20	09/21/13 12:31	09/26/13 20:54	7439-95-4	
Manganese	**3360**	ug/L	10.0	20	09/21/13 12:31	09/26/13 20:54	7439-96-5	
Molybdenum	**13.2**	ug/L	0.50	1	09/21/13 12:31	09/26/13 20:22	7439-98-7	
Nickel	**6.0**	ug/L	0.50	1	09/21/13 12:31	09/26/13 20:22	7440-02-0	
Potassium	**4830**	ug/L	20.0	1	09/21/13 12:31	09/26/13 20:22	7440-09-7	
Selenium	ND	ug/L	0.50	1	09/21/13 12:31	09/30/13 11:17	7782-49-2	
Silica	**24900**	ug/L	1070	20	09/21/13 12:31	09/26/13 20:54	7631-86-9	
Silver	**0.96**	ug/L	0.50	1	09/21/13 12:31	09/26/13 20:22	7440-22-4	
Sodium	**7980**	ug/L	50.0	1	09/21/13 12:31	09/26/13 20:22	7440-23-5	
Thallium	ND	ug/L	0.10	1	09/21/13 12:31	09/26/13 20:22	7440-28-0	
Total Hardness by 2340B	**1110000**	ug/L	1420	20	09/21/13 12:31	09/26/13 20:54		
Vanadium	**0.30**	ug/L	0.10	1	09/21/13 12:31	09/26/13 20:22	7440-62-2	
Zinc	**1550**	ug/L	100	20	09/21/13 12:31	09/26/13 20:54	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**11.6**	ug/L	4.0	1	09/21/13 12:29	09/27/13 06:26	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/21/13 12:29	09/27/13 06:26	7440-36-0	
Arsenic, Dissolved	**6.6**	ug/L	0.50	1	09/21/13 12:29	09/27/13 06:26	7440-38-2	
Barium, Dissolved	**14.6**	ug/L	0.30	1	09/21/13 12:29	09/27/13 06:26	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	09/21/13 12:29	09/27/13 06:26	7440-41-7	
Cadmium, Dissolved	ND	ug/L	0.080	1	09/21/13 12:29	09/27/13 06:26	7440-43-9	
Calcium, Dissolved	**430000**	ug/L	400	20	09/21/13 12:29	09/27/13 06:30	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	09/21/13 12:29	09/27/13 06:26	7440-47-3	
Cobalt, Dissolved	**4.3**	ug/L	0.50	1	09/21/13 12:29	09/27/13 06:26	7440-48-4	
Copper, Dissolved	**0.95**	ug/L	0.50	1	09/21/13 12:29	09/27/13 06:26	7440-50-8	
Iron, Dissolved	**2750**	ug/L	1000	20	09/21/13 12:29	09/27/13 06:30	7439-89-6	
Lead, Dissolved	**1.3**	ug/L	0.10	1	09/21/13 12:29	09/27/13 06:26	7439-92-1	
Magnesium, Dissolved	**28600**	ug/L	100	20	09/21/13 12:29	09/27/13 06:30	7439-95-4	

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ANALYTICAL RESULTS

Project: September 2013 Rico Water
Pace Project No.: 60153115

Sample: EB-1_20130912 **Lab ID: 60153115003** Collected: 09/12/13 11:30 Received: 09/14/13 09:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	**3350**	ug/L	10.0	20	09/21/13 12:29	09/27/13 06:30	7439-96-5	
Molybdenum, Dissolved	**13.3**	ug/L	0.50	1	09/21/13 12:29	09/27/13 06:26	7439-98-7	
Nickel, Dissolved	**6.1**	ug/L	0.50	1	09/21/13 12:29	09/27/13 06:26	7440-02-0	
Potassium, Dissolved	**4880**	ug/L	20.0	1	09/21/13 12:29	09/27/13 06:26	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	09/21/13 12:29	09/27/13 06:26	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/21/13 12:29	09/27/13 13:47	7440-22-4	
Sodium, Dissolved	**7950**	ug/L	50.0	1	09/21/13 12:29	09/27/13 06:26	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/21/13 12:29	09/27/13 06:26	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	09/21/13 12:29	09/27/13 06:26	7440-62-2	
Zinc, Dissolved	**1100**	ug/L	100	20	09/21/13 12:29	09/27/13 06:30	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**498**	ug/L	50.0	1	09/24/13 17:20	09/26/13 13:19	7429-90-5	
Antimony, Dissolved	**0.22J**	ug/L	1.0	1	09/24/13 17:20	09/26/13 13:19	7440-36-0	
Arsenic, Dissolved	**10.9**	ug/L	1.0	1	09/24/13 17:20	09/26/13 13:19	7440-38-2	
Barium, Dissolved	**21.1**	ug/L	1.0	1	09/24/13 17:20	09/26/13 13:19	7440-39-3	
Beryllium, Dissolved	**0.20J**	ug/L	0.50	1	09/24/13 17:20	09/26/13 13:19	7440-41-7	
Cadmium, Dissolved	**1.1**	ug/L	0.50	1	09/24/13 17:20	09/26/13 13:19	7440-43-9	
Chromium, Dissolved	**1.0**	ug/L	1.0	1	09/24/13 17:20	09/26/13 13:19	7440-47-3	
Cobalt, Dissolved	**4.4**	ug/L	1.0	1	09/24/13 17:20	09/26/13 13:19	7440-48-4	
Copper, Dissolved	**24.7**	ug/L	1.0	1	09/24/13 17:20	09/26/13 13:19	7440-50-8	
Iron, Dissolved	**4940**	ug/L	50.0	1	09/24/13 17:20	09/27/13 14:23	7439-89-6	
Lead, Dissolved	**206**	ug/L	1.0	1	09/24/13 17:20	09/26/13 13:19	7439-92-1	
Manganese, Dissolved	**3330**	ug/L	1.0	1	09/24/13 17:20	09/26/13 13:19	7439-96-5	
Molybdenum, Dissolved	**12.5**	ug/L	1.0	1	09/24/13 17:20	09/26/13 13:19	7439-98-7	
Nickel, Dissolved	**4.7**	ug/L	1.0	1	09/24/13 17:20	09/26/13 13:19	7440-02-0	
Selenium, Dissolved	**0.20J**	ug/L	1.0	1	09/24/13 17:20	09/26/13 13:19	7782-49-2	
Silver, Dissolved	**0.035J**	ug/L	0.50	1	09/24/13 17:20	09/26/13 13:19	7440-22-4	
Thallium, Dissolved	**0.028J**	ug/L	1.0	1	09/24/13 17:20	09/26/13 13:19	7440-28-0	
Vanadium, Dissolved	**0.45J**	ug/L	1.0	1	09/24/13 17:20	09/26/13 13:19	7440-62-2	
Zinc, Dissolved	**1240**	ug/L	10.0	1	09/24/13 17:20	09/26/13 13:19	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/23/13 12:41	09/25/13 09:38	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/26/13 10:51	09/26/13 13:59	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/25/13 09:00	09/25/13 16:32	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**2000**	umhos/cm	10.0	1		09/20/13 15:31		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**1280**	mg/L	6.4	1		09/23/13 11:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: September 2013 Rico Water
Pace Project No.: 60153115

Sample: EB-1_20130912 **Lab ID: 60153115003** Collected: 09/12/13 11:30 Received: 09/14/13 09:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**1.0**	PSU	0.014	1		09/23/13 11:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**152**	mg/L	20.0	1		09/24/13 10:53		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/24/13 10:53		
Alkalinity, Total as CaCO3	**152**	mg/L	20.0	1		09/24/13 10:53		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1610**	mg/L	5.0	1		09/19/13 13:50		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**40.0**	mg/L	5.0	1		09/19/13 10:27		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/18/13 11:56	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.5**	mg/L	1.0	1		09/26/13 21:14	16887-00-6	
Sulfate	**841**	mg/L	100	100		09/27/13 16:42	14808-79-8	M1
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/29/13 09:48		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/23/13 15:50	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**3.8**	mg/L	3.0	6		09/24/13 22:52	7440-44-0	

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ANALYTICAL RESULTS

Project: September 2013 Rico Water
Pace Project No.: 60153115

Sample: EB-2_20130912 **Lab ID: 60153115004** Collected: 09/12/13 10:00 Received: 09/14/13 09:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**307000**	ug/L	100	1	09/24/13 17:20	09/25/13 16:57	7440-70-2	
Magnesium, Dissolved	**103000**	ug/L	50.0	1	09/24/13 17:20	09/25/13 16:57	7439-95-4	
Potassium, Dissolved	**14500**	ug/L	500	1	09/24/13 17:20	09/25/13 16:57	7440-09-7	
Sodium, Dissolved	**6880**	ug/L	500	1	09/24/13 17:20	09/25/13 16:57	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**11200**	ug/L	4.0	1	09/21/13 12:31	09/26/13 20:59	7429-90-5	
Antimony	**0.62**	ug/L	0.50	1	09/21/13 12:31	09/26/13 20:59	7440-36-0	
Arsenic	**239**	ug/L	0.50	1	09/21/13 12:31	09/26/13 20:59	7440-38-2	
Barium	**56.2**	ug/L	0.30	1	09/21/13 12:31	09/26/13 20:59	7440-39-3	
Beryllium	**4.3**	ug/L	0.20	1	09/21/13 12:31	09/26/13 20:59	7440-41-7	
Cadmium	**5.7**	ug/L	0.080	1	09/21/13 12:31	09/26/13 20:59	7440-43-9	
Calcium	**328000**	ug/L	400	20	09/21/13 12:31	09/26/13 21:09	7440-70-2	
Chromium	**1.6**	ug/L	0.50	1	09/21/13 12:31	09/26/13 20:59	7440-47-3	
Cobalt	**30.4**	ug/L	0.50	1	09/21/13 12:31	09/26/13 20:59	7440-48-4	
Copper	**98.3**	ug/L	0.50	1	09/21/13 12:31	09/26/13 20:59	7440-50-8	
Iron	**464000**	ug/L	5000	100	09/21/13 12:31	09/30/13 16:11	7439-89-6	
Lead	**782**	ug/L	2.0	20	09/21/13 12:31	09/26/13 21:09	7439-92-1	
Magnesium	**116000**	ug/L	100	20	09/21/13 12:31	09/26/13 21:09	7439-95-4	
Manganese	**24100**	ug/L	50.0	100	09/21/13 12:31	09/30/13 16:11	7439-96-5	
Molybdenum	**5.5**	ug/L	0.50	1	09/21/13 12:31	09/26/13 20:59	7439-98-7	
Nickel	**42.9**	ug/L	0.50	1	09/21/13 12:31	09/26/13 20:59	7440-02-0	
Potassium	**15500**	ug/L	20.0	1	09/21/13 12:31	09/26/13 20:59	7440-09-7	
Selenium	**0.91**	ug/L	0.50	1	09/21/13 12:31	09/26/13 20:59	7782-49-2	
Silica	**41800**	ug/L	1070	20	09/21/13 12:31	09/26/13 21:09	7631-86-9	
Silver	**2.4**	ug/L	0.50	1	09/21/13 12:31	09/26/13 20:59	7440-22-4	
Sodium	**7180**	ug/L	50.0	1	09/21/13 12:31	09/26/13 20:59	7440-23-5	
Thallium	**0.13**	ug/L	0.10	1	09/21/13 12:31	09/26/13 20:59	7440-28-0	
Total Hardness by 2340B	**1300000**	ug/L	1420	20	09/21/13 12:31	09/26/13 21:09		
Vanadium	**0.60**	ug/L	0.10	1	09/21/13 12:31	09/26/13 20:59	7440-62-2	
Zinc	**33600**	ug/L	500	100	09/21/13 12:31	09/30/13 16:11	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**9690**	ug/L	4.0	1	09/21/13 12:29	09/26/13 00:39	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/21/13 12:29	09/26/13 00:39	7440-36-0	
Arsenic, Dissolved	**156**	ug/L	0.50	1	09/21/13 12:29	09/26/13 00:39	7440-38-2	
Barium, Dissolved	**14.6**	ug/L	0.30	1	09/21/13 12:29	09/26/13 00:39	7440-39-3	
Beryllium, Dissolved	**4.0**	ug/L	0.20	1	09/21/13 12:29	09/26/13 00:39	7440-41-7	
Cadmium, Dissolved	**1.1**	ug/L	0.080	1	09/21/13 12:29	09/26/13 00:39	7440-43-9	
Calcium, Dissolved	**343000**	ug/L	400	20	09/21/13 12:29	09/26/13 00:48	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	09/21/13 12:29	09/26/13 00:39	7440-47-3	
Cobalt, Dissolved	**30.0**	ug/L	0.50	1	09/21/13 12:29	09/26/13 00:39	7440-48-4	
Copper, Dissolved	**0.53**	ug/L	0.50	1	09/21/13 12:29	09/26/13 00:39	7440-50-8	
Iron, Dissolved	**448000**	ug/L	2500	50	09/21/13 12:29	09/30/13 12:01	7439-89-6	
Lead, Dissolved	**0.40**	ug/L	0.10	1	09/21/13 12:29	09/26/13 00:39	7439-92-1	
Magnesium, Dissolved	**112000**	ug/L	100	20	09/21/13 12:29	09/26/13 00:48	7439-95-4	

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ANALYTICAL RESULTS

Project: September 2013 Rico Water
Pace Project No.: 60153115

Sample: EB-2_20130912 **Lab ID: 60153115004** Collected: 09/12/13 10:00 Received: 09/14/13 09:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	**23300**	ug/L	50.0	100	09/21/13 12:29	09/30/13 16:25	7439-96-5	
Molybdenum, Dissolved	**3.9**	ug/L	0.50	1	09/21/13 12:29	09/26/13 00:39	7439-98-7	
Nickel, Dissolved	**42.0**	ug/L	0.50	1	09/21/13 12:29	09/26/13 00:39	7440-02-0	
Potassium, Dissolved	**15800**	ug/L	20.0	1	09/21/13 12:29	09/27/13 06:35	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	09/21/13 12:29	09/27/13 06:35	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/21/13 12:29	09/26/13 00:39	7440-22-4	
Sodium, Dissolved	**6940**	ug/L	50.0	1	09/21/13 12:29	09/26/13 00:39	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/21/13 12:29	09/26/13 00:39	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	09/21/13 12:29	09/26/13 00:39	7440-62-2	
Zinc, Dissolved	**32100**	ug/L	500	100	09/21/13 12:29	09/30/13 16:25	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**10100**	ug/L	50.0	1	09/24/13 17:20	09/27/13 14:35	7429-90-5	
Antimony, Dissolved	**0.61J**	ug/L	1.0	1	09/24/13 17:20	09/27/13 14:35	7440-36-0	
Arsenic, Dissolved	**240**	ug/L	1.0	1	09/24/13 17:20	09/27/13 14:35	7440-38-2	
Barium, Dissolved	**18.5**	ug/L	1.0	1	09/24/13 17:20	09/27/13 14:35	7440-39-3	
Beryllium, Dissolved	**4.3**	ug/L	0.50	1	09/24/13 17:20	09/27/13 14:35	7440-41-7	
Cadmium, Dissolved	**3.9**	ug/L	0.50	1	09/24/13 17:20	09/27/13 14:35	7440-43-9	
Chromium, Dissolved	**3.3**	ug/L	1.0	1	09/24/13 17:20	09/27/13 14:35	7440-47-3	
Cobalt, Dissolved	**30.3**	ug/L	1.0	1	09/24/13 17:20	09/27/13 14:35	7440-48-4	
Copper, Dissolved	**74.3**	ug/L	1.0	1	09/24/13 17:20	09/27/13 14:35	7440-50-8	
Iron, Dissolved	**436000**	ug/L	2500	50	09/24/13 17:20	09/27/13 14:39	7439-89-6	
Lead, Dissolved	**672**	ug/L	1.0	1	09/24/13 17:20	09/27/13 14:35	7439-92-1	
Manganese, Dissolved	**23700**	ug/L	50.0	50	09/24/13 17:20	09/26/13 13:27	7439-96-5	
Molybdenum, Dissolved	**4.2**	ug/L	1.0	1	09/24/13 17:20	09/27/13 14:35	7439-98-7	
Nickel, Dissolved	**40.8**	ug/L	1.0	1	09/24/13 17:20	09/27/13 14:35	7440-02-0	
Selenium, Dissolved	**2.1**	ug/L	1.0	1	09/24/13 17:20	09/27/13 14:35	7782-49-2	
Silver, Dissolved	**0.45J**	ug/L	0.50	1	09/24/13 17:20	09/27/13 14:35	7440-22-4	
Thallium, Dissolved	**0.57J**	ug/L	1.0	1	09/24/13 17:20	09/27/13 14:35	7440-28-0	
Vanadium, Dissolved	**0.59J**	ug/L	1.0	1	09/24/13 17:20	09/27/13 14:35	7440-62-2	
Zinc, Dissolved	**32900**	ug/L	500	50	09/24/13 17:20	09/26/13 13:27	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/23/13 12:41	09/25/13 09:40	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/26/13 10:51	09/26/13 14:01	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/25/13 09:00	09/25/13 16:38	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**3000**	umhos/cm	10.0	1		09/20/13 15:34		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**1920**	mg/L	6.4	1		09/23/13 11:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: September 2013 Rico Water
Pace Project No.: 60153115

Sample: EB-2_20130912 **Lab ID: 60153115004** Collected: 09/12/13 10:00 Received: 09/14/13 09:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**1.6**	PSU	0.014	1		09/23/13 11:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	20.0	1		09/24/13 10:56		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/24/13 10:56		
Alkalinity, Total as CaCO3	ND	mg/L	20.0	1		09/24/13 10:56		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**3230**	mg/L	5.0	1		09/19/13 13:50		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**198**	mg/L	5.0	1		09/19/13 10:27		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/18/13 11:56	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**3.0**	mg/L	1.0	1		09/26/13 21:45	16887-00-6	
Sulfate	**1790**	mg/L	200	200		09/27/13 17:13	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/29/13 09:48		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/23/13 15:51	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	0.50	1		09/25/13 11:13	7440-44-0	

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ANALYTICAL RESULTS

Project: September 2013 Rico Water
Pace Project No.: 60153115

Sample: MW-103_20130912 **Lab ID: 60153115005** Collected: 09/12/13 15:17 Received: 09/14/13 09:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**298000**	ug/L	100	1	09/24/13 17:20	09/25/13 16:59	7440-70-2	
Magnesium, Dissolved	**30800**	ug/L	50.0	1	09/24/13 17:20	09/25/13 16:59	7439-95-4	
Potassium, Dissolved	**5430**	ug/L	500	1	09/24/13 17:20	09/25/13 16:59	7440-09-7	
Sodium, Dissolved	**15500**	ug/L	500	1	09/24/13 17:20	09/25/13 16:59	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**1750**	ug/L	4.0	1	09/21/13 12:31	09/26/13 21:14	7429-90-5	
Antimony	ND	ug/L	0.50	1	09/21/13 12:31	09/26/13 21:14	7440-36-0	
Arsenic	**8.4**	ug/L	0.50	1	09/21/13 12:31	09/26/13 21:14	7440-38-2	
Barium	**59.4**	ug/L	0.30	1	09/21/13 12:31	09/26/13 21:14	7440-39-3	
Beryllium	**0.56**	ug/L	0.20	1	09/21/13 12:31	09/26/13 21:14	7440-41-7	
Cadmium	**1.3**	ug/L	0.080	1	09/21/13 12:31	09/26/13 21:14	7440-43-9	
Calcium	**315000**	ug/L	400	20	09/21/13 12:31	09/26/13 21:18	7440-70-2	
Chromium	**2.2**	ug/L	0.50	1	09/21/13 12:31	09/26/13 21:14	7440-47-3	
Cobalt	**3.6**	ug/L	0.50	1	09/21/13 12:31	09/26/13 21:14	7440-48-4	
Copper	**6.3**	ug/L	0.50	1	09/21/13 12:31	09/26/13 21:14	7440-50-8	
Iron	**10700**	ug/L	50.0	1	09/21/13 12:31	09/26/13 21:14	7439-89-6	
Lead	**6.4**	ug/L	0.10	1	09/21/13 12:31	09/26/13 21:14	7439-92-1	
Magnesium	**35600**	ug/L	100	20	09/21/13 12:31	09/26/13 21:18	7439-95-4	
Manganese	**8570**	ug/L	10.0	20	09/21/13 12:31	09/26/13 21:18	7439-96-5	
Molybdenum	**11.2**	ug/L	0.50	1	09/21/13 12:31	09/26/13 21:14	7439-98-7	
Nickel	**3.1**	ug/L	0.50	1	09/21/13 12:31	09/26/13 21:14	7440-02-0	
Potassium	**5730**	ug/L	20.0	1	09/21/13 12:31	09/26/13 21:14	7440-09-7	
Selenium	ND	ug/L	0.50	1	09/21/13 12:31	09/26/13 21:14	7782-49-2	
Silica	**40700**	ug/L	1070	20	09/21/13 12:31	09/26/13 21:18	7631-86-9	
Silver	ND	ug/L	0.50	1	09/21/13 12:31	09/26/13 21:14	7440-22-4	
Sodium	**15500**	ug/L	50.0	1	09/21/13 12:31	09/26/13 21:14	7440-23-5	
Thallium	**0.18**	ug/L	0.10	1	09/21/13 12:31	09/26/13 21:14	7440-28-0	
Total Hardness by 2340B	**932000**	ug/L	1420	20	09/21/13 12:31	09/26/13 21:18		
Vanadium	**2.2**	ug/L	0.10	1	09/21/13 12:31	09/26/13 21:14	7440-62-2	
Zinc	**136**	ug/L	5.0	1	09/21/13 12:31	09/26/13 21:14	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**31.5**	ug/L	4.0	1	09/21/13 12:29	09/26/13 00:53	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/21/13 12:29	09/26/13 00:53	7440-36-0	
Arsenic, Dissolved	**3.2**	ug/L	0.50	1	09/21/13 12:29	09/26/13 00:53	7440-38-2	
Barium, Dissolved	**37.4**	ug/L	0.30	1	09/21/13 12:29	09/26/13 00:53	7440-39-3	
Beryllium, Dissolved	**0.34**	ug/L	0.20	1	09/21/13 12:29	09/26/13 00:53	7440-41-7	
Cadmium, Dissolved	**0.15**	ug/L	0.080	1	09/21/13 12:29	09/26/13 00:53	7440-43-9	
Calcium, Dissolved	**322000**	ug/L	400	20	09/21/13 12:29	09/26/13 00:58	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	09/21/13 12:29	09/26/13 00:53	7440-47-3	
Cobalt, Dissolved	**2.9**	ug/L	0.50	1	09/21/13 12:29	09/26/13 00:53	7440-48-4	
Copper, Dissolved	**0.80**	ug/L	0.50	1	09/21/13 12:29	09/26/13 00:53	7440-50-8	
Iron, Dissolved	**6540**	ug/L	50.0	1	09/21/13 12:29	09/26/13 00:53	7439-89-6	
Lead, Dissolved	**0.15**	ug/L	0.10	1	09/21/13 12:29	09/26/13 00:53	7439-92-1	
Magnesium, Dissolved	**32500**	ug/L	100	20	09/21/13 12:29	09/26/13 00:58	7439-95-4	

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ANALYTICAL RESULTS

Project: September 2013 Rico Water
Pace Project No.: 60153115

Sample: MW-103_20130912 **Lab ID: 60153115005** Collected: 09/12/13 15:17 Received: 09/14/13 09:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	**8380**	ug/L	10.0	20	09/21/13 12:29	09/26/13 00:58	7439-96-5	
Molybdenum, Dissolved	**10.2**	ug/L	0.50	1	09/21/13 12:29	09/26/13 00:53	7439-98-7	
Nickel, Dissolved	**1.9**	ug/L	0.50	1	09/21/13 12:29	09/26/13 00:53	7440-02-0	
Potassium, Dissolved	**5440**	ug/L	20.0	1	09/21/13 12:29	09/27/13 06:44	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	09/21/13 12:29	09/27/13 06:44	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/21/13 12:29	09/26/13 00:53	7440-22-4	
Sodium, Dissolved	**16900**	ug/L	50.0	1	09/21/13 12:29	09/26/13 00:53	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/21/13 12:29	09/26/13 00:53	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	09/21/13 12:29	09/26/13 00:53	7440-62-2	
Zinc, Dissolved	**90.4**	ug/L	5.0	1	09/21/13 12:29	09/26/13 00:53	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**615**	ug/L	50.0	1	09/24/13 17:20	09/26/13 13:39	7429-90-5	
Antimony, Dissolved	ND	ug/L	1.0	1	09/24/13 17:20	09/26/13 13:39	7440-36-0	
Arsenic, Dissolved	**5.5**	ug/L	1.0	1	09/24/13 17:20	09/26/13 13:39	7440-38-2	
Barium, Dissolved	**42.6**	ug/L	1.0	1	09/24/13 17:20	09/26/13 13:39	7440-39-3	
Beryllium, Dissolved	**0.54**	ug/L	0.50	1	09/24/13 17:20	09/26/13 13:39	7440-41-7	
Cadmium, Dissolved	**1.2**	ug/L	0.50	1	09/24/13 17:20	09/26/13 13:39	7440-43-9	
Chromium, Dissolved	**2.8**	ug/L	1.0	1	09/24/13 17:20	09/26/13 13:39	7440-47-3	
Cobalt, Dissolved	**3.3**	ug/L	1.0	1	09/24/13 17:20	09/26/13 13:39	7440-48-4	
Copper, Dissolved	**4.6**	ug/L	1.0	1	09/24/13 17:20	09/26/13 13:39	7440-50-8	
Iron, Dissolved	**8640**	ug/L	250	5	09/24/13 17:20	09/27/13 14:43	7439-89-6	
Lead, Dissolved	**5.5**	ug/L	1.0	1	09/24/13 17:20	09/26/13 13:39	7439-92-1	
Manganese, Dissolved	**8340**	ug/L	5.0	5	09/24/13 17:20	09/26/13 13:44	7439-96-5	
Molybdenum, Dissolved	**7.9**	ug/L	1.0	1	09/24/13 17:20	09/26/13 13:39	7439-98-7	
Nickel, Dissolved	**2.4**	ug/L	1.0	1	09/24/13 17:20	09/26/13 13:39	7440-02-0	
Selenium, Dissolved	**0.27J**	ug/L	1.0	1	09/24/13 17:20	09/26/13 13:39	7782-49-2	
Silver, Dissolved	**0.011J**	ug/L	0.50	1	09/24/13 17:20	09/26/13 13:39	7440-22-4	
Thallium, Dissolved	**0.15J**	ug/L	1.0	1	09/24/13 17:20	09/26/13 13:39	7440-28-0	
Vanadium, Dissolved	**1.0**	ug/L	1.0	1	09/24/13 17:20	09/26/13 13:39	7440-62-2	
Zinc, Dissolved	**114**	ug/L	10.0	1	09/24/13 17:20	09/26/13 13:39	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/23/13 12:41	09/25/13 09:42	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/26/13 10:51	09/26/13 14:09	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/25/13 09:00	09/25/13 16:43	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**1580**	umhos/cm	10.0	1		09/20/13 15:36		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**1010**	mg/L	6.4	1		09/23/13 11:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: September 2013 Rico Water
Pace Project No.: 60153115

Sample: MW-103_20130912 **Lab ID: 60153115005** Collected: 09/12/13 15:17 Received: 09/14/13 09:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.79**	PSU	0.014	1		09/23/13 11:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**322**	mg/L	20.0	1		09/24/13 11:04		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/24/13 11:04		
Alkalinity, Total as CaCO3	**322**	mg/L	20.0	1		09/24/13 11:04		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1250**	mg/L	5.0	1		09/19/13 13:50		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**83.0**	mg/L	5.0	1		09/19/13 10:27		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/18/13 11:57	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.6**	mg/L	1.0	1		09/26/13 22:00	16887-00-6	
Sulfate	**497**	mg/L	100	100		09/27/13 17:28	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/29/13 09:49		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/23/13 15:54	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**0.65**	mg/L	0.50	1		09/24/13 23:29	7440-44-0	

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ANALYTICAL RESULTS

Project: September 2013 Rico Water
Pace Project No.: 60153115

Sample: P13-102_20130912 **Lab ID: 60153115006** Collected: 09/12/13 13:02 Received: 09/14/13 09:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**291000**	ug/L	100	1	09/24/13 17:20	09/25/13 17:06	7440-70-2	
Magnesium, Dissolved	**38300**	ug/L	50.0	1	09/24/13 17:20	09/25/13 17:06	7439-95-4	
Potassium, Dissolved	**4580**	ug/L	500	1	09/24/13 17:20	09/25/13 17:06	7440-09-7	
Sodium, Dissolved	**10800**	ug/L	500	1	09/24/13 17:20	09/25/13 17:06	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**2210**	ug/L	4.0	1	09/21/13 12:31	09/26/13 21:23	7429-90-5	
Antimony	ND	ug/L	0.50	1	09/21/13 12:31	09/26/13 21:23	7440-36-0	
Arsenic	**2.2**	ug/L	0.50	1	09/21/13 12:31	09/26/13 21:23	7440-38-2	
Barium	**68.9**	ug/L	0.30	1	09/21/13 12:31	09/26/13 21:23	7440-39-3	
Beryllium	ND	ug/L	0.20	1	09/21/13 12:31	09/26/13 21:23	7440-41-7	
Cadmium	**0.26**	ug/L	0.080	1	09/21/13 12:31	09/26/13 21:23	7440-43-9	
Calcium	**300000**	ug/L	400	20	09/21/13 12:31	09/26/13 21:28	7440-70-2	
Chromium	**2.2**	ug/L	0.50	1	09/21/13 12:31	09/26/13 21:23	7440-47-3	
Cobalt	**15.5**	ug/L	0.50	1	09/21/13 12:31	09/26/13 21:23	7440-48-4	
Copper	**4.8**	ug/L	0.50	1	09/21/13 12:31	09/26/13 21:23	7440-50-8	
Iron	**5230**	ug/L	50.0	1	09/21/13 12:31	09/26/13 21:23	7439-89-6	
Lead	**6.1**	ug/L	0.10	1	09/21/13 12:31	09/26/13 21:23	7439-92-1	
Magnesium	**43000**	ug/L	100	20	09/21/13 12:31	09/26/13 21:28	7439-95-4	
Manganese	**12100**	ug/L	50.0	100	09/21/13 12:31	09/30/13 16:16	7439-96-5	
Molybdenum	**3.5**	ug/L	0.50	1	09/21/13 12:31	09/26/13 21:23	7439-98-7	
Nickel	**3.9**	ug/L	0.50	1	09/21/13 12:31	09/26/13 21:23	7440-02-0	
Potassium	**5110**	ug/L	20.0	1	09/21/13 12:31	09/26/13 21:23	7440-09-7	
Selenium	ND	ug/L	0.50	1	09/21/13 12:31	09/26/13 21:23	7782-49-2	
Silica	**31200**	ug/L	1070	20	09/21/13 12:31	09/26/13 21:28	7631-86-9	
Silver	ND	ug/L	0.50	1	09/21/13 12:31	09/26/13 21:23	7440-22-4	
Sodium	**12000**	ug/L	50.0	1	09/21/13 12:31	09/26/13 21:23	7440-23-5	
Thallium	**0.12**	ug/L	0.10	1	09/21/13 12:31	09/26/13 21:23	7440-28-0	
Total Hardness by 2340B	**926000**	ug/L	1420	20	09/21/13 12:31	09/26/13 21:28		
Vanadium	**3.8**	ug/L	0.10	1	09/21/13 12:31	09/26/13 21:23	7440-62-2	
Zinc	**98.3**	ug/L	5.0	1	09/21/13 12:31	09/26/13 21:23	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**71.3**	ug/L	4.0	1	09/21/13 12:29	09/26/13 01:02	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/21/13 12:29	09/26/13 01:02	7440-36-0	
Arsenic, Dissolved	**0.97**	ug/L	0.50	1	09/21/13 12:29	09/26/13 01:02	7440-38-2	
Barium, Dissolved	**30.5**	ug/L	0.30	1	09/21/13 12:29	09/26/13 01:02	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	09/21/13 12:29	09/26/13 01:02	7440-41-7	
Cadmium, Dissolved	**0.088**	ug/L	0.080	1	09/21/13 12:29	09/26/13 01:02	7440-43-9	
Calcium, Dissolved	**329000**	ug/L	400	20	09/21/13 12:29	09/26/13 01:07	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	09/21/13 12:29	09/26/13 01:02	7440-47-3	
Cobalt, Dissolved	**14.4**	ug/L	0.50	1	09/21/13 12:29	09/26/13 01:02	7440-48-4	
Copper, Dissolved	**0.68**	ug/L	0.50	1	09/21/13 12:29	09/26/13 01:02	7440-50-8	
Iron, Dissolved	**2610**	ug/L	50.0	1	09/21/13 12:29	09/26/13 01:02	7439-89-6	
Lead, Dissolved	**0.22**	ug/L	0.10	1	09/21/13 12:29	09/26/13 01:02	7439-92-1	
Magnesium, Dissolved	**43100**	ug/L	100	20	09/21/13 12:29	09/26/13 01:07	7439-95-4	

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ANALYTICAL RESULTS

Project: September 2013 Rico Water
Pace Project No.: 60153115

Sample: P13-102_20130912 **Lab ID: 60153115006** Collected: 09/12/13 13:02 Received: 09/14/13 09:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	**11700**	ug/L	25.0	50	09/21/13 12:29	09/30/13 12:06	7439-96-5	
Molybdenum, Dissolved	**3.5**	ug/L	0.50	1	09/21/13 12:29	09/26/13 01:02	7439-98-7	
Nickel, Dissolved	**2.3**	ug/L	0.50	1	09/21/13 12:29	09/26/13 01:02	7440-02-0	
Potassium, Dissolved	**4840**	ug/L	20.0	1	09/21/13 12:29	09/27/13 06:49	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	09/21/13 12:29	09/27/13 06:49	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/21/13 12:29	09/26/13 01:02	7440-22-4	
Sodium, Dissolved	**11300**	ug/L	50.0	1	09/21/13 12:29	09/26/13 01:02	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/21/13 12:29	09/26/13 01:02	7440-28-0	
Vanadium, Dissolved	**0.20**	ug/L	0.10	1	09/21/13 12:29	09/26/13 01:02	7440-62-2	
Zinc, Dissolved	**65.7**	ug/L	5.0	1	09/21/13 12:29	09/26/13 01:02	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**960**	ug/L	50.0	1	09/24/13 17:20	09/26/13 13:48	7429-90-5	
Antimony, Dissolved	ND	ug/L	1.0	1	09/24/13 17:20	09/26/13 13:48	7440-36-0	
Arsenic, Dissolved	**1.4**	ug/L	1.0	1	09/24/13 17:20	09/26/13 13:48	7440-38-2	
Barium, Dissolved	**37.8**	ug/L	1.0	1	09/24/13 17:20	09/26/13 13:48	7440-39-3	
Beryllium, Dissolved	**0.18J**	ug/L	0.50	1	09/24/13 17:20	09/26/13 13:48	7440-41-7	
Cadmium, Dissolved	**0.21J**	ug/L	0.50	1	09/24/13 17:20	09/26/13 13:48	7440-43-9	
Chromium, Dissolved	**1.6**	ug/L	1.0	1	09/24/13 17:20	09/26/13 13:48	7440-47-3	
Cobalt, Dissolved	**14.5**	ug/L	1.0	1	09/24/13 17:20	09/26/13 13:48	7440-48-4	
Copper, Dissolved	**3.5**	ug/L	1.0	1	09/24/13 17:20	09/26/13 13:48	7440-50-8	
Iron, Dissolved	**4180**	ug/L	500	10	09/24/13 17:20	09/27/13 14:47	7439-89-6	
Lead, Dissolved	**6.2**	ug/L	1.0	1	09/24/13 17:20	09/26/13 13:48	7439-92-1	
Manganese, Dissolved	**11600**	ug/L	10.0	10	09/24/13 17:20	09/27/13 14:47	7439-96-5	
Molybdenum, Dissolved	**2.4**	ug/L	1.0	1	09/24/13 17:20	09/26/13 13:48	7439-98-7	
Nickel, Dissolved	**2.7**	ug/L	1.0	1	09/24/13 17:20	09/26/13 13:48	7440-02-0	
Selenium, Dissolved	**0.23J**	ug/L	1.0	1	09/24/13 17:20	09/26/13 13:48	7782-49-2	
Silver, Dissolved	**0.021J**	ug/L	0.50	1	09/24/13 17:20	09/26/13 13:48	7440-22-4	
Thallium, Dissolved	**0.11J**	ug/L	1.0	1	09/24/13 17:20	09/26/13 13:48	7440-28-0	
Vanadium, Dissolved	**2.3**	ug/L	1.0	1	09/24/13 17:20	09/26/13 13:48	7440-62-2	
Zinc, Dissolved	**84.3**	ug/L	10.0	1	09/24/13 17:20	09/26/13 13:48	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/23/13 12:41	09/25/13 09:44	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/26/13 10:51	09/26/13 14:16	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/25/13 09:00	09/25/13 16:50	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**1590**	umhos/cm	10.0	1		09/20/13 15:38		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**1020**	mg/L	6.4	1		09/23/13 11:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: September 2013 Rico Water
Pace Project No.: 60153115

Sample: P13-102_20130912 **Lab ID: 60153115006** Collected: 09/12/13 13:02 Received: 09/14/13 09:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.80**	PSU	0.014	1		09/23/13 11:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**147**	mg/L	20.0	1		09/24/13 11:08		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/24/13 11:08		
Alkalinity, Total as CaCO3	**147**	mg/L	20.0	1		09/24/13 11:08		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1370**	mg/L	5.0	1		09/19/13 13:51		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**102**	mg/L	5.0	1		09/19/13 10:27		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/18/13 11:57	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.6**	mg/L	1.0	1		09/26/13 22:16	16887-00-6	
Sulfate	**685**	mg/L	100	100		09/27/13 18:13	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/29/13 09:53		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/23/13 15:59	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	0.50	1		09/25/13 11:31	7440-44-0	

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ANALYTICAL RESULTS

Project: September 2013 Rico Water
Pace Project No.: 60153115

Sample: P13-103_20130912 **Lab ID: 60153115007** Collected: 09/12/13 12:42 Received: 09/14/13 09:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**273000**	ug/L	100	1	09/24/13 17:20	09/25/13 17:08	7440-70-2	
Magnesium, Dissolved	**31100**	ug/L	50.0	1	09/24/13 17:20	09/25/13 17:08	7439-95-4	
Potassium, Dissolved	**4630**	ug/L	500	1	09/24/13 17:20	09/25/13 17:08	7440-09-7	
Sodium, Dissolved	**11400**	ug/L	500	1	09/24/13 17:20	09/25/13 17:08	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**7560**	ug/L	4.0	1	09/21/13 12:31	09/26/13 21:32	7429-90-5	
Antimony	**1.4**	ug/L	0.50	1	09/21/13 12:31	09/26/13 21:32	7440-36-0	
Arsenic	**103**	ug/L	0.50	1	09/21/13 12:31	09/26/13 21:32	7440-38-2	
Barium	**158**	ug/L	0.30	1	09/21/13 12:31	09/26/13 21:32	7440-39-3	
Beryllium	**0.51**	ug/L	0.20	1	09/21/13 12:31	09/26/13 21:32	7440-41-7	
Cadmium	**7.2**	ug/L	0.080	1	09/21/13 12:31	09/26/13 21:32	7440-43-9	
Calcium	**287000**	ug/L	400	20	09/21/13 12:31	09/26/13 21:58	7440-70-2	
Chromium	**11.3**	ug/L	0.50	1	09/21/13 12:31	09/26/13 21:32	7440-47-3	
Cobalt	**9.1**	ug/L	0.50	1	09/21/13 12:31	09/26/13 21:32	7440-48-4	
Copper	**441**	ug/L	0.50	1	09/21/13 12:31	09/26/13 21:32	7440-50-8	
Iron	**99800**	ug/L	1000	20	09/21/13 12:31	09/26/13 21:58	7439-89-6	
Lead	**1430**	ug/L	2.0	20	09/21/13 12:31	09/26/13 21:58	7439-92-1	
Magnesium	**36700**	ug/L	100	20	09/21/13 12:31	09/26/13 21:58	7439-95-4	
Manganese	**3310**	ug/L	10.0	20	09/21/13 12:31	09/26/13 21:58	7439-96-5	
Molybdenum	**13.2**	ug/L	0.50	1	09/21/13 12:31	09/26/13 21:32	7439-98-7	
Nickel	**14.2**	ug/L	0.50	1	09/21/13 12:31	09/26/13 21:32	7440-02-0	
Potassium	**6590**	ug/L	20.0	1	09/21/13 12:31	09/26/13 21:32	7440-09-7	
Selenium	**7.1**	ug/L	0.50	1	09/21/13 12:31	09/26/13 21:32	7782-49-2	
Silica	**62700**	ug/L	1070	20	09/21/13 12:31	09/26/13 21:58	7631-86-9	
Silver	**13.1**	ug/L	0.50	1	09/21/13 12:31	09/26/13 21:32	7440-22-4	
Sodium	**12200**	ug/L	50.0	1	09/21/13 12:31	09/26/13 21:32	7440-23-5	
Thallium	**0.77**	ug/L	0.10	1	09/21/13 12:31	09/26/13 21:32	7440-28-0	
Total Hardness by 2340B	**868000**	ug/L	1420	20	09/21/13 12:31	09/26/13 21:58		
Vanadium	**11.2**	ug/L	0.10	1	09/21/13 12:31	09/26/13 21:32	7440-62-2	
Zinc	**1620**	ug/L	100	20	09/21/13 12:31	09/26/13 21:58	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**11.3**	ug/L	4.0	1	09/21/13 12:29	09/26/13 01:12	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/21/13 12:29	09/26/13 01:12	7440-36-0	
Arsenic, Dissolved	**30.6**	ug/L	0.50	1	09/21/13 12:29	09/26/13 01:12	7440-38-2	
Barium, Dissolved	**21.0**	ug/L	0.30	1	09/21/13 12:29	09/26/13 01:12	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	09/21/13 12:29	09/26/13 01:12	7440-41-7	
Cadmium, Dissolved	**0.24**	ug/L	0.080	1	09/21/13 12:29	09/26/13 01:12	7440-43-9	
Calcium, Dissolved	**296000**	ug/L	400	20	09/21/13 12:29	09/26/13 01:17	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	09/21/13 12:29	09/26/13 01:12	7440-47-3	
Cobalt, Dissolved	**1.7**	ug/L	0.50	1	09/21/13 12:29	09/26/13 01:12	7440-48-4	
Copper, Dissolved	**0.80**	ug/L	0.50	1	09/21/13 12:29	09/26/13 01:12	7440-50-8	
Iron, Dissolved	**17000**	ug/L	50.0	1	09/21/13 12:29	09/26/13 01:12	7439-89-6	
Lead, Dissolved	**0.37**	ug/L	0.10	1	09/21/13 12:29	09/26/13 01:12	7439-92-1	
Magnesium, Dissolved	**32800**	ug/L	100	20	09/21/13 12:29	09/26/13 01:17	7439-95-4	

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ANALYTICAL RESULTS

Project: September 2013 Rico Water
Pace Project No.: 60153115

Sample: P13-103_20130912 **Lab ID: 60153115007** Collected: 09/12/13 12:42 Received: 09/14/13 09:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	**3050**	ug/L	10.0	20	09/21/13 12:29	09/26/13 01:17	7439-96-5	
Molybdenum, Dissolved	**7.9**	ug/L	0.50	1	09/21/13 12:29	09/26/13 01:12	7439-98-7	
Nickel, Dissolved	**2.1**	ug/L	0.50	1	09/21/13 12:29	09/26/13 01:12	7440-02-0	
Potassium, Dissolved	**4650**	ug/L	20.0	1	09/21/13 12:29	09/27/13 06:54	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	09/21/13 12:29	09/27/13 06:54	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/21/13 12:29	09/26/13 01:12	7440-22-4	
Sodium, Dissolved	**12500**	ug/L	50.0	1	09/21/13 12:29	09/26/13 01:12	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/21/13 12:29	09/26/13 01:12	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	09/21/13 12:29	09/26/13 01:12	7440-62-2	
Zinc, Dissolved	**195**	ug/L	5.0	1	09/21/13 12:29	09/26/13 01:12	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**1720**	ug/L	50.0	1	09/24/13 17:20	09/26/13 13:56	7429-90-5	
Antimony, Dissolved	**0.42J**	ug/L	1.0	1	09/24/13 17:20	09/26/13 13:56	7440-36-0	
Arsenic, Dissolved	**89.7**	ug/L	1.0	1	09/24/13 17:20	09/26/13 13:56	7440-38-2	
Barium, Dissolved	**33.4**	ug/L	1.0	1	09/24/13 17:20	09/26/13 13:56	7440-39-3	
Beryllium, Dissolved	**0.28J**	ug/L	0.50	1	09/24/13 17:20	09/26/13 13:56	7440-41-7	
Cadmium, Dissolved	**4.4**	ug/L	0.50	1	09/24/13 17:20	09/26/13 13:56	7440-43-9	
Chromium, Dissolved	**4.4**	ug/L	1.0	1	09/24/13 17:20	09/26/13 13:56	7440-47-3	
Cobalt, Dissolved	**3.3**	ug/L	1.0	1	09/24/13 17:20	09/26/13 13:56	7440-48-4	
Copper, Dissolved	**200**	ug/L	1.0	1	09/24/13 17:20	09/26/13 13:56	7440-50-8	
Iron, Dissolved	**33400**	ug/L	500	10	09/24/13 17:20	09/27/13 14:51	7439-89-6	
Lead, Dissolved	**1110**	ug/L	1.0	1	09/24/13 17:20	09/26/13 13:56	7439-92-1	
Manganese, Dissolved	**3120**	ug/L	1.0	1	09/24/13 17:20	09/26/13 13:56	7439-96-5	
Molybdenum, Dissolved	**5.7**	ug/L	1.0	1	09/24/13 17:20	09/26/13 13:56	7439-98-7	
Nickel, Dissolved	**4.8**	ug/L	1.0	1	09/24/13 17:20	09/26/13 13:56	7440-02-0	
Selenium, Dissolved	**2.8**	ug/L	1.0	1	09/24/13 17:20	09/26/13 13:56	7782-49-2	
Silver, Dissolved	**2.0**	ug/L	0.50	1	09/24/13 17:20	09/26/13 13:56	7440-22-4	
Thallium, Dissolved	**0.35J**	ug/L	1.0	1	09/24/13 17:20	09/26/13 13:56	7440-28-0	
Vanadium, Dissolved	**3.5**	ug/L	1.0	1	09/24/13 17:20	09/26/13 13:56	7440-62-2	
Zinc, Dissolved	**639**	ug/L	10.0	1	09/24/13 17:20	09/26/13 13:56	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/23/13 12:41	09/25/13 09:46	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/26/13 10:51	09/26/13 14:18	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/25/13 09:00	09/25/13 16:52	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**1430**	umhos/cm	10.0	1		09/20/13 15:40		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**914**	mg/L	6.4	1		09/23/13 11:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: September 2013 Rico Water
Pace Project No.: 60153115

Sample: P13-103_20130912 **Lab ID: 60153115007** Collected: 09/12/13 12:42 Received: 09/14/13 09:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.71**	PSU	0.014	1		09/23/13 11:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**81.5**	mg/L	20.0	1		09/24/13 11:13		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/24/13 11:13		
Alkalinity, Total as CaCO3	**81.5**	mg/L	20.0	1		09/24/13 11:13		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1220**	mg/L	5.0	1		09/19/13 13:51		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**912**	mg/L	5.0	1		09/19/13 10:28		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/18/13 11:57	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**2.2**	mg/L	1.0	1		09/26/13 22:31	16887-00-6	
Sulfate	**643**	mg/L	100	100		09/27/13 18:29	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/29/13 09:54		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/23/13 15:59	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**0.58**	mg/L	0.50	1		09/25/13 11:49	7440-44-0	

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ANALYTICAL RESULTS

Project: September 2013 Rico Water
Pace Project No.: 60153115

Sample: MW-1 DEEP_20130912 **Lab ID: 60153115008** Collected: 09/12/13 12:20 Received: 09/14/13 09:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**240000**	ug/L	100	1	09/24/13 17:20	09/25/13 17:11	7440-70-2	
Magnesium, Dissolved	**19900**	ug/L	50.0	1	09/24/13 17:20	09/25/13 17:11	7439-95-4	
Potassium, Dissolved	**5970**	ug/L	500	1	09/24/13 17:20	09/25/13 17:11	7440-09-7	
Sodium, Dissolved	**14500**	ug/L	500	1	09/24/13 17:20	09/25/13 17:11	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**2740**	ug/L	80.0	20	09/21/13 12:31	09/30/13 16:20	7429-90-5	
Antimony	ND	ug/L	0.50	1	09/21/13 12:31	09/30/13 11:21	7440-36-0	
Arsenic	**4.6**	ug/L	0.50	1	09/21/13 12:31	09/30/13 11:21	7440-38-2	
Barium	**54.1**	ug/L	0.30	1	09/21/13 12:31	09/30/13 11:21	7440-39-3	
Beryllium	ND	ug/L	0.20	1	09/21/13 12:31	09/30/13 11:21	7440-41-7	
Cadmium	**4.3**	ug/L	0.080	1	09/21/13 12:31	09/30/13 11:21	7440-43-9	
Calcium	**260000**	ug/L	400	20	09/21/13 12:31	09/30/13 16:20	7440-70-2	
Chromium	**3.6**	ug/L	0.50	1	09/21/13 12:31	09/30/13 11:21	7440-47-3	
Cobalt	**1.4**	ug/L	0.50	1	09/21/13 12:31	09/30/13 11:21	7440-48-4	
Copper	**39.3**	ug/L	0.50	1	09/21/13 12:31	09/30/13 11:21	7440-50-8	
Iron	**3840**	ug/L	50.0	1	09/21/13 12:31	09/30/13 11:21	7439-89-6	
Lead	**62.0**	ug/L	0.10	1	09/21/13 12:31	09/30/13 11:21	7439-92-1	
Magnesium	**21800**	ug/L	5.0	1	09/21/13 12:31	09/30/13 11:21	7439-95-4	
Manganese	**448**	ug/L	0.50	1	09/21/13 12:31	09/30/13 11:21	7439-96-5	
Molybdenum	**10**	ug/L	0.50	1	09/21/13 12:31	09/27/13 12:15	7439-98-7	
Nickel	**3.0**	ug/L	0.50	1	09/21/13 12:31	09/30/13 11:21	7440-02-0	
Potassium	**7110**	ug/L	20.0	1	09/21/13 12:31	09/30/13 11:21	7440-09-7	
Selenium	**11.0**	ug/L	0.50	1	09/21/13 12:31	09/30/13 11:21	7782-49-2	
Silica	**25700**	ug/L	1070	20	09/21/13 12:31	09/30/13 16:20	7631-86-9	
Silver	ND	ug/L	0.50	1	09/21/13 12:31	09/27/13 12:15	7440-22-4	
Sodium	**15700**	ug/L	50.0	1	09/21/13 12:31	09/30/13 11:21	7440-23-5	
Thallium	**0.19**	ug/L	0.10	1	09/21/13 12:31	09/30/13 11:21	7440-28-0	
Total Hardness by 2340B	**739000**	ug/L	1420	20	09/21/13 12:31	09/30/13 16:20		
Vanadium	**4.4**	ug/L	0.10	1	09/21/13 12:31	09/30/13 11:21	7440-62-2	
Zinc	**615**	ug/L	100	20	09/21/13 12:31	09/30/13 16:20	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**79.1**	ug/L	4.0	1	09/21/13 12:29	09/26/13 01:37	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/21/13 12:29	09/26/13 01:37	7440-36-0	
Arsenic, Dissolved	**0.87**	ug/L	0.50	1	09/21/13 12:29	09/26/13 01:37	7440-38-2	
Barium, Dissolved	**21.5**	ug/L	0.30	1	09/21/13 12:29	09/26/13 01:37	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	09/21/13 12:29	09/26/13 01:37	7440-41-7	
Cadmium, Dissolved	**2.1**	ug/L	0.080	1	09/21/13 12:29	09/26/13 01:37	7440-43-9	
Calcium, Dissolved	**254000**	ug/L	400	20	09/21/13 12:29	09/26/13 01:42	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	09/21/13 12:29	09/26/13 01:37	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	09/21/13 12:29	09/26/13 01:37	7440-48-4	
Copper, Dissolved	**3.6**	ug/L	0.50	1	09/21/13 12:29	09/26/13 01:37	7440-50-8	
Iron, Dissolved	**138**	ug/L	50.0	1	09/21/13 12:29	09/26/13 01:37	7439-89-6	
Lead, Dissolved	**2.2**	ug/L	0.10	1	09/21/13 12:29	09/26/13 01:37	7439-92-1	
Magnesium, Dissolved	**19800**	ug/L	5.0	1	09/21/13 12:29	09/26/13 01:37	7439-95-4	

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ANALYTICAL RESULTS

Project: September 2013 Rico Water
Pace Project No.: 60153115

Sample: MW-1 DEEP_20130912 **Lab ID: 60153115008** Collected: 09/12/13 12:20 Received: 09/14/13 09:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	**27.3**	ug/L	0.50	1	09/21/13 12:29	09/26/13 01:37	7439-96-5	
Molybdenum, Dissolved	**11.0**	ug/L	0.50	1	09/21/13 12:29	09/26/13 01:37	7439-98-7	
Nickel, Dissolved	**2.2**	ug/L	0.50	1	09/21/13 12:29	09/26/13 01:37	7440-02-0	
Potassium, Dissolved	**6020**	ug/L	20.0	1	09/21/13 12:29	09/27/13 07:14	7440-09-7	
Selenium, Dissolved	**10.4**	ug/L	0.50	1	09/21/13 12:29	09/27/13 07:14	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/21/13 12:29	09/26/13 01:37	7440-22-4	
Sodium, Dissolved	**15800**	ug/L	50.0	1	09/21/13 12:29	09/26/13 01:37	7440-23-5	
Thallium, Dissolved	**0.13**	ug/L	0.10	1	09/21/13 12:29	09/26/13 01:37	7440-28-0	
Vanadium, Dissolved	**0.24**	ug/L	0.10	1	09/21/13 12:29	09/26/13 01:37	7440-62-2	
Zinc, Dissolved	**307**	ug/L	5.0	1	09/21/13 12:29	09/26/13 01:37	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**1310**	ug/L	50.0	1	09/24/13 17:20	09/26/13 14:00	7429-90-5	
Antimony, Dissolved	**0.19J**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:00	7440-36-0	
Arsenic, Dissolved	**3.9**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:00	7440-38-2	
Barium, Dissolved	**39.8**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:00	7440-39-3	
Beryllium, Dissolved	**0.14J**	ug/L	0.50	1	09/24/13 17:20	09/26/13 14:00	7440-41-7	
Cadmium, Dissolved	**4.2**	ug/L	0.50	1	09/24/13 17:20	09/26/13 14:00	7440-43-9	
Chromium, Dissolved	**3.0**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:00	7440-47-3	
Cobalt, Dissolved	**1.2**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:00	7440-48-4	
Copper, Dissolved	**37.4**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:00	7440-50-8	
Iron, Dissolved	**2690**	ug/L	50.0	1	09/24/13 17:20	09/27/13 14:55	7439-89-6	
Lead, Dissolved	**59.0**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:00	7439-92-1	
Manganese, Dissolved	**455**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:00	7439-96-5	
Molybdenum, Dissolved	**8.4**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:00	7439-98-7	
Nickel, Dissolved	**1.9**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:00	7440-02-0	
Selenium, Dissolved	**11.5**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:00	7782-49-2	
Silver, Dissolved	**0.27J**	ug/L	0.50	1	09/24/13 17:20	09/26/13 14:00	7440-22-4	
Thallium, Dissolved	**0.16J**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:00	7440-28-0	
Vanadium, Dissolved	**2.6**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:00	7440-62-2	
Zinc, Dissolved	**537**	ug/L	10.0	1	09/24/13 17:20	09/26/13 14:00	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/23/13 12:41	09/25/13 09:49	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/26/13 10:51	09/26/13 14:21	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/25/13 09:00	09/25/13 16:54	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**1190**	umhos/cm	10.0	1		09/20/13 15:57		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**764**	mg/L	6.4	1		09/23/13 11:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: September 2013 Rico Water
Pace Project No.: 60153115

Sample: MW-1 DEEP_20130912 **Lab ID: 60153115008** Collected: 09/12/13 12:20 Received: 09/14/13 09:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.59**	PSU	0.014	1		09/23/13 11:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**98.7**	mg/L	20.0	1		09/24/13 11:18		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/24/13 11:18		
Alkalinity, Total as CaCO3	**98.7**	mg/L	20.0	1		09/24/13 11:18		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1030**	mg/L	5.0	1		09/19/13 13:51		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**96.0**	mg/L	5.0	1		09/19/13 10:28		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/18/13 11:59	18496-25-8	M1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	ND	mg/L	1.0	1		09/26/13 22:46	16887-00-6	
Sulfate	**492**	mg/L	100	100		09/27/13 18:44	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/29/13 09:54		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/23/13 16:00	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	0.50	1		09/25/13 12:08	7440-44-0	

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ANALYTICAL RESULTS

Project: September 2013 Rico Water
Pace Project No.: 60153115

Sample: MW-1 SHALLOW_20130912 **Lab ID: 60153115009** Collected: 09/12/13 12:15 Received: 09/14/13 09:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**221000**	ug/L	100	1	09/24/13 17:20	09/25/13 17:13	7440-70-2	
Magnesium, Dissolved	**19400**	ug/L	50.0	1	09/24/13 17:20	09/25/13 17:13	7439-95-4	
Potassium, Dissolved	**6710**	ug/L	500	1	09/24/13 17:20	09/25/13 17:13	7440-09-7	
Sodium, Dissolved	**13400**	ug/L	500	1	09/24/13 17:20	09/25/13 17:13	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**10700**	ug/L	4.0	1	09/21/13 12:31	09/27/13 12:24	7429-90-5	
Antimony	**0.58**	ug/L	0.50	1	09/21/13 12:31	09/30/13 11:26	7440-36-0	
Arsenic	**11.9**	ug/L	0.50	1	09/21/13 12:31	09/30/13 11:26	7440-38-2	
Barium	**166**	ug/L	0.30	1	09/21/13 12:31	09/30/13 11:26	7440-39-3	
Beryllium	**0.71**	ug/L	0.20	1	09/21/13 12:31	09/27/13 12:24	7440-41-7	
Cadmium	**1.1**	ug/L	0.080	1	09/21/13 12:31	09/30/13 11:26	7440-43-9	
Calcium	**244000**	ug/L	400	20	09/21/13 12:31	09/27/13 12:29	7440-70-2	
Chromium	**11.8**	ug/L	0.50	1	09/21/13 12:31	09/30/13 11:26	7440-47-3	
Cobalt	**5.7**	ug/L	0.50	1	09/21/13 12:31	09/30/13 11:26	7440-48-4	
Copper	**46.3**	ug/L	0.50	1	09/21/13 12:31	09/30/13 11:26	7440-50-8	
Iron	**15000**	ug/L	50.0	1	09/21/13 12:31	09/30/13 11:26	7439-89-6	
Lead	**122**	ug/L	0.10	1	09/21/13 12:31	09/30/13 11:26	7439-92-1	
Magnesium	**25900**	ug/L	100	20	09/21/13 12:31	09/27/13 12:29	7439-95-4	
Manganese	**700**	ug/L	10.0	20	09/21/13 12:31	09/27/13 12:29	7439-96-5	
Molybdenum	**12.8**	ug/L	0.50	1	09/21/13 12:31	09/27/13 12:24	7439-98-7	
Nickel	**10**	ug/L	0.50	1	09/21/13 12:31	09/30/13 11:26	7440-02-0	
Potassium	**9450**	ug/L	20.0	1	09/21/13 12:31	09/30/13 11:26	7440-09-7	
Selenium	**11.3**	ug/L	0.50	1	09/21/13 12:31	09/30/13 11:26	7782-49-2	
Silica	**52600**	ug/L	1070	20	09/21/13 12:31	09/27/13 12:29	7631-86-9	
Silver	ND	ug/L	0.50	1	09/21/13 12:31	09/27/13 12:24	7440-22-4	
Sodium	**14500**	ug/L	50.0	1	09/21/13 12:31	09/30/13 11:26	7440-23-5	
Thallium	**0.34**	ug/L	0.10	1	09/21/13 12:31	09/30/13 11:26	7440-28-0	
Total Hardness by 2340B	**716000**	ug/L	1420	20	09/21/13 12:31	09/27/13 12:29		
Vanadium	**15.8**	ug/L	0.10	1	09/21/13 12:31	09/30/13 11:26	7440-62-2	
Zinc	**189**	ug/L	5.0	1	09/21/13 12:31	09/30/13 11:26	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	ND	ug/L	4.0	1	09/21/13 12:29	09/26/13 01:47	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/21/13 12:29	09/26/13 01:47	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	09/21/13 12:29	09/26/13 01:47	7440-38-2	
Barium, Dissolved	**25.0**	ug/L	0.30	1	09/21/13 12:29	09/26/13 01:47	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	09/21/13 12:29	09/26/13 01:47	7440-41-7	
Cadmium, Dissolved	**0.31**	ug/L	0.080	1	09/21/13 12:29	09/26/13 01:47	7440-43-9	
Calcium, Dissolved	**240000**	ug/L	400	20	09/21/13 12:29	09/26/13 01:52	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	09/21/13 12:29	09/26/13 01:47	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	09/21/13 12:29	09/26/13 01:47	7440-48-4	
Copper, Dissolved	**0.96**	ug/L	0.50	1	09/21/13 12:29	09/26/13 01:47	7440-50-8	
Iron, Dissolved	ND	ug/L	50.0	1	09/21/13 12:29	09/26/13 01:47	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	09/21/13 12:29	09/26/13 01:47	7439-92-1	
Magnesium, Dissolved	**19600**	ug/L	5.0	1	09/21/13 12:29	09/26/13 01:47	7439-95-4	

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ANALYTICAL RESULTS

Project: September 2013 Rico Water
Pace Project No.: 60153115

Sample: MW-1 SHALLOW_20130912 **Lab ID: 60153115009** Collected: 09/12/13 12:15 Received: 09/14/13 09:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	**9.7**	ug/L	0.50	1	09/21/13 12:29	09/26/13 01:47	7439-96-5	
Molybdenum, Dissolved	**10.3**	ug/L	0.50	1	09/21/13 12:29	09/26/13 01:47	7439-98-7	
Nickel, Dissolved	**1.6**	ug/L	0.50	1	09/21/13 12:29	09/26/13 01:47	7440-02-0	
Potassium, Dissolved	**7010**	ug/L	20.0	1	09/21/13 12:29	09/27/13 07:19	7440-09-7	
Selenium, Dissolved	**9.0**	ug/L	0.50	1	09/21/13 12:29	09/27/13 07:19	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/21/13 12:29	09/26/13 01:47	7440-22-4	
Sodium, Dissolved	**16000**	ug/L	50.0	1	09/21/13 12:29	09/26/13 01:47	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/21/13 12:29	09/26/13 01:47	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	09/21/13 12:29	09/26/13 01:47	7440-62-2	
Zinc, Dissolved	**22.2**	ug/L	5.0	1	09/21/13 12:29	09/26/13 01:47	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**2900**	ug/L	50.0	1	09/24/13 17:20	09/26/13 14:04	7429-90-5	
Antimony, Dissolved	**0.16J**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:04	7440-36-0	
Arsenic, Dissolved	**2.5**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:04	7440-38-2	
Barium, Dissolved	**49.4**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:04	7440-39-3	
Beryllium, Dissolved	**0.45J**	ug/L	0.50	1	09/24/13 17:20	09/26/13 14:04	7440-41-7	
Cadmium, Dissolved	**0.86**	ug/L	0.50	1	09/24/13 17:20	09/26/13 14:04	7440-43-9	
Chromium, Dissolved	**6.8**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:04	7440-47-3	
Cobalt, Dissolved	**3.7**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:04	7440-48-4	
Copper, Dissolved	**26.2**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:04	7440-50-8	
Iron, Dissolved	**4770**	ug/L	50.0	1	09/24/13 17:20	09/27/13 14:59	7439-89-6	
Lead, Dissolved	**78.4**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:04	7439-92-1	
Manganese, Dissolved	**569**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:04	7439-96-5	
Molybdenum, Dissolved	**4.2**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:04	7439-98-7	
Nickel, Dissolved	**7.0**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:04	7440-02-0	
Selenium, Dissolved	**10.5**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:04	7782-49-2	
Silver, Dissolved	**0.72**	ug/L	0.50	1	09/24/13 17:20	09/26/13 14:04	7440-22-4	
Thallium, Dissolved	**0.14J**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:04	7440-28-0	
Vanadium, Dissolved	**4.7**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:04	7440-62-2	
Zinc, Dissolved	**122**	ug/L	10.0	1	09/24/13 17:20	09/26/13 14:04	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/23/13 12:41	09/25/13 09:51	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/26/13 10:51	09/26/13 14:23	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/25/13 09:00	09/25/13 16:56	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**1180**	umhos/cm	10.0	1		09/20/13 15:59		

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ANALYTICAL RESULTS

Project: September 2013 Rico Water
Pace Project No.: 60153115

Sample: MW-1 SHALLOW_20130912 **Lab ID: 60153115009** Collected: 09/12/13 12:15 Received: 09/14/13 09:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**757**	mg/L	6.4	1		09/24/13 15:00		
Salinity (as seawater)	**0.59**	PSU	0.014	1		09/24/13 15:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**92.8**	mg/L	20.0	1		09/24/13 11:22		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/24/13 11:22		
Alkalinity, Total as CaCO3	**92.8**	mg/L	20.0	1		09/24/13 11:22		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**978**	mg/L	5.0	1		09/19/13 13:51		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**311**	mg/L	5.0	1		09/19/13 10:28		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/18/13 12:00	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.0**	mg/L	1.0	1		09/26/13 23:01	16887-00-6	
Sulfate	**482**	mg/L	100	100		09/27/13 18:59	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/29/13 09:55		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/23/13 16:02	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**0.54**	mg/L	0.50	1		09/25/13 12:26	7440-44-0	

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ANALYTICAL RESULTS

Project: September 2013 Rico Water
Pace Project No.: 60153115

Sample: MW-2 DEEP_20130912 **Lab ID: 60153115010** Collected: 09/12/13 15:37 Received: 09/14/13 09:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**252000**	ug/L	100	1	09/24/13 17:20	09/25/13 17:15	7440-70-2	
Magnesium, Dissolved	**21500**	ug/L	50.0	1	09/24/13 17:20	09/25/13 17:15	7439-95-4	
Potassium, Dissolved	**2200**	ug/L	500	1	09/24/13 17:20	09/25/13 17:15	7440-09-7	
Sodium, Dissolved	**14200**	ug/L	500	1	09/24/13 17:20	09/25/13 17:15	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**96.5**	ug/L	4.0	1	09/21/13 12:31	09/30/13 11:31	7429-90-5	
Antimony	ND	ug/L	0.50	1	09/21/13 12:31	09/30/13 11:31	7440-36-0	
Arsenic	ND	ug/L	0.50	1	09/21/13 12:31	09/30/13 11:31	7440-38-2	
Barium	**23.3**	ug/L	0.30	1	09/21/13 12:31	09/30/13 11:31	7440-39-3	
Beryllium	ND	ug/L	0.20	1	09/21/13 12:31	09/27/13 12:34	7440-41-7	
Cadmium	**1.1**	ug/L	0.080	1	09/21/13 12:31	09/30/13 11:31	7440-43-9	
Calcium	**268000**	ug/L	400	20	09/21/13 12:31	09/27/13 12:39	7440-70-2	
Chromium	ND	ug/L	0.50	1	09/21/13 12:31	09/30/13 11:31	7440-47-3	
Cobalt	ND	ug/L	0.50	1	09/21/13 12:31	09/30/13 11:31	7440-48-4	
Copper	**0.94**	ug/L	0.50	1	09/21/13 12:31	09/30/13 11:31	7440-50-8	
Iron	**220**	ug/L	50.0	1	09/21/13 12:31	09/30/13 11:31	7439-89-6	
Lead	**4.4**	ug/L	0.10	1	09/21/13 12:31	09/30/13 11:31	7439-92-1	
Magnesium	**21900**	ug/L	5.0	1	09/21/13 12:31	09/27/13 12:34	7439-95-4	
Manganese	**18.5**	ug/L	0.50	1	09/21/13 12:31	09/30/13 11:31	7439-96-5	
Molybdenum	**8.0**	ug/L	0.50	1	09/21/13 12:31	09/27/13 12:34	7439-98-7	
Nickel	ND	ug/L	0.50	1	09/21/13 12:31	09/30/13 11:31	7440-02-0	
Potassium	**2440**	ug/L	20.0	1	09/21/13 12:31	09/30/13 11:31	7440-09-7	
Selenium	**1.5**	ug/L	0.50	1	09/21/13 12:31	09/30/13 11:31	7782-49-2	
Silica	**12300**	ug/L	1070	20	09/21/13 12:31	09/27/13 12:39	7631-86-9	
Silver	ND	ug/L	0.50	1	09/21/13 12:31	09/27/13 12:34	7440-22-4	
Sodium	**15000**	ug/L	50.0	1	09/21/13 12:31	09/30/13 11:31	7440-23-5	
Thallium	ND	ug/L	0.10	1	09/21/13 12:31	09/30/13 11:31	7440-28-0	
Total Hardness by 2340B	**760000**	ug/L	1420	20	09/21/13 12:31	09/27/13 12:39		
Vanadium	**0.25**	ug/L	0.10	1	09/21/13 12:31	09/30/13 11:31	7440-62-2	
Zinc	**24.9**	ug/L	5.0	1	09/21/13 12:31	09/30/13 11:31	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**4.1**	ug/L	4.0	1	09/21/13 12:29	09/26/13 01:56	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/21/13 12:29	09/26/13 01:56	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	09/21/13 12:29	09/26/13 01:56	7440-38-2	
Barium, Dissolved	**14.9**	ug/L	0.30	1	09/21/13 12:29	09/26/13 01:56	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	09/21/13 12:29	09/26/13 01:56	7440-41-7	
Cadmium, Dissolved	**0.90**	ug/L	0.080	1	09/21/13 12:29	09/26/13 01:56	7440-43-9	
Calcium, Dissolved	**261000**	ug/L	400	20	09/21/13 12:29	09/26/13 02:01	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	09/21/13 12:29	09/26/13 01:56	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	09/21/13 12:29	09/26/13 01:56	7440-48-4	
Copper, Dissolved	**0.59**	ug/L	0.50	1	09/21/13 12:29	09/26/13 01:56	7440-50-8	
Iron, Dissolved	ND	ug/L	50.0	1	09/21/13 12:29	09/26/13 01:56	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	09/21/13 12:29	09/26/13 01:56	7439-92-1	
Magnesium, Dissolved	**21200**	ug/L	5.0	1	09/21/13 12:29	09/26/13 01:56	7439-95-4	

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ANALYTICAL RESULTS

Project: September 2013 Rico Water
Pace Project No.: 60153115

Sample: MW-2 DEEP_20130912 **Lab ID: 60153115010** Collected: 09/12/13 15:37 Received: 09/14/13 09:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	ND	ug/L	0.50	1	09/21/13 12:29	09/26/13 01:56	7439-96-5	
Molybdenum, Dissolved	**8.4**	ug/L	0.50	1	09/21/13 12:29	09/26/13 01:56	7439-98-7	
Nickel, Dissolved	**0.73**	ug/L	0.50	1	09/21/13 12:29	09/26/13 01:56	7440-02-0	
Potassium, Dissolved	**2130**	ug/L	20.0	1	09/21/13 12:29	09/27/13 07:24	7440-09-7	
Selenium, Dissolved	**1.1**	ug/L	0.50	1	09/21/13 12:29	09/27/13 07:24	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/21/13 12:29	09/26/13 01:56	7440-22-4	
Sodium, Dissolved	**15100**	ug/L	50.0	1	09/21/13 12:29	09/26/13 01:56	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/21/13 12:29	09/26/13 01:56	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	09/21/13 12:29	09/26/13 01:56	7440-62-2	
Zinc, Dissolved	**17.9**	ug/L	5.0	1	09/21/13 12:29	09/26/13 01:56	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**55.3**	ug/L	50.0	1	09/24/13 17:20	09/26/13 14:08	7429-90-5	
Antimony, Dissolved	ND	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:08	7440-36-0	
Arsenic, Dissolved	**0.089J**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:08	7440-38-2	
Barium, Dissolved	**20.6**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:08	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.50	1	09/24/13 17:20	09/26/13 14:08	7440-41-7	
Cadmium, Dissolved	**1.0**	ug/L	0.50	1	09/24/13 17:20	09/26/13 14:08	7440-43-9	
Chromium, Dissolved	**0.43J**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:08	7440-47-3	
Cobalt, Dissolved	ND	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:08	7440-48-4	
Copper, Dissolved	**1.1**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:08	7440-50-8	
Iron, Dissolved	**179**	ug/L	50.0	1	09/24/13 17:20	09/27/13 15:04	7439-89-6	
Lead, Dissolved	**5.2**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:08	7439-92-1	
Manganese, Dissolved	**19.2**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:08	7439-96-5	
Molybdenum, Dissolved	**8.3**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:08	7439-98-7	
Nickel, Dissolved	ND	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:08	7440-02-0	
Selenium, Dissolved	**1.4**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:08	7782-49-2	
Silver, Dissolved	**0.035J**	ug/L	0.50	1	09/24/13 17:20	09/26/13 14:08	7440-22-4	
Thallium, Dissolved	**0.088J**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:08	7440-28-0	
Vanadium, Dissolved	ND	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:08	7440-62-2	
Zinc, Dissolved	**27.1**	ug/L	10.0	1	09/24/13 17:20	09/26/13 14:08	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/23/13 12:41	09/25/13 09:57	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/26/13 10:51	09/26/13 14:31	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/25/13 09:00	09/25/13 16:58	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**1410**	umhos/cm	10.0	1		09/20/13 16:01		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**901**	mg/L	6.4	1		09/24/13 15:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: September 2013 Rico Water
Pace Project No.: 60153115

Sample: MW-2 DEEP_20130912 **Lab ID: 60153115010** Collected: 09/12/13 15:37 Received: 09/14/13 09:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.70**	PSU	0.014	1		09/24/13 15:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**94.4**	mg/L	20.0	1		09/24/13 11:26		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/24/13 11:26		
Alkalinity, Total as CaCO3	**94.4**	mg/L	20.0	1		09/24/13 11:26		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1050**	mg/L	5.0	1		09/19/13 13:52		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	ND	mg/L	5.0	1		09/19/13 10:28		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/18/13 12:03	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	ND	mg/L	1.0	1		09/26/13 23:16	16887-00-6	
Sulfate	**521**	mg/L	100	100		09/27/13 19:15	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/29/13 09:56		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/23/13 16:03	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	0.50	1		09/25/13 12:44	7440-44-0	

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ANALYTICAL RESULTS

Project: September 2013 Rico Water
Pace Project No.: 60153115

Sample: MW-3 DEEP_20130912 **Lab ID: 60153115011** Collected: 09/12/13 16:00 Received: 09/14/13 09:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**240000**	ug/L	100	1	09/24/13 17:20	09/25/13 17:17	7440-70-2	
Magnesium, Dissolved	**21800**	ug/L	50.0	1	09/24/13 17:20	09/25/13 17:17	7439-95-4	
Potassium, Dissolved	**6660**	ug/L	500	1	09/24/13 17:20	09/25/13 17:17	7440-09-7	
Sodium, Dissolved	**15000**	ug/L	500	1	09/24/13 17:20	09/25/13 17:17	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**318**	ug/L	4.0	1	09/21/13 12:31	09/27/13 12:44	7429-90-5	
Antimony	ND	ug/L	0.50	1	09/21/13 12:31	09/27/13 12:44	7440-36-0	
Arsenic	**1.3**	ug/L	0.50	1	09/21/13 12:31	09/27/13 12:44	7440-38-2	
Barium	**39.6**	ug/L	0.30	1	09/21/13 12:31	09/27/13 12:44	7440-39-3	
Beryllium	ND	ug/L	0.20	1	09/21/13 12:31	09/27/13 12:44	7440-41-7	
Cadmium	**0.36**	ug/L	0.080	1	09/21/13 12:31	09/27/13 12:44	7440-43-9	
Calcium	**252000**	ug/L	400	20	09/21/13 12:31	09/27/13 12:48	7440-70-2	
Chromium	ND	ug/L	0.50	1	09/21/13 12:31	09/27/13 12:44	7440-47-3	
Cobalt	**0.92**	ug/L	0.50	1	09/21/13 12:31	09/27/13 12:44	7440-48-4	
Copper	**3.6**	ug/L	0.50	1	09/21/13 12:31	09/27/13 12:44	7440-50-8	
Iron	**2210**	ug/L	50.0	1	09/21/13 12:31	09/27/13 12:44	7439-89-6	
Lead	**6.3**	ug/L	0.10	1	09/21/13 12:31	09/27/13 12:44	7439-92-1	
Magnesium	**22300**	ug/L	5.0	1	09/21/13 12:31	09/27/13 12:44	7439-95-4	
Manganese	**1360**	ug/L	0.50	1	09/21/13 12:31	09/27/13 12:44	7439-96-5	
Molybdenum	**8.5**	ug/L	0.50	1	09/21/13 12:31	09/27/13 12:44	7439-98-7	
Nickel	**0.64**	ug/L	0.50	1	09/21/13 12:31	09/27/13 12:44	7440-02-0	
Potassium	**6780**	ug/L	20.0	1	09/21/13 12:31	09/27/13 12:44	7440-09-7	
Selenium	ND	ug/L	0.50	1	09/21/13 12:31	09/27/13 12:44	7782-49-2	
Silica	**15100**	ug/L	1070	20	09/21/13 12:31	09/27/13 12:48	7631-86-9	
Silver	ND	ug/L	0.50	1	09/21/13 12:31	09/27/13 12:44	7440-22-4	
Sodium	**15800**	ug/L	50.0	1	09/21/13 12:31	09/27/13 12:44	7440-23-5	
Thallium	ND	ug/L	0.10	1	09/21/13 12:31	09/27/13 12:44	7440-28-0	
Total Hardness by 2340B	**721000**	ug/L	1420	20	09/21/13 12:31	09/27/13 12:48		
Vanadium	**0.75**	ug/L	0.10	1	09/21/13 12:31	09/27/13 12:44	7440-62-2	
Zinc	**49.4**	ug/L	5.0	1	09/21/13 12:31	09/27/13 12:44	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**68.6**	ug/L	4.0	1	09/21/13 12:29	09/26/13 02:06	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/21/13 12:29	09/26/13 02:06	7440-36-0	
Arsenic, Dissolved	**1.3**	ug/L	0.50	1	09/21/13 12:29	09/26/13 02:06	7440-38-2	
Barium, Dissolved	**26.4**	ug/L	0.30	1	09/21/13 12:29	09/26/13 02:06	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	09/21/13 12:29	09/26/13 02:06	7440-41-7	
Cadmium, Dissolved	**0.099**	ug/L	0.080	1	09/21/13 12:29	09/26/13 02:06	7440-43-9	
Calcium, Dissolved	**249000**	ug/L	400	20	09/21/13 12:29	09/26/13 02:11	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	09/21/13 12:29	09/26/13 02:06	7440-47-3	
Cobalt, Dissolved	**0.91**	ug/L	0.50	1	09/21/13 12:29	09/26/13 02:06	7440-48-4	
Copper, Dissolved	**1.3**	ug/L	0.50	1	09/21/13 12:29	09/26/13 02:06	7440-50-8	
Iron, Dissolved	**1750**	ug/L	50.0	1	09/21/13 12:29	09/26/13 02:06	7439-89-6	
Lead, Dissolved	**1.5**	ug/L	0.10	1	09/21/13 12:29	09/26/13 02:06	7439-92-1	
Magnesium, Dissolved	**21700**	ug/L	5.0	1	09/21/13 12:29	09/26/13 02:06	7439-95-4	

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ANALYTICAL RESULTS

Project: September 2013 Rico Water
Pace Project No.: 60153115

Sample: MW-3 DEEP_20130912 **Lab ID: 60153115011** Collected: 09/12/13 16:00 Received: 09/14/13 09:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	**1330**	ug/L	10.0	20	09/21/13 12:29	09/26/13 02:11	7439-96-5	
Molybdenum, Dissolved	**8.9**	ug/L	0.50	1	09/21/13 12:29	09/26/13 02:06	7439-98-7	
Nickel, Dissolved	**0.77**	ug/L	0.50	1	09/21/13 12:29	09/26/13 02:06	7440-02-0	
Potassium, Dissolved	**7040**	ug/L	20.0	1	09/21/13 12:29	09/27/13 07:29	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	09/21/13 12:29	09/27/13 07:29	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/21/13 12:29	09/26/13 02:06	7440-22-4	
Sodium, Dissolved	**16300**	ug/L	50.0	1	09/21/13 12:29	09/26/13 02:06	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/21/13 12:29	09/26/13 02:06	7440-28-0	
Vanadium, Dissolved	**0.20**	ug/L	0.10	1	09/21/13 12:29	09/26/13 02:06	7440-62-2	
Zinc, Dissolved	**39.4**	ug/L	5.0	1	09/21/13 12:29	09/26/13 02:06	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**173**	ug/L	50.0	1	09/24/13 17:20	09/26/13 14:12	7429-90-5	
Antimony, Dissolved	ND	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:12	7440-36-0	
Arsenic, Dissolved	**1.3**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:12	7440-38-2	
Barium, Dissolved	**32.2**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:12	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.50	1	09/24/13 17:20	09/26/13 14:12	7440-41-7	
Cadmium, Dissolved	**0.32J**	ug/L	0.50	1	09/24/13 17:20	09/26/13 14:12	7440-43-9	
Chromium, Dissolved	**0.43J**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:12	7440-47-3	
Cobalt, Dissolved	**0.92J**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:12	7440-48-4	
Copper, Dissolved	**3.5**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:12	7440-50-8	
Iron, Dissolved	**2010**	ug/L	50.0	1	09/24/13 17:20	09/27/13 15:08	7439-89-6	
Lead, Dissolved	**6.3**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:12	7439-92-1	
Manganese, Dissolved	**1360**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:12	7439-96-5	
Molybdenum, Dissolved	**9.2**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:12	7439-98-7	
Nickel, Dissolved	**0.28J**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:12	7440-02-0	
Selenium, Dissolved	ND	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:12	7782-49-2	
Silver, Dissolved	**0.020J**	ug/L	0.50	1	09/24/13 17:20	09/26/13 14:12	7440-22-4	
Thallium, Dissolved	**0.10J**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:12	7440-28-0	
Vanadium, Dissolved	**0.15J**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:12	7440-62-2	
Zinc, Dissolved	**46.6**	ug/L	10.0	1	09/24/13 17:20	09/26/13 14:12	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/23/13 12:41	09/25/13 09:59	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/26/13 10:51	09/26/13 14:33	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/25/13 09:00	09/25/13 17:01	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**1470**	umhos/cm	10.0	1		09/20/13 16:03		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**940**	mg/L	6.4	1		09/24/13 15:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: September 2013 Rico Water
Pace Project No.: 60153115

Sample: MW-3 DEEP_20130912 **Lab ID: 60153115011** Collected: 09/12/13 16:00 Received: 09/14/13 09:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.74**	PSU	0.014	1		09/24/13 15:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**88.5**	mg/L	20.0	1		09/24/13 11:31		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/24/13 11:31		
Alkalinity, Total as CaCO3	**88.5**	mg/L	20.0	1		09/24/13 11:31		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1050**	mg/L	5.0	1		09/19/13 13:54		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**15.0**	mg/L	5.0	1		09/19/13 10:28		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/18/13 12:03	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	ND	mg/L	1.0	1		09/27/13 00:17	16887-00-6	
Sulfate	**519**	mg/L	100	100		09/27/13 19:30	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/29/13 09:57		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/23/13 16:04	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	0.50	1		09/25/13 13:02	7440-44-0	

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ANALYTICAL RESULTS

Project: September 2013 Rico Water
Pace Project No.: 60153115

Sample: MW-4 SHALLOW_20130912 **Lab ID: 60153115012** Collected: 09/12/13 11:40 Received: 09/14/13 09:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**285000**	ug/L	100	1	09/24/13 17:20	09/25/13 17:22	7440-70-2	
Magnesium, Dissolved	**31900**	ug/L	50.0	1	09/24/13 17:20	09/25/13 17:22	7439-95-4	
Potassium, Dissolved	**3820**	ug/L	500	1	09/24/13 17:20	09/25/13 17:22	7440-09-7	
Sodium, Dissolved	**7510**	ug/L	500	1	09/24/13 17:20	09/25/13 17:22	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**14700**	ug/L	4.0	1	09/21/13 12:31	09/27/13 12:53	7429-90-5	
Antimony	ND	ug/L	0.50	1	09/21/13 12:31	09/27/13 12:53	7440-36-0	
Arsenic	**11.0**	ug/L	0.50	1	09/21/13 12:31	09/27/13 12:53	7440-38-2	
Barium	**173**	ug/L	0.30	1	09/21/13 12:31	09/27/13 12:53	7440-39-3	
Beryllium	**1.2**	ug/L	0.20	1	09/21/13 12:31	09/27/13 12:53	7440-41-7	
Cadmium	**2.4**	ug/L	0.080	1	09/21/13 12:31	09/27/13 12:53	7440-43-9	
Calcium	**271000**	ug/L	400	20	09/21/13 12:31	09/26/13 23:17	7440-70-2	
Chromium	**17.9**	ug/L	0.50	1	09/21/13 12:31	09/27/13 12:53	7440-47-3	
Cobalt	**7.0**	ug/L	0.50	1	09/21/13 12:31	09/27/13 12:53	7440-48-4	
Copper	**89.8**	ug/L	0.50	1	09/21/13 12:31	09/27/13 12:53	7440-50-8	
Iron	**19000**	ug/L	50.0	1	09/21/13 12:31	09/27/13 12:53	7439-89-6	
Lead	**121**	ug/L	0.10	1	09/21/13 12:31	09/27/13 12:53	7439-92-1	
Magnesium	**36700**	ug/L	100	20	09/21/13 12:31	09/26/13 23:17	7439-95-4	
Manganese	**542**	ug/L	10.0	20	09/21/13 12:31	09/26/13 23:17	7439-96-5	
Molybdenum	**3.3**	ug/L	0.50	1	09/21/13 12:31	09/27/13 12:53	7439-98-7	
Nickel	**13.5**	ug/L	0.50	1	09/21/13 12:31	09/27/13 12:53	7440-02-0	
Potassium	**5810**	ug/L	20.0	1	09/21/13 12:31	09/27/13 12:53	7440-09-7	
Selenium	**28.7**	ug/L	0.50	1	09/21/13 12:31	09/30/13 11:36	7782-49-2	
Silica	**65000**	ug/L	1070	20	09/21/13 12:31	09/26/13 23:17	7631-86-9	
Silver	ND	ug/L	0.50	1	09/21/13 12:31	09/27/13 12:53	7440-22-4	
Sodium	**7330**	ug/L	50.0	1	09/21/13 12:31	09/27/13 12:53	7440-23-5	
Thallium	**0.30**	ug/L	0.10	1	09/21/13 12:31	09/27/13 12:53	7440-28-0	
Total Hardness by 2340B	**827000**	ug/L	1420	20	09/21/13 12:31	09/26/13 23:17		
Vanadium	**19.3**	ug/L	0.10	1	09/21/13 12:31	09/27/13 12:53	7440-62-2	
Zinc	**447**	ug/L	5.0	1	09/21/13 12:31	09/27/13 12:53	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**472**	ug/L	4.0	1	09/21/13 12:29	09/26/13 02:16	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/21/13 12:29	09/26/13 02:16	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	09/21/13 12:29	09/26/13 02:16	7440-38-2	
Barium, Dissolved	**56.5**	ug/L	0.30	1	09/21/13 12:29	09/26/13 02:16	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	09/21/13 12:29	09/26/13 02:16	7440-41-7	
Cadmium, Dissolved	**1.6**	ug/L	0.080	1	09/21/13 12:29	09/26/13 02:16	7440-43-9	
Calcium, Dissolved	**299000**	ug/L	400	20	09/21/13 12:29	09/26/13 02:20	7440-70-2	
Chromium, Dissolved	**0.78**	ug/L	0.50	1	09/21/13 12:29	09/26/13 02:16	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	09/21/13 12:29	09/26/13 02:16	7440-48-4	
Copper, Dissolved	**4.9**	ug/L	0.50	1	09/21/13 12:29	09/26/13 02:16	7440-50-8	
Iron, Dissolved	**526**	ug/L	50.0	1	09/21/13 12:29	09/26/13 02:16	7439-89-6	
Lead, Dissolved	**4.1**	ug/L	0.10	1	09/21/13 12:29	09/26/13 02:16	7439-92-1	
Magnesium, Dissolved	**31700**	ug/L	100	20	09/21/13 12:29	09/26/13 02:20	7439-95-4	

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ANALYTICAL RESULTS

Project: September 2013 Rico Water
Pace Project No.: 60153115

Sample: MW-4 SHALLOW_20130912 **Lab ID: 60153115012** Collected: 09/12/13 11:40 Received: 09/14/13 09:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	**66.9**	ug/L	0.50	1	09/21/13 12:29	09/26/13 02:16	7439-96-5	
Molybdenum, Dissolved	**1.7**	ug/L	0.50	1	09/21/13 12:29	09/26/13 02:16	7439-98-7	
Nickel, Dissolved	**3.1**	ug/L	0.50	1	09/21/13 12:29	09/26/13 02:16	7440-02-0	
Potassium, Dissolved	**3450**	ug/L	20.0	1	09/21/13 12:29	09/27/13 07:49	7440-09-7	
Selenium, Dissolved	**26.5**	ug/L	0.50	1	09/21/13 12:29	09/27/13 07:49	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/21/13 12:29	09/26/13 02:16	7440-22-4	
Sodium, Dissolved	**7300**	ug/L	50.0	1	09/21/13 12:29	09/26/13 02:16	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/21/13 12:29	09/26/13 02:16	7440-28-0	
Vanadium, Dissolved	**0.67**	ug/L	0.10	1	09/21/13 12:29	09/26/13 02:16	7440-62-2	
Zinc, Dissolved	**159**	ug/L	5.0	1	09/21/13 12:29	09/26/13 02:16	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**5880**	ug/L	50.0	1	09/24/13 17:20	09/26/13 14:16	7429-90-5	
Antimony, Dissolved	**0.057J**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:16	7440-36-0	
Arsenic, Dissolved	**4.3**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:16	7440-38-2	
Barium, Dissolved	**82.0**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:16	7440-39-3	
Beryllium, Dissolved	**0.98**	ug/L	0.50	1	09/24/13 17:20	09/26/13 14:16	7440-41-7	
Cadmium, Dissolved	**2.4**	ug/L	0.50	1	09/24/13 17:20	09/26/13 14:16	7440-43-9	
Chromium, Dissolved	**9.4**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:16	7440-47-3	
Cobalt, Dissolved	**4.7**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:16	7440-48-4	
Copper, Dissolved	**71.9**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:16	7440-50-8	
Iron, Dissolved	**8170**	ug/L	50.0	1	09/24/13 17:20	09/27/13 15:12	7439-89-6	
Lead, Dissolved	**127**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:16	7439-92-1	
Manganese, Dissolved	**448**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:16	7439-96-5	
Molybdenum, Dissolved	**0.86J**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:16	7439-98-7	
Nickel, Dissolved	**7.4**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:16	7440-02-0	
Selenium, Dissolved	**32.5**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:16	7782-49-2	
Silver, Dissolved	**0.77**	ug/L	0.50	1	09/24/13 17:20	09/26/13 14:16	7440-22-4	
Thallium, Dissolved	**0.13J**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:16	7440-28-0	
Vanadium, Dissolved	**7.3**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:16	7440-62-2	
Zinc, Dissolved	**377**	ug/L	10.0	1	09/24/13 17:20	09/26/13 14:16	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/23/13 12:41	09/25/13 10:01	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/26/13 10:51	09/26/13 14:36	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/25/13 09:00	09/25/13 17:03	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**1510**	umhos/cm	10.0	1		09/20/13 16:04		

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ANALYTICAL RESULTS

Project: September 2013 Rico Water
Pace Project No.: 60153115

Sample: MW-4 SHALLOW_20130912 **Lab ID: 60153115012** Collected: 09/12/13 11:40 Received: 09/14/13 09:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**965**	mg/L	6.4	1		09/24/13 15:00		
Salinity (as seawater)	**0.76**	PSU	0.014	1		09/24/13 15:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**376**	mg/L	20.0	1		09/24/13 11:45		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/24/13 11:45		
Alkalinity, Total as CaCO3	**376**	mg/L	20.0	1		09/24/13 11:45		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1060**	mg/L	5.0	1		09/19/13 13:54		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**535**	mg/L	5.0	1		09/19/13 10:29		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/18/13 12:04	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.3**	mg/L	1.0	1		09/27/13 00:32	16887-00-6	
Sulfate	**354**	mg/L	100	100		09/27/13 19:45	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/29/13 09:58		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/23/13 16:04	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**0.64**	mg/L	0.50	1		09/25/13 13:21	7440-44-0	

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ANALYTICAL RESULTS

Project: September 2013 Rico Water
Pace Project No.: 60153115

Sample: DR-10_20130912 **Lab ID: 60153115013** Collected: 09/12/13 15:20 Received: 09/14/13 09:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**300000**	ug/L	100	1	09/24/13 17:20	09/25/13 17:24	7440-70-2	
Magnesium, Dissolved	**30200**	ug/L	50.0	1	09/24/13 17:20	09/25/13 17:24	7439-95-4	
Potassium, Dissolved	**5440**	ug/L	500	1	09/24/13 17:20	09/25/13 17:24	7440-09-7	
Sodium, Dissolved	**15200**	ug/L	500	1	09/24/13 17:20	09/25/13 17:24	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**1310**	ug/L	4.0	1	09/21/13 12:31	09/26/13 23:22	7429-90-5	
Antimony	ND	ug/L	0.50	1	09/21/13 12:31	09/26/13 23:22	7440-36-0	
Arsenic	**7.0**	ug/L	0.50	1	09/21/13 12:31	09/26/13 23:22	7440-38-2	
Barium	**51.8**	ug/L	0.30	1	09/21/13 12:31	09/26/13 23:22	7440-39-3	
Beryllium	**0.61**	ug/L	0.20	1	09/21/13 12:31	09/26/13 23:22	7440-41-7	
Cadmium	**1.1**	ug/L	0.080	1	09/21/13 12:31	09/26/13 23:22	7440-43-9	
Calcium	**295000**	ug/L	400	20	09/21/13 12:31	09/26/13 23:26	7440-70-2	
Chromium	**1.9**	ug/L	0.50	1	09/21/13 12:31	09/26/13 23:22	7440-47-3	
Cobalt	**3.5**	ug/L	0.50	1	09/21/13 12:31	09/26/13 23:22	7440-48-4	
Copper	**5.4**	ug/L	0.50	1	09/21/13 12:31	09/26/13 23:22	7440-50-8	
Iron	**9530**	ug/L	50.0	1	09/21/13 12:31	09/26/13 23:22	7439-89-6	
Lead	**5.6**	ug/L	0.10	1	09/21/13 12:31	09/26/13 23:22	7439-92-1	
Magnesium	**32900**	ug/L	100	20	09/21/13 12:31	09/26/13 23:26	7439-95-4	
Manganese	**8090**	ug/L	10.0	20	09/21/13 12:31	09/26/13 23:26	7439-96-5	
Molybdenum	**9.6**	ug/L	0.50	1	09/21/13 12:31	09/26/13 23:22	7439-98-7	
Nickel	**2.8**	ug/L	0.50	1	09/21/13 12:31	09/26/13 23:22	7440-02-0	
Potassium	**5520**	ug/L	20.0	1	09/21/13 12:31	09/26/13 23:22	7440-09-7	
Selenium	ND	ug/L	0.50	1	09/21/13 12:31	09/26/13 23:22	7782-49-2	
Silica	**36100**	ug/L	1070	20	09/21/13 12:31	09/26/13 23:26	7631-86-9	
Silver	ND	ug/L	0.50	1	09/21/13 12:31	09/26/13 23:22	7440-22-4	
Sodium	**14900**	ug/L	50.0	1	09/21/13 12:31	09/26/13 23:22	7440-23-5	
Thallium	**0.16**	ug/L	0.10	1	09/21/13 12:31	09/26/13 23:22	7440-28-0	
Total Hardness by 2340B	**873000**	ug/L	1420	20	09/21/13 12:31	09/26/13 23:26		
Vanadium	**1.5**	ug/L	0.10	1	09/21/13 12:31	09/26/13 23:22	7440-62-2	
Zinc	**127**	ug/L	5.0	1	09/21/13 12:31	09/26/13 23:22	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**19.8**	ug/L	4.0	1	09/21/13 12:29	09/26/13 02:41	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/21/13 12:29	09/26/13 02:41	7440-36-0	
Arsenic, Dissolved	**3.0**	ug/L	0.50	1	09/21/13 12:29	09/26/13 02:41	7440-38-2	
Barium, Dissolved	**36.4**	ug/L	0.30	1	09/21/13 12:29	09/26/13 02:41	7440-39-3	
Beryllium, Dissolved	**0.37**	ug/L	0.20	1	09/21/13 12:29	09/26/13 02:41	7440-41-7	
Cadmium, Dissolved	**0.16**	ug/L	0.080	1	09/21/13 12:29	09/26/13 02:41	7440-43-9	
Calcium, Dissolved	**322000**	ug/L	400	20	09/21/13 12:29	09/26/13 02:46	7440-70-2	
Chromium, Dissolved	**0.58**	ug/L	0.50	1	09/21/13 12:29	09/26/13 02:41	7440-47-3	
Cobalt, Dissolved	**3.0**	ug/L	0.50	1	09/21/13 12:29	09/26/13 02:41	7440-48-4	
Copper, Dissolved	**0.50**	ug/L	0.50	1	09/21/13 12:29	09/26/13 02:41	7440-50-8	
Iron, Dissolved	**6350**	ug/L	50.0	1	09/21/13 12:29	09/26/13 02:41	7439-89-6	
Lead, Dissolved	**0.10**	ug/L	0.10	1	09/21/13 12:29	09/26/13 02:41	7439-92-1	
Magnesium, Dissolved	**32400**	ug/L	100	20	09/21/13 12:29	09/26/13 02:46	7439-95-4	

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ANALYTICAL RESULTS

Project: September 2013 Rico Water
Pace Project No.: 60153115

Sample: DR-10_20130912 **Lab ID: 60153115013** Collected: 09/12/13 15:20 Received: 09/14/13 09:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	**8210**	ug/L	10.0	20	09/21/13 12:29	09/26/13 02:46	7439-96-5	
Molybdenum, Dissolved	**10.2**	ug/L	0.50	1	09/21/13 12:29	09/26/13 02:41	7439-98-7	
Nickel, Dissolved	**2.1**	ug/L	0.50	1	09/21/13 12:29	09/26/13 02:41	7440-02-0	
Potassium, Dissolved	**5380**	ug/L	20.0	1	09/21/13 12:29	09/27/13 07:54	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	09/21/13 12:29	09/27/13 07:54	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/21/13 12:29	09/26/13 02:41	7440-22-4	
Sodium, Dissolved	**16900**	ug/L	50.0	1	09/21/13 12:29	09/26/13 02:41	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/21/13 12:29	09/26/13 02:41	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	09/21/13 12:29	09/26/13 02:41	7440-62-2	
Zinc, Dissolved	**89.1**	ug/L	5.0	1	09/21/13 12:29	09/26/13 02:41	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**625**	ug/L	50.0	1	09/24/13 17:20	09/26/13 14:32	7429-90-5	
Antimony, Dissolved	ND	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:32	7440-36-0	
Arsenic, Dissolved	**5.5**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:32	7440-38-2	
Barium, Dissolved	**43.2**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:32	7440-39-3	
Beryllium, Dissolved	**0.52**	ug/L	0.50	1	09/24/13 17:20	09/26/13 14:32	7440-41-7	
Cadmium, Dissolved	**1.1**	ug/L	0.50	1	09/24/13 17:20	09/26/13 14:32	7440-43-9	
Chromium, Dissolved	**1.8**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:32	7440-47-3	
Cobalt, Dissolved	**3.3**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:32	7440-48-4	
Copper, Dissolved	**4.7**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:32	7440-50-8	
Iron, Dissolved	**8360**	ug/L	50.0	1	09/24/13 17:20	09/27/13 15:24	7439-89-6	
Lead, Dissolved	**5.4**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:32	7439-92-1	
Manganese, Dissolved	**8340**	ug/L	5.0	5	09/24/13 17:20	09/26/13 14:36	7439-96-5	
Molybdenum, Dissolved	**8.4**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:32	7439-98-7	
Nickel, Dissolved	**2.1**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:32	7440-02-0	
Selenium, Dissolved	**0.18J**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:32	7782-49-2	
Silver, Dissolved	**0.034J**	ug/L	0.50	1	09/24/13 17:20	09/26/13 14:32	7440-22-4	
Thallium, Dissolved	**0.18J**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:32	7440-28-0	
Vanadium, Dissolved	**1.2**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:32	7440-62-2	
Zinc, Dissolved	**116**	ug/L	10.0	1	09/24/13 17:20	09/26/13 14:32	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/23/13 12:41	09/25/13 10:03	7439-97-6	M1
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/26/13 10:51	09/26/13 14:38	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/25/13 09:00	09/25/13 17:05	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**1580**	umhos/cm	10.0	1		09/20/13 16:05		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**1010**	mg/L	6.4	1		09/24/13 15:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: September 2013 Rico Water
Pace Project No.: 60153115

Sample: DR-10_20130912 **Lab ID: 60153115013** Collected: 09/12/13 15:20 Received: 09/14/13 09:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.79**	PSU	0.014	1		09/24/13 15:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**319**	mg/L	20.0	1		09/24/13 11:51		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/24/13 11:51		
Alkalinity, Total as CaCO3	**319**	mg/L	20.0	1		09/24/13 11:51		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**936**	mg/L	5.0	1		09/19/13 13:54		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**98.0**	mg/L	5.0	1		09/19/13 10:29		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/18/13 12:04	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.3**	mg/L	1.0	1		09/27/13 00:48	16887-00-6	
Sulfate	**504**	mg/L	100	100		09/27/13 20:00	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**0.60**	mg/L	0.10	1		09/29/13 09:59		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/23/13 16:07	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**0.76**	mg/L	0.50	1		09/25/13 14:07	7440-44-0	

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ANALYTICAL RESULTS

Project: September 2013 Rico Water
Pace Project No.: 60153115

Sample: GW-3_20130912 **Lab ID: 60153115014** Collected: 09/12/13 09:40 Received: 09/14/13 09:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**156000**	ug/L	100	1	09/24/13 17:20	09/25/13 17:26	7440-70-2	
Magnesium, Dissolved	**18700**	ug/L	50.0	1	09/24/13 17:20	09/25/13 17:26	7439-95-4	
Potassium, Dissolved	**3110**	ug/L	500	1	09/24/13 17:20	09/25/13 17:26	7440-09-7	
Sodium, Dissolved	**3180**	ug/L	500	1	09/24/13 17:20	09/25/13 17:26	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**6470**	ug/L	4.0	1	09/21/13 12:31	09/26/13 23:31	7429-90-5	M1
Antimony	ND	ug/L	0.50	1	09/21/13 12:31	09/26/13 23:31	7440-36-0	
Arsenic	**10.8**	ug/L	0.50	1	09/21/13 12:31	09/26/13 23:31	7440-38-2	
Barium	**201**	ug/L	0.30	1	09/21/13 12:31	09/26/13 23:31	7440-39-3	
Beryllium	**0.32**	ug/L	0.20	1	09/21/13 12:31	09/26/13 23:31	7440-41-7	
Cadmium	**2.0**	ug/L	0.080	1	09/21/13 12:31	09/26/13 23:31	7440-43-9	
Calcium	**152000**	ug/L	400	20	09/21/13 12:31	09/26/13 23:36	7440-70-2	M1
Chromium	**9.5**	ug/L	0.50	1	09/21/13 12:31	09/26/13 23:31	7440-47-3	
Cobalt	**5.6**	ug/L	0.50	1	09/21/13 12:31	09/26/13 23:31	7440-48-4	
Copper	**50.1**	ug/L	0.50	1	09/21/13 12:31	09/26/13 23:31	7440-50-8	
Iron	**11800**	ug/L	50.0	1	09/21/13 12:31	09/26/13 23:31	7439-89-6	M1
Lead	**99.4**	ug/L	0.10	1	09/21/13 12:31	09/26/13 23:31	7439-92-1	
Magnesium	**21000**	ug/L	5.0	1	09/21/13 12:31	09/26/13 23:31	7439-95-4	M1
Manganese	**1670**	ug/L	10.0	20	09/21/13 12:31	09/26/13 23:36	7439-96-5	
Molybdenum	**2.3**	ug/L	0.50	1	09/21/13 12:31	09/26/13 23:31	7439-98-7	
Nickel	**8.4**	ug/L	0.50	1	09/21/13 12:31	09/26/13 23:31	7440-02-0	
Potassium	**3940**	ug/L	20.0	1	09/21/13 12:31	09/26/13 23:31	7440-09-7	M1
Selenium	**6.1**	ug/L	0.50	1	09/21/13 12:31	09/26/13 23:31	7782-49-2	
Silica	**38600**	ug/L	1070	20	09/21/13 12:31	09/26/13 23:36	7631-86-9	
Silver	ND	ug/L	0.50	1	09/21/13 12:31	09/26/13 23:31	7440-22-4	
Sodium	**3340**	ug/L	50.0	1	09/21/13 12:31	09/26/13 23:31	7440-23-5	M1
Thallium	**0.20**	ug/L	0.10	1	09/21/13 12:31	09/26/13 23:31	7440-28-0	
Total Hardness by 2340B	**465000**	ug/L	1420	20	09/21/13 12:31	09/26/13 23:36		
Vanadium	**13.3**	ug/L	0.10	1	09/21/13 12:31	09/26/13 23:31	7440-62-2	
Zinc	**330**	ug/L	5.0	1	09/21/13 12:31	09/26/13 23:31	7440-66-6	M1
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**15.3**	ug/L	4.0	1	09/21/13 12:29	09/26/13 02:50	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/21/13 12:29	09/26/13 02:50	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	09/21/13 12:29	09/26/13 02:50	7440-38-2	
Barium, Dissolved	**32.6**	ug/L	0.30	1	09/21/13 12:29	09/26/13 02:50	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	09/21/13 12:29	09/26/13 02:50	7440-41-7	
Cadmium, Dissolved	**0.57**	ug/L	0.080	1	09/21/13 12:29	09/26/13 02:50	7440-43-9	
Calcium, Dissolved	**159000**	ug/L	400	20	09/21/13 12:29	09/26/13 02:55	7440-70-2	M1
Chromium, Dissolved	ND	ug/L	0.50	1	09/21/13 12:29	09/26/13 02:50	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	09/21/13 12:29	09/26/13 02:50	7440-48-4	
Copper, Dissolved	**1.9**	ug/L	0.50	1	09/21/13 12:29	09/26/13 02:50	7440-50-8	
Iron, Dissolved	ND	ug/L	50.0	1	09/21/13 12:29	09/26/13 02:50	7439-89-6	
Lead, Dissolved	**0.15**	ug/L	0.10	1	09/21/13 12:29	09/26/13 02:50	7439-92-1	
Magnesium, Dissolved	**17200**	ug/L	5.0	1	09/21/13 12:29	09/26/13 02:50	7439-95-4	M1

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ANALYTICAL RESULTS

Project: September 2013 Rico Water
Pace Project No.: 60153115

Sample: GW-3_20130912 **Lab ID: 60153115014** Collected: 09/12/13 09:40 Received: 09/14/13 09:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	**148**	ug/L	0.50	1	09/21/13 12:29	09/26/13 02:50	7439-96-5	
Molybdenum, Dissolved	**0.63**	ug/L	0.50	1	09/21/13 12:29	09/26/13 02:50	7439-98-7	
Nickel, Dissolved	**5.3**	ug/L	0.50	1	09/21/13 12:29	09/26/13 02:50	7440-02-0	
Potassium, Dissolved	**2820**	ug/L	20.0	1	09/21/13 12:29	09/27/13 07:59	7440-09-7	
Selenium, Dissolved	**4.7**	ug/L	0.50	1	09/21/13 12:29	09/27/13 07:59	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/21/13 12:29	09/26/13 02:50	7440-22-4	
Sodium, Dissolved	**3050**	ug/L	50.0	1	09/21/13 12:29	09/26/13 02:50	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/21/13 12:29	09/26/13 02:50	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	09/21/13 12:29	09/26/13 02:50	7440-62-2	
Zinc, Dissolved	**66.8**	ug/L	5.0	1	09/21/13 12:29	09/26/13 02:50	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**2510**	ug/L	50.0	1	09/24/13 17:20	09/26/13 14:40	7429-90-5	
Antimony, Dissolved	**0.15J**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:40	7440-36-0	
Arsenic, Dissolved	**4.6**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:40	7440-38-2	
Barium, Dissolved	**74.3**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:40	7440-39-3	
Beryllium, Dissolved	**0.22J**	ug/L	0.50	1	09/24/13 17:20	09/26/13 14:40	7440-41-7	
Cadmium, Dissolved	**1.8**	ug/L	0.50	1	09/24/13 17:20	09/26/13 14:40	7440-43-9	
Chromium, Dissolved	**4.5**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:40	7440-47-3	
Cobalt, Dissolved	**3.8**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:40	7440-48-4	
Copper, Dissolved	**35.2**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:40	7440-50-8	
Iron, Dissolved	**5330**	ug/L	50.0	1	09/24/13 17:20	09/27/13 15:28	7439-89-6	
Lead, Dissolved	**63.1**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:40	7439-92-1	
Manganese, Dissolved	**1270**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:40	7439-96-5	
Molybdenum, Dissolved	**0.48J**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:40	7439-98-7	
Nickel, Dissolved	**5.1**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:40	7440-02-0	
Selenium, Dissolved	**5.6**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:40	7782-49-2	
Silver, Dissolved	**0.44J**	ug/L	0.50	1	09/24/13 17:20	09/26/13 14:40	7440-22-4	
Thallium, Dissolved	**0.12J**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:40	7440-28-0	
Vanadium, Dissolved	**5.3**	ug/L	1.0	1	09/24/13 17:20	09/26/13 14:40	7440-62-2	
Zinc, Dissolved	**256**	ug/L	10.0	1	09/24/13 17:20	09/26/13 14:40	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/23/13 12:41	09/25/13 10:07	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/26/13 10:51	09/26/13 14:41	7439-97-6	M1
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/25/13 09:00	09/25/13 17:07	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**845**	umhos/cm	10.0	1		09/20/13 16:07		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**541**	mg/L	6.4	1		09/24/13 15:00		

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ANALYTICAL RESULTS

Project: September 2013 Rico Water
Pace Project No.: 60153115

Sample: GW-3_20130912 **Lab ID: 60153115014** Collected: 09/12/13 09:40 Received: 09/14/13 09:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.41**	PSU	0.014	1		09/24/13 15:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**203**	mg/L	20.0	1		09/24/13 11:56		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/24/13 11:56		
Alkalinity, Total as CaCO3	**203**	mg/L	20.0	1		09/24/13 11:56		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**3020**	mg/L	5.0	1		09/19/13 13:54		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**237**	mg/L	5.0	1		09/19/13 10:29		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/18/13 12:05	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.8**	mg/L	1.0	1		09/27/13 01:03	16887-00-6	
Sulfate	**199**	mg/L	50.0	50		09/27/13 20:16	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/29/13 10:00		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/23/13 16:08	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**0.96**	mg/L	0.50	1		09/25/13 14:25	7440-44-0	

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(913)599-5665

October 30, 2013

Mark DeFriez
Anderson Engineering Company I
977 W 2100 S.
Salt Lake City, UT 84119

RE: Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

Dear Mark DeFriez:
Enclosed are the analytical results for sample(s) received by the laboratory on September 28, 2013. The results relate only to the within this report conform to the most current version of the TNI standards, BP LaMP Technical Requirements Revision 10.1, and any applicable Quality Assurance Project Plan (QAPP), or Work Plan unless otherwise narrated in the body of this report.

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

Sincerely,

Heather M. Wilson

Heather Wilson

heather.wilson@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: Pace
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Hawaii Certification #Pace
Idaho Certification #: MN00064
Illinois Certification #: 200011
Kansas Certification #: E-10167
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Maryland Certification #: 322
Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT CERT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia/DCLS Certification #: 002521
Virginia/VELAP Certification #: 460163
Washington Certification #: C754
West Virginia Certification #: 382
Wisconsin Certification #: 999407970

Montana Certification IDs
602 South 25th Street, Billings, MT 59101
EPA Region 8 Certification #: 8TMS-Q
Idaho Certification #: MT00012
Montana Certification #: MT CERT0040
NVLAP Certification #: 101292-0
Minnesota Dept of Health Certification #: 030-999-442
Washington Department of Ecology #: C993

Green Bay Certification IDs
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 11888
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
US Dept of Agriculture #: S-76505
Wisconsin Certification #: 405132750

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: September 2013 Rico Water Samp
Pace Project No.: 60154287

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60154287001	**MW-4DEEP_20130927**	Water	09/27/13 09:46	09/28/13 09:25
60154287002	**MW-101_20130927**	Water	09/27/13 10:57	09/28/13 09:25
60154287003	**MW-102_20130927**	Water	09/27/13 10:29	09/28/13 09:25
60154287004	**MW-6 DEEP_20130927**	Water	09/27/13 10:09	09/28/13 09:25
60154287005	**CHV-101 S_20130926**	Water	09/26/13 16:15	09/28/13 09:25
60154287006	**AT-2_20130926**	Water	09/26/13 15:35	09/28/13 09:25
60154287007	**BAH-01_20130926**	Water	09/26/13 15:20	09/28/13 09:25
60154287008	**FB-FIELD_20130926**	Water	09/26/13 15:45	09/28/13 09:25
60154287009	**DR-6_20130927**	Water	09/27/13 11:21	09/28/13 09:25
60154287010	**DR-11_20130927**	Water	09/27/13 11:23	09/28/13 09:25
60154287011	**GW-7_20130927**	Water	09/27/13 10:01	09/28/13 09:25
60154287012	**MW-6 SHALLOW_20130927**	Water	09/27/13 10:06	09/28/13 09:25
60154287013	**GW-4_20130927**	Water	09/27/13 11:13	09/28/13 09:25

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SAMPLE ANALYTE COUNT

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60154287001	**MW-4DEEP_20130927**	EPA 200.7	TJT	4	PASI-K
		EPA 200.8	TT3	25	PASI-M
		EPA 200.8	TT3	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	
		SM 2320B	JMC	3	PASI-K
		SM 2540C	RAH	1	PASI-K
		SM 2540D	RAH	1	PASI-K
		SM 4500-S-2 D	OL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	TJJ	1	PASI-G
60154287002	**MW-101_20130927**	EPA 200.7	TJT	4	PASI-K
		EPA 200.8	TT3	25	PASI-M
		EPA 200.8	TT3	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	
		SM 2320B	JMC	3	PASI-K
		SM 2540C	RAH	1	PASI-K
		SM 2540D	RAH	1	PASI-K
		SM 4500-S-2 D	OL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	TJJ	1	PASI-G
60154287003	**MW-102_20130927**	EPA 200.7	TJT	4	PASI-K
		EPA 200.8	TT3	25	PASI-M
		EPA 200.8	TT3	23	PASI-M

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SAMPLE ANALYTE COUNT

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	
		SM 2320B	JMC	3	PASI-K
		SM 2540C	RAH	1	PASI-K
		SM 2540D	RAH	1	PASI-K
		SM 4500-S-2 D	OL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	TJJ	1	PASI-G
60154287004	**MW-6 DEEP_20130927**	EPA 200.7	TJT	4	PASI-K
		EPA 200.8	TT3	25	PASI-M
		EPA 200.8	TT3	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	
		SM 2320B	JMC	3	PASI-K
		SM 2540C	RAH	1	PASI-K
		SM 2540D	RAH	1	PASI-K
		SM 4500-S-2 D	OL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	TJJ	1	PASI-G
60154287005	**CHV-101 S_20130926**	EPA 200.7	TJT	4	PASI-K
		EPA 200.8	TT3	25	PASI-M
		EPA 200.8	TT3	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	WBS	1	PASI-M

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SAMPLE ANALYTE COUNT

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	
		SM 2320B	JMC	3	PASI-K
		SM 2540C	RAH	1	PASI-K
		SM 2540D	RAH	1	PASI-K
		SM 4500-S-2 D	OL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	TJJ	1	PASI-G
60154287006	**AT-2_20130926**	EPA 200.7	TJT	4	PASI-K
		EPA 200.8	TT3	25	PASI-M
		EPA 200.8	TT3	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	
		SM 2320B	JMC	3	PASI-K
		SM 2540C	RAH	1	PASI-K
		SM 2540D	RAH	1	PASI-K
		SM 4500-S-2 D	OL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	TJJ	1	PASI-G
60154287007	**BAH-01_20130926**	EPA 200.7	SMW, TJT	4	PASI-K
		EPA 200.8	TT3	25	PASI-M
		EPA 200.8	TT3	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	

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SAMPLE ANALYTE COUNT

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2320B	JMC	3	PASI-K
		SM 2540C	RAH	1	PASI-K
		SM 2540D	RAH	1	PASI-K
		SM 4500-S-2 D	OL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	TJJ	1	PASI-G
60154287008	**FB-FIELD_20130926**	EPA 200.7	TJT	4	PASI-K
		EPA 200.8	TT3	25	PASI-M
		EPA 200.8	TT3	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	
		SM 2320B	JMC	3	PASI-K
		SM 2540C	RAH	1	PASI-K
		SM 2540D	RAH	1	PASI-K
		SM 4500-S-2 D	OL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	TJJ	1	PASI-G
60154287009	**DR-6_20130927**	EPA 200.7	TJT	4	PASI-K
		EPA 200.8	TT3	25	PASI-M
		EPA 200.8	TT3	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	
		SM 2320B	JMC	3	PASI-K
		SM 2540C	RAH	1	PASI-K
		SM 2540D	RAH	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 4500-S-2 D	OL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	TJJ	1	PASI-G
60154287010	**DR-11_20130927**	EPA 200.7	TJT	4	PASI-K
		EPA 200.8	TT3	25	PASI-M
		EPA 200.8	TT3	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	
		SM 2320B	JMC	3	PASI-K
		SM 2540C	RAH	1	PASI-K
		SM 2540D	RAH	1	PASI-K
		SM 4500-S-2 D	OL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	TJJ	1	PASI-G
60154287011	**GW-7_20130927**	EPA 200.7	SMW, TJT	4	PASI-K
		EPA 200.8	TT3	25	PASI-M
		EPA 200.8	TT3	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	
		SM 2320B	JMC	3	PASI-K
		SM 2540C	RAH	1	PASI-K
		SM 2540D	RAH	1	PASI-K
		SM 4500-S-2 D	OL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	AJM	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	TJJ	1	PASI-G
60154287012	**MW-6 SHALLOW_20130927**	EPA 200.7	TJT	4	PASI-K
		EPA 200.8	TT3	25	PASI-M
		EPA 200.8	TT3	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	
		SM 2320B	JMC	3	PASI-K
		SM 2540C	RAH	1	PASI-K
		SM 2540D	RAH	1	PASI-K
		SM 4500-S-2 D	OL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	TJJ	1	PASI-G
60154287013	**GW-4_20130927**	EPA 200.7	TJT	4	PASI-K
		EPA 200.8	TT3	25	PASI-M
		EPA 200.8	TT3	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	
		SM 2320B	JMC	3	PASI-K
		SM 2540C	RAH	1	PASI-K
		SM 2540D	RAH	1	PASI-K
		SM 4500-S-2 D	OL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	TJJ	1	PASI-G

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PROJECT NARRATIVE

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

Method: **EPA 200.7**
Description: 200.7 Potentially Diss. Metals
Client: BP Anderson Engineering Company Inc.
Date: October 30, 2013

General Information:
13 samples were analyzed for EPA 200.7. 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 200.7 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.

QC Batch: MPRP/24575

B: Analyte was detected in the associated method blank.

- BLANK for HBN 310155 [MPRP/245 (Lab ID: 1266127)
  - Calcium, Dissolved
  - Magnesium, Dissolved

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: MPRP/24575

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60154287009,60154287013

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

- MS (Lab ID: 1266129)
  - Calcium, Dissolved
- MS (Lab ID: 1266131)
  - Calcium, Dissolved
- MSD (Lab ID: 1266130)
  - Calcium, Dissolved

Additional Comments:

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PROJECT NARRATIVE

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

Method: **EPA 200.7**
Description: 200.7 Potentially Diss. Metals
Client: BP Anderson Engineering Company Inc.
Date: October 30, 2013

Sample Comments:

All reported results confirmed for total vs dissolved metals (Ni)
- MW-4DEEP_20130927 (Lab ID: 60154287001)

All reported results confirmed for total vs dissolved metals (Ca & Mn)
- FB-FIELD_20130926 (Lab ID: 60154287008)

All reported results confirmed for total vs. dissolved metals (Ni)
- DR-6_20130927 (Lab ID: 60154287009)

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PROJECT NARRATIVE

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

Method: **EPA 200.8**
Description: 200.8 MET ICPMS
Client: BP Anderson Engineering Company Inc.
Date: October 30, 2013

General Information:
13 samples were analyzed for EPA 200.8. 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 200.8 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.

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: MPRP/42412

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60154287001,60154287011

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

- MS (Lab ID: 1543834)
  - Aluminum
  - Calcium
  - Sodium
- MS (Lab ID: 1543836)
  - Aluminum
  - Antimony
  - Barium
  - Calcium
  - Iron
  - Lead
  - Manganese
  - Nickel
  - Potassium

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PROJECT NARRATIVE

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

Method: **EPA 200.8**
Description: 200.8 MET ICPMS
Client: BP Anderson Engineering Company Inc.
Date: October 30, 2013

QC Batch: MPRP/42412

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60154287001,60154287011

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

- Sodium
- Vanadium
- Zinc

- MSD (Lab ID: 1543835)
  - Aluminum
  - Iron
  - Sodium

Additional Comments:

Sample Comments:

All reported results confirmed for total vs dissolved metals (Ni)
- MW-4DEEP_20130927 (Lab ID: 60154287001)

All reported results confirmed for total vs dissolved metals (Ca & Mn)
- FB-FIELD_20130926 (Lab ID: 60154287008)

All reported results confirmed for total vs. dissolved metals (Ni)
- DR-6_20130927 (Lab ID: 60154287009)

Analyte Comments:

QC Batch: MPRP/42412

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- AT-2_20130926 (Lab ID: 60154287006)
  - Thallium
- BAH-01_20130926 (Lab ID: 60154287007)
  - Antimony
- GW-4_20130927 (Lab ID: 60154287013)
  - Thallium

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MS (Lab ID: 1543834)
  - Calcium
- MS (Lab ID: 1543836)
  - Aluminum
  - Barium
  - Calcium
  - Iron
  - Manganese
  - Lead
  - Zinc
- MSD (Lab ID: 1543835)
  - Calcium

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PROJECT NARRATIVE

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

Method: **EPA 200.8**
Description: 200.8 MET ICPMS, Dissolved
Client: BP Anderson Engineering Company Inc.
Date: October 30, 2013

General Information:
13 samples were analyzed for EPA 200.8. 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 200.8 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.

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:

Sample Comments:

All reported results confirmed for total vs dissolved metals (Ni)
- MW-4DEEP_20130927 (Lab ID: 60154287001)

All reported results confirmed for total vs dissolved metals (Ca & Mn)
- FB-FIELD_20130926 (Lab ID: 60154287008)

All reported results confirmed for total vs. dissolved metals (Ni)
- DR-6_20130927 (Lab ID: 60154287009)

Analyte Comments:

QC Batch: MPRP/42413

E: Analyte concentration exceeded the calibration range. The reported result is estimated.
- MS (Lab ID: 1543841)
  - Calcium, Dissolved
  - Manganese, Dissolved

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PROJECT NARRATIVE

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

Method: **EPA 200.8**
Description: 200.8 MET ICPMS, Dissolved
Client: BP Anderson Engineering Company Inc.
Date: October 30, 2013

Analyte Comments:

QC Batch: MPRP/42413

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MS (Lab ID: 1551360)
  - Calcium, Dissolved
- MSD (Lab ID: 1551361)
  - Calcium, Dissolved

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PROJECT NARRATIVE

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

Method: **EPA 200.8**
Description: 200.8 Potentially Diss. Metals
Client: BP Anderson Engineering Company Inc.
Date: October 30, 2013

General Information:
13 samples were analyzed for EPA 200.8. 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 200.8 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.

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

QC Batch: MPRP/24576

B: Analyte was detected in the associated method blank.

- BLANK for HBN 310156 [MPRP/245 (Lab ID: 1266132)
  - Antimony, Dissolved
  - Barium, Dissolved
  - Cadmium, Dissolved
  - Chromium, Dissolved
  - Cobalt, Dissolved
  - Copper, Dissolved
  - Nickel, Dissolved
  - Vanadium, Dissolved
  - Zinc, Dissolved

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: MPRP/24576

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60154287010,60154287012

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

- MS (Lab ID: 1266134)

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PROJECT NARRATIVE

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

Method: **EPA 200.8**
Description: 200.8 Potentially Diss. Metals
Client: BP Anderson Engineering Company Inc.
Date: October 30, 2013

QC Batch: MPRP/24576

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60154287010,60154287012

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

- Manganese, Dissolved
- MS (Lab ID: 1266136)
  - Manganese, Dissolved

Additional Comments:

Sample Comments:

All reported results confirmed for total vs dissolved metals (Ni)
- MW-4DEEP_20130927 (Lab ID: 60154287001)

All reported results confirmed for total vs dissolved metals (Ca & Mn)
- FB-FIELD_20130926 (Lab ID: 60154287008)

All reported results confirmed for total vs. dissolved metals (Ni)
- DR-6_20130927 (Lab ID: 60154287009)

Analyte Comments:

QC Batch: MPRP/24576

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
- BAH-01_20130926 (Lab ID: 60154287007)
  - Vanadium, Dissolved

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PROJECT NARRATIVE

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

Method: **EPA 245.1**
Description: 245.1 Mercury
Client: BP Anderson Engineering Company Inc.
Date: October 30, 2013

General Information:
13 samples were analyzed for EPA 245.1. 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 245.1 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: MERP/9443

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60154287002,60154287013

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

- MS (Lab ID: 1542981)
  - Mercury

Additional Comments:

Sample Comments:

All reported results confirmed for total vs dissolved metals (Ni)
- MW-4DEEP_20130927 (Lab ID: 60154287001)

All reported results confirmed for total vs dissolved metals (Ca & Mn)
- FB-FIELD_20130926 (Lab ID: 60154287008)

All reported results confirmed for total vs. dissolved metals (Ni)
- DR-6_20130927 (Lab ID: 60154287009)

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PROJECT NARRATIVE

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

Method: **EPA 245.1**
Description: 245.1 Mercury, Dissolved
Client: BP Anderson Engineering Company Inc.
Date: October 30, 2013

General Information:
13 samples were analyzed for EPA 245.1. 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 245.1 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:

Sample Comments:

All reported results confirmed for total vs dissolved metals (Ni)
- MW-4DEEP_20130927 (Lab ID: 60154287001)

All reported results confirmed for total vs dissolved metals (Ca & Mn)
- FB-FIELD_20130926 (Lab ID: 60154287008)

All reported results confirmed for total vs. dissolved metals (Ni)
- DR-6_20130927 (Lab ID: 60154287009)

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PROJECT NARRATIVE

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

Method: **EPA 245.1**
Description: 245.1 Potentially Diss Mercury
Client: BP Anderson Engineering Company Inc.
Date: October 30, 2013

General Information:
13 samples were analyzed for EPA 245.1. 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 245.1 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.

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

Additional Comments:

Sample Comments:

All reported results confirmed for total vs dissolved metals (Ni)
- MW-4DEEP_20130927 (Lab ID: 60154287001)

All reported results confirmed for total vs dissolved metals (Ca & Mn)
- FB-FIELD_20130926 (Lab ID: 60154287008)

All reported results confirmed for total vs. dissolved metals (Ni)
- DR-6_20130927 (Lab ID: 60154287009)

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PROJECT NARRATIVE

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

Method: **SM 2510B**
Description: 2510B Specific Conductance
Client: BP Anderson Engineering Company Inc.
Date: October 30, 2013

General Information:
13 samples were analyzed for SM 2510B. 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.

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

Additional Comments:

Sample Comments:

All reported results confirmed for total vs dissolved metals (Ni)
- MW-4DEEP_20130927 (Lab ID: 60154287001)

All reported results confirmed for total vs dissolved metals (Ca & Mn)
- FB-FIELD_20130926 (Lab ID: 60154287008)

All reported results confirmed for total vs. dissolved metals (Ni)
- DR-6_20130927 (Lab ID: 60154287009)

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PROJECT NARRATIVE

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

Method: **Calculated**
Description: Salinity
Client: BP Anderson Engineering Company Inc.
Date: October 30, 2013

General Information:
13 samples were analyzed for Calculated. 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.

Additional Comments:

Sample Comments:

All reported results confirmed for total vs dissolved metals (Ni)
- MW-4DEEP_20130927 (Lab ID: 60154287001)

All reported results confirmed for total vs dissolved metals (Ca & Mn)
- FB-FIELD_20130926 (Lab ID: 60154287008)

All reported results confirmed for total vs. dissolved metals (Ni)
- DR-6_20130927 (Lab ID: 60154287009)

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PROJECT NARRATIVE

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

Method: **SM 2320B**
Description: 2320B Alkalinity
Client: BP Anderson Engineering Company Inc.
Date: October 30, 2013

General Information:
13 samples were analyzed for SM 2320B. 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:

Sample Comments:

All reported results confirmed for total vs dissolved metals (Ni)
- MW-4DEEP_20130927 (Lab ID: 60154287001)

All reported results confirmed for total vs dissolved metals (Ca & Mn)
- FB-FIELD_20130926 (Lab ID: 60154287008)

All reported results confirmed for total vs. dissolved metals (Ni)
- DR-6_20130927 (Lab ID: 60154287009)

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PROJECT NARRATIVE

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: BP Anderson Engineering Company Inc.
Date: October 30, 2013

General Information:
13 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:

Sample Comments:

All reported results confirmed for total vs dissolved metals (Ni)
- MW-4DEEP_20130927 (Lab ID: 60154287001)

All reported results confirmed for total vs dissolved metals (Ca & Mn)
- FB-FIELD_20130926 (Lab ID: 60154287008)

All reported results confirmed for total vs. dissolved metals (Ni)
- DR-6_20130927 (Lab ID: 60154287009)

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PROJECT NARRATIVE

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

Method: **SM 2540D**
Description: 2540D Total Suspended Solids
Client: BP Anderson Engineering Company Inc.
Date: October 30, 2013

General Information:
13 samples were analyzed for SM 2540D. 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:

Sample Comments:

All reported results confirmed for total vs dissolved metals (Ni)
- MW-4DEEP_20130927 (Lab ID: 60154287001)

All reported results confirmed for total vs dissolved metals (Ca & Mn)
- FB-FIELD_20130926 (Lab ID: 60154287008)

All reported results confirmed for total vs. dissolved metals (Ni)
- DR-6_20130927 (Lab ID: 60154287009)

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PROJECT NARRATIVE

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

Method: **SM 4500-S-2 D**
Description: 4500S2D Sulfide, Total
Client: BP Anderson Engineering Company Inc.
Date: October 30, 2013

General Information:
13 samples were analyzed for SM 4500-S-2 D. 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.

QC Batch: WET/43785

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60154109002

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

- MS (Lab ID: 1264860)
  - Sulfide, Total

QC Batch: WET/43801

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60154244003

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

- MS (Lab ID: 1265624)
  - Sulfide, Total

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

Additional Comments:

Sample Comments:

All reported results confirmed for total vs dissolved metals (Ni)
- MW-4DEEP_20130927 (Lab ID: 60154287001)

All reported results confirmed for total vs dissolved metals (Ca & Mn)
- FB-FIELD_20130926 (Lab ID: 60154287008)

All reported results confirmed for total vs. dissolved metals (Ni)
- DR-6_20130927 (Lab ID: 60154287009)

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PROJECT NARRATIVE

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: BP Anderson Engineering Company Inc.
Date: October 30, 2013

General Information:
13 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.

QC Batch: WETA/26570

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60154287001,60154287002

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

- MS (Lab ID: 1268418)
  - Sulfate

QC Batch: WETA/26612

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60154218002

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

- MS (Lab ID: 1269781)
  - Sulfate
- MSD (Lab ID: 1269782)
  - Sulfate

Additional Comments:

Sample Comments:

All reported results confirmed for total vs dissolved metals (Ni)
- MW-4DEEP_20130927 (Lab ID: 60154287001)

All reported results confirmed for total vs dissolved metals (Ca & Mn)
- FB-FIELD_20130926 (Lab ID: 60154287008)

All reported results confirmed for total vs. dissolved metals (Ni)
- DR-6_20130927 (Lab ID: 60154287009)

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PROJECT NARRATIVE

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

Method: **EPA 353.2**
Description: 353.2 Nitrogen, NO2/NO3 pres.
Client: BP Anderson Engineering Company Inc.
Date: October 30, 2013

General Information:
13 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.

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

Additional Comments:

Sample Comments:

All reported results confirmed for total vs dissolved metals (Ni)
- MW-4DEEP_20130927 (Lab ID: 60154287001)

All reported results confirmed for total vs dissolved metals (Ca & Mn)
- FB-FIELD_20130926 (Lab ID: 60154287008)

All reported results confirmed for total vs. dissolved metals (Ni)
- DR-6_20130927 (Lab ID: 60154287009)

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PROJECT NARRATIVE

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

Method: **SM 4500-CN-E**
Description: 4500CNE Cyanide, Total
Client: BP Anderson Engineering Company Inc.
Date: October 30, 2013

General Information:
13 samples were analyzed for SM 4500-CN-E. 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.

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

Additional Comments:

Sample Comments:

All reported results confirmed for total vs dissolved metals (Ni)
- MW-4DEEP_20130927 (Lab ID: 60154287001)

All reported results confirmed for total vs dissolved metals (Ca & Mn)
- FB-FIELD_20130926 (Lab ID: 60154287008)

All reported results confirmed for total vs. dissolved metals (Ni)
- DR-6_20130927 (Lab ID: 60154287009)

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PROJECT NARRATIVE

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

Method: **SM 5310C**
Description: 5310C TOC
Client: BP Anderson Engineering Company Inc.
Date: October 30, 2013

General Information:
13 samples were analyzed for SM 5310C. 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:

Sample Comments:

All reported results confirmed for total vs dissolved metals (Ni)
- MW-4DEEP_20130927 (Lab ID: 60154287001)

All reported results confirmed for total vs dissolved metals (Ca & Mn)
- FB-FIELD_20130926 (Lab ID: 60154287008)

All reported results confirmed for total vs. dissolved metals (Ni)
- DR-6_20130927 (Lab ID: 60154287009)

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

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ANALYTICAL RESULTS

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

Sample: MW-4DEEP_20130927 **Lab ID: 60154287001** Collected: 09/27/13 09:46 Received: 09/28/13 09:25 Matrix: Water

Comments: • All reported results confirmed for total vs dissolved metals (Ni)

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7	Preparation Method: EPA 200.7						
Calcium, Dissolved	**218000**	ug/L	100	1	10/04/13 15:35	10/07/13 17:12	7440-70-2	
Magnesium, Dissolved	**23900**	ug/L	50.0	1	10/04/13 15:35	10/07/13 17:12	7439-95-4	
Potassium, Dissolved	**4200**	ug/L	500	1	10/04/13 15:35	10/07/13 17:12	7440-09-7	
Sodium, Dissolved	**10000**	ug/L	500	1	10/04/13 15:35	10/07/13 17:12	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8	Preparation Method: EPA 200.8						
Aluminum	**1280**	ug/L	4.0	1	10/11/13 08:50	10/17/13 17:30	7429-90-5	M1
Antimony	ND	ug/L	0.50	1	10/11/13 08:50	10/17/13 17:30	7440-36-0	
Arsenic	**2.4**	ug/L	0.50	1	10/11/13 08:50	10/17/13 17:30	7440-38-2	
Barium	**82.9**	ug/L	0.30	1	10/11/13 08:50	10/17/13 17:30	7440-39-3	
Beryllium	ND	ug/L	0.20	1	10/11/13 08:50	10/17/13 17:30	7440-41-7	
Cadmium	**2.2**	ug/L	0.080	1	10/11/13 08:50	10/17/13 17:30	7440-43-9	
Calcium	**221000**	ug/L	400	20	10/11/13 08:50	10/17/13 17:40	7440-70-2	M1
Chromium	**1.5**	ug/L	0.50	1	10/11/13 08:50	10/17/13 17:30	7440-47-3	
Cobalt	**1.9**	ug/L	0.50	1	10/11/13 08:50	10/17/13 17:30	7440-48-4	
Copper	**16.5**	ug/L	0.50	1	10/11/13 08:50	10/17/13 17:30	7440-50-8	
Iron	**2270**	ug/L	50.0	1	10/11/13 08:50	10/17/13 17:30	7439-89-6	M1
Lead	**15.5**	ug/L	0.10	1	10/11/13 08:50	10/17/13 17:30	7439-92-1	
Magnesium	**24700**	ug/L	25.0	5	10/11/13 08:50	10/17/13 17:35	7439-95-4	
Manganese	**325**	ug/L	0.50	1	10/11/13 08:50	10/17/13 17:30	7439-96-5	
Molybdenum	**2.5**	ug/L	0.50	1	10/11/13 08:50	10/17/13 17:30	7439-98-7	
Nickel	**2.7**	ug/L	0.50	1	10/11/13 08:50	10/17/13 17:30	7440-02-0	
Potassium	**4320**	ug/L	20.0	1	10/11/13 08:50	10/17/13 17:30	7440-09-7	
Selenium	**6.6**	ug/L	0.50	1	10/11/13 08:50	10/17/13 17:30	7782-49-2	
Silica	**13600**	ug/L	268	5	10/11/13 08:50	10/17/13 17:35	7631-86-9	
Silver	ND	ug/L	0.50	1	10/11/13 08:50	10/17/13 17:30	7440-22-4	
Sodium	**10900**	ug/L	50.0	1	10/11/13 08:50	10/17/13 17:30	7440-23-5	M1
Thallium	ND	ug/L	0.10	1	10/11/13 08:50	10/17/13 17:30	7440-28-0	
Total Hardness by 2340B	**653000**	ug/L	1420	20	10/11/13 08:50	10/17/13 17:40		
Vanadium	**2.6**	ug/L	0.10	1	10/11/13 08:50	10/17/13 17:30	7440-62-2	
Zinc	**267**	ug/L	5.0	1	10/11/13 08:50	10/17/13 17:30	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8	Preparation Method: EPA 200.8						
Aluminum, Dissolved	**15.2**	ug/L	4.0	1	10/13/13 11:52	10/22/13 08:31	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	10/13/13 11:52	10/22/13 08:31	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	10/13/13 11:52	10/22/13 08:31	7440-38-2	
Barium, Dissolved	**18.7**	ug/L	0.30	1	10/13/13 11:52	10/22/13 08:31	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	10/13/13 11:52	10/22/13 08:31	7440-41-7	
Cadmium, Dissolved	**1.8**	ug/L	0.080	1	10/13/13 11:52	10/22/13 08:31	7440-43-9	
Calcium, Dissolved	**243000**	ug/L	1000	50	10/13/13 11:52	10/22/13 08:36	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	10/13/13 11:52	10/22/13 08:31	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	10/13/13 11:52	10/22/13 08:31	7440-48-4	
Copper, Dissolved	**2.2**	ug/L	0.50	1	10/13/13 11:52	10/22/13 08:31	7440-50-8	
Iron, Dissolved	ND	ug/L	50.0	1	10/13/13 11:52	10/22/13 08:31	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	10/13/13 11:52	10/22/13 08:31	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

Sample: MW-4DEEP_20130927 **Lab ID: 60154287001** Collected: 09/27/13 09:46 Received: 09/28/13 09:25 Matrix: Water

Comments: • All reported results confirmed for total vs dissolved metals (Ni)

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8	Preparation Method: EPA 200.8						
Magnesium, Dissolved	**26000**	ug/L	250	50	10/13/13 11:52	10/22/13 08:36	7439-95-4	
Manganese, Dissolved	**3.0**	ug/L	0.50	1	10/13/13 11:52	10/22/13 08:31	7439-96-5	
Molybdenum, Dissolved	**1.5**	ug/L	0.50	1	10/13/13 11:52	10/22/13 08:31	7439-98-7	
Nickel, Dissolved	**5.2**	ug/L	0.50	1	10/13/13 11:52	10/22/13 08:31	7440-02-0	
Potassium, Dissolved	**4150**	ug/L	20.0	1	10/13/13 11:52	10/22/13 08:31	7440-09-7	
Selenium, Dissolved	**6.6**	ug/L	0.50	1	10/13/13 11:52	10/22/13 08:31	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	10/13/13 11:52	10/22/13 08:31	7440-22-4	
Sodium, Dissolved	**10800**	ug/L	50.0	1	10/13/13 11:52	10/22/13 08:31	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	10/13/13 11:52	10/22/13 08:31	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	10/13/13 11:52	10/22/13 08:31	7440-62-2	
Zinc, Dissolved	**222**	ug/L	5.0	1	10/13/13 11:52	10/22/13 08:31	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8	Preparation Method: EPA 200.8						
Aluminum, Dissolved	**539**	ug/L	50.0	1	10/04/13 15:35	10/14/13 11:35	7429-90-5	
Antimony, Dissolved	**0.37J**	ug/L	1.0	1	10/04/13 15:35	10/10/13 21:16	7440-36-0	B
Arsenic, Dissolved	**1.6**	ug/L	1.0	1	10/04/13 15:35	10/10/13 21:16	7440-38-2	
Barium, Dissolved	**38.3**	ug/L	1.0	1	10/04/13 15:35	10/10/13 21:16	7440-39-3	
Beryllium, Dissolved	**0.12J**	ug/L	0.50	1	10/04/13 15:35	10/14/13 11:35	7440-41-7	
Cadmium, Dissolved	**2.2**	ug/L	0.50	1	10/04/13 15:35	10/10/13 21:16	7440-43-9	
Chromium, Dissolved	**1.2**	ug/L	1.0	1	10/04/13 15:35	10/10/13 21:16	7440-47-3	B
Cobalt, Dissolved	**1.3**	ug/L	1.0	1	10/04/13 15:35	10/10/13 21:16	7440-48-4	B
Copper, Dissolved	**13.8**	ug/L	1.0	1	10/04/13 15:35	10/10/13 21:16	7440-50-8	
Iron, Dissolved	**1320**	ug/L	50.0	1	10/04/13 15:35	10/10/13 21:16	7439-89-6	
Lead, Dissolved	**12.6**	ug/L	1.0	1	10/04/13 15:35	10/10/13 21:16	7439-92-1	
Manganese, Dissolved	**158**	ug/L	1.0	1	10/04/13 15:35	10/14/13 11:35	7439-96-5	
Molybdenum, Dissolved	**0.99J**	ug/L	1.0	1	10/04/13 15:35	10/14/13 11:35	7439-98-7	
Nickel, Dissolved	**0.74J**	ug/L	1.0	1	10/04/13 15:35	10/10/13 21:16	7440-02-0	B
Selenium, Dissolved	**6.2**	ug/L	1.0	1	10/04/13 15:35	10/10/13 21:16	7782-49-2	
Silver, Dissolved	**0.19J**	ug/L	0.50	1	10/04/13 15:35	10/10/13 21:16	7440-22-4	
Thallium, Dissolved	**0.075J**	ug/L	1.0	1	10/04/13 15:35	10/10/13 21:16	7440-28-0	
Vanadium, Dissolved	**1.5**	ug/L	1.0	1	10/04/13 15:35	10/10/13 21:16	7440-62-2	B
Zinc, Dissolved	**241**	ug/L	10.0	1	10/04/13 15:35	10/10/13 21:16	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1	Preparation Method: EPA 245.1						
Mercury	ND	ug/L	0.20	1	10/11/13 12:03	10/14/13 13:53	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1	Preparation Method: EPA 245.1						
Mercury, Dissolved	ND	ug/L	0.20	1	10/11/13 15:54	10/14/13 14:45	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1	Preparation Method: EPA 245.1						
Mercury, Dissolved	ND	ug/L	0.20	1	10/08/13 16:00	10/08/13 10:01	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**1180**	umhos/cm	10.0	1		10/08/13 10:32		

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ANALYTICAL RESULTS

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

Sample: MW-4DEEP_20130927 **Lab ID: 60154287001** Collected: 09/27/13 09:46 Received: 09/28/13 09:25 Matrix: Water

Comments: • All reported results confirmed for total vs dissolved metals (Ni)

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**757**	mg/L	6.4	1		10/09/13 12:00		
Salinity (as seawater)	**0.59**	PSU	0.014	1		10/09/13 12:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**82.6**	mg/L	20.0	1		10/04/13 10:36		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		10/04/13 10:36		
Alkalinity, Total as CaCO3	**82.6**	mg/L	20.0	1		10/04/13 10:36		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1330**	mg/L	5.0	1		10/03/13 11:13		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**25.0**	mg/L	5.0	1		10/04/13 10:51		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		10/04/13 14:45	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.0**	mg/L	1.0	1		10/11/13 09:32	16887-00-6	
Sulfate	**586**	mg/L	50.0	50		10/12/13 04:32	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		10/07/13 15:27		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		10/02/13 16:00	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	0.50	1		10/10/13 17:05	7440-44-0	

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ANALYTICAL RESULTS

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

Sample: MW-101_20130927 **Lab ID: 60154287002** Collected: 09/27/13 10:57 Received: 09/28/13 09:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**324000**	ug/L	100	1	10/04/13 15:35	10/07/13 17:14	7440-70-2	
Magnesium, Dissolved	**36900**	ug/L	50.0	1	10/04/13 15:35	10/07/13 17:14	7439-95-4	
Potassium, Dissolved	**4360**	ug/L	500	1	10/04/13 15:35	10/07/13 17:14	7440-09-7	
Sodium, Dissolved	**9390**	ug/L	500	1	10/04/13 15:35	10/07/13 17:14	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**9950**	ug/L	4.0	1	10/11/13 08:50	10/17/13 17:57	7429-90-5	
Antimony	ND	ug/L	0.50	1	10/11/13 08:50	10/17/13 17:57	7440-36-0	
Arsenic	**11.3**	ug/L	0.50	1	10/11/13 08:50	10/17/13 17:57	7440-38-2	
Barium	**155**	ug/L	0.30	1	10/11/13 08:50	10/17/13 17:57	7440-39-3	
Beryllium	**1.3**	ug/L	0.20	1	10/11/13 08:50	10/17/13 17:57	7440-41-7	
Cadmium	**7.4**	ug/L	0.080	1	10/11/13 08:50	10/17/13 17:57	7440-43-9	
Calcium	**331000**	ug/L	400	20	10/11/13 08:50	10/17/13 18:02	7440-70-2	
Chromium	**16.2**	ug/L	0.50	1	10/11/13 08:50	10/17/13 17:57	7440-47-3	
Cobalt	**8.1**	ug/L	0.50	1	10/11/13 08:50	10/17/13 17:57	7440-48-4	
Copper	**101**	ug/L	0.50	1	10/11/13 08:50	10/17/13 17:57	7440-50-8	
Iron	**30700**	ug/L	1000	20	10/11/13 08:50	10/17/13 18:02	7439-89-6	
Lead	**1080**	ug/L	2.0	20	10/11/13 08:50	10/17/13 18:02	7439-92-1	
Magnesium	**42000**	ug/L	100	20	10/11/13 08:50	10/17/13 18:02	7439-95-4	
Manganese	**1280**	ug/L	10.0	20	10/11/13 08:50	10/17/13 18:02	7439-96-5	
Molybdenum	**5.5**	ug/L	0.50	1	10/11/13 08:50	10/17/13 17:57	7439-98-7	
Nickel	**15.4**	ug/L	0.50	1	10/11/13 08:50	10/17/13 17:57	7440-02-0	
Potassium	**5590**	ug/L	20.0	1	10/11/13 08:50	10/17/13 17:57	7440-09-7	
Selenium	**4.4**	ug/L	0.50	1	10/11/13 08:50	10/17/13 17:57	7782-49-2	
Silica	**48200**	ug/L	1070	20	10/11/13 08:50	10/17/13 18:02	7631-86-9	
Silver	**4.0**	ug/L	0.50	1	10/11/13 08:50	10/17/13 17:57	7440-22-4	
Sodium	**10400**	ug/L	50.0	1	10/11/13 08:50	10/17/13 17:57	7440-23-5	
Thallium	**0.49**	ug/L	0.10	1	10/11/13 08:50	10/17/13 17:57	7440-28-0	
Total Hardness by 2340B	**1000000**	ug/L	1420	20	10/11/13 08:50	10/17/13 18:02		
Vanadium	**17.2**	ug/L	0.10	1	10/11/13 08:50	10/17/13 17:57	7440-62-2	
Zinc	**1090**	ug/L	100	20	10/11/13 08:50	10/17/13 18:02	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**148**	ug/L	4.0	1	10/13/13 11:52	10/22/13 08:41	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	10/13/13 11:52	10/22/13 08:41	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	10/13/13 11:52	10/22/13 08:41	7440-38-2	
Barium, Dissolved	**26.8**	ug/L	0.30	1	10/13/13 11:52	10/22/13 08:41	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	10/13/13 11:52	10/22/13 08:41	7440-41-7	
Cadmium, Dissolved	**1.2**	ug/L	0.080	1	10/13/13 11:52	10/22/13 08:41	7440-43-9	
Calcium, Dissolved	**346000**	ug/L	1000	50	10/13/13 11:52	10/22/13 09:07	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	10/13/13 11:52	10/22/13 08:41	7440-47-3	
Cobalt, Dissolved	**2.3**	ug/L	0.50	1	10/13/13 11:52	10/22/13 08:41	7440-48-4	
Copper, Dissolved	**1.3**	ug/L	0.50	1	10/13/13 11:52	10/22/13 08:41	7440-50-8	
Iron, Dissolved	**1510**	ug/L	50.0	1	10/13/13 11:52	10/22/13 08:41	7439-89-6	
Lead, Dissolved	**9.9**	ug/L	0.10	1	10/13/13 11:52	10/22/13 08:41	7439-92-1	
Magnesium, Dissolved	**37100**	ug/L	250	50	10/13/13 11:52	10/22/13 09:07	7439-95-4	

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ANALYTICAL RESULTS

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

Sample: MW-101_20130927 **Lab ID: 60154287002** Collected: 09/27/13 10:57 Received: 09/28/13 09:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	**599**	ug/L	25.0	50	10/13/13 11:52	10/22/13 09:07	7439-96-5	
Molybdenum, Dissolved	**1.7**	ug/L	0.50	1	10/13/13 11:52	10/22/13 08:41	7439-98-7	
Nickel, Dissolved	**5.9**	ug/L	0.50	1	10/13/13 11:52	10/22/13 08:41	7440-02-0	
Potassium, Dissolved	**3860**	ug/L	20.0	1	10/13/13 11:52	10/22/13 08:41	7440-09-7	
Selenium, Dissolved	**2.6**	ug/L	0.50	1	10/13/13 11:52	10/22/13 08:41	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	10/13/13 11:52	10/22/13 08:41	7440-22-4	
Sodium, Dissolved	**9720**	ug/L	50.0	1	10/13/13 11:52	10/22/13 08:41	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	10/13/13 11:52	10/22/13 08:41	7440-28-0	
Vanadium, Dissolved	**0.16**	ug/L	0.10	1	10/13/13 11:52	10/22/13 08:41	7440-62-2	
Zinc, Dissolved	**340**	ug/L	5.0	1	10/13/13 11:52	10/22/13 08:41	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**2620**	ug/L	50.0	1	10/04/13 15:35	10/14/13 11:39	7429-90-5	
Antimony, Dissolved	**0.40J**	ug/L	1.0	1	10/04/13 15:35	10/10/13 21:20	7440-36-0	B
Arsenic, Dissolved	**3.2**	ug/L	1.0	1	10/04/13 15:35	10/10/13 21:20	7440-38-2	
Barium, Dissolved	**39.5**	ug/L	1.0	1	10/04/13 15:35	10/10/13 21:20	7440-39-3	
Beryllium, Dissolved	**0.85**	ug/L	0.50	1	10/04/13 15:35	10/14/13 11:39	7440-41-7	
Cadmium, Dissolved	**6.6**	ug/L	0.50	1	10/04/13 15:35	10/10/13 21:20	7440-43-9	
Chromium, Dissolved	**6.5**	ug/L	1.0	1	10/04/13 15:35	10/10/13 21:20	7440-47-3	
Cobalt, Dissolved	**5.5**	ug/L	1.0	1	10/04/13 15:35	10/10/13 21:20	7440-48-4	
Copper, Dissolved	**70.4**	ug/L	1.0	1	10/04/13 15:35	10/10/13 21:20	7440-50-8	
Iron, Dissolved	**12700**	ug/L	50.0	1	10/04/13 15:35	10/10/13 21:20	7439-89-6	
Lead, Dissolved	**830**	ug/L	1.0	1	10/04/13 15:35	10/10/13 21:20	7439-92-1	
Manganese, Dissolved	**1020**	ug/L	1.0	1	10/04/13 15:35	10/14/13 11:39	7439-96-5	
Molybdenum, Dissolved	**0.62J**	ug/L	1.0	1	10/04/13 15:35	10/14/13 11:39	7439-98-7	
Nickel, Dissolved	**8.1**	ug/L	1.0	1	10/04/13 15:35	10/10/13 21:20	7440-02-0	
Selenium, Dissolved	**3.7**	ug/L	1.0	1	10/04/13 15:35	10/10/13 21:20	7782-49-2	
Silver, Dissolved	**0.10J**	ug/L	0.50	1	10/04/13 15:35	10/10/13 21:20	7440-22-4	
Thallium, Dissolved	**0.26J**	ug/L	1.0	1	10/04/13 15:35	10/10/13 21:20	7440-28-0	
Vanadium, Dissolved	**6.2**	ug/L	1.0	1	10/04/13 15:35	10/10/13 21:20	7440-62-2	
Zinc, Dissolved	**778**	ug/L	10.0	1	10/04/13 15:35	10/10/13 21:20	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	10/11/13 12:03	10/14/13 13:55	7439-97-6	M1
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	10/11/13 15:54	10/14/13 14:47	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	10/08/13 16:00	10/08/13 10:04	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**1550**	umhos/cm	10.0	1		10/08/13 10:33		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**993**	mg/L	6.4	1		10/09/13 12:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

Sample: MW-101_20130927 **Lab ID: 60154287002** Collected: 09/27/13 10:57 Received: 09/28/13 09:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.78**	PSU	0.014	1		10/09/13 12:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**348**	mg/L	20.0	1		10/04/13 10:41		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		10/04/13 10:41		
Alkalinity, Total as CaCO3	**348**	mg/L	20.0	1		10/04/13 10:41		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1280**	mg/L	5.0	1		10/03/13 11:13		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**425**	mg/L	5.0	1		10/04/13 10:52		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		10/04/13 14:47	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.6**	mg/L	1.0	1		10/11/13 11:35	16887-00-6	
Sulfate	**784**	mg/L	50.0	50		10/11/13 12:06	14808-79-8	M1
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**0.28**	mg/L	0.10	1		10/07/13 16:51		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		10/02/13 16:05	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**0.56**	mg/L	0.50	1		10/10/13 18:01	7440-44-0	

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ANALYTICAL RESULTS

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

Sample: MW-102_20130927 **Lab ID: 60154287003** Collected: 09/27/13 10:29 Received: 09/28/13 09:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**248000**	ug/L	100	1	10/04/13 15:35	10/07/13 17:16	7440-70-2	
Magnesium, Dissolved	**28000**	ug/L	50.0	1	10/04/13 15:35	10/07/13 17:16	7439-95-4	
Potassium, Dissolved	**3600**	ug/L	500	1	10/04/13 15:35	10/07/13 17:16	7440-09-7	
Sodium, Dissolved	**6240**	ug/L	500	1	10/04/13 15:35	10/07/13 17:16	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**174000**	ug/L	80.0	20	10/11/13 08:50	10/17/13 18:13	7429-90-5	
Antimony	**0.88**	ug/L	0.50	1	10/11/13 08:50	10/17/13 18:07	7440-36-0	
Arsenic	**136**	ug/L	0.50	1	10/11/13 08:50	10/17/13 18:07	7440-38-2	
Barium	**1250**	ug/L	6.0	20	10/11/13 08:50	10/17/13 18:13	7440-39-3	
Beryllium	**23.6**	ug/L	4.0	20	10/11/13 08:50	10/17/13 18:13	7440-41-7	
Cadmium	**37.4**	ug/L	0.080	1	10/11/13 08:50	10/17/13 18:07	7440-43-9	
Calcium	**297000**	ug/L	400	20	10/11/13 08:50	10/17/13 18:13	7440-70-2	
Chromium	**203**	ug/L	0.50	1	10/11/13 08:50	10/17/13 18:07	7440-47-3	
Cobalt	**351**	ug/L	0.50	1	10/11/13 08:50	10/17/13 18:07	7440-48-4	
Copper	**976**	ug/L	10.0	20	10/11/13 08:50	10/17/13 18:13	7440-50-8	
Iron	**300000**	ug/L	1000	20	10/11/13 08:50	10/17/13 18:13	7439-89-6	
Lead	**1680**	ug/L	2.0	20	10/11/13 08:50	10/17/13 18:13	7439-92-1	
Magnesium	**156000**	ug/L	100	20	10/11/13 08:50	10/17/13 18:13	7439-95-4	
Manganese	**43500**	ug/L	100	200	10/11/13 08:50	10/21/13 09:05	7439-96-5	
Molybdenum	**42.7**	ug/L	0.50	1	10/11/13 08:50	10/17/13 18:07	7439-98-7	
Nickel	**269**	ug/L	0.50	1	10/11/13 08:50	10/17/13 18:07	7440-02-0	
Potassium	**13000**	ug/L	20.0	1	10/11/13 08:50	10/17/13 18:07	7440-09-7	
Selenium	**11.9**	ug/L	0.50	1	10/11/13 08:50	10/17/13 18:07	7782-49-2	
Silica	**240000**	ug/L	10700	200	10/11/13 08:50	10/21/13 09:05	7631-86-9	
Silver	**5.3**	ug/L	0.50	1	10/11/13 08:50	10/17/13 18:07	7440-22-4	
Sodium	**7240**	ug/L	50.0	1	10/11/13 08:50	10/17/13 18:07	7440-23-5	
Thallium	**2.9**	ug/L	2.0	20	10/11/13 08:50	10/17/13 18:13	7440-28-0	
Total Hardness by 2340B	**1380000**	ug/L	1420	20	10/11/13 08:50	10/17/13 18:13		
Vanadium	**222**	ug/L	0.10	1	10/11/13 08:50	10/17/13 18:07	7440-62-2	
Zinc	**9270**	ug/L	1000	200	10/11/13 08:50	10/21/13 09:05	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**400**	ug/L	4.0	1	10/13/13 11:52	10/22/13 08:46	7429-90-5	M6
Antimony, Dissolved	ND	ug/L	0.50	1	10/13/13 11:52	10/22/13 08:46	7440-36-0	
Arsenic, Dissolved	**0.57**	ug/L	0.50	1	10/13/13 11:52	10/22/13 08:46	7440-38-2	
Barium, Dissolved	**19.2**	ug/L	0.30	1	10/13/13 11:52	10/22/13 08:46	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	10/13/13 11:52	10/22/13 08:46	7440-41-7	
Cadmium, Dissolved	**0.33**	ug/L	0.080	1	10/13/13 11:52	10/22/13 08:46	7440-43-9	
Calcium, Dissolved	**250000**	ug/L	1000	50	10/13/13 11:52	10/22/13 09:12	7440-70-2	M6
Chromium, Dissolved	**1.2**	ug/L	0.50	1	10/13/13 11:52	10/22/13 08:46	7440-47-3	
Cobalt, Dissolved	**0.80**	ug/L	0.50	1	10/13/13 11:52	10/22/13 08:46	7440-48-4	
Copper, Dissolved	**2.5**	ug/L	0.50	1	10/13/13 11:52	10/22/13 08:46	7440-50-8	
Iron, Dissolved	**542**	ug/L	50.0	1	10/13/13 11:52	10/22/13 08:46	7439-89-6	
Lead, Dissolved	**3.0**	ug/L	0.10	1	10/13/13 11:52	10/22/13 08:46	7439-92-1	
Magnesium, Dissolved	**24000**	ug/L	25.0	5	10/13/13 11:52	10/22/13 08:51	7439-95-4	M6

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ANALYTICAL RESULTS

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

Sample: MW-102_20130927 **Lab ID: 60154287003** Collected: 09/27/13 10:29 Received: 09/28/13 09:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	**72.5**	ug/L	0.50	1	10/13/13 11:52	10/22/13 08:46	7439-96-5	
Molybdenum, Dissolved	**0.88**	ug/L	0.50	1	10/13/13 11:52	10/22/13 08:46	7439-98-7	
Nickel, Dissolved	**2.6**	ug/L	0.50	1	10/13/13 11:52	10/22/13 08:46	7440-02-0	
Potassium, Dissolved	**2350**	ug/L	20.0	1	10/13/13 11:52	10/22/13 08:46	7440-09-7	
Selenium, Dissolved	**2.3**	ug/L	0.50	1	10/13/13 11:52	10/22/13 08:46	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	10/13/13 11:52	10/22/13 08:46	7440-22-4	
Sodium, Dissolved	**7340**	ug/L	50.0	1	10/13/13 11:52	10/22/13 08:46	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	10/13/13 11:52	10/22/13 08:46	7440-28-0	
Vanadium, Dissolved	**0.67**	ug/L	0.10	1	10/13/13 11:52	10/22/13 08:46	7440-62-2	
Zinc, Dissolved	**90.7**	ug/L	5.0	1	10/13/13 11:52	10/22/13 08:46	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**214000**	ug/L	500	10	10/04/13 15:35	10/14/13 12:17	7429-90-5	
Antimony, Dissolved	**0.38J**	ug/L	1.0	1	10/04/13 15:35	10/10/13 22:01	7440-36-0	B
Arsenic, Dissolved	**6.2**	ug/L	1.0	1	10/04/13 15:35	10/10/13 22:01	7440-38-2	
Barium, Dissolved	**164**	ug/L	10.0	10	10/04/13 15:35	10/10/13 22:05	7440-39-3	
Beryllium, Dissolved	**104**	ug/L	5.0	10	10/04/13 15:35	10/14/13 12:17	7440-41-7	
Cadmium, Dissolved	**22.6**	ug/L	0.50	1	10/04/13 15:35	10/10/13 22:01	7440-43-9	
Chromium, Dissolved	**23.1**	ug/L	1.0	1	10/04/13 15:35	10/10/13 22:01	7440-47-3	
Cobalt, Dissolved	**40.2**	ug/L	1.0	1	10/04/13 15:35	10/10/13 22:01	7440-48-4	
Copper, Dissolved	**284**	ug/L	1.0	1	10/04/13 15:35	10/10/13 22:01	7440-50-8	
Iron, Dissolved	**7800**	ug/L	50.0	1	10/04/13 15:35	10/10/13 22:01	7439-89-6	
Lead, Dissolved	**254**	ug/L	1.0	1	10/04/13 15:35	10/10/13 22:01	7439-92-1	
Manganese, Dissolved	**46400**	ug/L	10.0	10	10/04/13 15:35	10/14/13 12:17	7439-96-5	
Molybdenum, Dissolved	**0.31J**	ug/L	2.0	2	10/04/13 15:35	10/14/13 13:04	7439-98-7	
Nickel, Dissolved	**42.8**	ug/L	1.0	1	10/04/13 15:35	10/10/13 22:01	7440-02-0	
Selenium, Dissolved	**32.1**	ug/L	1.0	1	10/04/13 15:35	10/10/13 22:01	7782-49-2	
Silver, Dissolved	**1.2**	ug/L	0.50	1	10/04/13 15:35	10/10/13 22:01	7440-22-4	
Thallium, Dissolved	**0.046J**	ug/L	1.0	1	10/04/13 15:35	10/10/13 22:01	7440-28-0	
Vanadium, Dissolved	**8.0**	ug/L	1.0	1	10/04/13 15:35	10/10/13 22:01	7440-62-2	
Zinc, Dissolved	**3270**	ug/L	10.0	1	10/04/13 15:35	10/10/13 22:01	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	**0.51**	ug/L	0.20	1	10/11/13 12:03	10/14/13 14:06	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	10/11/13 15:54	10/14/13 14:57	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	10/08/13 16:00	10/08/13 10:06	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**1230**	umhos/cm	10.0	1		10/08/13 10:34		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**786**	mg/L	6.4	1		10/09/13 12:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

Sample: MW-102_20130927 **Lab ID: 60154287003** Collected: 09/27/13 10:29 Received: 09/28/13 09:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.61**	PSU	0.014	1		10/09/13 12:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**214**	mg/L	20.0	1		10/04/13 10:47		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		10/04/13 10:47		
Alkalinity, Total as CaCO3	**214**	mg/L	20.0	1		10/04/13 10:47		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**975**	mg/L	5.0	1		10/03/13 11:14		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**568**	mg/L	5.0	1		10/04/13 10:52		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		10/04/13 14:47	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.1**	mg/L	1.0	1		10/11/13 12:37	16887-00-6	
Sulfate	**614**	mg/L	50.0	50		10/11/13 12:52	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**0.89**	mg/L	0.10	1		10/07/13 16:52		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		10/02/13 16:05	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.5**	mg/L	0.50	1		10/10/13 18:20	7440-44-0	

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ANALYTICAL RESULTS

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

Sample: MW-6 DEEP_20130927 **Lab ID: 60154287004** Collected: 09/27/13 10:09 Received: 09/28/13 09:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**310000**	ug/L	100	1	10/04/13 15:35	10/07/13 17:18	7440-70-2	
Magnesium, Dissolved	**44700**	ug/L	50.0	1	10/04/13 15:35	10/07/13 17:18	7439-95-4	
Potassium, Dissolved	**7180**	ug/L	500	1	10/04/13 15:35	10/07/13 17:18	7440-09-7	
Sodium, Dissolved	**5160**	ug/L	500	1	10/04/13 15:35	10/07/13 17:18	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**9850**	ug/L	4.0	1	10/11/13 08:50	10/17/13 18:39	7429-90-5	
Antimony	**0.93**	ug/L	0.50	1	10/11/13 08:50	10/17/13 18:39	7440-36-0	
Arsenic	**102**	ug/L	0.50	1	10/11/13 08:50	10/17/13 18:39	7440-38-2	
Barium	**135**	ug/L	0.30	1	10/11/13 08:50	10/17/13 18:39	7440-39-3	
Beryllium	**1.3**	ug/L	0.20	1	10/11/13 08:50	10/17/13 18:39	7440-41-7	
Cadmium	**5.4**	ug/L	0.080	1	10/11/13 08:50	10/17/13 18:39	7440-43-9	
Calcium	**302000**	ug/L	400	20	10/11/13 08:50	10/17/13 18:44	7440-70-2	
Chromium	**9.2**	ug/L	0.50	1	10/11/13 08:50	10/17/13 18:39	7440-47-3	
Cobalt	**7.8**	ug/L	0.50	1	10/11/13 08:50	10/17/13 18:39	7440-48-4	
Copper	**64.6**	ug/L	0.50	1	10/11/13 08:50	10/17/13 18:39	7440-50-8	
Iron	**36700**	ug/L	1000	20	10/11/13 08:50	10/17/13 18:44	7439-89-6	
Lead	**106**	ug/L	0.10	1	10/11/13 08:50	10/17/13 18:39	7439-92-1	
Magnesium	**46100**	ug/L	100	20	10/11/13 08:50	10/17/13 18:44	7439-95-4	
Manganese	**7800**	ug/L	10.0	20	10/11/13 08:50	10/17/13 18:44	7439-96-5	
Molybdenum	**11.2**	ug/L	0.50	1	10/11/13 08:50	10/17/13 18:39	7439-98-7	
Nickel	**12.9**	ug/L	0.50	1	10/11/13 08:50	10/17/13 18:39	7440-02-0	
Potassium	**8610**	ug/L	20.0	1	10/11/13 08:50	10/17/13 18:39	7440-09-7	
Selenium	**2.2**	ug/L	0.50	1	10/11/13 08:50	10/17/13 18:39	7782-49-2	
Silica	**50400**	ug/L	1070	20	10/11/13 08:50	10/17/13 18:44	7631-86-9	
Silver	**0.51**	ug/L	0.50	1	10/11/13 08:50	10/17/13 18:39	7440-22-4	
Sodium	**5190**	ug/L	50.0	1	10/11/13 08:50	10/17/13 18:39	7440-23-5	
Thallium	**0.20**	ug/L	0.10	1	10/11/13 08:50	10/17/13 18:39	7440-28-0	
Total Hardness by 2340B	**945000**	ug/L	1420	20	10/11/13 08:50	10/17/13 18:44		
Vanadium	**20.1**	ug/L	0.10	1	10/11/13 08:50	10/17/13 18:39	7440-62-2	
Zinc	**1690**	ug/L	100	20	10/11/13 08:50	10/17/13 18:44	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**411**	ug/L	4.0	1	10/13/13 11:52	10/22/13 09:33	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	10/13/13 11:52	10/22/13 09:33	7440-36-0	
Arsenic, Dissolved	**17.5**	ug/L	0.50	1	10/13/13 11:52	10/22/13 09:33	7440-38-2	
Barium, Dissolved	**18.9**	ug/L	0.30	1	10/13/13 11:52	10/22/13 09:33	7440-39-3	
Beryllium, Dissolved	**0.64**	ug/L	0.20	1	10/13/13 11:52	10/22/13 09:33	7440-41-7	
Cadmium, Dissolved	ND	ug/L	0.080	1	10/13/13 11:52	10/22/13 09:33	7440-43-9	
Calcium, Dissolved	**333000**	ug/L	1000	50	10/13/13 11:52	10/22/13 09:38	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	10/13/13 11:52	10/22/13 09:33	7440-47-3	
Cobalt, Dissolved	**3.2**	ug/L	0.50	1	10/13/13 11:52	10/22/13 09:33	7440-48-4	
Copper, Dissolved	ND	ug/L	0.50	1	10/13/13 11:52	10/22/13 09:33	7440-50-8	
Iron, Dissolved	**22300**	ug/L	50.0	1	10/13/13 11:52	10/22/13 09:33	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	10/13/13 11:52	10/22/13 09:33	7439-92-1	
Magnesium, Dissolved	**45800**	ug/L	250	50	10/13/13 11:52	10/22/13 09:38	7439-95-4	

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ANALYTICAL RESULTS

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

Sample: MW-6 DEEP_20130927 **Lab ID: 60154287004** Collected: 09/27/13 10:09 Received: 09/28/13 09:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	**7980**	ug/L	25.0	50	10/13/13 11:52	10/22/13 09:38	7439-96-5	
Molybdenum, Dissolved	**6.1**	ug/L	0.50	1	10/13/13 11:52	10/22/13 09:33	7439-98-7	
Nickel, Dissolved	**2.4**	ug/L	0.50	1	10/13/13 11:52	10/22/13 09:33	7440-02-0	
Potassium, Dissolved	**6850**	ug/L	20.0	1	10/13/13 11:52	10/22/13 09:33	7440-09-7	
Selenium, Dissolved	**0.88**	ug/L	0.50	1	10/13/13 11:52	10/22/13 09:33	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	10/13/13 11:52	10/22/13 09:33	7440-22-4	
Sodium, Dissolved	**4980**	ug/L	50.0	1	10/13/13 11:52	10/22/13 09:33	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	10/13/13 11:52	10/22/13 09:33	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	10/13/13 11:52	10/22/13 09:33	7440-62-2	
Zinc, Dissolved	**344**	ug/L	5.0	1	10/13/13 11:52	10/22/13 09:33	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**3690**	ug/L	50.0	1	10/04/13 15:35	10/14/13 12:21	7429-90-5	
Antimony, Dissolved	**0.46J**	ug/L	1.0	1	10/04/13 15:35	10/10/13 22:10	7440-36-0	B
Arsenic, Dissolved	**73.3**	ug/L	1.0	1	10/04/13 15:35	10/10/13 22:10	7440-38-2	
Barium, Dissolved	**37.4**	ug/L	1.0	1	10/04/13 15:35	10/10/13 22:10	7440-39-3	
Beryllium, Dissolved	**0.85**	ug/L	0.50	1	10/04/13 15:35	10/14/13 12:21	7440-41-7	
Cadmium, Dissolved	**4.8**	ug/L	0.50	1	10/04/13 15:35	10/10/13 22:10	7440-43-9	
Chromium, Dissolved	**5.1**	ug/L	1.0	1	10/04/13 15:35	10/10/13 22:10	7440-47-3	
Cobalt, Dissolved	**5.7**	ug/L	1.0	1	10/04/13 15:35	10/10/13 22:10	7440-48-4	
Copper, Dissolved	**39.6**	ug/L	1.0	1	10/04/13 15:35	10/10/13 22:10	7440-50-8	
Iron, Dissolved	**29000**	ug/L	50.0	1	10/04/13 15:35	10/10/13 22:10	7439-89-6	
Lead, Dissolved	**89.2**	ug/L	1.0	1	10/04/13 15:35	10/10/13 22:10	7439-92-1	
Manganese, Dissolved	**7550**	ug/L	1.0	1	10/04/13 15:35	10/14/13 12:21	7439-96-5	
Molybdenum, Dissolved	**3.7**	ug/L	1.0	1	10/04/13 15:35	10/14/13 12:21	7439-98-7	
Nickel, Dissolved	**6.6**	ug/L	1.0	1	10/04/13 15:35	10/10/13 22:10	7440-02-0	
Selenium, Dissolved	**2.2**	ug/L	1.0	1	10/04/13 15:35	10/10/13 22:10	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	10/04/13 15:35	10/10/13 22:10	7440-22-4	
Thallium, Dissolved	**0.077J**	ug/L	1.0	1	10/04/13 15:35	10/10/13 22:10	7440-28-0	
Vanadium, Dissolved	**9.1**	ug/L	1.0	1	10/04/13 15:35	10/10/13 22:10	7440-62-2	
Zinc, Dissolved	**1380**	ug/L	10.0	1	10/04/13 15:35	10/10/13 22:10	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	10/11/13 12:03	10/14/13 14:08	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	10/11/13 15:54	10/14/13 15:00	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	10/08/13 16:00	10/08/13 10:13	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**1510**	umhos/cm	10.0	1		10/08/13 10:35		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**968**	mg/L	6.4	1		10/09/13 12:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

Sample: MW-6 DEEP_20130927 **Lab ID: 60154287004** Collected: 09/27/13 10:09 Received: 09/28/13 09:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.76**	PSU	0.014	1		10/09/13 12:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**156**	mg/L	20.0	1		10/04/13 10:51		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		10/04/13 10:51		
Alkalinity, Total as CaCO3	**156**	mg/L	20.0	1		10/04/13 10:51		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1380**	mg/L	5.0	1		10/03/13 11:14		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**245**	mg/L	5.0	1		10/04/13 10:52		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		10/04/13 14:48	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.2**	mg/L	1.0	1		10/12/13 19:32	16887-00-6	
Sulfate	**795**	mg/L	50.0	50		10/12/13 18:01	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		10/07/13 15:26		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		10/02/13 16:08	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**0.70**	mg/L	0.50	1		10/10/13 18:38	7440-44-0	

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ANALYTICAL RESULTS

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

Sample: CHV-101 S_20130926 **Lab ID: 60154287005** Collected: 09/26/13 16:15 Received: 09/28/13 09:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**249000**	ug/L	100	1	10/04/13 15:35	10/07/13 17:20	7440-70-2	
Magnesium, Dissolved	**22100**	ug/L	50.0	1	10/04/13 15:35	10/07/13 17:20	7439-95-4	
Potassium, Dissolved	**3580**	ug/L	500	1	10/04/13 15:35	10/07/13 17:20	7440-09-7	
Sodium, Dissolved	**13000**	ug/L	500	1	10/04/13 15:35	10/07/13 17:20	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**8270**	ug/L	4.0	1	10/11/13 08:50	10/17/13 18:50	7429-90-5	
Antimony	ND	ug/L	0.50	1	10/11/13 08:50	10/17/13 18:50	7440-36-0	
Arsenic	**7.0**	ug/L	0.50	1	10/11/13 08:50	10/17/13 18:50	7440-38-2	
Barium	**316**	ug/L	0.30	1	10/11/13 08:50	10/17/13 18:50	7440-39-3	
Beryllium	**0.76**	ug/L	0.20	1	10/11/13 08:50	10/17/13 18:50	7440-41-7	
Cadmium	**0.97**	ug/L	0.080	1	10/11/13 08:50	10/17/13 18:50	7440-43-9	
Calcium	**245000**	ug/L	400	20	10/11/13 08:50	10/17/13 18:55	7440-70-2	
Chromium	**14.1**	ug/L	0.50	1	10/11/13 08:50	10/17/13 18:50	7440-47-3	
Cobalt	**7.8**	ug/L	0.50	1	10/11/13 08:50	10/17/13 18:50	7440-48-4	
Copper	**20.3**	ug/L	0.50	1	10/11/13 08:50	10/17/13 18:50	7440-50-8	
Iron	**12400**	ug/L	50.0	1	10/11/13 08:50	10/17/13 18:50	7439-89-6	
Lead	**18.6**	ug/L	0.10	1	10/11/13 08:50	10/17/13 18:50	7439-92-1	
Magnesium	**25700**	ug/L	100	20	10/11/13 08:50	10/17/13 18:55	7439-95-4	
Manganese	**1590**	ug/L	10.0	20	10/11/13 08:50	10/17/13 18:55	7439-96-5	
Molybdenum	**2.7**	ug/L	0.50	1	10/11/13 08:50	10/17/13 18:50	7439-98-7	
Nickel	**12.3**	ug/L	0.50	1	10/11/13 08:50	10/17/13 18:50	7440-02-0	
Potassium	**4970**	ug/L	20.0	1	10/11/13 08:50	10/17/13 18:50	7440-09-7	
Selenium	ND	ug/L	0.50	1	10/11/13 08:50	10/17/13 18:50	7782-49-2	
Silica	**40400**	ug/L	1070	20	10/11/13 08:50	10/17/13 18:55	7631-86-9	
Silver	ND	ug/L	0.50	1	10/11/13 08:50	10/17/13 18:50	7440-22-4	
Sodium	**14900**	ug/L	50.0	1	10/11/13 08:50	10/17/13 18:50	7440-23-5	
Thallium	**0.19**	ug/L	0.10	1	10/11/13 08:50	10/17/13 18:50	7440-28-0	
Total Hardness by 2340B	**717000**	ug/L	1420	20	10/11/13 08:50	10/17/13 18:55		
Vanadium	**16.4**	ug/L	0.10	1	10/11/13 08:50	10/17/13 18:50	7440-62-2	
Zinc	**171**	ug/L	5.0	1	10/11/13 08:50	10/17/13 18:50	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**16.0**	ug/L	4.0	1	10/13/13 11:52	10/22/13 09:43	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	10/13/13 11:52	10/22/13 09:43	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	10/13/13 11:52	10/22/13 09:43	7440-38-2	
Barium, Dissolved	**26.0**	ug/L	0.30	1	10/13/13 11:52	10/22/13 09:43	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	10/13/13 11:52	10/22/13 09:43	7440-41-7	
Cadmium, Dissolved	**0.17**	ug/L	0.080	1	10/13/13 11:52	10/22/13 09:43	7440-43-9	
Calcium, Dissolved	**269000**	ug/L	1000	50	10/13/13 11:52	10/22/13 09:48	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	10/13/13 11:52	10/22/13 09:43	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	10/13/13 11:52	10/22/13 09:43	7440-48-4	
Copper, Dissolved	**0.81**	ug/L	0.50	1	10/13/13 11:52	10/22/13 09:43	7440-50-8	
Iron, Dissolved	ND	ug/L	50.0	1	10/13/13 11:52	10/22/13 09:43	7439-89-6	
Lead, Dissolved	**0.18**	ug/L	0.10	1	10/13/13 11:52	10/22/13 09:43	7439-92-1	
Magnesium, Dissolved	**21300**	ug/L	5.0	1	10/13/13 11:52	10/22/13 09:43	7439-95-4	

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ANALYTICAL RESULTS

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

Sample: CHV-101 S_20130926 **Lab ID: 60154287005** Collected: 09/26/13 16:15 Received: 09/28/13 09:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	**6.0**	ug/L	0.50	1	10/13/13 11:52	10/22/13 09:43	7439-96-5	
Molybdenum, Dissolved	ND	ug/L	0.50	1	10/13/13 11:52	10/22/13 09:43	7439-98-7	
Nickel, Dissolved	**1.8**	ug/L	0.50	1	10/13/13 11:52	10/22/13 09:43	7440-02-0	
Potassium, Dissolved	**3200**	ug/L	20.0	1	10/13/13 11:52	10/22/13 09:43	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	10/13/13 11:52	10/22/13 09:43	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	10/13/13 11:52	10/22/13 09:43	7440-22-4	
Sodium, Dissolved	**14600**	ug/L	50.0	1	10/13/13 11:52	10/22/13 09:43	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	10/13/13 11:52	10/22/13 09:43	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	10/13/13 11:52	10/22/13 09:43	7440-62-2	
Zinc, Dissolved	**24.1**	ug/L	5.0	1	10/13/13 11:52	10/22/13 09:43	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**2130**	ug/L	50.0	1	10/04/13 15:35	10/14/13 11:43	7429-90-5	
Antimony, Dissolved	**0.32J**	ug/L	1.0	1	10/04/13 15:35	10/10/13 21:24	7440-36-0	B
Arsenic, Dissolved	**1.5**	ug/L	1.0	1	10/04/13 15:35	10/10/13 21:24	7440-38-2	
Barium, Dissolved	**49.8**	ug/L	1.0	1	10/04/13 15:35	10/10/13 21:24	7440-39-3	
Beryllium, Dissolved	**0.36J**	ug/L	0.50	1	10/04/13 15:35	10/14/13 11:43	7440-41-7	
Cadmium, Dissolved	**0.91**	ug/L	0.50	1	10/04/13 15:35	10/10/13 21:24	7440-43-9	B
Chromium, Dissolved	**6.8**	ug/L	1.0	1	10/04/13 15:35	10/10/13 21:24	7440-47-3	
Cobalt, Dissolved	**3.7**	ug/L	1.0	1	10/04/13 15:35	10/10/13 21:24	7440-48-4	
Copper, Dissolved	**9.5**	ug/L	1.0	1	10/04/13 15:35	10/10/13 21:24	7440-50-8	
Iron, Dissolved	**3690**	ug/L	50.0	1	10/04/13 15:35	10/10/13 21:24	7439-89-6	
Lead, Dissolved	**10.0**	ug/L	1.0	1	10/04/13 15:35	10/10/13 21:24	7439-92-1	
Manganese, Dissolved	**847**	ug/L	1.0	1	10/04/13 15:35	10/14/13 11:43	7439-96-5	
Molybdenum, Dissolved	**0.24J**	ug/L	1.0	1	10/04/13 15:35	10/14/13 11:43	7439-98-7	
Nickel, Dissolved	**4.1**	ug/L	1.0	1	10/04/13 15:35	10/10/13 21:24	7440-02-0	
Selenium, Dissolved	**0.93J**	ug/L	1.0	1	10/04/13 15:35	10/10/13 21:24	7782-49-2	
Silver, Dissolved	**0.079J**	ug/L	0.50	1	10/04/13 15:35	10/10/13 21:24	7440-22-4	
Thallium, Dissolved	ND	ug/L	1.0	1	10/04/13 15:35	10/10/13 21:24	7440-28-0	
Vanadium, Dissolved	**4.4**	ug/L	1.0	1	10/04/13 15:35	10/10/13 21:24	7440-62-2	
Zinc, Dissolved	**110**	ug/L	10.0	1	10/04/13 15:35	10/10/13 21:24	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	10/11/13 12:03	10/14/13 14:10	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	10/11/13 15:54	10/14/13 15:02	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	10/08/13 16:00	10/08/13 10:17	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**1220**	umhos/cm	10.0	1		10/08/13 10:36		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**780**	mg/L	6.4	1		10/09/13 12:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

Sample: CHV-101 S_20130926 **Lab ID: 60154287005** Collected: 09/26/13 16:15 Received: 09/28/13 09:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.60**	PSU	0.014	1		10/09/13 12:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**138**	mg/L	20.0	1		10/04/13 10:56		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		10/04/13 10:56		
Alkalinity, Total as CaCO3	**138**	mg/L	20.0	1		10/04/13 10:56		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1060**	mg/L	5.0	1		10/03/13 11:10		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**404**	mg/L	5.0	1		10/03/13 11:01		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		10/03/13 12:50	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	ND	mg/L	1.0	1		10/11/13 14:09	16887-00-6	
Sulfate	**707**	mg/L	50.0	50		10/11/13 14:25	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**0.22**	mg/L	0.10	1		10/07/13 15:21		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		10/02/13 16:09	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	0.50	1		10/10/13 18:57	7440-44-0	

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ANALYTICAL RESULTS

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

Sample: AT-2_20130926 **Lab ID: 60154287006** Collected: 09/26/13 15:35 Received: 09/28/13 09:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**66100**	ug/L	100	1	10/04/13 15:35	10/07/13 17:23	7440-70-2	
Magnesium, Dissolved	**5470**	ug/L	50.0	1	10/04/13 15:35	10/07/13 17:23	7439-95-4	
Potassium, Dissolved	**1750**	ug/L	500	1	10/04/13 15:35	10/07/13 17:23	7440-09-7	
Sodium, Dissolved	**1350**	ug/L	500	1	10/04/13 15:35	10/07/13 17:23	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**77700**	ug/L	80.0	20	10/11/13 08:50	10/17/13 19:05	7429-90-5	
Antimony	**0.67**	ug/L	0.50	1	10/11/13 08:50	10/17/13 19:00	7440-36-0	
Arsenic	**32.3**	ug/L	0.50	1	10/11/13 08:50	10/17/13 19:00	7440-38-2	
Barium	**698**	ug/L	6.0	20	10/11/13 08:50	10/17/13 19:05	7440-39-3	
Beryllium	**7.6**	ug/L	0.20	1	10/11/13 08:50	10/17/13 19:00	7440-41-7	
Cadmium	**23.5**	ug/L	0.080	1	10/11/13 08:50	10/17/13 19:00	7440-43-9	
Calcium	**82000**	ug/L	400	20	10/11/13 08:50	10/17/13 19:05	7440-70-2	
Chromium	**93.5**	ug/L	0.50	1	10/11/13 08:50	10/17/13 19:00	7440-47-3	
Cobalt	**76.6**	ug/L	0.50	1	10/11/13 08:50	10/17/13 19:00	7440-48-4	
Copper	**902**	ug/L	10.0	20	10/11/13 08:50	10/17/13 19:05	7440-50-8	
Iron	**204000**	ug/L	1000	20	10/11/13 08:50	10/17/13 19:05	7439-89-6	
Lead	**956**	ug/L	2.0	20	10/11/13 08:50	10/17/13 19:05	7439-92-1	
Magnesium	**67800**	ug/L	100	20	10/11/13 08:50	10/17/13 19:05	7439-95-4	
Manganese	**9040**	ug/L	50.0	100	10/11/13 08:50	10/21/13 09:10	7439-96-5	
Molybdenum	**11.1**	ug/L	0.50	1	10/11/13 08:50	10/17/13 19:00	7439-98-7	
Nickel	**117**	ug/L	0.50	1	10/11/13 08:50	10/17/13 19:00	7440-02-0	
Potassium	**7600**	ug/L	20.0	1	10/11/13 08:50	10/17/13 19:00	7440-09-7	
Selenium	**3.5**	ug/L	0.50	1	10/11/13 08:50	10/17/13 19:00	7782-49-2	
Silica	**190000**	ug/L	5350	100	10/11/13 08:50	10/21/13 09:10	7631-86-9	
Silver	**3.4**	ug/L	0.50	1	10/11/13 08:50	10/17/13 19:00	7440-22-4	
Sodium	**1640**	ug/L	50.0	1	10/11/13 08:50	10/17/13 19:00	7440-23-5	
Thallium	ND	ug/L	2.0	20	10/11/13 08:50	10/17/13 19:05	7440-28-0	D3
Total Hardness by 2340B	**484000**	ug/L	1420	20	10/11/13 08:50	10/17/13 19:05		
Vanadium	**105**	ug/L	0.10	1	10/11/13 08:50	10/17/13 19:00	7440-62-2	
Zinc	**3800**	ug/L	100	20	10/11/13 08:50	10/17/13 19:05	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**128**	ug/L	4.0	1	10/13/13 11:52	10/22/13 09:53	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	10/13/13 11:52	10/22/13 09:53	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	10/13/13 11:52	10/22/13 09:53	7440-38-2	
Barium, Dissolved	**34.5**	ug/L	0.30	1	10/13/13 11:52	10/22/13 09:53	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	10/13/13 11:52	10/22/13 09:53	7440-41-7	
Cadmium, Dissolved	ND	ug/L	0.080	1	10/13/13 11:52	10/22/13 09:53	7440-43-9	
Calcium, Dissolved	**29100**	ug/L	1000	50	10/13/13 11:52	10/22/13 09:58	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	10/13/13 11:52	10/22/13 09:53	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	10/13/13 11:52	10/22/13 09:53	7440-48-4	
Copper, Dissolved	**1.3**	ug/L	0.50	1	10/13/13 11:52	10/22/13 09:53	7440-50-8	
Iron, Dissolved	**236**	ug/L	50.0	1	10/13/13 11:52	10/22/13 09:53	7439-89-6	
Lead, Dissolved	**1.0**	ug/L	0.10	1	10/13/13 11:52	10/22/13 09:53	7439-92-1	
Magnesium, Dissolved	**1940**	ug/L	5.0	1	10/13/13 11:52	10/22/13 09:53	7439-95-4	

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ANALYTICAL RESULTS

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

Sample: AT-2_20130926 **Lab ID: 60154287006** Collected: 09/26/13 15:35 Received: 09/28/13 09:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	**330**	ug/L	0.50	1	10/13/13 11:52	10/22/13 09:53	7439-96-5	
Molybdenum, Dissolved	**9.2**	ug/L	0.50	1	10/13/13 11:52	10/22/13 09:53	7439-98-7	
Nickel, Dissolved	**0.62**	ug/L	0.50	1	10/13/13 11:52	10/22/13 09:53	7440-02-0	
Potassium, Dissolved	**1080**	ug/L	20.0	1	10/13/13 11:52	10/22/13 09:53	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	10/13/13 11:52	10/22/13 09:53	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	10/13/13 11:52	10/22/13 09:53	7440-22-4	
Sodium, Dissolved	**1480**	ug/L	50.0	1	10/13/13 11:52	10/22/13 09:53	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	10/13/13 11:52	10/22/13 09:53	7440-28-0	
Vanadium, Dissolved	**0.16**	ug/L	0.10	1	10/13/13 11:52	10/22/13 09:53	7440-62-2	
Zinc, Dissolved	**12.7**	ug/L	5.0	1	10/13/13 11:52	10/22/13 09:53	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**6580**	ug/L	50.0	1	10/04/13 15:35	10/14/13 12:25	7429-90-5	
Antimony, Dissolved	**0.43J**	ug/L	1.0	1	10/04/13 15:35	10/10/13 22:18	7440-36-0	B
Arsenic, Dissolved	**2.4**	ug/L	1.0	1	10/04/13 15:35	10/10/13 22:18	7440-38-2	
Barium, Dissolved	**466**	ug/L	1.0	1	10/04/13 15:35	10/10/13 22:18	7440-39-3	
Beryllium, Dissolved	**4.2**	ug/L	0.50	1	10/04/13 15:35	10/14/13 12:25	7440-41-7	
Cadmium, Dissolved	**19.8**	ug/L	0.50	1	10/04/13 15:35	10/10/13 22:18	7440-43-9	
Chromium, Dissolved	**4.8**	ug/L	1.0	1	10/04/13 15:35	10/10/13 22:18	7440-47-3	
Cobalt, Dissolved	**46.5**	ug/L	1.0	1	10/04/13 15:35	10/10/13 22:18	7440-48-4	
Copper, Dissolved	**430**	ug/L	1.0	1	10/04/13 15:35	10/10/13 22:18	7440-50-8	
Iron, Dissolved	**29900**	ug/L	50.0	1	10/04/13 15:35	10/10/13 22:18	7439-89-6	
Lead, Dissolved	**612**	ug/L	1.0	1	10/04/13 15:35	10/10/13 22:18	7439-92-1	
Manganese, Dissolved	**6300**	ug/L	1.0	1	10/04/13 15:35	10/14/13 12:25	7439-96-5	
Molybdenum, Dissolved	**2.3**	ug/L	1.0	1	10/04/13 15:35	10/14/13 12:25	7439-98-7	
Nickel, Dissolved	**31.2**	ug/L	1.0	1	10/04/13 15:35	10/10/13 22:18	7440-02-0	
Selenium, Dissolved	**10.6**	ug/L	1.0	1	10/04/13 15:35	10/10/13 22:18	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	10/04/13 15:35	10/10/13 22:18	7440-22-4	
Thallium, Dissolved	**0.079J**	ug/L	1.0	1	10/04/13 15:35	10/10/13 22:18	7440-28-0	
Vanadium, Dissolved	**11.7**	ug/L	1.0	1	10/04/13 15:35	10/10/13 22:18	7440-62-2	
Zinc, Dissolved	**1720**	ug/L	10.0	1	10/04/13 15:35	10/10/13 22:18	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	10/11/13 12:03	10/14/13 14:12	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	10/11/13 15:54	10/14/13 15:04	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	10/08/13 16:00	10/08/13 10:24	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**169**	umhos/cm	10.0	1		10/08/13 10:37		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**108**	mg/L	6.4	1		10/09/13 12:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

Sample: AT-2_20130926 **Lab ID: 60154287006** Collected: 09/26/13 15:35 Received: 09/28/13 09:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.083**	PSU	0.014	1		10/09/13 12:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**30.5**	mg/L	20.0	1		10/04/13 11:09		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		10/04/13 11:09		
Alkalinity, Total as CaCO3	**30.5**	mg/L	20.0	1		10/04/13 11:09		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**124**	mg/L	5.0	1		10/03/13 11:11		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**2950**	mg/L	5.0	1		10/03/13 11:01		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		10/03/13 12:51	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	ND	mg/L	1.0	1		10/12/13 19:47	16887-00-6	
Sulfate	**42.4**	mg/L	5.0	5		10/12/13 18:16	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		10/07/13 15:23		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		10/02/13 16:09	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**0.79**	mg/L	0.50	1		10/10/13 19:35	7440-44-0	

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ANALYTICAL RESULTS

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

Sample: BAH-01_20130926 **Lab ID: 60154287007** Collected: 09/26/13 15:20 Received: 09/28/13 09:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**265000**	ug/L	100	1	10/04/13 15:35	10/07/13 17:25	7440-70-2	
Magnesium, Dissolved	**19500**	ug/L	100	2	10/04/13 15:35	10/09/13 16:25	7439-95-4	
Potassium, Dissolved	**4460**	ug/L	500	1	10/04/13 15:35	10/07/13 17:25	7440-09-7	
Sodium, Dissolved	**10600**	ug/L	500	1	10/04/13 15:35	10/07/13 17:25	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**295000**	ug/L	200	50	10/11/13 08:50	10/17/13 19:16	7429-90-5	
Antimony	ND	ug/L	25.0	50	10/11/13 08:50	10/17/13 19:16	7440-36-0	D3
Arsenic	**101**	ug/L	2.5	5	10/11/13 08:50	10/17/13 19:10	7440-38-2	
Barium	**368**	ug/L	15.0	50	10/11/13 08:50	10/17/13 19:16	7440-39-3	
Beryllium	**213**	ug/L	1.0	5	10/11/13 08:50	10/17/13 19:10	7440-41-7	
Cadmium	**1460**	ug/L	4.0	50	10/11/13 08:50	10/17/13 19:16	7440-43-9	
Calcium	**346000**	ug/L	1000	50	10/11/13 08:50	10/17/13 19:16	7440-70-2	
Chromium	**7680**	ug/L	25.0	50	10/11/13 08:50	10/17/13 19:16	7440-47-3	
Cobalt	**128**	ug/L	2.5	5	10/11/13 08:50	10/17/13 19:10	7440-48-4	
Copper	**88000**	ug/L	250	500	10/11/13 08:50	10/17/13 19:22	7440-50-8	
Iron	**4260000**	ug/L	25000	500	10/11/13 08:50	10/17/13 19:22	7439-89-6	
Lead	**16200**	ug/L	5.0	50	10/11/13 08:50	10/17/13 19:16	7439-92-1	
Magnesium	**33900**	ug/L	25.0	5	10/11/13 08:50	10/17/13 19:10	7439-95-4	
Manganese	**34700**	ug/L	250	500	10/11/13 08:50	10/17/13 19:22	7439-96-5	
Molybdenum	**382**	ug/L	25.0	50	10/11/13 08:50	10/17/13 19:16	7439-98-7	
Nickel	**356**	ug/L	2.5	5	10/11/13 08:50	10/17/13 19:10	7440-02-0	
Potassium	**6650**	ug/L	100	5	10/11/13 08:50	10/17/13 19:10	7440-09-7	
Selenium	**11.5**	ug/L	2.5	5	10/11/13 08:50	10/17/13 19:10	7782-49-2	
Silica	**544000**	ug/L	26800	500	10/11/13 08:50	10/17/13 19:22	7631-86-9	
Silver	**173**	ug/L	25.0	50	10/11/13 08:50	10/17/13 19:16	7440-22-4	
Sodium	**13200**	ug/L	250	5	10/11/13 08:50	10/17/13 19:10	7440-23-5	
Thallium	**5.3**	ug/L	5.0	50	10/11/13 08:50	10/17/13 19:16	7440-28-0	
Total Hardness by 2340B	**1000000**	ug/L	3550	50	10/11/13 08:50	10/17/13 19:16		
Vanadium	**44.3**	ug/L	0.50	5	10/11/13 08:50	10/17/13 19:10	7440-62-2	
Zinc	**165000**	ug/L	2500	500	10/11/13 08:50	10/17/13 19:22	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	ND	ug/L	4.0	1	10/13/13 11:52	10/23/13 14:25	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	10/13/13 11:52	10/22/13 10:03	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	10/13/13 11:52	10/22/13 10:03	7440-38-2	
Barium, Dissolved	**42.4**	ug/L	0.30	1	10/13/13 11:52	10/22/13 10:03	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	10/13/13 11:52	10/22/13 10:03	7440-41-7	
Cadmium, Dissolved	ND	ug/L	0.080	1	10/13/13 11:52	10/22/13 10:03	7440-43-9	
Calcium, Dissolved	**250000**	ug/L	1000	50	10/13/13 11:52	10/22/13 10:08	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	10/13/13 11:52	10/22/13 10:03	7440-47-3	
Cobalt, Dissolved	**1.4**	ug/L	0.50	1	10/13/13 11:52	10/22/13 10:03	7440-48-4	
Copper, Dissolved	ND	ug/L	0.50	1	10/13/13 11:52	10/22/13 10:03	7440-50-8	
Iron, Dissolved	**18800**	ug/L	50.0	1	10/13/13 11:52	10/22/13 10:03	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	10/13/13 11:52	10/22/13 10:03	7439-92-1	
Magnesium, Dissolved	**20700**	ug/L	5.0	1	10/13/13 11:52	10/22/13 10:03	7439-95-4	

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ANALYTICAL RESULTS

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

Sample: BAH-01_20130926 **Lab ID: 60154287007** Collected: 09/26/13 15:20 Received: 09/28/13 09:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	**1720**	ug/L	25.0	50	10/13/13 11:52	10/22/13 10:08	7439-96-5	
Molybdenum, Dissolved	**31.4**	ug/L	0.50	1	10/13/13 11:52	10/22/13 10:03	7439-98-7	
Nickel, Dissolved	**2.3**	ug/L	0.50	1	10/13/13 11:52	10/22/13 10:03	7440-02-0	
Potassium, Dissolved	**5600**	ug/L	20.0	1	10/13/13 11:52	10/22/13 10:03	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	10/13/13 11:52	10/22/13 10:03	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	10/13/13 11:52	10/22/13 10:03	7440-22-4	
Sodium, Dissolved	**15000**	ug/L	50.0	1	10/13/13 11:52	10/22/13 10:03	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	10/13/13 11:52	10/22/13 10:03	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	10/13/13 11:52	10/22/13 10:03	7440-62-2	
Zinc, Dissolved	**196**	ug/L	5.0	1	10/13/13 11:52	10/22/13 10:03	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**68200**	ug/L	5000	100	10/04/13 15:35	10/14/13 12:29	7429-90-5	
Antimony, Dissolved	**10.1**	ug/L	10.0	10	10/04/13 15:35	10/10/13 22:30	7440-36-0	B
Arsenic, Dissolved	**14.5**	ug/L	1.0	1	10/04/13 15:35	10/10/13 22:26	7440-38-2	
Barium, Dissolved	**256**	ug/L	10.0	10	10/04/13 15:35	10/10/13 22:30	7440-39-3	
Beryllium, Dissolved	**118**	ug/L	50.0	100	10/04/13 15:35	10/14/13 12:29	7440-41-7	
Cadmium, Dissolved	**772**	ug/L	5.0	10	10/04/13 15:35	10/10/13 22:30	7440-43-9	
Chromium, Dissolved	**2530**	ug/L	1.0	1	10/04/13 15:35	10/10/13 22:26	7440-47-3	
Cobalt, Dissolved	**20.2**	ug/L	1.0	1	10/04/13 15:35	10/10/13 22:26	7440-48-4	
Copper, Dissolved	**24300**	ug/L	10.0	10	10/04/13 15:35	10/10/13 22:30	7440-50-8	
Iron, Dissolved	**1150000**	ug/L	5000	100	10/04/13 15:35	10/10/13 22:34	7439-89-6	
Lead, Dissolved	**7130**	ug/L	10.0	10	10/04/13 15:35	10/10/13 22:30	7439-92-1	
Manganese, Dissolved	**24400**	ug/L	100	100	10/04/13 15:35	10/14/13 12:29	7439-96-5	
Molybdenum, Dissolved	**170**	ug/L	100	100	10/04/13 15:35	10/14/13 12:29	7439-98-7	
Nickel, Dissolved	**125**	ug/L	1.0	1	10/04/13 15:35	10/10/13 22:26	7440-02-0	
Selenium, Dissolved	**30.0**	ug/L	1.0	1	10/04/13 15:35	10/10/13 22:26	7782-49-2	
Silver, Dissolved	**0.11J**	ug/L	5.0	10	10/04/13 15:35	10/10/13 22:30	7440-22-4	
Thallium, Dissolved	**2.0**	ug/L	1.0	1	10/04/13 15:35	10/10/13 22:26	7440-28-0	
Vanadium, Dissolved	ND	ug/L	100	100	10/04/13 15:35	10/10/13 22:34	7440-62-2	D3
Zinc, Dissolved	**75600**	ug/L	100	10	10/04/13 15:35	10/10/13 22:30	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	10/11/13 12:03	10/14/13 14:14	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	10/11/13 15:54	10/14/13 15:06	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	10/08/13 16:00	10/08/13 10:26	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**1100**	umhos/cm	10.0	1		10/09/13 10:59		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**707**	mg/L	6.4	1		10/09/13 12:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

Sample: BAH-01_20130926 **Lab ID: 60154287007** Collected: 09/26/13 15:20 Received: 09/28/13 09:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.55**	PSU	0.014	1		10/09/13 12:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**81.9**	mg/L	20.0	1		10/04/13 11:13		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		10/04/13 11:13		
Alkalinity, Total as CaCO3	**81.9**	mg/L	20.0	1		10/04/13 11:13		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**977**	mg/L	5.0	1		10/03/13 11:12		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**13200**	mg/L	5.0	1		10/03/13 11:03		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		10/03/13 12:53	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.1**	mg/L	1.0	1		10/11/13 11:17	16887-00-6	
Sulfate	**574**	mg/L	50.0	50		10/11/13 10:16	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		10/07/13 15:24		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		10/02/13 16:12	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	0.50	1		10/11/13 06:52	7440-44-0	

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ANALYTICAL RESULTS

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

Sample: FB-FIELD_20130926 **Lab ID: 60154287008** Collected: 09/26/13 15:45 Received: 09/28/13 09:25 Matrix: Water

Comments: • All reported results confirmed for total vs dissolved metals (Ca & Mn)

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7	Preparation Method: EPA 200.7						
Calcium, Dissolved	**55.7J**	ug/L	100	1	10/04/13 15:35	10/07/13 17:27	7440-70-2	B
Magnesium, Dissolved	**10.2J**	ug/L	50.0	1	10/04/13 15:35	10/07/13 17:27	7439-95-4	B
Potassium, Dissolved	ND	ug/L	500	1	10/04/13 15:35	10/07/13 17:27	7440-09-7	
Sodium, Dissolved	**435J**	ug/L	500	1	10/04/13 15:35	10/07/13 17:27	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8	Preparation Method: EPA 200.8						
Aluminum	**11.5**	ug/L	4.0	1	10/11/13 08:50	10/17/13 18:34	7429-90-5	
Antimony	ND	ug/L	0.50	1	10/11/13 08:50	10/17/13 18:34	7440-36-0	
Arsenic	ND	ug/L	0.50	1	10/11/13 08:50	10/17/13 18:34	7440-38-2	
Barium	ND	ug/L	0.30	1	10/11/13 08:50	10/17/13 18:34	7440-39-3	
Beryllium	ND	ug/L	0.20	1	10/11/13 08:50	10/17/13 18:34	7440-41-7	
Cadmium	ND	ug/L	0.080	1	10/11/13 08:50	10/17/13 18:34	7440-43-9	
Calcium	**22.7**	ug/L	20.0	1	10/11/13 08:50	10/17/13 18:34	7440-70-2	
Chromium	ND	ug/L	0.50	1	10/11/13 08:50	10/17/13 18:34	7440-47-3	
Cobalt	ND	ug/L	0.50	1	10/11/13 08:50	10/17/13 18:34	7440-48-4	
Copper	**1.9**	ug/L	0.50	1	10/11/13 08:50	10/17/13 18:34	7440-50-8	
Iron	**150**	ug/L	50.0	1	10/11/13 08:50	10/17/13 18:34	7439-89-6	
Lead	**0.50**	ug/L	0.10	1	10/11/13 08:50	10/17/13 18:34	7439-92-1	
Magnesium	ND	ug/L	5.0	1	10/11/13 08:50	10/17/13 18:34	7439-95-4	
Manganese	**1.1**	ug/L	0.50	1	10/11/13 08:50	10/17/13 18:34	7439-96-5	
Molybdenum	ND	ug/L	0.50	1	10/11/13 08:50	10/17/13 18:34	7439-98-7	
Nickel	ND	ug/L	0.50	1	10/11/13 08:50	10/17/13 18:34	7440-02-0	
Potassium	ND	ug/L	20.0	1	10/11/13 08:50	10/17/13 18:34	7440-09-7	
Selenium	ND	ug/L	0.50	1	10/11/13 08:50	10/17/13 18:34	7782-49-2	
Silica	ND	ug/L	53.5	1	10/11/13 08:50	10/17/13 18:34	7631-86-9	
Silver	ND	ug/L	0.50	1	10/11/13 08:50	10/17/13 18:34	7440-22-4	
Sodium	**466**	ug/L	50.0	1	10/11/13 08:50	10/17/13 18:34	7440-23-5	
Thallium	ND	ug/L	0.10	1	10/11/13 08:50	10/17/13 18:34	7440-28-0	
Total Hardness by 2340B	**75.6**	ug/L	71.0	1	10/11/13 08:50	10/17/13 18:34		
Vanadium	ND	ug/L	0.10	1	10/11/13 08:50	10/17/13 18:34	7440-62-2	
Zinc	**5.4**	ug/L	5.0	1	10/11/13 08:50	10/17/13 18:34	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8	Preparation Method: EPA 200.8						
Aluminum, Dissolved	ND	ug/L	4.0	1	10/13/13 11:52	10/23/13 14:21	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	10/13/13 11:52	10/22/13 10:13	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	10/13/13 11:52	10/22/13 10:13	7440-38-2	
Barium, Dissolved	ND	ug/L	0.30	1	10/13/13 11:52	10/22/13 10:13	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	10/13/13 11:52	10/22/13 10:13	7440-41-7	
Cadmium, Dissolved	ND	ug/L	0.080	1	10/13/13 11:52	10/22/13 10:13	7440-43-9	
Calcium, Dissolved	**122**	ug/L	20.0	1	10/13/13 11:52	10/22/13 10:13	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	10/13/13 11:52	10/22/13 10:13	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	10/13/13 11:52	10/22/13 10:13	7440-48-4	
Copper, Dissolved	**1.2**	ug/L	0.50	1	10/13/13 11:52	10/22/13 10:13	7440-50-8	
Iron, Dissolved	ND	ug/L	50.0	1	10/13/13 11:52	10/22/13 10:13	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	10/13/13 11:52	10/22/13 10:13	7439-92-1	

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ANALYTICAL RESULTS

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

Sample: FB-FIELD_20130926 **Lab ID: 60154287008** Collected: 09/26/13 15:45 Received: 09/28/13 09:25 Matrix: Water

Comments: • All reported results confirmed for total vs dissolved metals (Ca & Mn)

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8		Preparation Method: EPA 200.8					
Magnesium, Dissolved	**16.2**	ug/L	5.0	1	10/13/13 11:52	10/22/13 10:13	7439-95-4	
Manganese, Dissolved	**1.4**	ug/L	0.50	1	10/13/13 11:52	10/22/13 10:13	7439-96-5	
Molybdenum, Dissolved	ND	ug/L	0.50	1	10/13/13 11:52	10/22/13 10:13	7439-98-7	
Nickel, Dissolved	**1.5**	ug/L	0.50	1	10/13/13 11:52	10/22/13 10:13	7440-02-0	
Potassium, Dissolved	**32.9**	ug/L	20.0	1	10/13/13 11:52	10/22/13 10:13	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	10/13/13 11:52	10/22/13 10:13	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	10/13/13 11:52	10/22/13 10:13	7440-22-4	
Sodium, Dissolved	**490**	ug/L	50.0	1	10/13/13 11:52	10/22/13 10:13	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	10/13/13 11:52	10/22/13 10:13	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	10/13/13 11:52	10/22/13 10:13	7440-62-2	
Zinc, Dissolved	ND	ug/L	5.0	1	10/13/13 11:52	10/22/13 10:13	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8		Preparation Method: EPA 200.8					
Aluminum, Dissolved	ND	ug/L	50.0	1	10/04/13 15:35	10/14/13 13:12	7429-90-5	
Antimony, Dissolved	**0.27J**	ug/L	1.0	1	10/04/13 15:35	10/10/13 21:57	7440-36-0	B
Arsenic, Dissolved	ND	ug/L	1.0	1	10/04/13 15:35	10/10/13 21:57	7440-38-2	
Barium, Dissolved	**0.30J**	ug/L	1.0	1	10/04/13 15:35	10/10/13 21:57	7440-39-3	B
Beryllium, Dissolved	ND	ug/L	0.50	1	10/04/13 15:35	10/14/13 13:12	7440-41-7	
Cadmium, Dissolved	**0.13J**	ug/L	0.50	1	10/04/13 15:35	10/10/13 21:57	7440-43-9	B
Chromium, Dissolved	**0.53J**	ug/L	1.0	1	10/04/13 15:35	10/10/13 21:57	7440-47-3	B
Cobalt, Dissolved	**0.24J**	ug/L	1.0	1	10/04/13 15:35	10/10/13 21:57	7440-48-4	B
Copper, Dissolved	**0.64J**	ug/L	1.0	1	10/04/13 15:35	10/10/13 21:57	7440-50-8	B
Iron, Dissolved	ND	ug/L	50.0	1	10/04/13 15:35	10/10/13 21:57	7439-89-6	
Lead, Dissolved	**0.045J**	ug/L	1.0	1	10/04/13 15:35	10/10/13 21:57	7439-92-1	
Manganese, Dissolved	ND	ug/L	1.0	1	10/04/13 15:35	10/14/13 13:12	7439-96-5	
Molybdenum, Dissolved	ND	ug/L	1.0	1	10/04/13 15:35	10/14/13 13:12	7439-98-7	
Nickel, Dissolved	**0.39J**	ug/L	1.0	1	10/04/13 15:35	10/10/13 21:57	7440-02-0	B
Selenium, Dissolved	ND	ug/L	1.0	1	10/04/13 15:35	10/10/13 21:57	7782-49-2	
Silver, Dissolved	**0.010J**	ug/L	0.50	1	10/04/13 15:35	10/10/13 21:57	7440-22-4	
Thallium, Dissolved	ND	ug/L	1.0	1	10/04/13 15:35	10/10/13 21:57	7440-28-0	
Vanadium, Dissolved	**0.17J**	ug/L	1.0	1	10/04/13 15:35	10/10/13 21:57	7440-62-2	B
Zinc, Dissolved	**1.4J**	ug/L	10.0	1	10/04/13 15:35	10/10/13 21:57	7440-66-6	B
245.1 Mercury	Analytical Method: EPA 245.1		Preparation Method: EPA 245.1					
Mercury	ND	ug/L	0.20	1	10/11/13 12:03	10/14/13 14:16	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1		Preparation Method: EPA 245.1					
Mercury, Dissolved	ND	ug/L	0.20	1	10/11/13 15:54	10/14/13 15:08	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1		Preparation Method: EPA 245.1					
Mercury, Dissolved	ND	ug/L	0.20	1	10/08/13 16:00	10/08/13 10:28	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	ND	umhos/cm	10.0	1		10/09/13 11:02		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

Sample: FB-FIELD_20130926 **Lab ID: 60154287008** Collected: 09/26/13 15:45 Received: 09/28/13 09:25 Matrix: Water

Comments: • All reported results confirmed for total vs dissolved metals (Ca & Mn)

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	ND	mg/L	6.4	1		10/09/13 12:00		
Salinity (as seawater)	ND	PSU	0.014	1		10/09/13 12:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	20.0	1		10/04/13 11:20		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		10/04/13 11:20		
Alkalinity, Total as CaCO3	ND	mg/L	20.0	1		10/04/13 11:20		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**11.0**	mg/L	5.0	1		10/03/13 11:12		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	ND	mg/L	5.0	1		10/03/13 11:03		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		10/03/13 12:53	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	ND	mg/L	1.0	1		10/11/13 11:01	16887-00-6	
Sulfate	ND	mg/L	1.0	1		10/11/13 11:01	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		10/07/13 16:53		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		10/02/13 16:12	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	0.50	1		10/10/13 20:13	7440-44-0	

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ANALYTICAL RESULTS

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

Sample: DR-6_20130927 **Lab ID: 60154287009** Collected: 09/27/13 11:21 Received: 09/28/13 09:25 Matrix: Water

Comments: • All reported results confirmed for total vs. dissolved metals (Ni)

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7	Preparation Method: EPA 200.7						
Calcium, Dissolved	**259000**	ug/L	100	1	10/04/13 15:35	10/07/13 17:29	7440-70-2	M1
Magnesium, Dissolved	**25700**	ug/L	50.0	1	10/04/13 15:35	10/07/13 17:29	7439-95-4	
Potassium, Dissolved	**4720**	ug/L	500	1	10/04/13 15:35	10/07/13 17:29	7440-09-7	
Sodium, Dissolved	**16400**	ug/L	500	1	10/04/13 15:35	10/07/13 17:29	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8	Preparation Method: EPA 200.8						
Aluminum	**21.0**	ug/L	4.0	1	10/11/13 08:50	10/17/13 19:43	7429-90-5	
Antimony	ND	ug/L	0.50	1	10/11/13 08:50	10/17/13 19:43	7440-36-0	
Arsenic	ND	ug/L	0.50	1	10/11/13 08:50	10/17/13 19:43	7440-38-2	
Barium	**19.2**	ug/L	0.30	1	10/11/13 08:50	10/17/13 19:43	7440-39-3	
Beryllium	ND	ug/L	0.20	1	10/11/13 08:50	10/17/13 19:43	7440-41-7	
Cadmium	**9.0**	ug/L	0.080	1	10/11/13 08:50	10/17/13 19:43	7440-43-9	
Calcium	**254000**	ug/L	400	20	10/11/13 08:50	10/17/13 19:48	7440-70-2	
Chromium	ND	ug/L	0.50	1	10/11/13 08:50	10/17/13 19:43	7440-47-3	
Cobalt	**1.1**	ug/L	0.50	1	10/11/13 08:50	10/17/13 19:43	7440-48-4	
Copper	**3.9**	ug/L	0.50	1	10/11/13 08:50	10/17/13 19:43	7440-50-8	
Iron	**342**	ug/L	50.0	1	10/11/13 08:50	10/17/13 19:43	7439-89-6	
Lead	**0.56**	ug/L	0.10	1	10/11/13 08:50	10/17/13 19:43	7439-92-1	
Magnesium	**26400**	ug/L	100	20	10/11/13 08:50	10/17/13 19:48	7439-95-4	
Manganese	**1170**	ug/L	10.0	20	10/11/13 08:50	10/17/13 19:48	7439-96-5	
Molybdenum	**12.4**	ug/L	0.50	1	10/11/13 08:50	10/17/13 19:43	7439-98-7	
Nickel	**3.2**	ug/L	0.50	1	10/11/13 08:50	10/17/13 19:43	7440-02-0	
Potassium	**4540**	ug/L	20.0	1	10/11/13 08:50	10/17/13 19:43	7440-09-7	
Selenium	ND	ug/L	0.50	1	10/11/13 08:50	10/17/13 19:43	7782-49-2	
Silica	**17700**	ug/L	1070	20	10/11/13 08:50	10/17/13 19:48	7631-86-9	
Silver	ND	ug/L	0.50	1	10/11/13 08:50	10/17/13 19:43	7440-22-4	
Sodium	**19000**	ug/L	50.0	1	10/11/13 08:50	10/17/13 19:43	7440-23-5	
Thallium	ND	ug/L	0.10	1	10/11/13 08:50	10/17/13 19:43	7440-28-0	
Total Hardness by 2340B	**744000**	ug/L	1420	20	10/11/13 08:50	10/17/13 19:48		
Vanadium	ND	ug/L	0.10	1	10/11/13 08:50	10/17/13 19:43	7440-62-2	
Zinc	**1990**	ug/L	100	20	10/11/13 08:50	10/17/13 19:48	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8	Preparation Method: EPA 200.8						
Aluminum, Dissolved	ND	ug/L	4.0	1	10/13/13 11:52	10/23/13 14:30	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	10/13/13 11:52	10/22/13 10:41	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	10/13/13 11:52	10/22/13 10:41	7440-38-2	
Barium, Dissolved	**20.6**	ug/L	0.30	1	10/13/13 11:52	10/22/13 10:41	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	10/13/13 11:52	10/22/13 10:41	7440-41-7	
Cadmium, Dissolved	**8.4**	ug/L	0.080	1	10/13/13 11:52	10/22/13 10:41	7440-43-9	
Calcium, Dissolved	**288000**	ug/L	1000	50	10/13/13 11:52	10/22/13 10:46	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	10/13/13 11:52	10/22/13 10:41	7440-47-3	
Cobalt, Dissolved	**1.3**	ug/L	0.50	1	10/13/13 11:52	10/22/13 10:41	7440-48-4	
Copper, Dissolved	**1.3**	ug/L	0.50	1	10/13/13 11:52	10/22/13 10:41	7440-50-8	
Iron, Dissolved	ND	ug/L	50.0	1	10/13/13 11:52	10/22/13 10:41	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	10/13/13 11:52	10/22/13 10:41	7439-92-1	

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ANALYTICAL RESULTS

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

Sample: DR-6_20130927 **Lab ID: 60154287009** Collected: 09/27/13 11:21 Received: 09/28/13 09:25 Matrix: Water

Comments: • All reported results confirmed for total vs. dissolved metals (Ni)

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8	Preparation Method: EPA 200.8						
Magnesium, Dissolved	**28500**	ug/L	250	50	10/13/13 11:52	10/22/13 10:46	7439-95-4	
Manganese, Dissolved	**1260**	ug/L	25.0	50	10/13/13 11:52	10/22/13 10:46	7439-96-5	
Molybdenum, Dissolved	**13.0**	ug/L	0.50	1	10/13/13 11:52	10/22/13 10:41	7439-98-7	
Nickel, Dissolved	**8.4**	ug/L	0.50	1	10/13/13 11:52	10/22/13 10:41	7440-02-0	
Potassium, Dissolved	**4630**	ug/L	20.0	1	10/13/13 11:52	10/22/13 10:41	7440-09-7	
Selenium, Dissolved	**0.53**	ug/L	0.50	1	10/13/13 11:52	10/22/13 10:41	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	10/13/13 11:52	10/22/13 10:41	7440-22-4	
Sodium, Dissolved	**18500**	ug/L	50.0	1	10/13/13 11:52	10/22/13 10:41	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	10/13/13 11:52	10/22/13 10:41	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	10/13/13 11:52	10/22/13 10:41	7440-62-2	
Zinc, Dissolved	**1870**	ug/L	250	50	10/13/13 11:52	10/22/13 10:46	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8	Preparation Method: EPA 200.8						
Aluminum, Dissolved	**16.4J**	ug/L	50.0	1	10/04/13 15:35	10/14/13 12:12	7429-90-5	
Antimony, Dissolved	**0.38J**	ug/L	1.0	1	10/04/13 15:35	10/10/13 21:28	7440-36-0	B
Arsenic, Dissolved	**0.20J**	ug/L	1.0	1	10/04/13 15:35	10/10/13 21:28	7440-38-2	
Barium, Dissolved	**18.5**	ug/L	1.0	1	10/04/13 15:35	10/10/13 21:28	7440-39-3	
Beryllium, Dissolved	**0.053J**	ug/L	0.50	1	10/04/13 15:35	10/14/13 12:12	7440-41-7	
Cadmium, Dissolved	**8.4**	ug/L	0.50	1	10/04/13 15:35	10/10/13 21:28	7440-43-9	
Chromium, Dissolved	**0.61J**	ug/L	1.0	1	10/04/13 15:35	10/10/13 21:28	7440-47-3	B
Cobalt, Dissolved	**1.1**	ug/L	1.0	1	10/04/13 15:35	10/10/13 21:28	7440-48-4	B
Copper, Dissolved	**4.0**	ug/L	1.0	1	10/04/13 15:35	10/10/13 21:28	7440-50-8	B
Iron, Dissolved	**337**	ug/L	50.0	1	10/04/13 15:35	10/10/13 21:28	7439-89-6	
Lead, Dissolved	**0.62J**	ug/L	1.0	1	10/04/13 15:35	10/10/13 21:28	7439-92-1	
Manganese, Dissolved	**1150**	ug/L	1.0	1	10/04/13 15:35	10/14/13 12:12	7439-96-5	
Molybdenum, Dissolved	**12.3**	ug/L	1.0	1	10/04/13 15:35	10/14/13 12:12	7439-98-7	
Nickel, Dissolved	**1.9**	ug/L	1.0	1	10/04/13 15:35	10/10/13 21:28	7440-02-0	B
Selenium, Dissolved	**0.41J**	ug/L	1.0	1	10/04/13 15:35	10/10/13 21:28	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	10/04/13 15:35	10/10/13 21:28	7440-22-4	
Thallium, Dissolved	**0.041J**	ug/L	1.0	1	10/04/13 15:35	10/10/13 21:28	7440-28-0	
Vanadium, Dissolved	**0.25J**	ug/L	1.0	1	10/04/13 15:35	10/10/13 21:28	7440-62-2	B
Zinc, Dissolved	**1580**	ug/L	10.0	1	10/04/13 15:35	10/10/13 21:28	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1	Preparation Method: EPA 245.1						
Mercury	ND	ug/L	0.20	1	10/11/13 12:03	10/14/13 14:22	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1	Preparation Method: EPA 245.1						
Mercury, Dissolved	ND	ug/L	0.20	1	10/11/13 15:54	10/14/13 15:14	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1	Preparation Method: EPA 245.1						
Mercury, Dissolved	ND	ug/L	0.20	1	10/08/13 16:00	10/08/13 10:30	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**1280**	umhos/cm	10.0	1		10/09/13 11:04		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

Sample: DR-6_20130927 **Lab ID: 60154287009** Collected: 09/27/13 11:21 Received: 09/28/13 09:25 Matrix: Water

Comments: • All reported results confirmed for total vs. dissolved metals (Ni)

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**821**	mg/L	6.4	1		10/09/13 12:00		
Salinity (as seawater)	**0.64**	PSU	0.014	1		10/09/13 12:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**144**	mg/L	20.0	1		10/04/13 11:25		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		10/04/13 11:25		
Alkalinity, Total as CaCO3	**144**	mg/L	20.0	1		10/04/13 11:25		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1170**	mg/L	5.0	1		10/03/13 11:15		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**12.0**	mg/L	5.0	1		10/04/13 10:53		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		10/04/13 14:48	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	ND	mg/L	1.0	1		10/11/13 11:32	16887-00-6	
Sulfate	**774**	mg/L	50.0	50		10/11/13 11:47	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		10/07/13 16:54		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		10/02/13 16:13	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	0.50	1		10/10/13 20:31	7440-44-0	

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ANALYTICAL RESULTS

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

Sample: DR-11_20130927 **Lab ID: 60154287010** Collected: 09/27/13 11:23 Received: 09/28/13 09:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**249000**	ug/L	100	1	10/04/13 15:35	10/07/13 17:42	7440-70-2	
Magnesium, Dissolved	**25500**	ug/L	50.0	1	10/04/13 15:35	10/07/13 17:42	7439-95-4	
Potassium, Dissolved	**4480**	ug/L	500	1	10/04/13 15:35	10/07/13 17:42	7440-09-7	
Sodium, Dissolved	**15600**	ug/L	500	1	10/04/13 15:35	10/07/13 17:42	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**127**	ug/L	4.0	1	10/11/13 08:50	10/17/13 19:53	7429-90-5	
Antimony	ND	ug/L	0.50	1	10/11/13 08:50	10/17/13 19:53	7440-36-0	
Arsenic	ND	ug/L	0.50	1	10/11/13 08:50	10/17/13 19:53	7440-38-2	
Barium	**18.9**	ug/L	0.30	1	10/11/13 08:50	10/17/13 19:53	7440-39-3	
Beryllium	ND	ug/L	0.20	1	10/11/13 08:50	10/17/13 19:53	7440-41-7	
Cadmium	**8.9**	ug/L	0.080	1	10/11/13 08:50	10/17/13 19:53	7440-43-9	
Calcium	**260000**	ug/L	400	20	10/11/13 08:50	10/17/13 19:58	7440-70-2	
Chromium	ND	ug/L	0.50	1	10/11/13 08:50	10/17/13 19:53	7440-47-3	
Cobalt	**1.1**	ug/L	0.50	1	10/11/13 08:50	10/17/13 19:53	7440-48-4	
Copper	**3.9**	ug/L	0.50	1	10/11/13 08:50	10/17/13 19:53	7440-50-8	
Iron	**344**	ug/L	50.0	1	10/11/13 08:50	10/17/13 19:53	7439-89-6	
Lead	**0.57**	ug/L	0.10	1	10/11/13 08:50	10/17/13 19:53	7439-92-1	
Magnesium	**27100**	ug/L	100	20	10/11/13 08:50	10/17/13 19:58	7439-95-4	
Manganese	**1200**	ug/L	10.0	20	10/11/13 08:50	10/17/13 19:58	7439-96-5	
Molybdenum	**12.6**	ug/L	0.50	1	10/11/13 08:50	10/17/13 19:53	7439-98-7	
Nickel	**3.3**	ug/L	0.50	1	10/11/13 08:50	10/17/13 19:53	7440-02-0	
Potassium	**4690**	ug/L	20.0	1	10/11/13 08:50	10/17/13 19:53	7440-09-7	
Selenium	ND	ug/L	0.50	1	10/11/13 08:50	10/17/13 19:53	7782-49-2	
Silica	**18100**	ug/L	1070	20	10/11/13 08:50	10/17/13 19:58	7631-86-9	
Silver	ND	ug/L	0.50	1	10/11/13 08:50	10/17/13 19:53	7440-22-4	
Sodium	**19100**	ug/L	50.0	1	10/11/13 08:50	10/17/13 19:53	7440-23-5	
Thallium	ND	ug/L	0.10	1	10/11/13 08:50	10/17/13 19:53	7440-28-0	
Total Hardness by 2340B	**761000**	ug/L	1420	20	10/11/13 08:50	10/17/13 19:58		
Vanadium	ND	ug/L	0.10	1	10/11/13 08:50	10/17/13 19:53	7440-62-2	
Zinc	**1870**	ug/L	100	20	10/11/13 08:50	10/17/13 19:58	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**12.1**	ug/L	4.0	1	10/13/13 11:52	10/23/13 14:35	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	10/13/13 11:52	10/22/13 10:51	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	10/13/13 11:52	10/22/13 10:51	7440-38-2	
Barium, Dissolved	**20.4**	ug/L	0.30	1	10/13/13 11:52	10/22/13 10:51	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	10/13/13 11:52	10/22/13 10:51	7440-41-7	
Cadmium, Dissolved	**8.6**	ug/L	0.080	1	10/13/13 11:52	10/22/13 10:51	7440-43-9	
Calcium, Dissolved	**288000**	ug/L	1000	50	10/13/13 11:52	10/22/13 10:56	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	10/13/13 11:52	10/22/13 10:51	7440-47-3	
Cobalt, Dissolved	**1.1**	ug/L	0.50	1	10/13/13 11:52	10/22/13 10:51	7440-48-4	
Copper, Dissolved	**1.7**	ug/L	0.50	1	10/13/13 11:52	10/22/13 10:51	7440-50-8	
Iron, Dissolved	**92.0**	ug/L	50.0	1	10/13/13 11:52	10/22/13 10:51	7439-89-6	
Lead, Dissolved	**0.21**	ug/L	0.10	1	10/13/13 11:52	10/22/13 10:51	7439-92-1	
Magnesium, Dissolved	**28200**	ug/L	250	50	10/13/13 11:52	10/22/13 10:56	7439-95-4	

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ANALYTICAL RESULTS

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

Sample: DR-11_20130927 **Lab ID: 60154287010** Collected: 09/27/13 11:23 Received: 09/28/13 09:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	**1240**	ug/L	25.0	50	10/13/13 11:52	10/22/13 10:56	7439-96-5	
Molybdenum, Dissolved	**13.0**	ug/L	0.50	1	10/13/13 11:52	10/22/13 10:51	7439-98-7	
Nickel, Dissolved	**3.9**	ug/L	0.50	1	10/13/13 11:52	10/22/13 10:51	7440-02-0	
Potassium, Dissolved	**4660**	ug/L	20.0	1	10/13/13 11:52	10/22/13 10:51	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	10/13/13 11:52	10/22/13 10:51	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	10/13/13 11:52	10/22/13 10:51	7440-22-4	
Sodium, Dissolved	**18400**	ug/L	50.0	1	10/13/13 11:52	10/22/13 10:51	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	10/13/13 11:52	10/22/13 10:51	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	10/13/13 11:52	10/22/13 10:51	7440-62-2	
Zinc, Dissolved	**1910**	ug/L	250	50	10/13/13 11:52	10/22/13 10:56	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**16.9J**	ug/L	50.0	1	10/04/13 15:35	10/14/13 11:48	7429-90-5	
Antimony, Dissolved	**0.39J**	ug/L	1.0	1	10/04/13 15:35	10/10/13 21:32	7440-36-0	B
Arsenic, Dissolved	**0.26J**	ug/L	1.0	1	10/04/13 15:35	10/10/13 21:32	7440-38-2	
Barium, Dissolved	**18.2**	ug/L	1.0	1	10/04/13 15:35	10/10/13 21:32	7440-39-3	
Beryllium, Dissolved	**0.053J**	ug/L	0.50	1	10/04/13 15:35	10/14/13 11:48	7440-41-7	
Cadmium, Dissolved	**8.4**	ug/L	0.50	1	10/04/13 15:35	10/10/13 21:32	7440-43-9	
Chromium, Dissolved	**0.51J**	ug/L	1.0	1	10/04/13 15:35	10/10/13 21:32	7440-47-3	B
Cobalt, Dissolved	**1.1**	ug/L	1.0	1	10/04/13 15:35	10/10/13 21:32	7440-48-4	B
Copper, Dissolved	**3.8**	ug/L	1.0	1	10/04/13 15:35	10/10/13 21:32	7440-50-8	B
Iron, Dissolved	**330**	ug/L	50.0	1	10/04/13 15:35	10/10/13 21:32	7439-89-6	
Lead, Dissolved	**0.55J**	ug/L	1.0	1	10/04/13 15:35	10/10/13 21:32	7439-92-1	
Manganese, Dissolved	**1150**	ug/L	1.0	1	10/04/13 15:35	10/14/13 11:48	7439-96-5	M1
Molybdenum, Dissolved	**12.1**	ug/L	1.0	1	10/04/13 15:35	10/14/13 11:48	7439-98-7	
Nickel, Dissolved	**1.8**	ug/L	1.0	1	10/04/13 15:35	10/10/13 21:32	7440-02-0	B
Selenium, Dissolved	**0.42J**	ug/L	1.0	1	10/04/13 15:35	10/10/13 21:32	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	10/04/13 15:35	10/10/13 21:32	7440-22-4	
Thallium, Dissolved	**0.041J**	ug/L	1.0	1	10/04/13 15:35	10/10/13 21:32	7440-28-0	
Vanadium, Dissolved	**0.22J**	ug/L	1.0	1	10/04/13 15:35	10/10/13 21:32	7440-62-2	B
Zinc, Dissolved	**1560**	ug/L	10.0	1	10/04/13 15:35	10/10/13 21:32	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	10/11/13 12:03	10/14/13 14:24	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	10/11/13 15:54	10/14/13 15:16	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	10/08/13 16:00	10/08/13 10:33	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**1270**	umhos/cm	10.0	1		10/09/13 11:05		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**815**	mg/L	6.4	1		10/09/13 12:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

Sample: DR-11_20130927 **Lab ID: 60154287010** Collected: 09/27/13 11:23 Received: 09/28/13 09:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.63**	PSU	0.014	1		10/09/13 12:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**141**	mg/L	20.0	1		10/04/13 11:29		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		10/04/13 11:29		
Alkalinity, Total as CaCO3	**141**	mg/L	20.0	1		10/04/13 11:29		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1150**	mg/L	5.0	1		10/03/13 11:16		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**11.0**	mg/L	5.0	1		10/04/13 10:33		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		10/04/13 14:50	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	ND	mg/L	1.0	1		10/11/13 12:02	16887-00-6	
Sulfate	**671**	mg/L	50.0	50		10/11/13 12:17	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		10/07/13 16:55		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	**0.0051**	mg/L	0.0050	1		10/02/13 16:16	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	0.50	1		10/10/13 20:50	7440-44-0	

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ANALYTICAL RESULTS

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

Sample: GW-7_20130927 **Lab ID: 60154287011** Collected: 09/27/13 10:01 Received: 09/28/13 09:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**380000**	ug/L	100	1	10/04/13 15:35	10/07/13 17:45	7440-70-2	
Magnesium, Dissolved	**55400**	ug/L	100	2	10/04/13 15:35	10/09/13 16:29	7439-95-4	
Potassium, Dissolved	**3280**	ug/L	500	1	10/04/13 15:35	10/07/13 17:45	7440-09-7	
Sodium, Dissolved	**13000**	ug/L	500	1	10/04/13 15:35	10/07/13 17:45	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**104000**	ug/L	80.0	20	10/11/13 08:50	10/17/13 20:09	7429-90-5	M1
Antimony	ND	ug/L	0.50	1	10/11/13 08:50	10/17/13 20:03	7440-36-0	M1
Arsenic	**80.4**	ug/L	0.50	1	10/11/13 08:50	10/17/13 20:03	7440-38-2	
Barium	**2440**	ug/L	6.0	20	10/11/13 08:50	10/17/13 20:09	7440-39-3	M1
Beryllium	**6.0**	ug/L	0.20	1	10/11/13 08:50	10/17/13 20:03	7440-41-7	
Cadmium	**64.0**	ug/L	0.080	1	10/11/13 08:50	10/17/13 20:03	7440-43-9	
Calcium	**414000**	ug/L	400	20	10/11/13 08:50	10/17/13 20:09	7440-70-2	M1
Chromium	**83.9**	ug/L	0.50	1	10/11/13 08:50	10/17/13 20:03	7440-47-3	
Cobalt	**123**	ug/L	0.50	1	10/11/13 08:50	10/17/13 20:03	7440-48-4	
Copper	**991**	ug/L	10.0	20	10/11/13 08:50	10/17/13 20:09	7440-50-8	
Iron	**175000**	ug/L	1000	20	10/11/13 08:50	10/17/13 20:09	7439-89-6	M1
Lead	**2370**	ug/L	2.0	20	10/11/13 08:50	10/17/13 20:09	7439-92-1	M1
Magnesium	**102000**	ug/L	100	20	10/11/13 08:50	10/17/13 20:09	7439-95-4	
Manganese	**38000**	ug/L	100	200	10/11/13 08:50	10/21/13 09:15	7439-96-5	M1
Molybdenum	**15.2**	ug/L	0.50	1	10/11/13 08:50	10/17/13 20:03	7439-98-7	
Nickel	**193**	ug/L	0.50	1	10/11/13 08:50	10/17/13 20:03	7440-02-0	M1
Potassium	**12400**	ug/L	20.0	1	10/11/13 08:50	10/17/13 20:03	7440-09-7	M1
Selenium	**12.2**	ug/L	0.50	1	10/11/13 08:50	10/17/13 20:03	7782-49-2	
Silica	**241000**	ug/L	10700	200	10/11/13 08:50	10/21/13 09:15	7631-86-9	
Silver	**11.1**	ug/L	0.50	1	10/11/13 08:50	10/17/13 20:03	7440-22-4	
Sodium	**15200**	ug/L	50.0	1	10/11/13 08:50	10/17/13 20:03	7440-23-5	M1
Thallium	**2.4**	ug/L	2.0	20	10/11/13 08:50	10/17/13 20:09	7440-28-0	
Total Hardness by 2340B	**1460000**	ug/L	1420	20	10/11/13 08:50	10/17/13 20:09		
Vanadium	**166**	ug/L	0.10	1	10/11/13 08:50	10/17/13 20:03	7440-62-2	M1
Zinc	**8720**	ug/L	100	20	10/11/13 08:50	10/17/13 20:09	7440-66-6	M1
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**11300**	ug/L	4.0	1	10/13/13 11:52	10/22/13 11:01	7429-90-5	M6
Antimony, Dissolved	**0.65**	ug/L	0.50	1	10/13/13 11:52	10/22/13 11:01	7440-36-0	
Arsenic, Dissolved	**6.0**	ug/L	0.50	1	10/13/13 11:52	10/22/13 11:01	7440-38-2	
Barium, Dissolved	**462**	ug/L	15.0	50	10/13/13 11:52	10/22/13 11:06	7440-39-3	M6
Beryllium, Dissolved	**0.84**	ug/L	0.20	1	10/13/13 11:52	10/22/13 11:01	7440-41-7	
Cadmium, Dissolved	**34.2**	ug/L	0.080	1	10/13/13 11:52	10/22/13 11:01	7440-43-9	
Calcium, Dissolved	**311000**	ug/L	1000	50	10/13/13 11:52	10/22/13 11:06	7440-70-2	M6
Chromium, Dissolved	**7.8**	ug/L	0.50	1	10/13/13 11:52	10/22/13 11:01	7440-47-3	
Cobalt, Dissolved	**63.4**	ug/L	0.50	1	10/13/13 11:52	10/22/13 11:01	7440-48-4	
Copper, Dissolved	**57.6**	ug/L	0.50	1	10/13/13 11:52	10/22/13 11:01	7440-50-8	
Iron, Dissolved	**12500**	ug/L	50.0	1	10/13/13 11:52	10/22/13 11:01	7439-89-6	M6
Lead, Dissolved	**131**	ug/L	0.10	1	10/13/13 11:52	10/22/13 11:01	7439-92-1	
Magnesium, Dissolved	**66500**	ug/L	250	50	10/13/13 11:52	10/22/13 11:06	7439-95-4	

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ANALYTICAL RESULTS

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

Sample: GW-7_20130927 **Lab ID: 60154287011** Collected: 09/27/13 10:01 Received: 09/28/13 09:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	**21500**	ug/L	25.0	50	10/13/13 11:52	10/22/13 11:06	7439-96-5	M6
Molybdenum, Dissolved	**4.6**	ug/L	0.50	1	10/13/13 11:52	10/22/13 11:01	7439-98-7	
Nickel, Dissolved	**75.6**	ug/L	0.50	1	10/13/13 11:52	10/22/13 11:01	7440-02-0	
Potassium, Dissolved	**3610**	ug/L	20.0	1	10/13/13 11:52	10/22/13 11:01	7440-09-7	M6
Selenium, Dissolved	**1.8**	ug/L	0.50	1	10/13/13 11:52	10/22/13 11:01	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	10/13/13 11:52	10/22/13 11:01	7440-22-4	
Sodium, Dissolved	**15100**	ug/L	50.0	1	10/13/13 11:52	10/22/13 11:01	7440-23-5	M6
Thallium, Dissolved	**0.26**	ug/L	0.10	1	10/13/13 11:52	10/22/13 11:01	7440-28-0	
Vanadium, Dissolved	**17.5**	ug/L	0.10	1	10/13/13 11:52	10/22/13 11:01	7440-62-2	
Zinc, Dissolved	**3970**	ug/L	250	50	10/13/13 11:52	10/22/13 11:06	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**17700**	ug/L	50.0	1	10/04/13 15:35	10/14/13 12:33	7429-90-5	
Antimony, Dissolved	**0.76J**	ug/L	1.0	1	10/04/13 15:35	10/10/13 22:47	7440-36-0	B
Arsenic, Dissolved	**6.2**	ug/L	1.0	1	10/04/13 15:35	10/10/13 22:47	7440-38-2	
Barium, Dissolved	**216**	ug/L	1.0	1	10/04/13 15:35	10/10/13 22:47	7440-39-3	
Beryllium, Dissolved	**3.7**	ug/L	0.50	1	10/04/13 15:35	10/14/13 12:33	7440-41-7	
Cadmium, Dissolved	**54.5**	ug/L	0.50	1	10/04/13 15:35	10/10/13 22:47	7440-43-9	
Chromium, Dissolved	**9.1**	ug/L	1.0	1	10/04/13 15:35	10/10/13 22:47	7440-47-3	
Cobalt, Dissolved	**79.6**	ug/L	1.0	1	10/04/13 15:35	10/10/13 22:47	7440-48-4	
Copper, Dissolved	**484**	ug/L	1.0	1	10/04/13 15:35	10/10/13 22:47	7440-50-8	
Iron, Dissolved	**28600**	ug/L	50.0	1	10/04/13 15:35	10/10/13 22:47	7439-89-6	
Lead, Dissolved	**747**	ug/L	1.0	1	10/04/13 15:35	10/10/13 22:47	7439-92-1	
Manganese, Dissolved	**30200**	ug/L	20.0	20	10/04/13 15:35	10/14/13 12:37	7439-96-5	
Molybdenum, Dissolved	**2.0**	ug/L	1.0	1	10/04/13 15:35	10/14/13 12:33	7439-98-7	
Nickel, Dissolved	**96.6**	ug/L	1.0	1	10/04/13 15:35	10/10/13 22:47	7440-02-0	
Selenium, Dissolved	**12.4**	ug/L	1.0	1	10/04/13 15:35	10/10/13 22:47	7782-49-2	
Silver, Dissolved	**0.70**	ug/L	0.50	1	10/04/13 15:35	10/10/13 22:47	7440-22-4	
Thallium, Dissolved	**0.18J**	ug/L	1.0	1	10/04/13 15:35	10/10/13 22:47	7440-28-0	
Vanadium, Dissolved	**25.8**	ug/L	1.0	1	10/04/13 15:35	10/10/13 22:47	7440-62-2	
Zinc, Dissolved	**5230**	ug/L	10.0	1	10/04/13 15:35	10/10/13 22:47	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	**0.42**	ug/L	0.20	1	10/11/13 12:03	10/14/13 14:27	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	10/11/13 15:54	10/14/13 15:18	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	10/08/13 16:00	10/08/13 10:35	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**1530**	umhos/cm	10.0	1		10/09/13 11:07		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**977**	mg/L	6.4	1		10/09/13 12:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

Sample: GW-7_20130927 **Lab ID: 60154287011** Collected: 09/27/13 10:01 Received: 09/28/13 09:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.76**	PSU	0.014	1		10/09/13 12:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**163**	mg/L	20.0	1		10/04/13 11:33		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		10/04/13 11:33		
Alkalinity, Total as CaCO3	**163**	mg/L	20.0	1		10/04/13 11:33		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1440**	mg/L	5.0	1		10/03/13 11:17		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**2700**	mg/L	5.0	1		10/04/13 10:33		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		10/04/13 14:51	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**2.9**	mg/L	1.0	1		10/12/13 20:02	16887-00-6	
Sulfate	**805**	mg/L	50.0	50		10/12/13 18:31	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**0.19**	mg/L	0.10	1		10/07/13 16:56		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		10/02/13 16:17	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**2.4**	mg/L	0.50	1		10/10/13 21:09	7440-44-0	

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ANALYTICAL RESULTS

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

Sample: MW-6 SHALLOW_20130927 **Lab ID: 60154287012** Collected: 09/27/13 10:06 Received: 09/28/13 09:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**376000**	ug/L	100	1	10/04/13 15:35	10/07/13 17:47	7440-70-2	
Magnesium, Dissolved	**56100**	ug/L	50.0	1	10/04/13 15:35	10/07/13 17:47	7439-95-4	
Potassium, Dissolved	**12500**	ug/L	500	1	10/04/13 15:35	10/07/13 17:47	7440-09-7	
Sodium, Dissolved	**4160**	ug/L	500	1	10/04/13 15:35	10/07/13 17:47	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**35700**	ug/L	80.0	20	10/11/13 08:50	10/17/13 20:42	7429-90-5	
Antimony	**1.2**	ug/L	0.50	1	10/11/13 08:50	10/17/13 20:37	7440-36-0	
Arsenic	**157**	ug/L	0.50	1	10/11/13 08:50	10/17/13 20:37	7440-38-2	
Barium	**238**	ug/L	0.30	1	10/11/13 08:50	10/17/13 20:37	7440-39-3	
Beryllium	**2.4**	ug/L	0.20	1	10/11/13 08:50	10/17/13 20:37	7440-41-7	
Cadmium	**21.1**	ug/L	0.080	1	10/11/13 08:50	10/17/13 20:37	7440-43-9	
Calcium	**390000**	ug/L	400	20	10/11/13 08:50	10/17/13 20:42	7440-70-2	
Chromium	**28.8**	ug/L	0.50	1	10/11/13 08:50	10/17/13 20:37	7440-47-3	
Cobalt	**23.8**	ug/L	0.50	1	10/11/13 08:50	10/17/13 20:37	7440-48-4	
Copper	**159**	ug/L	0.50	1	10/11/13 08:50	10/17/13 20:37	7440-50-8	
Iron	**91600**	ug/L	1000	20	10/11/13 08:50	10/17/13 20:42	7439-89-6	
Lead	**283**	ug/L	0.10	1	10/11/13 08:50	10/17/13 20:37	7439-92-1	
Magnesium	**71900**	ug/L	100	20	10/11/13 08:50	10/17/13 20:42	7439-95-4	
Manganese	**8010**	ug/L	10.0	20	10/11/13 08:50	10/17/13 20:42	7439-96-5	
Molybdenum	**13.0**	ug/L	0.50	1	10/11/13 08:50	10/17/13 20:37	7439-98-7	
Nickel	**47.0**	ug/L	0.50	1	10/11/13 08:50	10/17/13 20:37	7440-02-0	
Potassium	**16300**	ug/L	20.0	1	10/11/13 08:50	10/17/13 20:37	7440-09-7	
Selenium	**10.6**	ug/L	0.50	1	10/11/13 08:50	10/17/13 20:37	7782-49-2	
Silica	**137000**	ug/L	5350	100	10/11/13 08:50	10/21/13 09:20	7631-86-9	
Silver	**2.4**	ug/L	0.50	1	10/11/13 08:50	10/17/13 20:37	7440-22-4	
Sodium	**4270**	ug/L	50.0	1	10/11/13 08:50	10/17/13 20:37	7440-23-5	
Thallium	**0.85**	ug/L	0.10	1	10/11/13 08:50	10/17/13 20:37	7440-28-0	
Total Hardness by 2340B	**1270000**	ug/L	1420	20	10/11/13 08:50	10/17/13 20:42		
Vanadium	**43.2**	ug/L	0.10	1	10/11/13 08:50	10/17/13 20:37	7440-62-2	
Zinc	**6130**	ug/L	100	20	10/11/13 08:50	10/17/13 20:42	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**960**	ug/L	4.0	1	10/13/13 11:52	10/22/13 11:11	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	10/13/13 11:52	10/22/13 11:11	7440-36-0	
Arsenic, Dissolved	**36.3**	ug/L	0.50	1	10/13/13 11:52	10/22/13 11:11	7440-38-2	
Barium, Dissolved	**19.7**	ug/L	0.30	1	10/13/13 11:52	10/22/13 11:11	7440-39-3	
Beryllium, Dissolved	**0.96**	ug/L	0.20	1	10/13/13 11:52	10/22/13 11:11	7440-41-7	
Cadmium, Dissolved	**0.82**	ug/L	0.080	1	10/13/13 11:52	10/22/13 11:11	7440-43-9	
Calcium, Dissolved	**435000**	ug/L	1000	50	10/13/13 11:52	10/22/13 11:16	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	10/13/13 11:52	10/22/13 11:11	7440-47-3	
Cobalt, Dissolved	**3.7**	ug/L	0.50	1	10/13/13 11:52	10/22/13 11:11	7440-48-4	
Copper, Dissolved	**0.96**	ug/L	0.50	1	10/13/13 11:52	10/22/13 11:11	7440-50-8	
Iron, Dissolved	**45300**	ug/L	2500	50	10/13/13 11:52	10/22/13 11:16	7439-89-6	
Lead, Dissolved	**0.47**	ug/L	0.10	1	10/13/13 11:52	10/22/13 11:11	7439-92-1	
Magnesium, Dissolved	**60200**	ug/L	250	50	10/13/13 11:52	10/22/13 11:16	7439-95-4	

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ANALYTICAL RESULTS

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

Sample: MW-6 SHALLOW_20130927 **Lab ID: 60154287012** Collected: 09/27/13 10:06 Received: 09/28/13 09:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	**7980**	ug/L	25.0	50	10/13/13 11:52	10/22/13 11:16	7439-96-5	
Molybdenum, Dissolved	**4.3**	ug/L	0.50	1	10/13/13 11:52	10/22/13 11:11	7439-98-7	
Nickel, Dissolved	**5.4**	ug/L	0.50	1	10/13/13 11:52	10/22/13 11:11	7440-02-0	
Potassium, Dissolved	**13000**	ug/L	20.0	1	10/13/13 11:52	10/22/13 11:11	7440-09-7	
Selenium, Dissolved	**8.9**	ug/L	0.50	1	10/13/13 11:52	10/22/13 11:11	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	10/13/13 11:52	10/22/13 11:11	7440-22-4	
Sodium, Dissolved	**4180**	ug/L	50.0	1	10/13/13 11:52	10/22/13 11:11	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	10/13/13 11:52	10/22/13 11:11	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	10/13/13 11:52	10/22/13 11:11	7440-62-2	
Zinc, Dissolved	**1110**	ug/L	250	50	10/13/13 11:52	10/22/13 11:16	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**6040**	ug/L	50.0	1	10/04/13 15:35	10/14/13 12:41	7429-90-5	
Antimony, Dissolved	**0.41J**	ug/L	1.0	1	10/04/13 15:35	10/10/13 22:55	7440-36-0	B
Arsenic, Dissolved	**64.9**	ug/L	1.0	1	10/04/13 15:35	10/10/13 22:55	7440-38-2	
Barium, Dissolved	**30.7**	ug/L	1.0	1	10/04/13 15:35	10/10/13 22:55	7440-39-3	
Beryllium, Dissolved	**1.1**	ug/L	0.50	1	10/04/13 15:35	10/14/13 12:41	7440-41-7	
Cadmium, Dissolved	**6.8**	ug/L	0.50	1	10/04/13 15:35	10/10/13 22:55	7440-43-9	
Chromium, Dissolved	**5.0**	ug/L	1.0	1	10/04/13 15:35	10/10/13 22:55	7440-47-3	
Cobalt, Dissolved	**7.8**	ug/L	1.0	1	10/04/13 15:35	10/10/13 22:55	7440-48-4	
Copper, Dissolved	**34.8**	ug/L	1.0	1	10/04/13 15:35	10/10/13 22:55	7440-50-8	
Iron, Dissolved	**53700**	ug/L	50.0	1	10/04/13 15:35	10/10/13 22:55	7439-89-6	
Lead, Dissolved	**117**	ug/L	1.0	1	10/04/13 15:35	10/10/13 22:55	7439-92-1	
Manganese, Dissolved	**7270**	ug/L	1.0	1	10/04/13 15:35	10/14/13 12:41	7439-96-5	M1
Molybdenum, Dissolved	**3.2**	ug/L	1.0	1	10/04/13 15:35	10/14/13 12:41	7439-98-7	
Nickel, Dissolved	**11.0**	ug/L	1.0	1	10/04/13 15:35	10/10/13 22:55	7440-02-0	
Selenium, Dissolved	**9.6**	ug/L	1.0	1	10/04/13 15:35	10/10/13 22:55	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	10/04/13 15:35	10/10/13 22:55	7440-22-4	
Thallium, Dissolved	**0.24J**	ug/L	1.0	1	10/04/13 15:35	10/10/13 22:55	7440-28-0	
Vanadium, Dissolved	**5.9**	ug/L	1.0	1	10/04/13 15:35	10/10/13 22:55	7440-62-2	
Zinc, Dissolved	**2180**	ug/L	10.0	1	10/04/13 15:35	10/10/13 22:55	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	10/11/13 12:03	10/14/13 14:29	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	10/11/13 15:54	10/14/13 15:20	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	10/08/13 16:00	10/08/13 10:37	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**1850**	umhos/cm	10.0	1		10/09/13 11:10		

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ANALYTICAL RESULTS

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

Sample: MW-6 SHALLOW_20130927 **Lab ID: 60154287012** Collected: 09/27/13 10:06 Received: 09/28/13 09:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**1180**	mg/L	6.4	1		10/09/13 12:00		
Salinity (as seawater)	**0.94**	PSU	0.014	1		10/09/13 12:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**111**	mg/L	20.0	1		10/04/13 11:38		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		10/04/13 11:38		
Alkalinity, Total as CaCO3	**111**	mg/L	20.0	1		10/04/13 11:38		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1810**	mg/L	5.0	1		10/03/13 11:17		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**245**	mg/L	5.0	1		10/04/13 10:34		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		10/04/13 14:51	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.4**	mg/L	1.0	1		10/11/13 13:03	16887-00-6	
Sulfate	**1280**	mg/L	100	100		10/11/13 13:18	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		10/07/13 16:56		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		10/02/13 16:17	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.1**	mg/L	0.50	1		10/10/13 21:27	7440-44-0	

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ANALYTICAL RESULTS

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

Sample: GW-4_20130927 **Lab ID: 60154287013** Collected: 09/27/13 11:13 Received: 09/28/13 09:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**264000**	ug/L	100	1	10/04/13 15:35	10/07/13 17:49	7440-70-2	M1
Magnesium, Dissolved	**34000**	ug/L	50.0	1	10/04/13 15:35	10/07/13 17:49	7439-95-4	
Potassium, Dissolved	**6620**	ug/L	500	1	10/04/13 15:35	10/07/13 17:49	7440-09-7	
Sodium, Dissolved	**8880**	ug/L	500	1	10/04/13 15:35	10/07/13 17:49	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**51000**	ug/L	80.0	20	10/11/13 08:50	10/17/13 20:53	7429-90-5	
Antimony	**0.95**	ug/L	0.50	1	10/11/13 08:50	10/17/13 20:47	7440-36-0	
Arsenic	**44.5**	ug/L	0.50	1	10/11/13 08:50	10/17/13 20:47	7440-38-2	
Barium	**964**	ug/L	6.0	20	10/11/13 08:50	10/17/13 20:53	7440-39-3	
Beryllium	**2.8**	ug/L	0.20	1	10/11/13 08:50	10/17/13 20:47	7440-41-7	
Cadmium	**9.6**	ug/L	0.080	1	10/11/13 08:50	10/17/13 20:47	7440-43-9	
Calcium	**264000**	ug/L	400	20	10/11/13 08:50	10/17/13 20:53	7440-70-2	
Chromium	**83.3**	ug/L	0.50	1	10/11/13 08:50	10/17/13 20:47	7440-47-3	
Cobalt	**31.8**	ug/L	0.50	1	10/11/13 08:50	10/17/13 20:47	7440-48-4	
Copper	**243**	ug/L	0.50	1	10/11/13 08:50	10/17/13 20:47	7440-50-8	
Iron	**114000**	ug/L	1000	20	10/11/13 08:50	10/17/13 20:53	7439-89-6	
Lead	**262**	ug/L	2.0	20	10/11/13 08:50	10/17/13 20:53	7439-92-1	
Magnesium	**65100**	ug/L	100	20	10/11/13 08:50	10/17/13 20:53	7439-95-4	
Manganese	**2260**	ug/L	10.0	20	10/11/13 08:50	10/17/13 20:53	7439-96-5	
Molybdenum	**30.9**	ug/L	0.50	1	10/11/13 08:50	10/17/13 20:47	7439-98-7	
Nickel	**64.5**	ug/L	0.50	1	10/11/13 08:50	10/17/13 20:47	7440-02-0	
Potassium	**11200**	ug/L	20.0	1	10/11/13 08:50	10/17/13 20:47	7440-09-7	
Selenium	**3.4**	ug/L	0.50	1	10/11/13 08:50	10/17/13 20:47	7782-49-2	
Silica	**154000**	ug/L	5350	100	10/11/13 08:50	10/21/13 09:25	7631-86-9	
Silver	**6.0**	ug/L	0.50	1	10/11/13 08:50	10/17/13 20:47	7440-22-4	
Sodium	**11500**	ug/L	50.0	1	10/11/13 08:50	10/17/13 20:47	7440-23-5	
Thallium	ND	ug/L	2.0	20	10/11/13 08:50	10/17/13 20:53	7440-28-0	D3
Total Hardness by 2340B	**927000**	ug/L	1420	20	10/11/13 08:50	10/17/13 20:53		
Vanadium	**113**	ug/L	0.10	1	10/11/13 08:50	10/17/13 20:47	7440-62-2	
Zinc	**1510**	ug/L	100	20	10/11/13 08:50	10/17/13 20:53	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**132**	ug/L	4.0	1	10/13/13 11:52	10/22/13 11:21	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	10/13/13 11:52	10/22/13 11:21	7440-36-0	
Arsenic, Dissolved	**0.83**	ug/L	0.50	1	10/13/13 11:52	10/22/13 11:21	7440-38-2	
Barium, Dissolved	**54.0**	ug/L	0.30	1	10/13/13 11:52	10/22/13 11:21	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	10/13/13 11:52	10/22/13 11:21	7440-41-7	
Cadmium, Dissolved	**0.34**	ug/L	0.080	1	10/13/13 11:52	10/22/13 11:21	7440-43-9	
Calcium, Dissolved	**272000**	ug/L	1000	50	10/13/13 11:52	10/22/13 11:26	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	10/13/13 11:52	10/22/13 11:21	7440-47-3	
Cobalt, Dissolved	**1.8**	ug/L	0.50	1	10/13/13 11:52	10/22/13 11:21	7440-48-4	
Copper, Dissolved	**1.1**	ug/L	0.50	1	10/13/13 11:52	10/22/13 11:21	7440-50-8	
Iron, Dissolved	**550**	ug/L	50.0	1	10/13/13 11:52	10/22/13 11:21	7439-89-6	
Lead, Dissolved	**0.55**	ug/L	0.10	1	10/13/13 11:52	10/22/13 11:21	7439-92-1	
Magnesium, Dissolved	**31500**	ug/L	250	50	10/13/13 11:52	10/22/13 11:26	7439-95-4	

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ANALYTICAL RESULTS

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

Sample: GW-4_20130927 **Lab ID: 60154287013** Collected: 09/27/13 11:13 Received: 09/28/13 09:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	**775**	ug/L	25.0	50	10/13/13 11:52	10/22/13 11:26	7439-96-5	
Molybdenum, Dissolved	**10.7**	ug/L	0.50	1	10/13/13 11:52	10/22/13 11:21	7439-98-7	
Nickel, Dissolved	**4.6**	ug/L	0.50	1	10/13/13 11:52	10/22/13 11:21	7440-02-0	
Potassium, Dissolved	**5420**	ug/L	20.0	1	10/13/13 11:52	10/22/13 11:21	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	10/13/13 11:52	10/22/13 11:21	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	10/13/13 11:52	10/22/13 11:21	7440-22-4	
Sodium, Dissolved	**9940**	ug/L	50.0	1	10/13/13 11:52	10/22/13 11:21	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	10/13/13 11:52	10/22/13 11:21	7440-28-0	
Vanadium, Dissolved	**0.29**	ug/L	0.10	1	10/13/13 11:52	10/22/13 11:21	7440-62-2	
Zinc, Dissolved	**47.0**	ug/L	5.0	1	10/13/13 11:52	10/22/13 11:21	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**10600**	ug/L	50.0	1	10/04/13 15:35	10/14/13 13:08	7429-90-5	
Antimony, Dissolved	**0.49J**	ug/L	1.0	1	10/04/13 15:35	10/10/13 23:12	7440-36-0	B
Arsenic, Dissolved	**11.0**	ug/L	1.0	1	10/04/13 15:35	10/10/13 23:12	7440-38-2	
Barium, Dissolved	**98.1**	ug/L	1.0	1	10/04/13 15:35	10/10/13 23:12	7440-39-3	
Beryllium, Dissolved	**2.4**	ug/L	0.50	1	10/04/13 15:35	10/14/13 13:08	7440-41-7	
Cadmium, Dissolved	**14.9**	ug/L	0.50	1	10/04/13 15:35	10/10/13 23:12	7440-43-9	
Chromium, Dissolved	**29.7**	ug/L	1.0	1	10/04/13 15:35	10/10/13 23:12	7440-47-3	
Cobalt, Dissolved	**19.0**	ug/L	1.0	1	10/04/13 15:35	10/10/13 23:12	7440-48-4	
Copper, Dissolved	**259**	ug/L	1.0	1	10/04/13 15:35	10/10/13 23:12	7440-50-8	
Iron, Dissolved	**54500**	ug/L	50.0	1	10/04/13 15:35	10/10/13 23:12	7439-89-6	
Lead, Dissolved	**313**	ug/L	1.0	1	10/04/13 15:35	10/10/13 23:12	7439-92-1	
Manganese, Dissolved	**2090**	ug/L	1.0	1	10/04/13 15:35	10/14/13 13:08	7439-96-5	
Molybdenum, Dissolved	**6.2**	ug/L	1.0	1	10/04/13 15:35	10/14/13 13:08	7439-98-7	
Nickel, Dissolved	**28.3**	ug/L	1.0	1	10/04/13 15:35	10/10/13 23:12	7440-02-0	
Selenium, Dissolved	**9.0**	ug/L	1.0	1	10/04/13 15:35	10/10/13 23:12	7782-49-2	
Silver, Dissolved	**0.35J**	ug/L	0.50	1	10/04/13 15:35	10/10/13 23:12	7440-22-4	
Thallium, Dissolved	**0.40J**	ug/L	1.0	1	10/04/13 15:35	10/10/13 23:12	7440-28-0	
Vanadium, Dissolved	**33.3**	ug/L	1.0	1	10/04/13 15:35	10/10/13 23:12	7440-62-2	
Zinc, Dissolved	**1350**	ug/L	10.0	1	10/04/13 15:35	10/10/13 23:12	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	**0.45**	ug/L	0.20	1	10/11/13 12:03	10/14/13 14:31	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	10/11/13 15:54	10/14/13 15:22	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	10/08/13 16:00	10/08/13 10:39	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**1310**	umhos/cm	10.0	1		10/09/13 11:35		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**838**	mg/L	6.4	1		10/09/13 12:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

Sample: GW-4_20130927 **Lab ID: 60154287013** Collected: 09/27/13 11:13 Received: 09/28/13 09:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.65**	PSU	0.014	1		10/09/13 12:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**126**	mg/L	20.0	1		10/04/13 11:43		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		10/04/13 11:43		
Alkalinity, Total as CaCO3	**126**	mg/L	20.0	1		10/04/13 11:43		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1100**	mg/L	5.0	1		10/03/13 11:17		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**1490**	mg/L	5.0	1		10/04/13 10:34		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		10/04/13 14:51	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.6**	mg/L	1.0	1		10/11/13 14:04	16887-00-6	
Sulfate	**721**	mg/L	50.0	50		10/11/13 14:19	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		10/07/13 16:57		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		10/02/13 16:20	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**3.5**	mg/L	0.50	1		10/10/13 21:46	7440-44-0	

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November 06, 2013

Mark DeFriez
Anderson Engineering Company I
977 W 2100 S.
Salt Lake City, UT 84119

RE: Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

Dear Mark DeFriez:
Enclosed are the analytical results for sample(s) received by the laboratory on October 02, 2013. The results relate only to the within this report conform to the most current version of the TNI standards, BP LaMP Technical Requirements Revision 10.1, and any applicable Quality Assurance Project Plan (QAPP), or Work Plan unless otherwise narrated in the body of this report.

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

Sincerely,

Heather M. Wilson

Heather Wilson

heather.wilson@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: Pace
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Hawaii Certification #Pace
Idaho Certification #: MN00064
Illinois Certification #: 200011
Kansas Certification #: E-10167
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Maryland Certification #: 322
Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT CERT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia/DCLS Certification #: 002521
Virginia/VELAP Certification #: 460163
Washington Certification #: C754
West Virginia Certification #: 382
Wisconsin Certification #: 999407970

Montana Certification IDs
602 South 25th Street, Billings, MT 59101
EPA Region 8 Certification #: 8TMS-Q
Idaho Certification #: MT00012
Montana Certification #: MT CERT0040
NVLAP Certification #: 101292-0
Minnesota Dept of Health Certification #: 030-999-442
Washington Department of Ecology #: C993

Green Bay Certification IDs
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 11888
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
US Dept of Agriculture #: S-76505
Wisconsin Certification #: 405132750

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: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60154491001	**DR-1_20130930**	Water	09/30/13 15:05	10/02/13 10:00
60154491002	**DR-2_20130930**	Water	09/30/13 13:30	10/02/13 10:00
60154491003	**DR-7_20130930**	Water	09/30/13 12:50	10/02/13 10:00
60154491004	**DR-4-SW_20130930**	Water	09/30/13 11:15	10/02/13 10:00
60154491005	**DR-12_20130930**	Water	09/30/13 15:10	10/02/13 10:00
60154491006	**DR-2 COMPOSITE_20130930**	Water	09/30/13 13:35	10/02/13 10:00
60154491007	**DR-7 COMPOSITE_20130930**	Water	09/30/13 12:55	10/02/13 10:00
60154491008	**DR-4-SW COMPOSITE_20130930**	Water	09/30/13 11:25	10/02/13 10:00

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SAMPLE ANALYTE COUNT

Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60154491001	**DR-1_20130930**	EPA 200.7	SMW	4	PASI-K
		EPA 200.8	TT3	25	PASI-M
		EPA 200.8	TT3	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	
		SM 2320B	JMC1	3	PASI-K
		SM 2540C	RAH	1	PASI-K
		SM 2540D	RAH	1	PASI-K
		SM 4500-S-2 D	OL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	TJJ	1	PASI-G
60154491002	**DR-2_20130930**	EPA 200.7	SMW	4	PASI-K
		EPA 200.8	RB1	25	PASI-M
		EPA 200.8	TT3	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	
		SM 2320B	JMC1	3	PASI-K
		SM 2540C	RAH	1	PASI-K
		SM 2540D	RAH	1	PASI-K
		SM 4500-S-2 D	OL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	TJJ	1	PASI-G
60154491003	**DR-7_20130930**	EPA 200.7	SMW	4	PASI-K
		EPA 200.8	RB1	25	PASI-M
		EPA 200.8	TT3	23	PASI-M

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SAMPLE ANALYTE COUNT

Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	
		SM 2320B	JMC1	3	PASI-K
		SM 2540C	RAH	1	PASI-K
		SM 2540D	RAH	1	PASI-K
		SM 4500-S-2 D	OL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	TJJ	1	PASI-G
60154491004	**DR-4-SW_20130930**	EPA 200.7	SMW	4	PASI-K
		EPA 200.8	RB1	25	PASI-M
		EPA 200.8	TT3	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	
		SM 2320B	JMC1	3	PASI-K
		SM 2540C	RAH	1	PASI-K
		SM 2540D	RAH	1	PASI-K
		SM 4500-S-2 D	OL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	TJJ	1	PASI-G
60154491005	**DR-12_20130930**	EPA 200.7	SMW	4	PASI-K
		EPA 200.8	RB1	25	PASI-M
		EPA 200.8	TT3	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	WBS	1	PASI-M

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SAMPLE ANALYTE COUNT

Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	
		SM 2320B	JMC1	3	PASI-K
		SM 2540C	RAH	1	PASI-K
		SM 2540D	RAH	1	PASI-K
		SM 4500-S-2 D	OL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	TJJ	1	PASI-G
60154491006	**DR-2 COMPOSITE_20130930**	EPA 200.7	SMW	4	PASI-K
		EPA 200.8	RB1, TT3	25	PASI-M
		EPA 200.8	TT3	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	
		SM 2320B	JMC1	3	PASI-K
		SM 2540C	RAH	1	PASI-K
		SM 2540D	RAH	1	PASI-K
		SM 4500-S-2 D	OL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	TJJ	1	PASI-G
60154491007	**DR-7 COMPOSITE_20130930**	EPA 200.7	SMW	4	PASI-K
		EPA 200.8	RB1, TT3	25	PASI-M
		EPA 200.8	TT3	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	

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SAMPLE ANALYTE COUNT

Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2320B	JMC1	3	PASI-K
		SM 2540C	RAH	1	PASI-K
		SM 2540D	RAH	1	PASI-K
		SM 4500-S-2 D	OL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	TJJ	1	PASI-G
60154491008	**DR-4-SW COMPOSITE_20130930**	EPA 200.7	SMW	4	PASI-K
		EPA 200.8	RB1, TT3	25	PASI-M
		EPA 200.8	TT3	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	WBS	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	
		SM 2320B	JMC1	3	PASI-K
		SM 2540C	RAH	1	PASI-K
		SM 2540D	RAH	1	PASI-K
		SM 4500-S-2 D	OL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	TJJ	1	PASI-G

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PROJECT NARRATIVE

Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

Method: **EPA 200.7**
Description: 200.7 Potentially Diss. Metals
Client: BP Anderson Engineering Company Inc.
Date: November 06, 2013

General Information:
8 samples were analyzed for EPA 200.7. 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 200.7 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:

Sample Comments:

All reported results confirmed for total vs. dissolved metals
- DR-1_20130930 (Lab ID: 60154491001)
- DR-2_20130930 (Lab ID: 60154491002)
- DR-7_20130930 (Lab ID: 60154491003)
- DR-12_20130930 (Lab ID: 60154491005)
- DR-2 COMPOSITE_20130930 (Lab ID: 60154491006)
- DR-7 COMPOSITE_20130930 (Lab ID: 60154491007)
- DR-4-SW COMPOSITE_20130930 (Lab ID: 60154491008)

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PROJECT NARRATIVE

Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

Method: **EPA 200.8**
Description: 200.8 MET ICPMS
Client: BP Anderson Engineering Company Inc.
Date: November 06, 2013

General Information:
8 samples were analyzed for EPA 200.8. 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 200.8 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.

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: MPRP/42529

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60154491001,60154717023

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

- MS (Lab ID: 1548042)
  - Aluminum
- MS (Lab ID: 1548044)
  - Aluminum
  - Calcium
  - Iron
  - Lead
  - Magnesium
  - Manganese
  - Potassium
  - Zinc
- MSD (Lab ID: 1548043)
  - Aluminum

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PROJECT NARRATIVE

Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

Method: **EPA 200.8**
Description: 200.8 MET ICPMS
Client: BP Anderson Engineering Company Inc.
Date: November 06, 2013

Additional Comments:

Sample Comments:

All reported results confirmed for total vs. dissolved metals

- DR-1_20130930 (Lab ID: 60154491001)
- DR-2_20130930 (Lab ID: 60154491002)
- DR-7_20130930 (Lab ID: 60154491003)
- DR-12_20130930 (Lab ID: 60154491005)
- DR-2 COMPOSITE_20130930 (Lab ID: 60154491006)
- DR-7 COMPOSITE_20130930 (Lab ID: 60154491007)
- DR-4-SW COMPOSITE_20130930 (Lab ID: 60154491008)

Analyte Comments:

QC Batch: MPRP/42529

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MS (Lab ID: 1548044)
  - Calcium

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PROJECT NARRATIVE

Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

Method: **EPA 200.8**
Description: 200.8 MET ICPMS, Dissolved
Client: BP Anderson Engineering Company Inc.
Date: November 06, 2013

General Information:
8 samples were analyzed for EPA 200.8. 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 200.8 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.

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: MPRP/42527

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60154491001,60154717023

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

- MS (Lab ID: 1548034)
  - Calcium, Dissolved
  - Magnesium, Dissolved
  - Sodium, Dissolved
  - Zinc, Dissolved
- MSD (Lab ID: 1548033)
  - Aluminum, Dissolved
  - Calcium, Dissolved

R1: RPD value was outside control limits.

- MSD (Lab ID: 1548033)
  - Aluminum, Dissolved

Additional Comments:

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PROJECT NARRATIVE

Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

Method: **EPA 200.8**
Description: 200.8 MET ICPMS, Dissolved
Client: BP Anderson Engineering Company Inc.
Date: November 06, 2013

Sample Comments:

All reported results confirmed for total vs. dissolved metals

- DR-1_20130930 (Lab ID: 60154491001)
- DR-2_20130930 (Lab ID: 60154491002)
- DR-7_20130930 (Lab ID: 60154491003)
- DR-12_20130930 (Lab ID: 60154491005)
- DR-2 COMPOSITE_20130930 (Lab ID: 60154491006)
- DR-7 COMPOSITE_20130930 (Lab ID: 60154491007)
- DR-4-SW COMPOSITE_20130930 (Lab ID: 60154491008)

Analyte Comments:

QC Batch: MPRP/42527

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MS (Lab ID: 1548034)
  - Calcium, Dissolved

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PROJECT NARRATIVE

Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

Method: **EPA 200.8**
Description: 200.8 Potentially Diss. Metals
Client: BP Anderson Engineering Company Inc.
Date: November 06, 2013

General Information:
8 samples were analyzed for EPA 200.8. 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 200.8 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.

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

QC Batch: MPRP/24734

B: Analyte was detected in the associated method blank.

- BLANK for HBN 311604 [MPRP/247 (Lab ID: 1271846)
  - Copper, Dissolved
  - Iron, Dissolved
  - Molybdenum, Dissolved
  - Nickel, Dissolved
  - Silver, Dissolved
  - Thallium, Dissolved

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:

All reported results confirmed for total vs. dissolved metals

- DR-1_20130930 (Lab ID: 60154491001)
- DR-2_20130930 (Lab ID: 60154491002)
- DR-7_20130930 (Lab ID: 60154491003)

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(913)599-5665

PROJECT NARRATIVE

Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

Method: **EPA 200.8**
Description: 200.8 Potentially Diss. Metals
Client: BP Anderson Engineering Company Inc.
Date: November 06, 2013

Sample Comments:

All reported results confirmed for total vs. dissolved metals

- DR-12_20130930 (Lab ID: 60154491005)
- DR-2 COMPOSITE_20130930 (Lab ID: 60154491006)
- DR-7 COMPOSITE_20130930 (Lab ID: 60154491007)
- DR-4-SW COMPOSITE_20130930 (Lab ID: 60154491008)

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PROJECT NARRATIVE

Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

Method: **EPA 245.1**
Description: 245.1 Mercury
Client: BP Anderson Engineering Company Inc.
Date: November 06, 2013

General Information:
8 samples were analyzed for EPA 245.1. 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 245.1 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:

Sample Comments:

All reported results confirmed for total vs. dissolved metals
- DR-1_20130930 (Lab ID: 60154491001)
- DR-2_20130930 (Lab ID: 60154491002)
- DR-7_20130930 (Lab ID: 60154491003)
- DR-12_20130930 (Lab ID: 60154491005)
- DR-2 COMPOSITE_20130930 (Lab ID: 60154491006)
- DR-7 COMPOSITE_20130930 (Lab ID: 60154491007)
- DR-4-SW COMPOSITE_20130930 (Lab ID: 60154491008)

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PROJECT NARRATIVE

Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

Method: **EPA 245.1**
Description: 245.1 Mercury, Dissolved
Client: BP Anderson Engineering Company Inc.
Date: November 06, 2013

General Information:
8 samples were analyzed for EPA 245.1. 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 245.1 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:

Sample Comments:

All reported results confirmed for total vs. dissolved metals
- DR-1_20130930 (Lab ID: 60154491001)
- DR-2_20130930 (Lab ID: 60154491002)
- DR-7_20130930 (Lab ID: 60154491003)
- DR-12_20130930 (Lab ID: 60154491005)
- DR-2 COMPOSITE_20130930 (Lab ID: 60154491006)
- DR-7 COMPOSITE_20130930 (Lab ID: 60154491007)
- DR-4-SW COMPOSITE_20130930 (Lab ID: 60154491008)

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PROJECT NARRATIVE

Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

Method: **EPA 245.1**
Description: 245.1 Potentially Diss Mercury
Client: BP Anderson Engineering Company Inc.
Date: November 06, 2013

General Information:
8 samples were analyzed for EPA 245.1. 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 245.1 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:

Sample Comments:

All reported results confirmed for total vs. dissolved metals
- DR-1_20130930 (Lab ID: 60154491001)
- DR-2_20130930 (Lab ID: 60154491002)
- DR-7_20130930 (Lab ID: 60154491003)
- DR-12_20130930 (Lab ID: 60154491005)
- DR-2 COMPOSITE_20130930 (Lab ID: 60154491006)
- DR-7 COMPOSITE_20130930 (Lab ID: 60154491007)
- DR-4-SW COMPOSITE_20130930 (Lab ID: 60154491008)

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PROJECT NARRATIVE

Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

Method: **SM 2510B**
Description: 2510B Specific Conductance
Client: BP Anderson Engineering Company Inc.
Date: November 06, 2013

General Information:
8 samples were analyzed for SM 2510B. 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.

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

Additional Comments:

Sample Comments:

All reported results confirmed for total vs. dissolved metals

- DR-1_20130930 (Lab ID: 60154491001)
- DR-2_20130930 (Lab ID: 60154491002)
- DR-7_20130930 (Lab ID: 60154491003)
- DR-12_20130930 (Lab ID: 60154491005)
- DR-2 COMPOSITE_20130930 (Lab ID: 60154491006)
- DR-7 COMPOSITE_20130930 (Lab ID: 60154491007)
- DR-4-SW COMPOSITE_20130930 (Lab ID: 60154491008)

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PROJECT NARRATIVE

Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

Method: **Calculated**
Description: Salinity
Client: BP Anderson Engineering Company Inc.
Date: November 06, 2013

General Information:
8 samples were analyzed for Calculated. 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.

Additional Comments:

Sample Comments:

All reported results confirmed for total vs. dissolved metals
- DR-1_20130930 (Lab ID: 60154491001)
- DR-2_20130930 (Lab ID: 60154491002)
- DR-7_20130930 (Lab ID: 60154491003)
- DR-12_20130930 (Lab ID: 60154491005)
- DR-2 COMPOSITE_20130930 (Lab ID: 60154491006)
- DR-7 COMPOSITE_20130930 (Lab ID: 60154491007)
- DR-4-SW COMPOSITE_20130930 (Lab ID: 60154491008)

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PROJECT NARRATIVE

Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

Method: **SM 2320B**
Description: 2320B Alkalinity
Client: BP Anderson Engineering Company Inc.
Date: November 06, 2013

General Information:
8 samples were analyzed for SM 2320B. 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:

Sample Comments:

All reported results confirmed for total vs. dissolved metals

- DR-1_20130930 (Lab ID: 60154491001)
- DR-2_20130930 (Lab ID: 60154491002)
- DR-7_20130930 (Lab ID: 60154491003)
- DR-12_20130930 (Lab ID: 60154491005)
- DR-2 COMPOSITE_20130930 (Lab ID: 60154491006)
- DR-7 COMPOSITE_20130930 (Lab ID: 60154491007)
- DR-4-SW COMPOSITE_20130930 (Lab ID: 60154491008)

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PROJECT NARRATIVE

Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: BP Anderson Engineering Company Inc.
Date: November 06, 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, 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:

Sample Comments:

All reported results confirmed for total vs. dissolved metals

- DR-1_20130930 (Lab ID: 60154491001)
- DR-2_20130930 (Lab ID: 60154491002)
- DR-7_20130930 (Lab ID: 60154491003)
- DR-12_20130930 (Lab ID: 60154491005)
- DR-2 COMPOSITE_20130930 (Lab ID: 60154491006)
- DR-7 COMPOSITE_20130930 (Lab ID: 60154491007)
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PROJECT NARRATIVE

Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

Method: **SM 2540D**
Description: 2540D Total Suspended Solids
Client: BP Anderson Engineering Company Inc.
Date: November 06, 2013

General Information:
8 samples were analyzed for SM 2540D. 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:

Sample Comments:

All reported results confirmed for total vs. dissolved metals
- DR-1_20130930 (Lab ID: 60154491001)
- DR-2_20130930 (Lab ID: 60154491002)
- DR-7_20130930 (Lab ID: 60154491003)
- DR-12_20130930 (Lab ID: 60154491005)
- DR-2 COMPOSITE_20130930 (Lab ID: 60154491006)
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- DR-4-SW COMPOSITE_20130930 (Lab ID: 60154491008)

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PROJECT NARRATIVE

Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

Method: **SM 4500-S-2 D**
Description: 4500S2D Sulfide, Total
Client: BP Anderson Engineering Company Inc.
Date: November 06, 2013

General Information:
8 samples were analyzed for SM 4500-S-2 D. 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.

QC Batch: WET/43838

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60154340001

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

- MS (Lab ID: 1267104)
  - Sulfide, Total

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

Additional Comments:

Sample Comments:

All reported results confirmed for total vs. dissolved metals

- DR-1_20130930 (Lab ID: 60154491001)
- DR-2_20130930 (Lab ID: 60154491002)
- DR-7_20130930 (Lab ID: 60154491003)
- DR-12_20130930 (Lab ID: 60154491005)
- DR-2 COMPOSITE_20130930 (Lab ID: 60154491006)
- DR-7 COMPOSITE_20130930 (Lab ID: 60154491007)
- DR-4-SW COMPOSITE_20130930 (Lab ID: 60154491008)

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PROJECT NARRATIVE

Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: BP Anderson Engineering Company Inc.
Date: November 06, 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, 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:

Sample Comments:

All reported results confirmed for total vs. dissolved metals

- DR-1_20130930 (Lab ID: 60154491001)
- DR-2_20130930 (Lab ID: 60154491002)
- DR-7_20130930 (Lab ID: 60154491003)
- DR-12_20130930 (Lab ID: 60154491005)
- DR-2 COMPOSITE_20130930 (Lab ID: 60154491006)
- DR-7 COMPOSITE_20130930 (Lab ID: 60154491007)
- DR-4-SW COMPOSITE_20130930 (Lab ID: 60154491008)

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PROJECT NARRATIVE

Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

Method: **EPA 353.2**
Description: 353.2 Nitrogen, NO2/NO3 pres.
Client: BP Anderson Engineering Company Inc.
Date: November 06, 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, 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:

Sample Comments:

All reported results confirmed for total vs. dissolved metals
- DR-1_20130930 (Lab ID: 60154491001)
- DR-2_20130930 (Lab ID: 60154491002)
- DR-7_20130930 (Lab ID: 60154491003)
- DR-12_20130930 (Lab ID: 60154491005)
- DR-2 COMPOSITE_20130930 (Lab ID: 60154491006)
- DR-7 COMPOSITE_20130930 (Lab ID: 60154491007)
- DR-4-SW COMPOSITE_20130930 (Lab ID: 60154491008)

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PROJECT NARRATIVE

Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

Method: **SM 4500-CN-E**
Description: 4500CNE Cyanide, Total
Client: BP Anderson Engineering Company Inc.
Date: November 06, 2013

General Information:
8 samples were analyzed for SM 4500-CN-E. 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.

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

Additional Comments:

Sample Comments:

All reported results confirmed for total vs. dissolved metals
- DR-1_20130930 (Lab ID: 60154491001)
- DR-2_20130930 (Lab ID: 60154491002)
- DR-7_20130930 (Lab ID: 60154491003)
- DR-12_20130930 (Lab ID: 60154491005)
- DR-2 COMPOSITE_20130930 (Lab ID: 60154491006)
- DR-7 COMPOSITE_20130930 (Lab ID: 60154491007)
- DR-4-SW COMPOSITE_20130930 (Lab ID: 60154491008)

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PROJECT NARRATIVE

Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

Method: **SM 5310C**
Description: 5310C TOC
Client: BP Anderson Engineering Company Inc.
Date: November 06, 2013

General Information:
8 samples were analyzed for SM 5310C. 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:

Sample Comments:

All reported results confirmed for total vs. dissolved metals

- DR-1_20130930 (Lab ID: 60154491001)
- DR-2_20130930 (Lab ID: 60154491002)
- DR-7_20130930 (Lab ID: 60154491003)
- DR-12_20130930 (Lab ID: 60154491005)
- DR-2 COMPOSITE_20130930 (Lab ID: 60154491006)
- DR-7 COMPOSITE_20130930 (Lab ID: 60154491007)
- DR-4-SW COMPOSITE_20130930 (Lab ID: 60154491008)

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

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ANALYTICAL RESULTS

Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

Sample: DR-1_20130930 **Lab ID: 60154491001** Collected: 09/30/13 15:05 Received: 10/02/13 10:00 Matrix: Water

Comments: • All reported results confirmed for total vs. dissolved metals

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7	Preparation Method: EPA 200.7						
Calcium, Dissolved	**28900**	ug/L	100	1	10/14/13 20:30	10/15/13 16:12	7440-70-2	
Magnesium, Dissolved	**4290**	ug/L	50.0	1	10/14/13 20:30	10/15/13 16:12	7439-95-4	
Potassium, Dissolved	**525**	ug/L	500	1	10/14/13 20:30	10/15/13 16:12	7440-09-7	
Sodium, Dissolved	**1950**	ug/L	500	1	10/14/13 20:30	10/15/13 16:12	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8	Preparation Method: EPA 200.8						
Aluminum	**146**	ug/L	4.0	1	10/15/13 13:21	10/24/13 15:45	7429-90-5	M1
Antimony	ND	ug/L	0.50	1	10/15/13 13:21	10/24/13 15:45	7440-36-0	
Arsenic	ND	ug/L	0.50	1	10/15/13 13:21	10/24/13 15:45	7440-38-2	
Barium	**54.6**	ug/L	0.30	1	10/15/13 13:21	10/24/13 15:45	7440-39-3	
Beryllium	ND	ug/L	0.20	1	10/15/13 13:21	10/24/13 15:45	7440-41-7	
Cadmium	ND	ug/L	0.080	1	10/15/13 13:21	10/24/13 15:45	7440-43-9	
Calcium	**27500**	ug/L	100	5	10/15/13 13:21	10/24/13 15:50	7440-70-2	
Chromium	ND	ug/L	0.50	1	10/15/13 13:21	10/24/13 15:45	7440-47-3	
Cobalt	ND	ug/L	0.50	1	10/15/13 13:21	10/24/13 15:45	7440-48-4	
Copper	**1.0**	ug/L	0.50	1	10/15/13 13:21	10/24/13 15:45	7440-50-8	
Iron	**127**	ug/L	50.0	1	10/15/13 13:21	10/24/13 15:45	7439-89-6	
Lead	**0.18**	ug/L	0.10	1	10/15/13 13:21	10/24/13 15:45	7439-92-1	
Magnesium	**4480**	ug/L	5.0	1	10/15/13 13:21	10/24/13 15:45	7439-95-4	
Manganese	**10.9**	ug/L	0.50	1	10/15/13 13:21	10/24/13 15:45	7439-96-5	
Molybdenum	**0.65**	ug/L	0.50	1	10/15/13 13:21	10/24/13 15:45	7439-98-7	
Nickel	ND	ug/L	0.50	1	10/15/13 13:21	10/24/13 15:45	7440-02-0	
Potassium	**564**	ug/L	20.0	1	10/15/13 13:21	10/24/13 15:45	7440-09-7	
Selenium	ND	ug/L	0.50	1	10/15/13 13:21	10/24/13 15:45	7782-49-2	
Silica	**6050**	ug/L	268	5	10/15/13 13:21	10/24/13 15:50	7631-86-9	
Silver	ND	ug/L	0.50	1	10/15/13 13:21	10/24/13 15:45	7440-22-4	
Sodium	**1990**	ug/L	50.0	1	10/15/13 13:21	10/24/13 15:45	7440-23-5	
Thallium	ND	ug/L	0.10	1	10/15/13 13:21	10/24/13 15:45	7440-28-0	
Total Hardness by 2340B	**87100**	ug/L	355	5	10/15/13 13:21	10/24/13 15:50		
Vanadium	**0.39**	ug/L	0.10	1	10/15/13 13:21	10/24/13 15:45	7440-62-2	
Zinc	ND	ug/L	5.0	1	10/15/13 13:21	10/24/13 15:45	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8	Preparation Method: EPA 200.8						
Aluminum, Dissolved	**25.2**	ug/L	4.0	1	10/15/13 13:19	10/18/13 20:02	7429-90-5	M1,R1
Antimony, Dissolved	ND	ug/L	0.50	1	10/15/13 13:19	10/18/13 20:02	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	10/15/13 13:19	10/18/13 20:02	7440-38-2	
Barium, Dissolved	**54.6**	ug/L	0.30	1	10/15/13 13:19	10/18/13 20:02	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	10/15/13 13:19	10/18/13 20:02	7440-41-7	
Cadmium, Dissolved	ND	ug/L	0.080	1	10/15/13 13:19	10/18/13 20:02	7440-43-9	
Calcium, Dissolved	**30300**	ug/L	100	5	10/15/13 13:19	10/18/13 20:07	7440-70-2	M1
Chromium, Dissolved	ND	ug/L	0.50	1	10/15/13 13:19	10/18/13 20:02	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	10/15/13 13:19	10/18/13 20:02	7440-48-4	
Copper, Dissolved	**1.4**	ug/L	0.50	1	10/15/13 13:19	10/18/13 20:02	7440-50-8	
Iron, Dissolved	ND	ug/L	50.0	1	10/15/13 13:19	10/18/13 20:02	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	10/15/13 13:19	10/18/13 20:02	7439-92-1	

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ANALYTICAL RESULTS

Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

Sample: DR-1_20130930 **Lab ID: 60154491001** Collected: 09/30/13 15:05 Received: 10/02/13 10:00 Matrix: Water

Comments: • All reported results confirmed for total vs. dissolved metals

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8	Preparation Method: EPA 200.8						
Magnesium, Dissolved	**4420**	ug/L	5.0	1	10/15/13 13:19	10/18/13 20:02	7439-95-4	
Manganese, Dissolved	**11.0**	ug/L	0.50	1	10/15/13 13:19	10/18/13 20:02	7439-96-5	
Molybdenum, Dissolved	**0.68**	ug/L	0.50	1	10/15/13 13:19	10/18/13 20:02	7439-98-7	
Nickel, Dissolved	**5.0**	ug/L	0.50	1	10/15/13 13:19	10/18/13 20:02	7440-02-0	
Potassium, Dissolved	**555**	ug/L	20.0	1	10/15/13 13:19	10/18/13 20:02	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	10/15/13 13:19	10/18/13 20:02	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	10/15/13 13:19	10/18/13 20:02	7440-22-4	
Sodium, Dissolved	**1910**	ug/L	50.0	1	10/15/13 13:19	10/18/13 20:02	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	10/15/13 13:19	10/18/13 20:02	7440-28-0	
Vanadium, Dissolved	**0.17**	ug/L	0.10	1	10/15/13 13:19	10/18/13 20:02	7440-62-2	
Zinc, Dissolved	**15.8**	ug/L	5.0	1	10/15/13 13:19	10/18/13 20:02	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8	Preparation Method: EPA 200.8						
Aluminum, Dissolved	**69.7**	ug/L	50.0	1	10/14/13 20:30	10/16/13 12:20	7429-90-5	
Antimony, Dissolved	**0.075J**	ug/L	1.0	1	10/14/13 20:30	10/16/13 12:20	7440-36-0	
Arsenic, Dissolved	**0.23J**	ug/L	1.0	1	10/14/13 20:30	10/16/13 12:20	7440-38-2	
Barium, Dissolved	**54.1**	ug/L	1.0	1	10/14/13 20:30	10/16/13 12:20	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.50	1	10/14/13 20:30	10/16/13 18:17	7440-41-7	
Cadmium, Dissolved	ND	ug/L	0.50	1	10/14/13 20:30	10/16/13 12:20	7440-43-9	
Chromium, Dissolved	**0.79J**	ug/L	1.0	1	10/14/13 20:30	10/16/13 12:20	7440-47-3	
Cobalt, Dissolved	**0.086J**	ug/L	1.0	1	10/14/13 20:30	10/16/13 12:20	7440-48-4	
Copper, Dissolved	**0.75J**	ug/L	1.0	1	10/14/13 20:30	10/16/13 12:20	7440-50-8	B
Iron, Dissolved	**183**	ug/L	50.0	1	10/14/13 20:30	10/16/13 12:20	7439-89-6	B
Lead, Dissolved	**0.23J**	ug/L	1.0	1	10/14/13 20:30	10/16/13 12:20	7439-92-1	
Manganese, Dissolved	**11.4**	ug/L	1.0	1	10/14/13 20:30	10/16/13 12:20	7439-96-5	
Molybdenum, Dissolved	**0.80J**	ug/L	1.0	1	10/14/13 20:30	10/16/13 12:20	7439-98-7	B
Nickel, Dissolved	**0.37J**	ug/L	1.0	1	10/14/13 20:30	10/16/13 12:20	7440-02-0	B
Selenium, Dissolved	**0.39J**	ug/L	1.0	1	10/14/13 20:30	10/16/13 12:20	7782-49-2	
Silver, Dissolved	**0.026J**	ug/L	0.50	1	10/14/13 20:30	10/16/13 12:20	7440-22-4	B
Thallium, Dissolved	**0.28J**	ug/L	1.0	1	10/14/13 20:30	10/16/13 12:20	7440-28-0	B
Vanadium, Dissolved	ND	ug/L	1.0	1	10/14/13 20:30	10/16/13 12:20	7440-62-2	
Zinc, Dissolved	**6.0J**	ug/L	10.0	1	10/14/13 20:30	10/16/13 12:20	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1	Preparation Method: EPA 245.1						
Mercury	ND	ug/L	0.20	1	10/15/13 09:07	10/15/13 19:23	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1	Preparation Method: EPA 245.1						
Mercury, Dissolved	ND	ug/L	0.20	1	10/15/13 09:00	10/15/13 20:07	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1	Preparation Method: EPA 245.1						
Mercury, Dissolved	ND	ug/L	0.20	1	10/15/13 09:00	10/15/13 11:41	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**182**	umhos/cm	10.0	1		10/09/13 11:11		

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ANALYTICAL RESULTS

Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

Sample: DR-1_20130930 **Lab ID: 60154491001** Collected: 09/30/13 15:05 Received: 10/02/13 10:00 Matrix: Water

Comments: • All reported results confirmed for total vs. dissolved metals

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**116**	mg/L	6.4	1		10/09/13 12:00		
Salinity (as seawater)	**0.089**	PSU	0.014	1		10/09/13 12:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**65.5**	mg/L	20.0	1		10/08/13 09:37		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		10/08/13 09:37		
Alkalinity, Total as CaCO3	**65.5**	mg/L	20.0	1		10/08/13 09:37		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**110**	mg/L	5.0	1		10/07/13 08:52		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	ND	mg/L	5.0	1		10/07/13 10:27		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		10/07/13 10:57	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.3**	mg/L	1.0	1		10/13/13 19:29	16887-00-6	
Sulfate	**25.2**	mg/L	2.0	2		10/14/13 16:06	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		10/07/13 16:43		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		10/07/13 13:57	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**4.5**	mg/L	3.0	6		10/16/13 15:02	7440-44-0	

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ANALYTICAL RESULTS

Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

Sample: DR-2_20130930 **Lab ID: 60154491002** Collected: 09/30/13 13:30 Received: 10/02/13 10:00 Matrix: Water

Comments: • All reported results confirmed for total vs. dissolved metals

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7	Preparation Method: EPA 200.7						
Calcium, Dissolved	**29600**	ug/L	100	1	10/14/13 20:30	10/15/13 16:15	7440-70-2	
Magnesium, Dissolved	**4310**	ug/L	50.0	1	10/14/13 20:30	10/15/13 16:15	7439-95-4	
Potassium, Dissolved	**515**	ug/L	500	1	10/14/13 20:30	10/15/13 16:15	7440-09-7	
Sodium, Dissolved	**1890**	ug/L	500	1	10/14/13 20:30	10/15/13 16:15	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8	Preparation Method: EPA 200.8						
Aluminum	**150**	ug/L	4.0	1	10/15/13 13:21	10/24/13 15:55	7429-90-5	
Antimony	ND	ug/L	0.50	1	10/15/13 13:21	10/24/13 15:55	7440-36-0	
Arsenic	ND	ug/L	0.50	1	10/15/13 13:21	10/24/13 15:55	7440-38-2	
Barium	**53.7**	ug/L	0.30	1	10/15/13 13:21	10/24/13 15:55	7440-39-3	
Beryllium	ND	ug/L	0.20	1	10/15/13 13:21	10/24/13 15:55	7440-41-7	
Cadmium	ND	ug/L	0.080	1	10/15/13 13:21	10/24/13 15:55	7440-43-9	
Calcium	**28100**	ug/L	200	10	10/15/13 13:21	10/23/13 21:17	7440-70-2	
Chromium	ND	ug/L	0.50	1	10/15/13 13:21	10/24/13 15:55	7440-47-3	
Cobalt	ND	ug/L	0.50	1	10/15/13 13:21	10/24/13 15:55	7440-48-4	
Copper	**0.74**	ug/L	0.50	1	10/15/13 13:21	10/24/13 15:55	7440-50-8	
Iron	**144**	ug/L	50.0	1	10/15/13 13:21	10/24/13 15:55	7439-89-6	
Lead	**0.19**	ug/L	0.10	1	10/15/13 13:21	10/24/13 15:55	7439-92-1	
Magnesium	**4610**	ug/L	5.0	1	10/15/13 13:21	10/24/13 15:55	7439-95-4	
Manganese	**33.1**	ug/L	0.50	1	10/15/13 13:21	10/24/13 15:55	7439-96-5	
Molybdenum	**0.70**	ug/L	0.50	1	10/15/13 13:21	10/24/13 15:55	7439-98-7	
Nickel	**0.66**	ug/L	0.50	1	10/15/13 13:21	10/24/13 15:55	7440-02-0	
Potassium	**634**	ug/L	20.0	1	10/15/13 13:21	10/24/13 15:55	7440-09-7	
Selenium	ND	ug/L	0.50	1	10/15/13 13:21	10/24/13 15:55	7782-49-2	
Silica	**6020**	ug/L	535	10	10/15/13 13:21	10/23/13 21:17	7631-86-9	
Silver	ND	ug/L	0.50	1	10/15/13 13:21	10/24/13 15:55	7440-22-4	
Sodium	**2040**	ug/L	50.0	1	10/15/13 13:21	10/24/13 15:55	7440-23-5	
Thallium	ND	ug/L	0.10	1	10/15/13 13:21	10/24/13 15:55	7440-28-0	
Total Hardness by 2340B	**89200**	ug/L	710	10	10/15/13 13:21	10/23/13 21:17		
Vanadium	**0.36**	ug/L	0.10	1	10/15/13 13:21	10/24/13 15:55	7440-62-2	
Zinc	**5.1**	ug/L	5.0	1	10/15/13 13:21	10/24/13 15:55	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8	Preparation Method: EPA 200.8						
Aluminum, Dissolved	**28.6**	ug/L	4.0	1	10/15/13 13:19	10/18/13 20:25	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	10/15/13 13:19	10/18/13 20:25	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	10/15/13 13:19	10/18/13 20:25	7440-38-2	
Barium, Dissolved	**54.4**	ug/L	0.30	1	10/15/13 13:19	10/18/13 20:25	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	10/15/13 13:19	10/18/13 20:25	7440-41-7	
Cadmium, Dissolved	ND	ug/L	0.080	1	10/15/13 13:19	10/18/13 20:25	7440-43-9	
Calcium, Dissolved	**32900**	ug/L	100	5	10/15/13 13:19	10/21/13 16:44	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	10/15/13 13:19	10/18/13 20:25	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	10/15/13 13:19	10/18/13 20:25	7440-48-4	
Copper, Dissolved	**1.7**	ug/L	0.50	1	10/15/13 13:19	10/18/13 20:25	7440-50-8	
Iron, Dissolved	ND	ug/L	50.0	1	10/15/13 13:19	10/18/13 20:25	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	10/15/13 13:19	10/18/13 20:25	7439-92-1	

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ANALYTICAL RESULTS

Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

Sample: DR-2_20130930 **Lab ID: 60154491002** Collected: 09/30/13 13:30 Received: 10/02/13 10:00 Matrix: Water

Comments: • All reported results confirmed for total vs. dissolved metals

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8		Preparation Method: EPA 200.8					
Magnesium, Dissolved	**4760**	ug/L	5.0	1	10/15/13 13:19	10/18/13 20:25	7439-95-4	
Manganese, Dissolved	**33.2**	ug/L	0.50	1	10/15/13 13:19	10/18/13 20:25	7439-96-5	
Molybdenum, Dissolved	**0.78**	ug/L	0.50	1	10/15/13 13:19	10/18/13 20:25	7439-98-7	
Nickel, Dissolved	**5.1**	ug/L	0.50	1	10/15/13 13:19	10/18/13 20:25	7440-02-0	
Potassium, Dissolved	**636**	ug/L	20.0	1	10/15/13 13:19	10/18/13 20:25	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	10/15/13 13:19	10/18/13 20:25	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	10/15/13 13:19	10/18/13 20:25	7440-22-4	
Sodium, Dissolved	**2070**	ug/L	50.0	1	10/15/13 13:19	10/18/13 20:25	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	10/15/13 13:19	10/18/13 20:25	7440-28-0	
Vanadium, Dissolved	**0.20**	ug/L	0.10	1	10/15/13 13:19	10/18/13 20:25	7440-62-2	
Zinc, Dissolved	**7.7**	ug/L	5.0	1	10/15/13 13:19	10/18/13 20:25	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8		Preparation Method: EPA 200.8					
Aluminum, Dissolved	**61.6**	ug/L	50.0	1	10/14/13 20:30	10/16/13 12:36	7429-90-5	
Antimony, Dissolved	**0.083J**	ug/L	1.0	1	10/14/13 20:30	10/16/13 12:36	7440-36-0	
Arsenic, Dissolved	**0.13J**	ug/L	1.0	1	10/14/13 20:30	10/16/13 12:36	7440-38-2	
Barium, Dissolved	**51.7**	ug/L	1.0	1	10/14/13 20:30	10/16/13 12:36	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.50	1	10/14/13 20:30	10/16/13 18:25	7440-41-7	
Cadmium, Dissolved	ND	ug/L	0.50	1	10/14/13 20:30	10/16/13 12:36	7440-43-9	
Chromium, Dissolved	**0.61J**	ug/L	1.0	1	10/14/13 20:30	10/16/13 12:36	7440-47-3	
Cobalt, Dissolved	**0.082J**	ug/L	1.0	1	10/14/13 20:30	10/16/13 12:36	7440-48-4	
Copper, Dissolved	**1.1**	ug/L	1.0	1	10/14/13 20:30	10/16/13 12:36	7440-50-8	B
Iron, Dissolved	**82.5**	ug/L	50.0	1	10/14/13 20:30	10/16/13 12:36	7439-89-6	B
Lead, Dissolved	**0.15J**	ug/L	1.0	1	10/14/13 20:30	10/16/13 12:36	7439-92-1	
Manganese, Dissolved	**30.2**	ug/L	1.0	1	10/14/13 20:30	10/16/13 12:36	7439-96-5	
Molybdenum, Dissolved	**0.90J**	ug/L	1.0	1	10/14/13 20:30	10/16/13 12:36	7439-98-7	B
Nickel, Dissolved	**0.36J**	ug/L	1.0	1	10/14/13 20:30	10/16/13 12:36	7440-02-0	B
Selenium, Dissolved	**0.28J**	ug/L	1.0	1	10/14/13 20:30	10/16/13 12:36	7782-49-2	
Silver, Dissolved	**0.034J**	ug/L	0.50	1	10/14/13 20:30	10/16/13 12:36	7440-22-4	B
Thallium, Dissolved	**0.14J**	ug/L	1.0	1	10/14/13 20:30	10/16/13 12:36	7440-28-0	B
Vanadium, Dissolved	ND	ug/L	1.0	1	10/14/13 20:30	10/16/13 12:36	7440-62-2	
Zinc, Dissolved	**5.6J**	ug/L	10.0	1	10/14/13 20:30	10/16/13 12:36	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1		Preparation Method: EPA 245.1					
Mercury	ND	ug/L	0.20	1	10/15/13 09:07	10/15/13 19:25	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1		Preparation Method: EPA 245.1					
Mercury, Dissolved	ND	ug/L	0.20	1	10/15/13 09:00	10/15/13 20:09	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1		Preparation Method: EPA 245.1					
Mercury, Dissolved	ND	ug/L	0.20	1	10/15/13 09:00	10/15/13 11:48	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**191**	umhos/cm	10.0	1		10/09/13 11:14		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

Sample: DR-2_20130930 **Lab ID: 60154491002** Collected: 09/30/13 13:30 Received: 10/02/13 10:00 Matrix: Water

Comments: • All reported results confirmed for total vs. dissolved metals

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**122**	mg/L	6.4	1		10/09/13 12:00		
Salinity (as seawater)	**0.093**	PSU	0.014	1		10/09/13 12:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**66.6**	mg/L	20.0	1		10/08/13 09:41		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		10/08/13 09:41		
Alkalinity, Total as CaCO3	**66.6**	mg/L	20.0	1		10/08/13 09:41		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**125**	mg/L	5.0	1		10/07/13 08:52		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**7.0**	mg/L	5.0	1		10/07/13 10:27		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		10/07/13 10:57	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.3**	mg/L	1.0	1		10/13/13 20:15	16887-00-6	
Sulfate	**30.2**	mg/L	5.0	5		10/14/13 17:30	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		10/07/13 16:44		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		10/07/13 13:58	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**3.8**	mg/L	1.5	3		10/16/13 15:58	7440-44-0	

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ANALYTICAL RESULTS

Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

Sample: DR-7_20130930 **Lab ID: 60154491003** Collected: 09/30/13 12:50 Received: 10/02/13 10:00 Matrix: Water

Comments: • All reported results confirmed for total vs. dissolved metals

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7	Preparation Method: EPA 200.7						
Calcium, Dissolved	**41700**	ug/L	100	1	10/14/13 20:30	10/15/13 16:27	7440-70-2	
Magnesium, Dissolved	**5850**	ug/L	50.0	1	10/14/13 20:30	10/15/13 16:27	7439-95-4	
Potassium, Dissolved	**917**	ug/L	500	1	10/14/13 20:30	10/15/13 16:27	7440-09-7	
Sodium, Dissolved	**3000**	ug/L	500	1	10/14/13 20:30	10/15/13 16:27	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8	Preparation Method: EPA 200.8						
Aluminum	**132**	ug/L	4.0	1	10/15/13 13:21	10/24/13 16:00	7429-90-5	
Antimony	ND	ug/L	0.50	1	10/15/13 13:21	10/24/13 16:00	7440-36-0	
Arsenic	ND	ug/L	0.50	1	10/15/13 13:21	10/24/13 16:00	7440-38-2	
Barium	**50.9**	ug/L	0.30	1	10/15/13 13:21	10/24/13 16:00	7440-39-3	
Beryllium	ND	ug/L	0.20	1	10/15/13 13:21	10/24/13 16:00	7440-41-7	
Cadmium	**0.44**	ug/L	0.080	1	10/15/13 13:21	10/24/13 16:00	7440-43-9	
Calcium	**41200**	ug/L	200	10	10/15/13 13:21	10/23/13 22:08	7440-70-2	
Chromium	ND	ug/L	0.50	1	10/15/13 13:21	10/24/13 16:00	7440-47-3	
Cobalt	ND	ug/L	0.50	1	10/15/13 13:21	10/24/13 16:00	7440-48-4	
Copper	**1.1**	ug/L	0.50	1	10/15/13 13:21	10/24/13 16:00	7440-50-8	
Iron	**166**	ug/L	50.0	1	10/15/13 13:21	10/24/13 16:00	7439-89-6	
Lead	**0.20**	ug/L	0.10	1	10/15/13 13:21	10/24/13 16:00	7439-92-1	
Magnesium	**6200**	ug/L	5.0	1	10/15/13 13:21	10/24/13 16:00	7439-95-4	
Manganese	**93.4**	ug/L	0.50	1	10/15/13 13:21	10/24/13 16:00	7439-96-5	
Molybdenum	**1.1**	ug/L	0.50	1	10/15/13 13:21	10/24/13 16:00	7439-98-7	
Nickel	**0.74**	ug/L	0.50	1	10/15/13 13:21	10/24/13 16:00	7440-02-0	
Potassium	**1030**	ug/L	20.0	1	10/15/13 13:21	10/24/13 16:00	7440-09-7	
Selenium	ND	ug/L	0.50	1	10/15/13 13:21	10/24/13 16:00	7782-49-2	
Silica	**7740**	ug/L	535	10	10/15/13 13:21	10/23/13 22:08	7631-86-9	
Silver	ND	ug/L	0.50	1	10/15/13 13:21	10/24/13 16:00	7440-22-4	
Sodium	**3270**	ug/L	50.0	1	10/15/13 13:21	10/24/13 16:00	7440-23-5	
Thallium	ND	ug/L	0.10	1	10/15/13 13:21	10/24/13 16:00	7440-28-0	
Total Hardness by 2340B	**128000**	ug/L	710	10	10/15/13 13:21	10/23/13 22:08		
Vanadium	**0.35**	ug/L	0.10	1	10/15/13 13:21	10/24/13 16:00	7440-62-2	
Zinc	**94.2**	ug/L	5.0	1	10/15/13 13:21	10/24/13 16:00	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8	Preparation Method: EPA 200.8						
Aluminum, Dissolved	**28.2**	ug/L	4.0	1	10/15/13 13:19	10/18/13 20:30	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	10/15/13 13:19	10/18/13 20:30	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	10/15/13 13:19	10/18/13 20:30	7440-38-2	
Barium, Dissolved	**53.4**	ug/L	0.30	1	10/15/13 13:19	10/18/13 20:30	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	10/15/13 13:19	10/18/13 20:30	7440-41-7	
Cadmium, Dissolved	**0.45**	ug/L	0.080	1	10/15/13 13:19	10/18/13 20:30	7440-43-9	
Calcium, Dissolved	**46400**	ug/L	100	5	10/15/13 13:19	10/21/13 16:49	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	10/15/13 13:19	10/18/13 20:30	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	10/15/13 13:19	10/18/13 20:30	7440-48-4	
Copper, Dissolved	**1.3**	ug/L	0.50	1	10/15/13 13:19	10/18/13 20:30	7440-50-8	
Iron, Dissolved	ND	ug/L	50.0	1	10/15/13 13:19	10/18/13 20:30	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	10/15/13 13:19	10/18/13 20:30	7439-92-1	

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ANALYTICAL RESULTS

Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

Sample: DR-7_20130930 **Lab ID: 60154491003** Collected: 09/30/13 12:50 Received: 10/02/13 10:00 Matrix: Water

Comments: • All reported results confirmed for total vs. dissolved metals

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8		Preparation Method: EPA 200.8					
Magnesium, Dissolved	**6410**	ug/L	5.0	1	10/15/13 13:19	10/18/13 20:30	7439-95-4	
Manganese, Dissolved	**96.2**	ug/L	0.50	1	10/15/13 13:19	10/18/13 20:30	7439-96-5	
Molybdenum, Dissolved	**1.2**	ug/L	0.50	1	10/15/13 13:19	10/18/13 20:30	7439-98-7	
Nickel, Dissolved	**0.95**	ug/L	0.50	1	10/15/13 13:19	10/18/13 20:30	7440-02-0	
Potassium, Dissolved	**1060**	ug/L	20.0	1	10/15/13 13:19	10/18/13 20:30	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	10/15/13 13:19	10/18/13 20:30	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	10/15/13 13:19	10/18/13 20:30	7440-22-4	
Sodium, Dissolved	**3250**	ug/L	50.0	1	10/15/13 13:19	10/18/13 20:30	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	10/15/13 13:19	10/18/13 20:30	7440-28-0	
Vanadium, Dissolved	**0.17**	ug/L	0.10	1	10/15/13 13:19	10/18/13 20:30	7440-62-2	
Zinc, Dissolved	**87.0**	ug/L	5.0	1	10/15/13 13:19	10/18/13 20:30	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8		Preparation Method: EPA 200.8					
Aluminum, Dissolved	**59.4**	ug/L	50.0	1	10/14/13 20:30	10/16/13 12:40	7429-90-5	
Antimony, Dissolved	**0.059J**	ug/L	1.0	1	10/14/13 20:30	10/16/13 12:40	7440-36-0	
Arsenic, Dissolved	**0.35J**	ug/L	1.0	1	10/14/13 20:30	10/16/13 12:40	7440-38-2	
Barium, Dissolved	**51.6**	ug/L	1.0	1	10/14/13 20:30	10/16/13 12:40	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.50	1	10/14/13 20:30	10/16/13 18:27	7440-41-7	
Cadmium, Dissolved	**0.46J**	ug/L	0.50	1	10/14/13 20:30	10/16/13 12:40	7440-43-9	
Chromium, Dissolved	**0.53J**	ug/L	1.0	1	10/14/13 20:30	10/16/13 12:40	7440-47-3	
Cobalt, Dissolved	**0.15J**	ug/L	1.0	1	10/14/13 20:30	10/16/13 12:40	7440-48-4	
Copper, Dissolved	**0.92J**	ug/L	1.0	1	10/14/13 20:30	10/16/13 12:40	7440-50-8	B
Iron, Dissolved	**116**	ug/L	50.0	1	10/14/13 20:30	10/16/13 12:40	7439-89-6	B
Lead, Dissolved	**0.18J**	ug/L	1.0	1	10/14/13 20:30	10/16/13 12:40	7439-92-1	
Manganese, Dissolved	**91.2**	ug/L	1.0	1	10/14/13 20:30	10/16/13 12:40	7439-96-5	
Molybdenum, Dissolved	**1.1**	ug/L	1.0	1	10/14/13 20:30	10/16/13 12:40	7439-98-7	B
Nickel, Dissolved	**0.35J**	ug/L	1.0	1	10/14/13 20:30	10/16/13 12:40	7440-02-0	B
Selenium, Dissolved	**0.33J**	ug/L	1.0	1	10/14/13 20:30	10/16/13 12:40	7782-49-2	
Silver, Dissolved	**0.010J**	ug/L	0.50	1	10/14/13 20:30	10/16/13 12:40	7440-22-4	B
Thallium, Dissolved	**0.093J**	ug/L	1.0	1	10/14/13 20:30	10/16/13 12:40	7440-28-0	B
Vanadium, Dissolved	ND	ug/L	1.0	1	10/14/13 20:30	10/16/13 12:40	7440-62-2	
Zinc, Dissolved	**87.0**	ug/L	10.0	1	10/14/13 20:30	10/16/13 12:40	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1		Preparation Method: EPA 245.1					
Mercury	ND	ug/L	0.20	1	10/15/13 09:07	10/15/13 19:32	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1		Preparation Method: EPA 245.1					
Mercury, Dissolved	ND	ug/L	0.20	1	10/15/13 09:00	10/15/13 20:15	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1		Preparation Method: EPA 245.1					
Mercury, Dissolved	ND	ug/L	0.20	1	10/15/13 09:00	10/15/13 11:50	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**272**	umhos/cm	10.0	1		10/09/13 11:15		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

Sample: DR-7_20130930 **Lab ID: 60154491003** Collected: 09/30/13 12:50 Received: 10/02/13 10:00 Matrix: Water

Comments: • All reported results confirmed for total vs. dissolved metals

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**174**	mg/L	6.4	1		10/09/13 12:00		
Salinity (as seawater)	**0.13**	PSU	0.014	1		10/09/13 12:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**77.6**	mg/L	20.0	1		10/08/13 09:45		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		10/08/13 09:45		
Alkalinity, Total as CaCO3	**77.6**	mg/L	20.0	1		10/08/13 09:45		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**180**	mg/L	5.0	1		10/07/13 08:53		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	ND	mg/L	5.0	1		10/07/13 10:28		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		10/07/13 10:57	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.3**	mg/L	1.0	1		10/13/13 20:46	16887-00-6	
Sulfate	**59.3**	mg/L	10.0	10		10/14/13 18:00	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		10/07/13 16:47		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		10/07/13 13:59	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**3.6**	mg/L	1.5	3		10/16/13 16:17	7440-44-0	

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ANALYTICAL RESULTS

Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

Sample: DR-4-SW_20130930 **Lab ID: 60154491004** Collected: 09/30/13 11:15 Received: 10/02/13 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**34500**	ug/L	100	1	10/14/13 20:30	10/15/13 16:30	7440-70-2	
Magnesium, Dissolved	**4780**	ug/L	50.0	1	10/14/13 20:30	10/15/13 16:30	7439-95-4	
Potassium, Dissolved	**606**	ug/L	500	1	10/14/13 20:30	10/15/13 16:30	7440-09-7	
Sodium, Dissolved	**2090**	ug/L	500	1	10/14/13 20:30	10/15/13 16:30	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**154**	ug/L	4.0	1	10/15/13 13:21	10/24/13 16:05	7429-90-5	
Antimony	ND	ug/L	0.50	1	10/15/13 13:21	10/24/13 16:05	7440-36-0	
Arsenic	ND	ug/L	0.50	1	10/15/13 13:21	10/24/13 16:05	7440-38-2	
Barium	**57.2**	ug/L	0.30	1	10/15/13 13:21	10/24/13 16:05	7440-39-3	
Beryllium	ND	ug/L	0.20	1	10/15/13 13:21	10/24/13 16:05	7440-41-7	
Cadmium	**0.32**	ug/L	0.080	1	10/15/13 13:21	10/24/13 16:05	7440-43-9	
Calcium	**33600**	ug/L	200	10	10/15/13 13:21	10/23/13 22:20	7440-70-2	
Chromium	ND	ug/L	0.50	1	10/15/13 13:21	10/24/13 16:05	7440-47-3	
Cobalt	ND	ug/L	0.50	1	10/15/13 13:21	10/24/13 16:05	7440-48-4	
Copper	**1.4**	ug/L	0.50	1	10/15/13 13:21	10/24/13 16:05	7440-50-8	
Iron	**186**	ug/L	50.0	1	10/15/13 13:21	10/24/13 16:05	7439-89-6	
Lead	**0.39**	ug/L	0.10	1	10/15/13 13:21	10/24/13 16:05	7439-92-1	
Magnesium	**5120**	ug/L	5.0	1	10/15/13 13:21	10/24/13 16:05	7439-95-4	
Manganese	**56.2**	ug/L	0.50	1	10/15/13 13:21	10/24/13 16:05	7439-96-5	
Molybdenum	**0.73**	ug/L	0.50	1	10/15/13 13:21	10/24/13 16:05	7439-98-7	
Nickel	**0.88**	ug/L	0.50	1	10/15/13 13:21	10/24/13 16:05	7440-02-0	
Potassium	**683**	ug/L	20.0	1	10/15/13 13:21	10/24/13 16:05	7440-09-7	
Selenium	ND	ug/L	0.50	1	10/15/13 13:21	10/24/13 16:05	7782-49-2	
Silica	**6990**	ug/L	535	10	10/15/13 13:21	10/23/13 22:20	7631-86-9	
Silver	ND	ug/L	0.50	1	10/15/13 13:21	10/24/13 16:05	7440-22-4	
Sodium	**2290**	ug/L	50.0	1	10/15/13 13:21	10/24/13 16:05	7440-23-5	
Thallium	ND	ug/L	0.10	1	10/15/13 13:21	10/24/13 16:05	7440-28-0	
Total Hardness by 2340B	**105000**	ug/L	710	10	10/15/13 13:21	10/23/13 22:20		
Vanadium	**0.37**	ug/L	0.10	1	10/15/13 13:21	10/24/13 16:05	7440-62-2	
Zinc	**63.5**	ug/L	5.0	1	10/15/13 13:21	10/24/13 16:05	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**19.5**	ug/L	4.0	1	10/15/13 13:19	10/21/13 16:54	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	10/15/13 13:19	10/18/13 20:35	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	10/15/13 13:19	10/18/13 20:35	7440-38-2	
Barium, Dissolved	**56.4**	ug/L	0.30	1	10/15/13 13:19	10/18/13 20:35	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	10/15/13 13:19	10/18/13 20:35	7440-41-7	
Cadmium, Dissolved	**0.28**	ug/L	0.080	1	10/15/13 13:19	10/18/13 20:35	7440-43-9	
Calcium, Dissolved	**37200**	ug/L	100	5	10/15/13 13:19	10/21/13 16:59	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	10/15/13 13:19	10/18/13 20:35	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	10/15/13 13:19	10/18/13 20:35	7440-48-4	
Copper, Dissolved	**1.6**	ug/L	0.50	1	10/15/13 13:19	10/18/13 20:35	7440-50-8	
Iron, Dissolved	ND	ug/L	50.0	1	10/15/13 13:19	10/18/13 20:35	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	10/15/13 13:19	10/18/13 20:35	7439-92-1	
Magnesium, Dissolved	**5210**	ug/L	5.0	1	10/15/13 13:19	10/18/13 20:35	7439-95-4	

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ANALYTICAL RESULTS

Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

Sample: DR-4-SW_20130930 **Lab ID: 60154491004** Collected: 09/30/13 11:15 Received: 10/02/13 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	**53.2**	ug/L	0.50	1	10/15/13 13:19	10/18/13 20:35	7439-96-5	
Molybdenum, Dissolved	**0.73**	ug/L	0.50	1	10/15/13 13:19	10/18/13 20:35	7439-98-7	
Nickel, Dissolved	**0.81**	ug/L	0.50	1	10/15/13 13:19	10/18/13 20:35	7440-02-0	
Potassium, Dissolved	**672**	ug/L	20.0	1	10/15/13 13:19	10/18/13 20:35	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	10/15/13 13:19	10/18/13 20:35	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	10/15/13 13:19	10/18/13 20:35	7440-22-4	
Sodium, Dissolved	**2250**	ug/L	50.0	1	10/15/13 13:19	10/18/13 20:35	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	10/15/13 13:19	10/18/13 20:35	7440-28-0	
Vanadium, Dissolved	**0.14**	ug/L	0.10	1	10/15/13 13:19	10/18/13 20:35	7440-62-2	
Zinc, Dissolved	**57.4**	ug/L	5.0	1	10/15/13 13:19	10/18/13 20:35	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**67.4**	ug/L	50.0	1	10/14/13 20:30	10/16/13 12:45	7429-90-5	
Antimony, Dissolved	**0.050J**	ug/L	1.0	1	10/14/13 20:30	10/16/13 12:45	7440-36-0	
Arsenic, Dissolved	**0.20J**	ug/L	1.0	1	10/14/13 20:30	10/16/13 12:45	7440-38-2	
Barium, Dissolved	**55.6**	ug/L	1.0	1	10/14/13 20:30	10/16/13 12:45	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.50	1	10/14/13 20:30	10/16/13 18:29	7440-41-7	
Cadmium, Dissolved	**0.32J**	ug/L	0.50	1	10/14/13 20:30	10/16/13 12:45	7440-43-9	
Chromium, Dissolved	**0.57J**	ug/L	1.0	1	10/14/13 20:30	10/16/13 12:45	7440-47-3	
Cobalt, Dissolved	**0.14J**	ug/L	1.0	1	10/14/13 20:30	10/16/13 12:45	7440-48-4	
Copper, Dissolved	**1.4**	ug/L	1.0	1	10/14/13 20:30	10/16/13 12:45	7440-50-8	B
Iron, Dissolved	**136**	ug/L	50.0	1	10/14/13 20:30	10/16/13 12:45	7439-89-6	B
Lead, Dissolved	**0.34J**	ug/L	1.0	1	10/14/13 20:30	10/16/13 12:45	7439-92-1	
Manganese, Dissolved	**54.8**	ug/L	1.0	1	10/14/13 20:30	10/16/13 12:45	7439-96-5	
Molybdenum, Dissolved	**0.70J**	ug/L	1.0	1	10/14/13 20:30	10/16/13 12:45	7439-98-7	B
Nickel, Dissolved	**0.32J**	ug/L	1.0	1	10/14/13 20:30	10/16/13 12:45	7440-02-0	B
Selenium, Dissolved	**0.37J**	ug/L	1.0	1	10/14/13 20:30	10/16/13 12:45	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	10/14/13 20:30	10/16/13 12:45	7440-22-4	
Thallium, Dissolved	**0.23J**	ug/L	1.0	1	10/14/13 20:30	10/16/13 12:45	7440-28-0	B
Vanadium, Dissolved	ND	ug/L	1.0	1	10/14/13 20:30	10/16/13 12:45	7440-62-2	
Zinc, Dissolved	**57.5**	ug/L	10.0	1	10/14/13 20:30	10/16/13 12:45	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	10/15/13 09:07	10/15/13 19:34	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	10/15/13 09:00	10/15/13 20:17	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	10/15/13 09:00	10/15/13 11:52	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**221**	umhos/cm	10.0	1		10/09/13 11:17		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**141**	mg/L	6.4	1		10/09/13 12:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

Sample: DR-4-SW_20130930 **Lab ID: 60154491004** Collected: 09/30/13 11:15 Received: 10/02/13 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.11**	PSU	0.014	1		10/09/13 12:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**75.1**	mg/L	20.0	1		10/08/13 09:49		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		10/08/13 09:49		
Alkalinity, Total as CaCO3	**75.1**	mg/L	20.0	1		10/08/13 09:49		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**140**	mg/L	5.0	1		10/07/13 08:54		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	ND	mg/L	5.0	1		10/07/13 10:28		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		10/07/13 10:57	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.4**	mg/L	1.0	1		10/13/13 21:01	16887-00-6	
Sulfate	**36.8**	mg/L	5.0	5		10/14/13 18:16	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		10/07/13 16:49		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		10/07/13 14:02	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**3.8**	mg/L	1.5	3		10/16/13 16:36	7440-44-0	

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ANALYTICAL RESULTS

Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

Sample: DR-12_20130930 **Lab ID: 60154491005** Collected: 09/30/13 15:10 Received: 10/02/13 10:00 Matrix: Water

Comments: • All reported results confirmed for total vs. dissolved metals

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7	Preparation Method: EPA 200.7						
Calcium, Dissolved	**27800**	ug/L	100	1	10/14/13 20:30	10/15/13 16:34	7440-70-2	
Magnesium, Dissolved	**4240**	ug/L	50.0	1	10/14/13 20:30	10/15/13 16:34	7439-95-4	
Potassium, Dissolved	**502**	ug/L	500	1	10/14/13 20:30	10/15/13 16:34	7440-09-7	
Sodium, Dissolved	**1850**	ug/L	500	1	10/14/13 20:30	10/15/13 16:34	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8	Preparation Method: EPA 200.8						
Aluminum	**153**	ug/L	4.0	1	10/15/13 13:21	10/24/13 16:10	7429-90-5	
Antimony	ND	ug/L	0.50	1	10/15/13 13:21	10/24/13 16:10	7440-36-0	
Arsenic	ND	ug/L	0.50	1	10/15/13 13:21	10/24/13 16:10	7440-38-2	
Barium	**53.2**	ug/L	0.30	1	10/15/13 13:21	10/24/13 16:10	7440-39-3	
Beryllium	ND	ug/L	0.20	1	10/15/13 13:21	10/24/13 16:10	7440-41-7	
Cadmium	ND	ug/L	0.080	1	10/15/13 13:21	10/24/13 16:10	7440-43-9	
Calcium	**26200**	ug/L	200	10	10/15/13 13:21	10/23/13 22:32	7440-70-2	
Chromium	ND	ug/L	0.50	1	10/15/13 13:21	10/24/13 16:10	7440-47-3	
Cobalt	ND	ug/L	0.50	1	10/15/13 13:21	10/24/13 16:10	7440-48-4	
Copper	**0.80**	ug/L	0.50	1	10/15/13 13:21	10/24/13 16:10	7440-50-8	
Iron	**146**	ug/L	50.0	1	10/15/13 13:21	10/24/13 16:10	7439-89-6	
Lead	**0.20**	ug/L	0.10	1	10/15/13 13:21	10/24/13 16:10	7439-92-1	
Magnesium	**4370**	ug/L	5.0	1	10/15/13 13:21	10/24/13 16:10	7439-95-4	
Manganese	**11.3**	ug/L	0.50	1	10/15/13 13:21	10/24/13 16:10	7439-96-5	
Molybdenum	**0.65**	ug/L	0.50	1	10/15/13 13:21	10/24/13 16:10	7439-98-7	
Nickel	**0.68**	ug/L	0.50	1	10/15/13 13:21	10/24/13 16:10	7440-02-0	
Potassium	**562**	ug/L	20.0	1	10/15/13 13:21	10/24/13 16:10	7440-09-7	
Selenium	ND	ug/L	0.50	1	10/15/13 13:21	10/24/13 16:10	7782-49-2	
Silica	**6040**	ug/L	535	10	10/15/13 13:21	10/23/13 22:32	7631-86-9	
Silver	ND	ug/L	0.50	1	10/15/13 13:21	10/24/13 16:10	7440-22-4	
Sodium	**1920**	ug/L	50.0	1	10/15/13 13:21	10/24/13 16:10	7440-23-5	
Thallium	ND	ug/L	0.10	1	10/15/13 13:21	10/24/13 16:10	7440-28-0	
Total Hardness by 2340B	**83400**	ug/L	710	10	10/15/13 13:21	10/23/13 22:32		
Vanadium	**0.39**	ug/L	0.10	1	10/15/13 13:21	10/24/13 16:10	7440-62-2	
Zinc	ND	ug/L	5.0	1	10/15/13 13:21	10/24/13 16:10	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8	Preparation Method: EPA 200.8						
Aluminum, Dissolved	**25.6**	ug/L	4.0	1	10/15/13 13:19	10/18/13 20:40	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	10/15/13 13:19	10/18/13 20:40	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	10/15/13 13:19	10/18/13 20:40	7440-38-2	
Barium, Dissolved	**54.4**	ug/L	0.30	1	10/15/13 13:19	10/18/13 20:40	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	10/15/13 13:19	10/18/13 20:40	7440-41-7	
Cadmium, Dissolved	ND	ug/L	0.080	1	10/15/13 13:19	10/18/13 20:40	7440-43-9	
Calcium, Dissolved	**30100**	ug/L	100	5	10/15/13 13:19	10/21/13 17:04	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	10/15/13 13:19	10/18/13 20:40	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	10/15/13 13:19	10/18/13 20:40	7440-48-4	
Copper, Dissolved	**1.1**	ug/L	0.50	1	10/15/13 13:19	10/18/13 20:40	7440-50-8	
Iron, Dissolved	ND	ug/L	50.0	1	10/15/13 13:19	10/18/13 20:40	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	10/15/13 13:19	10/18/13 20:40	7439-92-1	

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ANALYTICAL RESULTS

Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

Sample: DR-12_20130930 **Lab ID: 60154491005** Collected: 09/30/13 15:10 Received: 10/02/13 10:00 Matrix: Water

Comments: • All reported results confirmed for total vs. dissolved metals

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8		Preparation Method: EPA 200.8					
Magnesium, Dissolved	**4500**	ug/L	5.0	1	10/15/13 13:19	10/18/13 20:40	7439-95-4	
Manganese, Dissolved	**9.1**	ug/L	0.50	1	10/15/13 13:19	10/18/13 20:40	7439-96-5	
Molybdenum, Dissolved	**0.62**	ug/L	0.50	1	10/15/13 13:19	10/18/13 20:40	7439-98-7	
Nickel, Dissolved	**0.90**	ug/L	0.50	1	10/15/13 13:19	10/18/13 20:40	7440-02-0	
Potassium, Dissolved	**572**	ug/L	20.0	1	10/15/13 13:19	10/18/13 20:40	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	10/15/13 13:19	10/18/13 20:40	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	10/15/13 13:19	10/18/13 20:40	7440-22-4	
Sodium, Dissolved	**1940**	ug/L	50.0	1	10/15/13 13:19	10/18/13 20:40	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	10/15/13 13:19	10/18/13 20:40	7440-28-0	
Vanadium, Dissolved	**0.18**	ug/L	0.10	1	10/15/13 13:19	10/18/13 20:40	7440-62-2	
Zinc, Dissolved	ND	ug/L	5.0	1	10/15/13 13:19	10/18/13 20:40	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8		Preparation Method: EPA 200.8					
Aluminum, Dissolved	**64.8**	ug/L	50.0	1	10/14/13 20:30	10/16/13 12:49	7429-90-5	
Antimony, Dissolved	**0.065J**	ug/L	1.0	1	10/14/13 20:30	10/16/13 12:49	7440-36-0	
Arsenic, Dissolved	**0.21J**	ug/L	1.0	1	10/14/13 20:30	10/16/13 12:49	7440-38-2	
Barium, Dissolved	**54.8**	ug/L	1.0	1	10/14/13 20:30	10/16/13 12:49	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.50	1	10/14/13 20:30	10/16/13 18:31	7440-41-7	
Cadmium, Dissolved	ND	ug/L	0.50	1	10/14/13 20:30	10/16/13 12:49	7440-43-9	
Chromium, Dissolved	**0.91J**	ug/L	1.0	1	10/14/13 20:30	10/16/13 12:49	7440-47-3	
Cobalt, Dissolved	ND	ug/L	1.0	1	10/14/13 20:30	10/16/13 12:49	7440-48-4	
Copper, Dissolved	**0.79J**	ug/L	1.0	1	10/14/13 20:30	10/16/13 12:49	7440-50-8	B
Iron, Dissolved	**153**	ug/L	50.0	1	10/14/13 20:30	10/16/13 12:49	7439-89-6	B
Lead, Dissolved	**0.25J**	ug/L	1.0	1	10/14/13 20:30	10/16/13 12:49	7439-92-1	
Manganese, Dissolved	**11.5**	ug/L	1.0	1	10/14/13 20:30	10/16/13 12:49	7439-96-5	
Molybdenum, Dissolved	**0.60J**	ug/L	1.0	1	10/14/13 20:30	10/16/13 12:49	7439-98-7	B
Nickel, Dissolved	**0.32J**	ug/L	1.0	1	10/14/13 20:30	10/16/13 12:49	7440-02-0	B
Selenium, Dissolved	**0.32J**	ug/L	1.0	1	10/14/13 20:30	10/16/13 12:49	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	10/14/13 20:30	10/16/13 12:49	7440-22-4	
Thallium, Dissolved	**0.10J**	ug/L	1.0	1	10/14/13 20:30	10/16/13 12:49	7440-28-0	B
Vanadium, Dissolved	ND	ug/L	1.0	1	10/14/13 20:30	10/16/13 12:49	7440-62-2	
Zinc, Dissolved	**3.7J**	ug/L	10.0	1	10/14/13 20:30	10/16/13 12:49	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1		Preparation Method: EPA 245.1					
Mercury	ND	ug/L	0.20	1	10/15/13 09:07	10/15/13 19:40	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1		Preparation Method: EPA 245.1					
Mercury, Dissolved	ND	ug/L	0.20	1	10/15/13 09:00	10/15/13 20:23	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1		Preparation Method: EPA 245.1					
Mercury, Dissolved	ND	ug/L	0.20	1	10/15/13 09:00	10/15/13 11:54	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**181**	umhos/cm	10.0	1		10/09/13 11:18		

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ANALYTICAL RESULTS

Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

Sample: DR-12_20130930 **Lab ID: 60154491005** Collected: 09/30/13 15:10 Received: 10/02/13 10:00 Matrix: Water

Comments: • All reported results confirmed for total vs. dissolved metals

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**116**	mg/L	6.4	1		10/09/13 12:00		
Salinity (as seawater)	**0.088**	PSU	0.014	1		10/09/13 12:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**65.6**	mg/L	20.0	1		10/08/13 09:53		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		10/08/13 09:53		
Alkalinity, Total as CaCO3	**65.6**	mg/L	20.0	1		10/08/13 09:53		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**115**	mg/L	5.0	1		10/07/13 08:55		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**5.0**	mg/L	5.0	1		10/07/13 10:28		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		10/07/13 10:57	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.3**	mg/L	1.0	1		10/13/13 21:16	16887-00-6	
Sulfate	**25.1**	mg/L	2.0	2		10/14/13 18:31	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		10/07/13 17:03		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		10/07/13 14:03	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**4.6**	mg/L	0.50	1		10/14/13 22:32	7440-44-0	

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ANALYTICAL RESULTS

Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

Sample: DR-2 COMPOSITE_20130930 **Lab ID: 60154491006** Collected: 09/30/13 13:35 Received: 10/02/13 10:00 Matrix: Water

Comments: • All reported results confirmed for total vs. dissolved metals

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**30300**	ug/L	100	1	10/14/13 20:30	10/15/13 16:43	7440-70-2	
Magnesium, Dissolved	**4420**	ug/L	50.0	1	10/14/13 20:30	10/15/13 16:43	7439-95-4	
Potassium, Dissolved	**537**	ug/L	500	1	10/14/13 20:30	10/15/13 16:43	7440-09-7	
Sodium, Dissolved	**1920**	ug/L	500	1	10/14/13 20:30	10/15/13 16:43	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**153**	ug/L	4.0	1	10/15/13 13:21	10/24/13 16:47	7429-90-5	
Antimony	ND	ug/L	0.50	1	10/15/13 13:21	10/24/13 16:47	7440-36-0	
Arsenic	ND	ug/L	0.50	1	10/15/13 13:21	10/24/13 16:47	7440-38-2	
Barium	**51.9**	ug/L	0.30	1	10/15/13 13:21	10/24/13 16:47	7440-39-3	
Beryllium	ND	ug/L	0.20	1	10/15/13 13:21	10/24/13 16:47	7440-41-7	
Cadmium	ND	ug/L	0.080	1	10/15/13 13:21	10/24/13 16:47	7440-43-9	
Calcium	**27500**	ug/L	200	10	10/15/13 13:21	10/23/13 22:44	7440-70-2	
Chromium	ND	ug/L	0.50	1	10/15/13 13:21	10/24/13 16:47	7440-47-3	
Cobalt	ND	ug/L	0.50	1	10/15/13 13:21	10/24/13 16:47	7440-48-4	
Copper	**0.77**	ug/L	0.50	1	10/15/13 13:21	10/24/13 16:47	7440-50-8	
Iron	**152**	ug/L	50.0	1	10/15/13 13:21	10/24/13 16:47	7439-89-6	
Lead	**0.22**	ug/L	0.10	1	10/15/13 13:21	10/25/13 13:05	7439-92-1	
Magnesium	**4570**	ug/L	5.0	1	10/15/13 13:21	10/24/13 16:47	7439-95-4	
Manganese	**30.6**	ug/L	0.50	1	10/15/13 13:21	10/24/13 16:47	7439-96-5	
Molybdenum	**0.59**	ug/L	0.50	1	10/15/13 13:21	10/24/13 16:47	7439-98-7	
Nickel	**0.56**	ug/L	0.50	1	10/15/13 13:21	10/24/13 16:47	7440-02-0	
Potassium	**609**	ug/L	20.0	1	10/15/13 13:21	10/24/13 16:47	7440-09-7	
Selenium	ND	ug/L	0.50	1	10/15/13 13:21	10/24/13 16:47	7782-49-2	
Silica	**6150**	ug/L	535	10	10/15/13 13:21	10/23/13 22:44	7631-86-9	
Silver	ND	ug/L	0.50	1	10/15/13 13:21	10/24/13 16:47	7440-22-4	
Sodium	**2020**	ug/L	50.0	1	10/15/13 13:21	10/24/13 16:47	7440-23-5	
Thallium	ND	ug/L	0.10	1	10/15/13 13:21	10/25/13 13:05	7440-28-0	
Total Hardness by 2340B	**87400**	ug/L	710	10	10/15/13 13:21	10/23/13 22:44		
Vanadium	**0.38**	ug/L	0.10	1	10/15/13 13:21	10/24/13 16:47	7440-62-2	
Zinc	ND	ug/L	5.0	1	10/15/13 13:21	10/24/13 16:47	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**26.1**	ug/L	4.0	1	10/15/13 13:19	10/18/13 20:45	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	10/15/13 13:19	10/18/13 20:45	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	10/15/13 13:19	10/18/13 20:45	7440-38-2	
Barium, Dissolved	**53.7**	ug/L	0.30	1	10/15/13 13:19	10/18/13 20:45	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	10/15/13 13:19	10/18/13 20:45	7440-41-7	
Cadmium, Dissolved	ND	ug/L	0.080	1	10/15/13 13:19	10/18/13 20:45	7440-43-9	
Calcium, Dissolved	**32000**	ug/L	100	5	10/15/13 13:19	10/21/13 17:09	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	10/15/13 13:19	10/18/13 20:45	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	10/15/13 13:19	10/18/13 20:45	7440-48-4	
Copper, Dissolved	**1.4**	ug/L	0.50	1	10/15/13 13:19	10/18/13 20:45	7440-50-8	
Iron, Dissolved	ND	ug/L	50.0	1	10/15/13 13:19	10/18/13 20:45	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	10/15/13 13:19	10/18/13 20:45	7439-92-1	

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ANALYTICAL RESULTS

Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

Sample: DR-2 COMPOSITE_20130930 **Lab ID: 60154491006** Collected: 09/30/13 13:35 Received: 10/02/13 10:00 Matrix: Water

Comments: • All reported results confirmed for total vs. dissolved metals

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Magnesium, Dissolved	**4680**	ug/L	5.0	1	10/15/13 13:19	10/18/13 20:45	7439-95-4	
Manganese, Dissolved	**28.9**	ug/L	0.50	1	10/15/13 13:19	10/18/13 20:45	7439-96-5	
Molybdenum, Dissolved	**0.65**	ug/L	0.50	1	10/15/13 13:19	10/18/13 20:45	7439-98-7	
Nickel, Dissolved	**1.7**	ug/L	0.50	1	10/15/13 13:19	10/18/13 20:45	7440-02-0	
Potassium, Dissolved	**602**	ug/L	20.0	1	10/15/13 13:19	10/18/13 20:45	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	10/15/13 13:19	10/18/13 20:45	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	10/15/13 13:19	10/18/13 20:45	7440-22-4	
Sodium, Dissolved	**2020**	ug/L	50.0	1	10/15/13 13:19	10/18/13 20:45	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	10/15/13 13:19	10/18/13 20:45	7440-28-0	
Vanadium, Dissolved	**0.18**	ug/L	0.10	1	10/15/13 13:19	10/18/13 20:45	7440-62-2	
Zinc, Dissolved	ND	ug/L	5.0	1	10/15/13 13:19	10/18/13 20:45	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**59.7**	ug/L	50.0	1	10/14/13 20:30	10/16/13 13:01	7429-90-5	
Antimony, Dissolved	**0.060J**	ug/L	1.0	1	10/14/13 20:30	10/16/13 13:01	7440-36-0	
Arsenic, Dissolved	**0.11J**	ug/L	1.0	1	10/14/13 20:30	10/16/13 13:01	7440-38-2	
Barium, Dissolved	**55.2**	ug/L	1.0	1	10/14/13 20:30	10/16/13 13:01	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.50	1	10/14/13 20:30	10/16/13 18:38	7440-41-7	
Cadmium, Dissolved	ND	ug/L	0.50	1	10/14/13 20:30	10/16/13 13:01	7440-43-9	
Chromium, Dissolved	**0.53J**	ug/L	1.0	1	10/14/13 20:30	10/16/13 13:01	7440-47-3	
Cobalt, Dissolved	**0.096J**	ug/L	1.0	1	10/14/13 20:30	10/16/13 13:01	7440-48-4	
Copper, Dissolved	**0.87J**	ug/L	1.0	1	10/14/13 20:30	10/16/13 13:01	7440-50-8	B
Iron, Dissolved	**89.2**	ug/L	50.0	1	10/14/13 20:30	10/16/13 13:01	7439-89-6	B
Lead, Dissolved	**0.19J**	ug/L	1.0	1	10/14/13 20:30	10/16/13 13:01	7439-92-1	
Manganese, Dissolved	**34.0**	ug/L	1.0	1	10/14/13 20:30	10/16/13 13:01	7439-96-5	
Molybdenum, Dissolved	**0.66J**	ug/L	1.0	1	10/14/13 20:30	10/16/13 13:01	7439-98-7	B
Nickel, Dissolved	**0.39J**	ug/L	1.0	1	10/14/13 20:30	10/16/13 13:01	7440-02-0	B
Selenium, Dissolved	**0.42J**	ug/L	1.0	1	10/14/13 20:30	10/16/13 13:01	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	10/14/13 20:30	10/16/13 13:01	7440-22-4	
Thallium, Dissolved	**0.23J**	ug/L	1.0	1	10/14/13 20:30	10/16/13 13:01	7440-28-0	B
Vanadium, Dissolved	ND	ug/L	1.0	1	10/14/13 20:30	10/16/13 13:01	7440-62-2	
Zinc, Dissolved	**4.7J**	ug/L	10.0	1	10/14/13 20:30	10/16/13 13:01	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	10/15/13 09:07	10/15/13 19:42	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	10/15/13 09:00	10/15/13 20:25	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	10/15/13 09:00	10/15/13 11:57	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**221**	umhos/cm	10.0	1		10/09/13 11:20		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

Sample: DR-2 COMPOSITE_20130930 **Lab ID: 60154491006** Collected: 09/30/13 13:35 Received: 10/02/13 10:00 Matrix: Water

Comments: • All reported results confirmed for total vs. dissolved metals

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**141**	mg/L	6.4	1		10/09/13 12:00		
Salinity (as seawater)	**0.11**	PSU	0.014	1		10/09/13 12:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**66.4**	mg/L	20.0	1		10/08/13 10:06		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		10/08/13 10:06		
Alkalinity, Total as CaCO3	**66.4**	mg/L	20.0	1		10/08/13 10:06		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**125**	mg/L	5.0	1		10/07/13 08:55		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	ND	mg/L	5.0	1		10/07/13 10:29		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		10/07/13 10:59	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.3**	mg/L	1.0	1		10/13/13 22:02	16887-00-6	
Sulfate	**29.3**	mg/L	2.0	2		10/14/13 18:46	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		10/07/13 17:03		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		10/07/13 14:06	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**3.9**	mg/L	0.50	1		10/14/13 22:51	7440-44-0	

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ANALYTICAL RESULTS

Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

Sample: DR-7 COMPOSITE_20130930 **Lab ID: 60154491007** Collected: 09/30/13 12:55 Received: 10/02/13 10:00 Matrix: Water

Comments: • All reported results confirmed for total vs. dissolved metals

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**31400**	ug/L	100	1	10/14/13 20:30	10/15/13 16:46	7440-70-2	
Magnesium, Dissolved	**4460**	ug/L	50.0	1	10/14/13 20:30	10/15/13 16:46	7439-95-4	
Potassium, Dissolved	**539**	ug/L	500	1	10/14/13 20:30	10/15/13 16:46	7440-09-7	
Sodium, Dissolved	**2020**	ug/L	500	1	10/14/13 20:30	10/15/13 16:46	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**163**	ug/L	4.0	1	10/15/13 13:21	10/24/13 16:52	7429-90-5	
Antimony	ND	ug/L	0.50	1	10/15/13 13:21	10/24/13 16:52	7440-36-0	
Arsenic	ND	ug/L	0.50	1	10/15/13 13:21	10/24/13 16:52	7440-38-2	
Barium	**53.2**	ug/L	0.30	1	10/15/13 13:21	10/24/13 16:52	7440-39-3	
Beryllium	ND	ug/L	0.20	1	10/15/13 13:21	10/24/13 16:52	7440-41-7	
Cadmium	**0.097**	ug/L	0.080	1	10/15/13 13:21	10/24/13 16:52	7440-43-9	
Calcium	**30600**	ug/L	200	10	10/15/13 13:21	10/23/13 22:56	7440-70-2	
Chromium	ND	ug/L	0.50	1	10/15/13 13:21	10/24/13 16:52	7440-47-3	
Cobalt	ND	ug/L	0.50	1	10/15/13 13:21	10/24/13 16:52	7440-48-4	
Copper	**0.80**	ug/L	0.50	1	10/15/13 13:21	10/24/13 16:52	7440-50-8	
Iron	**168**	ug/L	50.0	1	10/15/13 13:21	10/24/13 16:52	7439-89-6	
Lead	**0.20**	ug/L	0.10	1	10/15/13 13:21	10/25/13 13:10	7439-92-1	
Magnesium	**4960**	ug/L	5.0	1	10/15/13 13:21	10/24/13 16:52	7439-95-4	
Manganese	**43.7**	ug/L	0.50	1	10/15/13 13:21	10/24/13 16:52	7439-96-5	
Molybdenum	**0.73**	ug/L	0.50	1	10/15/13 13:21	10/24/13 16:52	7439-98-7	
Nickel	**0.60**	ug/L	0.50	1	10/15/13 13:21	10/24/13 16:52	7440-02-0	
Potassium	**705**	ug/L	20.0	1	10/15/13 13:21	10/24/13 16:52	7440-09-7	
Selenium	ND	ug/L	0.50	1	10/15/13 13:21	10/24/13 16:52	7782-49-2	
Silica	**6490**	ug/L	535	10	10/15/13 13:21	10/23/13 22:56	7631-86-9	
Silver	ND	ug/L	0.50	1	10/15/13 13:21	10/24/13 16:52	7440-22-4	
Sodium	**2270**	ug/L	50.0	1	10/15/13 13:21	10/24/13 16:52	7440-23-5	
Thallium	ND	ug/L	0.10	1	10/15/13 13:21	10/25/13 13:10	7440-28-0	
Total Hardness by 2340B	**96900**	ug/L	710	10	10/15/13 13:21	10/23/13 22:56		
Vanadium	**0.37**	ug/L	0.10	1	10/15/13 13:21	10/24/13 16:52	7440-62-2	
Zinc	**21.4**	ug/L	5.0	1	10/15/13 13:21	10/24/13 16:52	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**22.9**	ug/L	4.0	1	10/15/13 13:19	10/18/13 21:07	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	10/15/13 13:19	10/18/13 21:07	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	10/15/13 13:19	10/18/13 21:07	7440-38-2	
Barium, Dissolved	**53.7**	ug/L	0.30	1	10/15/13 13:19	10/18/13 21:07	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	10/15/13 13:19	10/18/13 21:07	7440-41-7	
Cadmium, Dissolved	**0.10**	ug/L	0.080	1	10/15/13 13:19	10/18/13 21:07	7440-43-9	
Calcium, Dissolved	**35000**	ug/L	100	5	10/15/13 13:19	10/21/13 17:14	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	10/15/13 13:19	10/18/13 21:07	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	10/15/13 13:19	10/18/13 21:07	7440-48-4	
Copper, Dissolved	**1.2**	ug/L	0.50	1	10/15/13 13:19	10/18/13 21:07	7440-50-8	
Iron, Dissolved	ND	ug/L	50.0	1	10/15/13 13:19	10/18/13 21:07	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	10/15/13 13:19	10/18/13 21:07	7439-92-1	

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ANALYTICAL RESULTS

Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

Sample: DR-7 COMPOSITE_20130930 **Lab ID: 60154491007** Collected: 09/30/13 12:55 Received: 10/02/13 10:00 Matrix: Water

Comments: • All reported results confirmed for total vs. dissolved metals

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Magnesium, Dissolved	**5000**	ug/L	5.0	1	10/15/13 13:19	10/18/13 21:07	7439-95-4	
Manganese, Dissolved	**41.2**	ug/L	0.50	1	10/15/13 13:19	10/18/13 21:07	7439-96-5	
Molybdenum, Dissolved	**0.79**	ug/L	0.50	1	10/15/13 13:19	10/18/13 21:07	7439-98-7	
Nickel, Dissolved	**0.66**	ug/L	0.50	1	10/15/13 13:19	10/18/13 21:07	7440-02-0	
Potassium, Dissolved	**663**	ug/L	20.0	1	10/15/13 13:19	10/18/13 21:07	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	10/15/13 13:19	10/18/13 21:07	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	10/15/13 13:19	10/18/13 21:07	7440-22-4	
Sodium, Dissolved	**2220**	ug/L	50.0	1	10/15/13 13:19	10/18/13 21:07	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	10/15/13 13:19	10/18/13 21:07	7440-28-0	
Vanadium, Dissolved	**0.16**	ug/L	0.10	1	10/15/13 13:19	10/18/13 21:07	7440-62-2	
Zinc, Dissolved	**17.2**	ug/L	5.0	1	10/15/13 13:19	10/18/13 21:07	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**60.5**	ug/L	50.0	1	10/14/13 20:30	10/16/13 13:05	7429-90-5	
Antimony, Dissolved	**0.055J**	ug/L	1.0	1	10/14/13 20:30	10/16/13 13:05	7440-36-0	
Arsenic, Dissolved	**0.19J**	ug/L	1.0	1	10/14/13 20:30	10/16/13 13:05	7440-38-2	
Barium, Dissolved	**52.2**	ug/L	1.0	1	10/14/13 20:30	10/16/13 13:05	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.50	1	10/14/13 20:30	10/16/13 18:40	7440-41-7	
Cadmium, Dissolved	**0.12J**	ug/L	0.50	1	10/14/13 20:30	10/16/13 13:05	7440-43-9	
Chromium, Dissolved	**0.66J**	ug/L	1.0	1	10/14/13 20:30	10/16/13 13:05	7440-47-3	
Cobalt, Dissolved	**0.096J**	ug/L	1.0	1	10/14/13 20:30	10/16/13 13:05	7440-48-4	
Copper, Dissolved	**1.0**	ug/L	1.0	1	10/14/13 20:30	10/16/13 13:05	7440-50-8	B
Iron, Dissolved	**101**	ug/L	50.0	1	10/14/13 20:30	10/16/13 13:05	7439-89-6	B
Lead, Dissolved	**0.17J**	ug/L	1.0	1	10/14/13 20:30	10/16/13 13:05	7439-92-1	
Manganese, Dissolved	**41.3**	ug/L	1.0	1	10/14/13 20:30	10/16/13 13:05	7439-96-5	
Molybdenum, Dissolved	**0.68J**	ug/L	1.0	1	10/14/13 20:30	10/16/13 13:05	7439-98-7	B
Nickel, Dissolved	**0.35J**	ug/L	1.0	1	10/14/13 20:30	10/16/13 13:05	7440-02-0	B
Selenium, Dissolved	**0.25J**	ug/L	1.0	1	10/14/13 20:30	10/16/13 13:05	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	10/14/13 20:30	10/16/13 13:05	7440-22-4	
Thallium, Dissolved	ND	ug/L	1.0	1	10/14/13 20:30	10/16/13 13:05	7440-28-0	
Vanadium, Dissolved	ND	ug/L	1.0	1	10/14/13 20:30	10/16/13 13:05	7440-62-2	
Zinc, Dissolved	**20.2**	ug/L	10.0	1	10/14/13 20:30	10/16/13 13:05	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	10/15/13 09:07	10/15/13 19:44	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	10/15/13 09:00	10/15/13 20:27	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	10/15/13 09:00	10/15/13 12:03	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**210**	umhos/cm	10.0	1		10/09/13 11:21		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

Sample: DR-7 COMPOSITE_20130930 **Lab ID: 60154491007** Collected: 09/30/13 12:55 Received: 10/02/13 10:00 Matrix: Water

Comments: • All reported results confirmed for total vs. dissolved metals

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**134**	mg/L	6.4	1		10/09/13 12:00		
Salinity (as seawater)	**0.10**	PSU	0.014	1		10/09/13 12:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**68.6**	mg/L	20.0	1		10/08/13 10:10		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		10/08/13 10:10		
Alkalinity, Total as CaCO3	**68.6**	mg/L	20.0	1		10/08/13 10:10		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**138**	mg/L	5.0	1		10/07/13 08:56		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	ND	mg/L	5.0	1		10/07/13 10:29		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		10/07/13 10:59	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.3**	mg/L	1.0	1		10/13/13 22:17	16887-00-6	
Sulfate	**34.3**	mg/L	5.0	5		10/14/13 19:01	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		10/07/13 17:04		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		10/07/13 14:06	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**4.0**	mg/L	0.50	1		10/14/13 23:10	7440-44-0	

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ANALYTICAL RESULTS

Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

Sample: DR-4-SW COMPOSITE_20130930 **Lab ID: 60154491008** Collected: 09/30/13 11:25 Received: 10/02/13 10:00 Matrix: Water

Comments: • All reported results confirmed for total vs. dissolved metals

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**35800**	ug/L	100	1	10/14/13 20:30	10/15/13 16:49	7440-70-2	
Magnesium, Dissolved	**4970**	ug/L	50.0	1	10/14/13 20:30	10/15/13 16:49	7439-95-4	
Potassium, Dissolved	**628**	ug/L	500	1	10/14/13 20:30	10/15/13 16:49	7440-09-7	
Sodium, Dissolved	**2180**	ug/L	500	1	10/14/13 20:30	10/15/13 16:49	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**120**	ug/L	4.0	1	10/15/13 13:21	10/24/13 16:57	7429-90-5	
Antimony	ND	ug/L	0.50	1	10/15/13 13:21	10/24/13 16:57	7440-36-0	
Arsenic	ND	ug/L	0.50	1	10/15/13 13:21	10/24/13 16:57	7440-38-2	
Barium	**56.2**	ug/L	0.30	1	10/15/13 13:21	10/24/13 16:57	7440-39-3	
Beryllium	ND	ug/L	0.20	1	10/15/13 13:21	10/24/13 16:57	7440-41-7	
Cadmium	**0.29**	ug/L	0.080	1	10/15/13 13:21	10/24/13 16:57	7440-43-9	
Calcium	**32700**	ug/L	200	10	10/15/13 13:21	10/23/13 23:27	7440-70-2	
Chromium	ND	ug/L	0.50	1	10/15/13 13:21	10/24/13 16:57	7440-47-3	
Cobalt	ND	ug/L	0.50	1	10/15/13 13:21	10/24/13 16:57	7440-48-4	
Copper	**1.3**	ug/L	0.50	1	10/15/13 13:21	10/24/13 16:57	7440-50-8	
Iron	**136**	ug/L	50.0	1	10/15/13 13:21	10/24/13 16:57	7439-89-6	
Lead	**0.30**	ug/L	0.10	1	10/15/13 13:21	10/25/13 13:15	7439-92-1	
Magnesium	**4960**	ug/L	5.0	1	10/15/13 13:21	10/24/13 16:57	7439-95-4	
Manganese	**53.0**	ug/L	0.50	1	10/15/13 13:21	10/24/13 16:57	7439-96-5	
Molybdenum	**0.72**	ug/L	0.50	1	10/15/13 13:21	10/24/13 16:57	7439-98-7	
Nickel	**0.60**	ug/L	0.50	1	10/15/13 13:21	10/24/13 16:57	7440-02-0	
Potassium	**661**	ug/L	20.0	1	10/15/13 13:21	10/24/13 16:57	7440-09-7	
Selenium	ND	ug/L	0.50	1	10/15/13 13:21	10/24/13 16:57	7782-49-2	
Silica	**6730**	ug/L	535	10	10/15/13 13:21	10/23/13 23:27	7631-86-9	
Silver	ND	ug/L	0.50	1	10/15/13 13:21	10/24/13 16:57	7440-22-4	
Sodium	**2220**	ug/L	50.0	1	10/15/13 13:21	10/24/13 16:57	7440-23-5	
Thallium	ND	ug/L	0.10	1	10/15/13 13:21	10/25/13 13:15	7440-28-0	
Total Hardness by 2340B	**102000**	ug/L	710	10	10/15/13 13:21	10/23/13 23:27		
Vanadium	**0.30**	ug/L	0.10	1	10/15/13 13:21	10/24/13 16:57	7440-62-2	
Zinc	**62.4**	ug/L	5.0	1	10/15/13 13:21	10/24/13 16:57	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**22.4**	ug/L	4.0	1	10/15/13 13:19	10/18/13 21:12	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	10/15/13 13:19	10/18/13 21:12	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	10/15/13 13:19	10/18/13 21:12	7440-38-2	
Barium, Dissolved	**56.9**	ug/L	0.30	1	10/15/13 13:19	10/18/13 21:12	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	10/15/13 13:19	10/18/13 21:12	7440-41-7	
Cadmium, Dissolved	**0.32**	ug/L	0.080	1	10/15/13 13:19	10/18/13 21:12	7440-43-9	
Calcium, Dissolved	**37600**	ug/L	100	5	10/15/13 13:19	10/21/13 17:41	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	10/15/13 13:19	10/18/13 21:12	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	10/15/13 13:19	10/18/13 21:12	7440-48-4	
Copper, Dissolved	**2.1**	ug/L	0.50	1	10/15/13 13:19	10/18/13 21:12	7440-50-8	
Iron, Dissolved	ND	ug/L	50.0	1	10/15/13 13:19	10/18/13 21:12	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	10/15/13 13:19	10/18/13 21:12	7439-92-1	

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ANALYTICAL RESULTS

Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

Sample: DR-4-SW COMPOSITE_20130930 **Lab ID: 60154491008** Collected: 09/30/13 11:25 Received: 10/02/13 10:00 Matrix: Water

Comments: • All reported results confirmed for total vs. dissolved metals

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8		Preparation Method: EPA 200.8					
Magnesium, Dissolved	**5270**	ug/L	5.0	1	10/15/13 13:19	10/18/13 21:12	7439-95-4	
Manganese, Dissolved	**56.9**	ug/L	0.50	1	10/15/13 13:19	10/18/13 21:12	7439-96-5	
Molybdenum, Dissolved	**0.80**	ug/L	0.50	1	10/15/13 13:19	10/18/13 21:12	7439-98-7	
Nickel, Dissolved	**5.3**	ug/L	0.50	1	10/15/13 13:19	10/18/13 21:12	7440-02-0	
Potassium, Dissolved	**693**	ug/L	20.0	1	10/15/13 13:19	10/18/13 21:12	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	10/15/13 13:19	10/18/13 21:12	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	10/15/13 13:19	10/18/13 21:12	7440-22-4	
Sodium, Dissolved	**2270**	ug/L	50.0	1	10/15/13 13:19	10/18/13 21:12	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	10/15/13 13:19	10/18/13 21:12	7440-28-0	
Vanadium, Dissolved	**0.14**	ug/L	0.10	1	10/15/13 13:19	10/18/13 21:12	7440-62-2	
Zinc, Dissolved	**59.0**	ug/L	5.0	1	10/15/13 13:19	10/18/13 21:12	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8		Preparation Method: EPA 200.8					
Aluminum, Dissolved	**83.0**	ug/L	50.0	1	10/14/13 20:30	10/16/13 13:09	7429-90-5	
Antimony, Dissolved	**0.075J**	ug/L	1.0	1	10/14/13 20:30	10/16/13 13:09	7440-36-0	
Arsenic, Dissolved	**0.29J**	ug/L	1.0	1	10/14/13 20:30	10/16/13 13:09	7440-38-2	
Barium, Dissolved	**59.3**	ug/L	1.0	1	10/14/13 20:30	10/16/13 13:09	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.50	1	10/14/13 20:30	10/16/13 18:42	7440-41-7	
Cadmium, Dissolved	**0.32J**	ug/L	0.50	1	10/14/13 20:30	10/16/13 13:09	7440-43-9	
Chromium, Dissolved	**1.0**	ug/L	1.0	1	10/14/13 20:30	10/16/13 13:09	7440-47-3	
Cobalt, Dissolved	**0.13J**	ug/L	1.0	1	10/14/13 20:30	10/16/13 13:09	7440-48-4	
Copper, Dissolved	**1.8**	ug/L	1.0	1	10/14/13 20:30	10/16/13 13:09	7440-50-8	B
Iron, Dissolved	**222**	ug/L	50.0	1	10/14/13 20:30	10/16/13 13:09	7439-89-6	
Lead, Dissolved	**0.37J**	ug/L	1.0	1	10/14/13 20:30	10/16/13 13:09	7439-92-1	
Manganese, Dissolved	**56.6**	ug/L	1.0	1	10/14/13 20:30	10/16/13 13:09	7439-96-5	
Molybdenum, Dissolved	**0.74J**	ug/L	1.0	1	10/14/13 20:30	10/16/13 13:09	7439-98-7	B
Nickel, Dissolved	**0.45J**	ug/L	1.0	1	10/14/13 20:30	10/16/13 13:09	7440-02-0	B
Selenium, Dissolved	**0.34J**	ug/L	1.0	1	10/14/13 20:30	10/16/13 13:09	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	10/14/13 20:30	10/16/13 13:09	7440-22-4	
Thallium, Dissolved	**0.23J**	ug/L	1.0	1	10/14/13 20:30	10/16/13 13:09	7440-28-0	B
Vanadium, Dissolved	ND	ug/L	1.0	1	10/14/13 20:30	10/16/13 13:09	7440-62-2	
Zinc, Dissolved	**63.5**	ug/L	10.0	1	10/14/13 20:30	10/16/13 13:09	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1		Preparation Method: EPA 245.1					
Mercury	ND	ug/L	0.20	1	10/15/13 09:07	10/15/13 19:46	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1		Preparation Method: EPA 245.1					
Mercury, Dissolved	ND	ug/L	0.20	1	10/15/13 09:00	10/15/13 20:29	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1		Preparation Method: EPA 245.1					
Mercury, Dissolved	ND	ug/L	0.20	1	10/15/13 09:00	10/15/13 12:06	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**229**	umhos/cm	10.0	1		10/09/13 11:22		

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ANALYTICAL RESULTS

Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

Sample: DR-4-SW COMPOSITE_20130930 **Lab ID: 60154491008** Collected: 09/30/13 11:25 Received: 10/02/13 10:00 Matrix: Water

Comments: • All reported results confirmed for total vs. dissolved metals

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**146**	mg/L	6.4	1		10/11/13 13:00		
Salinity (as seawater)	**0.11**	PSU	0.014	1		10/11/13 13:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**74.4**	mg/L	20.0	1		10/08/13 10:18		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		10/08/13 10:18		
Alkalinity, Total as CaCO3	**74.4**	mg/L	20.0	1		10/08/13 10:18		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**139**	mg/L	5.0	1		10/07/13 08:58		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	ND	mg/L	5.0	1		10/07/13 10:29		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		10/07/13 10:59	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.4**	mg/L	1.0	1		10/13/13 22:32	16887-00-6	
Sulfate	**36.3**	mg/L	5.0	5		10/14/13 19:16	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		10/07/13 17:05		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		10/07/13 14:07	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**3.8**	mg/L	0.50	1		10/14/13 23:28	7440-44-0	

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Appendix D

Laboratory QC Results

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QUALITY CONTROL DATA

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

QC Batch: MERP/9286 Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury
Associated Lab Samples: 60153027001, 60153027002, 60153027003, 60153027004, 60153027005, 60153027006, 60153027007, 60153027008, 60153027009, 60153027010, 60153027011, 60153027012

METHOD BLANK: 1528506 Matrix: Water
Associated Lab Samples: 60153027001, 60153027002, 60153027003, 60153027004, 60153027005, 60153027006, 60153027007, 60153027008, 60153027009, 60153027010, 60153027011, 60153027012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	09/26/13 12:32	

LABORATORY CONTROL SAMPLE: 1528507

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.7	114	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1528508 1528509

Parameter	Units	60153027001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	5.4	5.4	107	107	85-115	0	20	

MATRIX SPIKE SAMPLE: 1534550

Parameter	Units	60153027011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	5	6.1	121	85-115	M1

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QUALITY CONTROL DATA

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

QC Batch: MERP/9361 — Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 — Analysis Description: 245.1 Mercury - Dissolved
Associated Lab Samples: 60153027001, 60153027002, 60153027003, 60153027004, 60153027005, 60153027006, 60153027007, 60153027008, 60153027009, 60153027010, 60153027011, 60153027012

METHOD BLANK: 1535927 — Matrix: Water
Associated Lab Samples: 60153027001, 60153027002, 60153027003, 60153027004, 60153027005, 60153027006, 60153027007, 60153027008, 60153027009, 60153027010, 60153027011, 60153027012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	09/26/13 16:57	

LABORATORY CONTROL SAMPLE: 1535928

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.1	102	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1535929 1535930

Parameter	Units	60153027003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	5	5	5.2	5.0	103	101	85-115	2	20	

MATRIX SPIKE SAMPLE: 1535931

Parameter	Units	60153027011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	ND	5	5.1	103	85-115	

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QUALITY CONTROL DATA

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

QC Batch: MERP/7739 | Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 | Analysis Description: 245.1 Mercury, Potentially Dissolved
Associated Lab Samples: 60153027001, 60153027002, 60153027003, 60153027004, 60153027005, 60153027006, 60153027007, 60153027008, 60153027009, 60153027010, 60153027011, 60153027012

METHOD BLANK: 1258897 | Matrix: Water
Associated Lab Samples: 60153027001, 60153027002, 60153027003, 60153027004, 60153027005, 60153027006, 60153027007, 60153027008, 60153027009, 60153027010, 60153027011, 60153027012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	09/25/13 17:09	

LABORATORY CONTROL SAMPLE: 1258898

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.1	102	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1258899 1258900

Parameter	Units	60153027003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	5	5	5.2	5.4	104	107	70-130	3	20	

MATRIX SPIKE SAMPLE: 1258901

Parameter	Units	60153027002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	ND	5	5.1	102	70-130	

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QUALITY CONTROL DATA

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

QC Batch: MPRP/24390 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Potentially Dissolved Metals
Associated Lab Samples: 60153027001, 60153027002, 60153027003, 60153027004, 60153027005, 60153027006, 60153027007, 60153027008, 60153027009, 60153027010, 60153027011, 60153027012

METHOD BLANK: 1258697 Matrix: Water
Associated Lab Samples: 60153027001, 60153027002, 60153027003, 60153027004, 60153027005, 60153027006, 60153027007, 60153027008, 60153027009, 60153027010, 60153027011, 60153027012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Calcium, Dissolved	ug/L	ND	100	09/25/13 09:03	
Magnesium, Dissolved	ug/L	ND	50.0	09/25/13 09:03	
Potassium, Dissolved	ug/L	ND	500	09/25/13 09:03	
Sodium, Dissolved	ug/L	ND	500	09/25/13 09:03	

LABORATORY CONTROL SAMPLE: 1258698

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium, Dissolved	ug/L	10000	10300	103	85-115	
Magnesium, Dissolved	ug/L	10000	10100	101	85-115	
Potassium, Dissolved	ug/L	10000	10100	101	85-115	
Sodium, Dissolved	ug/L	10000	10000	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1258699 1258700

Parameter	Units	60153027001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium, Dissolved	ug/L	245000	10000	10000	250000	254000	57	93	70-130	1	20	M1
Magnesium, Dissolved	ug/L	19400	10000	10000	28600	29000	92	96	70-130	2	20	
Potassium, Dissolved	ug/L	3190	10000	10000	13300	13300	101	101	70-130	0	20	
Sodium, Dissolved	ug/L	13800	10000	10000	23400	23600	96	98	70-130	1	20	

MATRIX SPIKE SAMPLE: 1258701

Parameter	Units	60153027010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Calcium, Dissolved	ug/L	318000	10000	324000	60	70-130	M1
Magnesium, Dissolved	ug/L	51300	10000	59800	85	70-130	
Potassium, Dissolved	ug/L	8130	10000	18800	107	70-130	
Sodium, Dissolved	ug/L	7890	10000	18500	106	70-130	

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QUALITY CONTROL DATA

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

QC Batch: MPRP/41971 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: 200.8 MET
Associated Lab Samples: 60153027001, 60153027002, 60153027003, 60153027004, 60153027005, 60153027006, 60153027007, 60153027008, 60153027009, 60153027010, 60153027011, 60153027012

METHOD BLANK: 1528889 Matrix: Water
Associated Lab Samples: 60153027001, 60153027002, 60153027003, 60153027004, 60153027005, 60153027006, 60153027007, 60153027008, 60153027009, 60153027010, 60153027011, 60153027012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	4.0	09/26/13 15:06	
Antimony	ug/L	ND	0.50	09/26/13 15:06	
Arsenic	ug/L	ND	0.50	09/26/13 15:06	
Barium	ug/L	ND	0.30	09/26/13 15:06	
Beryllium	ug/L	ND	0.20	09/26/13 15:06	
Cadmium	ug/L	ND	0.080	09/26/13 15:06	
Calcium	ug/L	ND	20.0	09/26/13 15:06	
Chromium	ug/L	ND	0.50	09/26/13 15:06	
Cobalt	ug/L	ND	0.50	09/26/13 15:06	
Copper	ug/L	ND	0.50	09/26/13 15:06	
Iron	ug/L	ND	50.0	09/26/13 15:06	
Lead	ug/L	ND	0.10	09/26/13 15:06	
Magnesium	ug/L	ND	5.0	09/27/13 11:55	
Manganese	ug/L	ND	0.50	09/26/13 15:06	
Molybdenum	ug/L	ND	0.50	09/26/13 15:06	
Nickel	ug/L	ND	0.50	09/26/13 15:06	
Potassium	ug/L	ND	20.0	09/26/13 15:06	
Selenium	ug/L	ND	0.50	09/26/13 15:06	
Silver	ug/L	ND	0.50	09/26/13 15:06	
Sodium	ug/L	ND	50.0	09/26/13 15:06	
Thallium	ug/L	ND	0.10	09/26/13 15:06	
Vanadium	ug/L	ND	0.10	09/26/13 15:06	
Zinc	ug/L	ND	5.0	09/26/13 15:06	

LABORATORY CONTROL SAMPLE: 1528890

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	80	75.1	94	85-115	
Antimony	ug/L	80	80.4	100	85-115	
Arsenic	ug/L	80	82.5	103	85-115	
Barium	ug/L	80	82.1	103	85-115	
Beryllium	ug/L	80	87.4	109	85-115	
Cadmium	ug/L	80	83.8	105	85-115	
Calcium	ug/L	1000	980	98	85-115	
Chromium	ug/L	80	83.4	104	85-115	
Cobalt	ug/L	80	82.1	103	85-115	
Copper	ug/L	80	86.6	108	85-115	
Iron	ug/L	1000	967	97	85-115	
Lead	ug/L	80	84.8	106	85-115	
Magnesium	ug/L	1000	996	100	85-115	

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QUALITY CONTROL DATA

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

LABORATORY CONTROL SAMPLE: 1528890

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese	ug/L	80	80.9	101	85-115	
Molybdenum	ug/L	80	83.0	104	85-115	
Nickel	ug/L	80	85.4	107	85-115	
Potassium	ug/L	1000	1010	101	85-115	
Selenium	ug/L	80	81.1	101	85-115	
Silver	ug/L	80	82.9	104	85-115	
Sodium	ug/L	1000	995	100	85-115	
Thallium	ug/L	80	85.6	107	85-115	
Vanadium	ug/L	80	81.9	102	85-115	
Zinc	ug/L	80	82.2	103	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1528891 1528892

Parameter	Units	60153027002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	64.6	80	80	129	135	80	87	70-130	4	20	
Antimony	ug/L	ND	80	80	81.1	80.0	101	100	70-130	1	20	
Arsenic	ug/L	ND	80	80	86.0	85.3	107	106	70-130	.8	20	
Barium	ug/L	19.9	80	80	102	103	103	104	70-130	1	20	
Beryllium	ug/L	ND	80	80	84.9	85.4	106	107	70-130	.6	20	
Cadmium	ug/L	11.8	80	80	93.5	93.8	102	102	70-130	.3	20	
Calcium	ug/L	245000	1000	1000	228000	228000	-1720	-1720	70-130	0	20	E,M1
Chromium	ug/L	ND	80	80	83.8	82.5	105	103	70-130	2	20	
Cobalt	ug/L	1.8	80	80	83.3	82.2	102	100	70-130	1	20	
Copper	ug/L	14.2	80	80	97.1	95.9	104	102	70-130	1	20	
Iron	ug/L	680	1000	1000	1640	1620	96	94	70-130	.9	20	
Lead	ug/L	1.2	80	80	84.3	83.6	104	103	70-130	.9	20	
Magnesium	ug/L	19700	1000	1000	20600	20600	91	89	70-130	.1	20	
Manganese	ug/L	1410	80	80	1460	1460	68	69	70-130	.03	20	E,M1
Molybdenum	ug/L	12.9	80	80	96.7	96.3	105	104	70-130	.4	20	
Nickel	ug/L	3.4	80	80	86.6	86.5	104	104	70-130	.2	20	
Potassium	ug/L	3360	1000	1000	4310	4320	95	96	70-130	.2	20	
Selenium	ug/L	ND	80	80	82.1	82.4	102	103	70-130	.4	20	
Silver	ug/L	ND	80	80	74.8	76.5	93	96	70-130	2	20	
Sodium	ug/L	13100	1000	1000	13800	13800	75	71	70-130	.3	20	
Thallium	ug/L	ND	80	80	84.9	83.9	106	105	70-130	1	20	
Vanadium	ug/L	ND	80	80	82.5	82.4	103	103	70-130	.1	20	
Zinc	ug/L	2160	80	80	2150	2160	-4	6	70-130	.4	20	E,M1

MATRIX SPIKE SAMPLE: 1528893

Parameter	Units	60153027011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	43000	80	42300	-862	70-130	M1
Antimony	ug/L	2.8	80	75.6	91	70-130	
Arsenic	ug/L	413	80	504	114	70-130	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

MATRIX SPIKE SAMPLE: 1528893

Parameter	Units	60153027011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	72.0	80	156	105	70-130	
Beryllium	ug/L	8.8	80	95.2	108	70-130	
Cadmium	ug/L	236	80	335	124	70-130	
Calcium	ug/L	447000	1000	437000	-970	70-130	E,M1
Chromium	ug/L	0.65	80	82.8	103	70-130	
Cobalt	ug/L	87.8	80	170	103	70-130	
Copper	ug/L	919	80	937	22	70-130	M1
Iron	ug/L	483000	1000	438000	-4530	70-130	E,M1
Lead	ug/L	5240	80	4360	-1100	70-130	E,M1
Magnesium	ug/L	134000	1000	130000	-370	70-130	E,M1
Manganese	ug/L	24500	80	23300	-1480	70-130	E,M1
Molybdenum	ug/L	5.0	80	82.3	97	70-130	
Nickel	ug/L	158	80	249	114	70-130	
Potassium	ug/L	3830	1000	4790	96	70-130	
Selenium	ug/L	5.8	80	80.4	93	70-130	
Silver	ug/L	17.7	80	91.0	92	70-130	
Sodium	ug/L	15600	1000	16200	56	70-130	M1
Thallium	ug/L	1.1	80	76.7	95	70-130	
Vanadium	ug/L	11.4	80	92.8	102	70-130	
Zinc	ug/L	118000	80	95000	-29000	70-130	E,M1

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QUALITY CONTROL DATA

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

QC Batch: MPRP/41970 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: 200.8 MET Dissolved
Associated Lab Samples: 60153027001, 60153027002, 60153027003, 60153027004, 60153027005, 60153027006, 60153027007, 60153027008, 60153027009, 60153027010, 60153027011, 60153027012

METHOD BLANK: 1528881 Matrix: Water
Associated Lab Samples: 60153027001, 60153027002, 60153027003, 60153027004, 60153027005, 60153027006, 60153027007, 60153027008, 60153027009, 60153027010, 60153027011, 60153027012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	4.0	09/26/13 18:59	
Antimony, Dissolved	ug/L	ND	0.50	09/26/13 18:59	
Arsenic, Dissolved	ug/L	ND	0.50	09/26/13 18:59	
Barium, Dissolved	ug/L	ND	0.30	09/26/13 18:59	
Beryllium, Dissolved	ug/L	ND	0.20	09/26/13 18:59	
Cadmium, Dissolved	ug/L	ND	0.080	09/26/13 18:59	
Calcium, Dissolved	ug/L	ND	20.0	09/26/13 18:59	
Chromium, Dissolved	ug/L	ND	0.50	09/26/13 18:59	
Cobalt, Dissolved	ug/L	ND	0.50	09/26/13 18:59	
Copper, Dissolved	ug/L	ND	0.50	09/26/13 18:59	
Iron, Dissolved	ug/L	ND	50.0	09/26/13 18:59	
Lead, Dissolved	ug/L	ND	0.10	09/26/13 18:59	
Magnesium, Dissolved	ug/L	ND	5.0	09/26/13 18:59	
Manganese, Dissolved	ug/L	ND	0.50	09/26/13 18:59	
Molybdenum, Dissolved	ug/L	ND	0.50	09/26/13 18:59	
Nickel, Dissolved	ug/L	ND	0.50	09/26/13 18:59	
Potassium, Dissolved	ug/L	ND	20.0	09/26/13 18:59	
Selenium, Dissolved	ug/L	ND	0.50	09/26/13 18:59	
Silver, Dissolved	ug/L	ND	0.50	09/26/13 18:59	
Sodium, Dissolved	ug/L	ND	50.0	09/26/13 18:59	
Thallium, Dissolved	ug/L	ND	0.10	09/26/13 18:59	
Vanadium, Dissolved	ug/L	ND	0.10	09/26/13 18:59	
Zinc, Dissolved	ug/L	ND	5.0	09/26/13 18:59	

LABORATORY CONTROL SAMPLE: 1528882

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	80	75.6	95	85-115	
Antimony, Dissolved	ug/L	80	78.5	98	85-115	
Arsenic, Dissolved	ug/L	80	82.5	103	85-115	
Barium, Dissolved	ug/L	80	80.2	100	85-115	
Beryllium, Dissolved	ug/L	80	86.4	108	85-115	
Cadmium, Dissolved	ug/L	80	82.1	103	85-115	
Calcium, Dissolved	ug/L	1000	1000	100	85-115	
Chromium, Dissolved	ug/L	80	83.3	104	85-115	
Cobalt, Dissolved	ug/L	80	82.6	103	85-115	
Copper, Dissolved	ug/L	80	87.3	109	85-115	
Iron, Dissolved	ug/L	1000	967	97	85-115	
Lead, Dissolved	ug/L	80	78.4	98	85-115	
Magnesium, Dissolved	ug/L	1000	1030	103	85-115	

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QUALITY CONTROL DATA

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

LABORATORY CONTROL SAMPLE: 1528882

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese, Dissolved	ug/L	80	80.3	100	85-115	
Molybdenum, Dissolved	ug/L	80	83.0	104	85-115	
Nickel, Dissolved	ug/L	80	85.9	107	85-115	
Potassium, Dissolved	ug/L	1000	1010	101	85-115	
Selenium, Dissolved	ug/L	80	80.5	101	85-115	
Silver, Dissolved	ug/L	80	82.4	103	85-115	
Sodium, Dissolved	ug/L	1000	978	98	85-115	
Thallium, Dissolved	ug/L	80	78.8	99	85-115	
Vanadium, Dissolved	ug/L	80	82.5	103	85-115	
Zinc, Dissolved	ug/L	80	85.8	107	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1528883 1528884

Parameter	Units	60153027002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	ug/L	ND	80	80	88.7	80.3	108	98	70-130	10	20	
Antimony, Dissolved	ug/L	ND	80	80	80.7	80.6	101	101	70-130	.1	20	
Arsenic, Dissolved	ug/L	ND	80	80	86.5	85.4	108	106	70-130	1	20	
Barium, Dissolved	ug/L	19.4	80	80	103	103	104	104	70-130	.2	20	
Beryllium, Dissolved	ug/L	ND	80	80	84.9	84.1	106	105	70-130	1	20	
Cadmium, Dissolved	ug/L	6.5	80	80	88.8	88.7	103	103	70-130	.09	20	
Calcium, Dissolved	ug/L	231000	1000	1000	229000	236000	-240	440	70-130	3	20	E,M1
Chromium, Dissolved	ug/L	ND	80	80	82.5	82.4	103	103	70-130	.1	20	
Cobalt, Dissolved	ug/L	1.8	80	80	83.9	83.5	103	102	70-130	.5	20	
Copper, Dissolved	ug/L	1.2	80	80	83.7	83.5	103	103	70-130	.3	20	
Iron, Dissolved	ug/L	ND	1000	1000	962	964	94	94	70-130	.1	20	
Lead, Dissolved	ug/L	ND	80	80	80.7	80.2	101	100	70-130	.5	20	
Magnesium, Dissolved	ug/L	19700	1000	1000	21100	21500	138	184	70-130	2	20	M1
Manganese, Dissolved	ug/L	1390	80	80	1440	1470	66	108	70-130	2	20	E,M1
Molybdenum, Dissolved	ug/L	12.6	80	80	97.9	96.8	107	105	70-130	1	20	
Nickel, Dissolved	ug/L	4.9	80	80	88.7	89.0	105	105	70-130	.3	20	
Potassium, Dissolved	ug/L	3400	1000	1000	4350	4450	95	105	70-130	2	20	
Selenium, Dissolved	ug/L	ND	80	80	84.1	83.5	105	104	70-130	.7	20	
Silver, Dissolved	ug/L	ND	80	80	75.3	76.6	94	96	70-130	2	20	
Sodium, Dissolved	ug/L	13000	1000	1000	14000	14300	101	128	70-130	2	20	
Thallium, Dissolved	ug/L	ND	80	80	82.5	81.2	103	101	70-130	2	20	
Vanadium, Dissolved	ug/L	ND	80	80	83.1	82.4	104	103	70-130	.8	20	
Zinc, Dissolved	ug/L	1920	80	80	1970	2010	61	111	70-130	2	20	E,M1

MATRIX SPIKE SAMPLE: 1528885

Parameter	Units	60153027011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	36600	80	36100	-569	70-130	M1
Antimony, Dissolved	ug/L	ND	80	80.6	100	70-130	
Arsenic, Dissolved	ug/L	270	80	357	109	70-130	

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QUALITY CONTROL DATA

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

MATRIX SPIKE SAMPLE: 1528885

Parameter	Units	60153027011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Barium, Dissolved	ug/L	9.9	80	93.0	104	70-130	
Beryllium, Dissolved	ug/L	8.0	80	93.8	107	70-130	
Cadmium, Dissolved	ug/L	211	80	305	118	70-130	
Calcium, Dissolved	ug/L	439000	1000	436000	-310	70-130	E,M1
Chromium, Dissolved	ug/L	ND	80	73.8	92	70-130	
Cobalt, Dissolved	ug/L	82.5	80	168	107	70-130	
Copper, Dissolved	ug/L	49.8	80	136	108	70-130	
Iron, Dissolved	ug/L	427000	1000	391000	-3620	70-130	E,M1
Lead, Dissolved	ug/L	1170	80	1180	10	70-130	M1
Magnesium, Dissolved	ug/L	130000	1000	128000	-249	70-130	E,M1
Manganese, Dissolved	ug/L	23500	80	22400	-1270	70-130	E,M1
Molybdenum, Dissolved	ug/L	ND	80	84.8	106	70-130	
Nickel, Dissolved	ug/L	152	80	248	120	70-130	
Potassium, Dissolved	ug/L	2330	1000	3250	92	70-130	
Selenium, Dissolved	ug/L	4.4	80	87.8	104	70-130	
Silver, Dissolved	ug/L	ND	80	68.2	85	70-130	
Sodium, Dissolved	ug/L	15700	1000	16200	47	70-130	M1
Thallium, Dissolved	ug/L	0.40	80	73.3	91	70-130	
Vanadium, Dissolved	ug/L	2.7	80	83.7	101	70-130	
Zinc, Dissolved	ug/L	113000	80	92900	-25200	70-130	E,M1

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QUALITY CONTROL DATA

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

QC Batch: MPRP/24391 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: 200.8 Potentially Dissolved Metals
Associated Lab Samples: 60153027001, 60153027002, 60153027003, 60153027004, 60153027005, 60153027006, 60153027007, 60153027008, 60153027009, 60153027010, 60153027011, 60153027012

METHOD BLANK: 1258706 Matrix: Water
Associated Lab Samples: 60153027001, 60153027002, 60153027003, 60153027004, 60153027005, 60153027006, 60153027007, 60153027008, 60153027009, 60153027010, 60153027011, 60153027012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	50.0	09/26/13 10:46	
Antimony, Dissolved	ug/L	ND	1.0	09/26/13 10:46	
Arsenic, Dissolved	ug/L	ND	1.0	09/26/13 10:46	
Barium, Dissolved	ug/L	ND	1.0	09/26/13 10:46	
Beryllium, Dissolved	ug/L	ND	0.50	09/26/13 10:46	
Cadmium, Dissolved	ug/L	ND	0.50	09/26/13 10:46	
Chromium, Dissolved	ug/L	ND	1.0	09/26/13 10:46	
Cobalt, Dissolved	ug/L	ND	1.0	09/26/13 10:46	
Copper, Dissolved	ug/L	ND	1.0	09/26/13 10:46	
Iron, Dissolved	ug/L	ND	50.0	09/26/13 10:46	
Lead, Dissolved	ug/L	0.059J	1.0	09/26/13 10:46	
Manganese, Dissolved	ug/L	ND	1.0	09/26/13 10:46	
Molybdenum, Dissolved	ug/L	0.13J	1.0	09/26/13 10:46	
Nickel, Dissolved	ug/L	ND	1.0	09/26/13 10:46	
Selenium, Dissolved	ug/L	ND	1.0	09/26/13 10:46	
Silver, Dissolved	ug/L	ND	0.50	09/26/13 10:46	
Thallium, Dissolved	ug/L	ND	1.0	09/26/13 10:46	
Vanadium, Dissolved	ug/L	ND	1.0	09/26/13 10:46	

LABORATORY CONTROL SAMPLE: 1258707

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	1000	1030	103	85-115	
Antimony, Dissolved	ug/L	40	41.4	103	85-115	
Arsenic, Dissolved	ug/L	40	41.7	104	85-115	
Barium, Dissolved	ug/L	40	40.6	102	85-115	
Beryllium, Dissolved	ug/L	40	41.4	104	85-115	
Cadmium, Dissolved	ug/L	40	41.3	103	85-115	
Chromium, Dissolved	ug/L	40	41.6	104	85-115	
Cobalt, Dissolved	ug/L	40	41.4	103	85-115	
Copper, Dissolved	ug/L	40	41.6	104	85-115	
Iron, Dissolved	ug/L	1000	976	98	85-115	
Lead, Dissolved	ug/L	40	40.9	102	85-115	
Manganese, Dissolved	ug/L	40	41.8	105	85-115	
Molybdenum, Dissolved	ug/L	40	40.7	102	85-115	
Nickel, Dissolved	ug/L	40	41.6	104	85-115	
Selenium, Dissolved	ug/L	40	41.9	105	85-115	
Silver, Dissolved	ug/L	20	20.1	101	85-115	
Thallium, Dissolved	ug/L	40	39.2	98	85-115	
Vanadium, Dissolved	ug/L	40	41.4	104	85-115	

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QUALITY CONTROL DATA

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1258708 1258709

Parameter	Units	60153027002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	ug/L	58.4	1000	1000	1060	1070	100	101	70-130	1	20	
Antimony, Dissolved	ug/L	0.13J	40	40	41.3	41.6	103	104	70-130	1	20	
Arsenic, Dissolved	ug/L	0.24J	40	40	43.7	43.8	109	109	70-130	0	20	
Barium, Dissolved	ug/L	18.9	40	40	59.8	60.3	102	104	70-130	1	20	
Beryllium, Dissolved	ug/L	0.10J	40	40	38.6	38.9	96	97	70-130	1	20	
Cadmium, Dissolved	ug/L	11.7	40	40	51.9	52.1	100	101	70-130	0	20	
Chromium, Dissolved	ug/L	0.45J	40	40	41.3	41.9	102	104	70-130	1	20	
Cobalt, Dissolved	ug/L	1.7	40	40	42.0	41.8	101	100	70-130	1	20	
Copper, Dissolved	ug/L	14.0	40	40	52.8	52.8	97	97	70-130	0	20	
Iron, Dissolved	ug/L	693	1000	1000	1640	1650	95	96	70-130	0	20	
Lead, Dissolved	ug/L	1.3	40	40	42.6	42.9	103	104	70-130	1	20	
Manganese, Dissolved	ug/L	1430	40	40	1480	1490	120	158	70-130	1	20	M1
Molybdenum, Dissolved	ug/L	13.2	40	40	56.8	57.3	109	110	70-130	1	20	
Nickel, Dissolved	ug/L	3.4	40	40	42.9	43.4	99	100	70-130	1	20	
Selenium, Dissolved	ug/L	ND	40	40	44.5	45.1	111	113	70-130	1	20	
Silver, Dissolved	ug/L	ND	20	20	19.2	19.3	96	97	70-130	1	20	
Thallium, Dissolved	ug/L	0.064J	40	40	39.7	40.0	99	100	70-130	1	20	
Vanadium, Dissolved	ug/L	ND	40	40	41.7	41.7	104	104	70-130	0	20	

MATRIX SPIKE SAMPLE: 1258710

Parameter	Units	60153027011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	39100	1000	42800	378	70-130	M1
Antimony, Dissolved	ug/L	0.91J	40	41.1	100	70-130	
Arsenic, Dissolved	ug/L	411	40	441	77	70-130	
Barium, Dissolved	ug/L	7.7	40	49.5	104	70-130	
Beryllium, Dissolved	ug/L	8.1	40	49.5	104	70-130	
Cadmium, Dissolved	ug/L	245	40	295	125	70-130	
Chromium, Dissolved	ug/L	10.3	40	51.9	104	70-130	
Cobalt, Dissolved	ug/L	89.8	40	135	113	70-130	
Copper, Dissolved	ug/L	694	40	792	245	70-130	M1
Iron, Dissolved	ug/L	438000	1000	438000	30	70-130	M1
Lead, Dissolved	ug/L	3660	40	3640	-40	70-130	M1
Manganese, Dissolved	ug/L	25800	40	26000	588	70-130	M1
Molybdenum, Dissolved	ug/L	1.7J	40	44.4	107	70-130	
Nickel, Dissolved	ug/L	164	40	214	125	70-130	
Selenium, Dissolved	ug/L	14.0	40	58.1	110	70-130	
Silver, Dissolved	ug/L	0.64J	20	20.3	98	70-130	
Thallium, Dissolved	ug/L	0.81J	40	39.4	97	70-130	
Vanadium, Dissolved	ug/L	6.2	40	39.5	83	70-130	

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QUALITY CONTROL DATA

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

QC Batch: MPRP/24468 | Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 | Analysis Description: 200.8 Potentially Dissolved Metals
Associated Lab Samples: 60153027001, 60153027002, 60153027003, 60153027004, 60153027005, 60153027006, 60153027007, 60153027008, 60153027009, 60153027010, 60153027011, 60153027012

METHOD BLANK: 1262038 | Matrix: Water
Associated Lab Samples: 60153027001, 60153027002, 60153027003, 60153027004, 60153027005, 60153027006, 60153027007, 60153027008, 60153027009, 60153027010, 60153027011, 60153027012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Zinc, Dissolved	ug/L	ND	10.0	09/29/13 15:56	

LABORATORY CONTROL SAMPLE: 1262039

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Zinc, Dissolved	ug/L	100	107	107	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1262040 1262041

Parameter	Units	60153027006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Zinc, Dissolved	ug/L	57.3	100	100	156	220	98	163	70-130	34	20	M1,R1

MATRIX SPIKE SAMPLE: 1262042

Parameter	Units	60153027010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Zinc, Dissolved	ug/L	8330	100	8370	42	70-130	M1

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QUALITY CONTROL DATA

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

QC Batch: MT/13696 | Analysis Method: SM 2510B
QC Batch Method: SM 2510B | Analysis Description: 2510B Specific Conductance
Associated Lab Samples: 60153027001, 60153027002, 60153027003, 60153027004, 60153027005, 60153027006, 60153027007, 60153027008, 60153027009, 60153027010, 60153027011, 60153027012

METHOD BLANK: 1529800 | Matrix: Water
Associated Lab Samples: 60153027001, 60153027002, 60153027003, 60153027004, 60153027005, 60153027006, 60153027007, 60153027008, 60153027009, 60153027010, 60153027011, 60153027012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Specific Conductance	umhos/cm	ND	10.0	09/20/13 10:41	

LABORATORY CONTROL SAMPLE: 1529801

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Specific Conductance	umhos/cm	1000	984	98	90-110	

SAMPLE DUPLICATE: 1529802

Parameter	Units	60153027001 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Conductance	umhos/cm	1240	1250	.6	20	

SAMPLE DUPLICATE: 1529803

Parameter	Units	60153027010 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Conductance	umhos/cm	1790	1770	1	20	

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QUALITY CONTROL DATA

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

QC Batch: WET/43547 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 60153027001, 60153027002, 60153027003, 60153027004, 60153027005, 60153027006, 60153027007

METHOD BLANK: 1258234 Matrix: Water
Associated Lab Samples: 60153027001, 60153027002, 60153027003, 60153027004, 60153027005, 60153027006, 60153027007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	20.0	09/23/13 07:58	
Alkalinity, Total as CaCO3	mg/L	ND	20.0	09/23/13 07:58	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	20.0	09/23/13 07:58	

LABORATORY CONTROL SAMPLE: 1258235

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	486	97	90-110	

SAMPLE DUPLICATE: 1258238

Parameter	Units	60153048003 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	ND		10	
Alkalinity, Total as CaCO3	mg/L	167	167	0	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	167	167	0	10	

SAMPLE DUPLICATE: 1258239

Parameter	Units	60152902001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	ND		10	
Alkalinity, Total as CaCO3	mg/L	1350	1350	0	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	1350	1350	0	10	

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QUALITY CONTROL DATA

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

QC Batch: WET/43565 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 60153027008, 60153027009, 60153027010, 60153027011, 60153027012

METHOD BLANK: 1258759 Matrix: Water
Associated Lab Samples: 60153027008, 60153027009, 60153027010, 60153027011, 60153027012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	20.0	09/24/13 10:08	
Alkalinity, Total as CaCO3	mg/L	ND	20.0	09/24/13 10:08	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	20.0	09/24/13 10:08	

LABORATORY CONTROL SAMPLE: 1258760

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	495	99	90-110	

SAMPLE DUPLICATE: 1258763

Parameter	Units	60153027009 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	ND		10	
Alkalinity, Total as CaCO3	mg/L	412	412	0	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	412	412	0	10	

SAMPLE DUPLICATE: 1258764

Parameter	Units	60153115004 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	ND		10	
Alkalinity, Total as CaCO3	mg/L	ND	ND		10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	ND		10	

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QUALITY CONTROL DATA

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

QC Batch: WET/43442 | Analysis Method: SM 2540C
QC Batch Method: SM 2540C | Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 60153027001, 60153027002, 60153027003, 60153027004, 60153027005, 60153027006, 60153027007, 60153027008, 60153027009, 60153027010, 60153027011, 60153027012

METHOD BLANK: 1254348 | Matrix: Water
Associated Lab Samples: 60153027001, 60153027002, 60153027003, 60153027004, 60153027005, 60153027006, 60153027007, 60153027008, 60153027009, 60153027010, 60153027011, 60153027012

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	

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QUALITY CONTROL DATA

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

QC Batch: WET/43468 Analysis Method: SM 2540D
QC Batch Method: SM 2540D Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 60153027001, 60153027002, 60153027003, 60153027004, 60153027005, 60153027006, 60153027007, 60153027008, 60153027009, 60153027010, 60153027011, 60153027012

METHOD BLANK: 1255226 Matrix: Water
Associated Lab Samples: 60153027001, 60153027002, 60153027003, 60153027004, 60153027005, 60153027006, 60153027007, 60153027008, 60153027009, 60153027010, 60153027011, 60153027012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	09/18/13 10:03	

SAMPLE DUPLICATE: 1255227

Parameter	Units	60153195001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	20.0	18.0	11	25	

SAMPLE DUPLICATE: 1255228

Parameter	Units	60153027006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	256	250	2	25	

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QUALITY CONTROL DATA

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

QC Batch: WET/43470 — Analysis Method: SM 4500-S-2 D
QC Batch Method: SM 4500-S-2 D — Analysis Description: 4500S2D Sulfide, Total
Associated Lab Samples: 60153027001, 60153027002, 60153027003, 60153027004, 60153027005, 60153027006, 60153027007, 60153027008, 60153027009, 60153027010, 60153027011, 60153027012

METHOD BLANK: 1255240 — Matrix: Water
Associated Lab Samples: 60153027001, 60153027002, 60153027003, 60153027004, 60153027005, 60153027006, 60153027007, 60153027008, 60153027009, 60153027010, 60153027011, 60153027012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.050	09/18/13 11:30	

LABORATORY CONTROL SAMPLE: 1255241

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	.5	0.46	92	80-120	

MATRIX SPIKE SAMPLE: 1255242

Parameter	Units	60153027001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	ND	.5	0.42	84	75-125	

SAMPLE DUPLICATE: 1255243

Parameter	Units	60153027002 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 1255244

Parameter	Units	60153027010 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

QC Batch: WETA/26360 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60153027001, 60153027002, 60153027003, 60153027004, 60153027005, 60153027006, 60153027007, 60153027008, 60153027009, 60153027010, 60153027011, 60153027012

METHOD BLANK: 1260897 Matrix: Water
Associated Lab Samples: 60153027001, 60153027002, 60153027003, 60153027004, 60153027005, 60153027006, 60153027007, 60153027008, 60153027009, 60153027010, 60153027011, 60153027012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	09/27/13 05:33	
Sulfate	mg/L	ND	1.0	09/27/13 05:33	

METHOD BLANK: 1261653 Matrix: Water
Associated Lab Samples: 60153027001, 60153027002, 60153027003, 60153027004, 60153027005, 60153027006, 60153027007, 60153027008, 60153027009, 60153027010, 60153027011, 60153027012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	09/27/13 08:57	
Sulfate	mg/L	ND	1.0	09/27/13 08:57	

LABORATORY CONTROL SAMPLE: 1260898

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.7	94	90-110	
Sulfate	mg/L	5	4.9	98	90-110	

LABORATORY CONTROL SAMPLE: 1261654

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.7	94	90-110	
Sulfate	mg/L	5	5.0	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1260899 1260900

Parameter	Units	60153027001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	ND	5	5	5.6	5.7	92	93	80-120	1	15	
Sulfate	mg/L	634	500	500	1110	1100	95	93	80-120	1	15	M1

MATRIX SPIKE SAMPLE: 1260901

Parameter	Units	60153027002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	ND	5	5.5	90	80-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

MATRIX SPIKE SAMPLE: 1260901

Parameter	Units	60153027002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	608	500	1080	93	80-120	

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QUALITY CONTROL DATA

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

QC Batch: WETA/26218 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 60153027001, 60153027002, 60153027003, 60153027004, 60153027005, 60153027006, 60153027007, 60153027008, 60153027009, 60153027010, 60153027011, 60153027012

METHOD BLANK: 1254082 Matrix: Water
Associated Lab Samples: 60153027001, 60153027002, 60153027003, 60153027004, 60153027005, 60153027006, 60153027007, 60153027008, 60153027009, 60153027010, 60153027011, 60153027012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	0.10	09/16/13 14:10	

LABORATORY CONTROL SAMPLE: 1254083

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2	2.0	98	90-110	

MATRIX SPIKE SAMPLE: 1254084

Parameter	Units	60152990002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	8.0	10	16.2	82	90-110	M1

MATRIX SPIKE SAMPLE: 1254085

Parameter	Units	60153027001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.10	2	2.0	94	90-110	

SAMPLE DUPLICATE: 1254086

Parameter	Units	60153027006 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

QC Batch: WETA/26295 — Analysis Method: SM 4500-CN-E
QC Batch Method: SM 4500-CN-E — Analysis Description: 4500CNE Cyanide, Total
Associated Lab Samples: 60153027001, 60153027002, 60153027003, 60153027004, 60153027005, 60153027006, 60153027007, 60153027008, 60153027009, 60153027010, 60153027011, 60153027012

METHOD BLANK: 1258388 — Matrix: Water
Associated Lab Samples: 60153027001, 60153027002, 60153027003, 60153027004, 60153027005, 60153027006, 60153027007, 60153027008, 60153027009, 60153027010, 60153027011, 60153027012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	mg/L	ND	0.0050	09/23/13 15:22	

LABORATORY CONTROL SAMPLE: 1258389

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	.1	0.099	99	69-126	

MATRIX SPIKE SAMPLE: 1258390

Parameter	Units	60153027003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	ND	.1	0.095	95	41-136	

SAMPLE DUPLICATE: 1258391

Parameter	Units	60153115002 Result	Dup Result	RPD	Max RPD	Qualifiers
Cyanide	mg/L	ND	ND		26	

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QUALITY CONTROL DATA

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

QC Batch: WETA/19536 — Analysis Method: SM 5310C
QC Batch Method: SM 5310C — Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 60153027001, 60153027002, 60153027003, 60153027004, 60153027005, 60153027006, 60153027007, 60153027008, 60153027009

METHOD BLANK: 858945 — Matrix: Water
Associated Lab Samples: 60153027001, 60153027002, 60153027003, 60153027004, 60153027005, 60153027006, 60153027007, 60153027008, 60153027009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	0.50	09/21/13 00:07	

LABORATORY CONTROL SAMPLE: 858946

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	2.5	2.6	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 858947 858948

Parameter	Units	60152843001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	4.9	15	15	21.0	21.1	107	108	80-120	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 858949 858950

Parameter	Units	60152843002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	4.6	7.5	7.5	12.7	12.8	108	108	80-120	0	20	

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QUALITY CONTROL DATA

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

QC Batch: WETA/19544 | Analysis Method: SM 5310C
QC Batch Method: SM 5310C | Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 60153027010, 60153027011, 60153027012

METHOD BLANK: 859107 | Matrix: Water
Associated Lab Samples: 60153027010, 60153027011, 60153027012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	0.50	09/24/13 19:02	

LABORATORY CONTROL SAMPLE: 859108

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	2.5	2.4	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 859109 859110

Parameter	Units	60153115001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	ND	2.5	2.5	2.8	2.8	112	112	80-120	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 859111 859112

Parameter	Units	60153115002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	2.1	2.5	2.5	3.2	3.0	44	38	80-120	4	20	M0

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QUALIFIERS

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

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.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay
PASI-K	Pace Analytical Services - Kansas City
PASI-M	Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60153027001	**DR-3_20130911**	EPA 200.7	MPRP/24390	EPA 200.7	ICP/19015
60153027002	**DR-5_20130911**	EPA 200.7	MPRP/24390	EPA 200.7	ICP/19015
60153027003	**DR-G_20130911**	EPA 200.7	MPRP/24390	EPA 200.7	ICP/19015
60153027004	**DR-8_20130911**	EPA 200.7	MPRP/24390	EPA 200.7	ICP/19015
60153027005	**DR-9_20130911**	EPA 200.7	MPRP/24390	EPA 200.7	ICP/19015
60153027006	**GW-1_20130911**	EPA 200.7	MPRP/24390	EPA 200.7	ICP/19015
60153027007	**GW-5_20130911**	EPA 200.7	MPRP/24390	EPA 200.7	ICP/19015
60153027008	**MW-104_20130911**	EPA 200.7	MPRP/24390	EPA 200.7	ICP/19015
60153027009	**MW-4 DEEP_20130911**	EPA 200.7	MPRP/24390	EPA 200.7	ICP/19015
60153027010	**MW-5 DEEP_20130911**	EPA 200.7	MPRP/24390	EPA 200.7	ICP/19015
60153027011	**MW-5 SHALLOW_20130911**	EPA 200.7	MPRP/24390	EPA 200.7	ICP/19015
60153027012	**FB-LAB_20130911**	EPA 200.7	MPRP/24390	EPA 200.7	ICP/19015
60153027001	**DR-3_20130911**	EPA 200.8	MPRP/41971	EPA 200.8	ICPM/17698
60153027002	**DR-5_20130911**	EPA 200.8	MPRP/41971	EPA 200.8	ICPM/17698
60153027003	**DR-G_20130911**	EPA 200.8	MPRP/41971	EPA 200.8	ICPM/17698
60153027004	**DR-8_20130911**	EPA 200.8	MPRP/41971	EPA 200.8	ICPM/17698
60153027005	**DR-9_20130911**	EPA 200.8	MPRP/41971	EPA 200.8	ICPM/17698
60153027006	**GW-1_20130911**	EPA 200.8	MPRP/41971	EPA 200.8	ICPM/17698
60153027007	**GW-5_20130911**	EPA 200.8	MPRP/41971	EPA 200.8	ICPM/17698
60153027008	**MW-104_20130911**	EPA 200.8	MPRP/41971	EPA 200.8	ICPM/17698
60153027009	**MW-4 DEEP_20130911**	EPA 200.8	MPRP/41971	EPA 200.8	ICPM/17698
60153027010	**MW-5 DEEP_20130911**	EPA 200.8	MPRP/41971	EPA 200.8	ICPM/17698
60153027011	**MW-5 SHALLOW_20130911**	EPA 200.8	MPRP/41971	EPA 200.8	ICPM/17698
60153027012	**FB-LAB_20130911**	EPA 200.8	MPRP/41971	EPA 200.8	ICPM/17698
60153027001	**DR-3_20130911**	EPA 200.8	MPRP/41970	EPA 200.8	ICPM/17697
60153027002	**DR-5_20130911**	EPA 200.8	MPRP/41970	EPA 200.8	ICPM/17697
60153027003	**DR-G_20130911**	EPA 200.8	MPRP/41970	EPA 200.8	ICPM/17697
60153027004	**DR-8_20130911**	EPA 200.8	MPRP/41970	EPA 200.8	ICPM/17697
60153027005	**DR-9_20130911**	EPA 200.8	MPRP/41970	EPA 200.8	ICPM/17697
60153027006	**GW-1_20130911**	EPA 200.8	MPRP/41970	EPA 200.8	ICPM/17697
60153027007	**GW-5_20130911**	EPA 200.8	MPRP/41970	EPA 200.8	ICPM/17697
60153027008	**MW-104_20130911**	EPA 200.8	MPRP/41970	EPA 200.8	ICPM/17697
60153027009	**MW-4 DEEP_20130911**	EPA 200.8	MPRP/41970	EPA 200.8	ICPM/17697
60153027010	**MW-5 DEEP_20130911**	EPA 200.8	MPRP/41970	EPA 200.8	ICPM/17697
60153027011	**MW-5 SHALLOW_20130911**	EPA 200.8	MPRP/41970	EPA 200.8	ICPM/17697
60153027012	**FB-LAB_20130911**	EPA 200.8	MPRP/41970	EPA 200.8	ICPM/17697
60153027001	**DR-3_20130911**	EPA 200.8	MPRP/24391	EPA 200.8	ICPM/2522
60153027001	**DR-3_20130911**	EPA 200.8	MPRP/24468	EPA 200.8	ICPM/2534
60153027002	**DR-5_20130911**	EPA 200.8	MPRP/24391	EPA 200.8	ICPM/2522
60153027002	**DR-5_20130911**	EPA 200.8	MPRP/24468	EPA 200.8	ICPM/2534
60153027003	**DR-G_20130911**	EPA 200.8	MPRP/24391	EPA 200.8	ICPM/2522
60153027003	**DR-G_20130911**	EPA 200.8	MPRP/24468	EPA 200.8	ICPM/2534
60153027004	**DR-8_20130911**	EPA 200.8	MPRP/24391	EPA 200.8	ICPM/2522
60153027004	**DR-8_20130911**	EPA 200.8	MPRP/24468	EPA 200.8	ICPM/2534

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60153027005	**DR-9_20130911**	EPA 200.8	MPRP/24391	EPA 200.8	ICPM/2522
60153027005	**DR-9_20130911**	EPA 200.8	MPRP/24468	EPA 200.8	ICPM/2534
60153027006	**GW-1_20130911**	EPA 200.8	MPRP/24391	EPA 200.8	ICPM/2522
60153027006	**GW-1_20130911**	EPA 200.8	MPRP/24468	EPA 200.8	ICPM/2534
60153027007	**GW-5_20130911**	EPA 200.8	MPRP/24391	EPA 200.8	ICPM/2522
60153027007	**GW-5_20130911**	EPA 200.8	MPRP/24468	EPA 200.8	ICPM/2534
60153027008	**MW-104_20130911**	EPA 200.8	MPRP/24391	EPA 200.8	ICPM/2522
60153027008	**MW-104_20130911**	EPA 200.8	MPRP/24468	EPA 200.8	ICPM/2534
60153027009	**MW-4 DEEP_20130911**	EPA 200.8	MPRP/24391	EPA 200.8	ICPM/2522
60153027009	**MW-4 DEEP_20130911**	EPA 200.8	MPRP/24468	EPA 200.8	ICPM/2534
60153027010	**MW-5 DEEP_20130911**	EPA 200.8	MPRP/24391	EPA 200.8	ICPM/2522
60153027010	**MW-5 DEEP_20130911**	EPA 200.8	MPRP/24468	EPA 200.8	ICPM/2534
60153027011	**MW-5 SHALLOW_20130911**	EPA 200.8	MPRP/24391	EPA 200.8	ICPM/2522
60153027011	**MW-5 SHALLOW_20130911**	EPA 200.8	MPRP/24468	EPA 200.8	ICPM/2534
60153027012	**FB-LAB_20130911**	EPA 200.8	MPRP/24391	EPA 200.8	ICPM/2522
60153027012	**FB-LAB_20130911**	EPA 200.8	MPRP/24468	EPA 200.8	ICPM/2534
60153027001	**DR-3_20130911**	EPA 245.1	MERP/9286	EPA 245.1	MERC/10651
60153027002	**DR-5_20130911**	EPA 245.1	MERP/9286	EPA 245.1	MERC/10651
60153027003	**DR-G_20130911**	EPA 245.1	MERP/9286	EPA 245.1	MERC/10651
60153027004	**DR-8_20130911**	EPA 245.1	MERP/9286	EPA 245.1	MERC/10651
60153027005	**DR-9_20130911**	EPA 245.1	MERP/9286	EPA 245.1	MERC/10651
60153027006	**GW-1_20130911**	EPA 245.1	MERP/9286	EPA 245.1	MERC/10651
60153027007	**GW-5_20130911**	EPA 245.1	MERP/9286	EPA 245.1	MERC/10651
60153027008	**MW-104_20130911**	EPA 245.1	MERP/9286	EPA 245.1	MERC/10651
60153027009	**MW-4 DEEP_20130911**	EPA 245.1	MERP/9286	EPA 245.1	MERC/10651
60153027010	**MW-5 DEEP_20130911**	EPA 245.1	MERP/9286	EPA 245.1	MERC/10651
60153027011	**MW-5 SHALLOW_20130911**	EPA 245.1	MERP/9286	EPA 245.1	MERC/10651
60153027012	**FB-LAB_20130911**	EPA 245.1	MERP/9286	EPA 245.1	MERC/10651
60153027001	**DR-3_20130911**	EPA 245.1	MERP/9361	EPA 245.1	MERC/10666
60153027002	**DR-5_20130911**	EPA 245.1	MERP/9361	EPA 245.1	MERC/10666
60153027003	**DR-G_20130911**	EPA 245.1	MERP/9361	EPA 245.1	MERC/10666
60153027004	**DR-8_20130911**	EPA 245.1	MERP/9361	EPA 245.1	MERC/10666
60153027005	**DR-9_20130911**	EPA 245.1	MERP/9361	EPA 245.1	MERC/10666
60153027006	**GW-1_20130911**	EPA 245.1	MERP/9361	EPA 245.1	MERC/10666
60153027007	**GW-5_20130911**	EPA 245.1	MERP/9361	EPA 245.1	MERC/10666
60153027008	**MW-104_20130911**	EPA 245.1	MERP/9361	EPA 245.1	MERC/10666
60153027009	**MW-4 DEEP_20130911**	EPA 245.1	MERP/9361	EPA 245.1	MERC/10666
60153027010	**MW-5 DEEP_20130911**	EPA 245.1	MERP/9361	EPA 245.1	MERC/10666
60153027011	**MW-5 SHALLOW_20130911**	EPA 245.1	MERP/9361	EPA 245.1	MERC/10666
60153027012	**FB-LAB_20130911**	EPA 245.1	MERP/9361	EPA 245.1	MERC/10666

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60153027001	**DR-3_20130911**	EPA 245.1	MERP/7739	EPA 245.1	MERC/7696
60153027002	**DR-5_20130911**	EPA 245.1	MERP/7739	EPA 245.1	MERC/7696
60153027003	**DR-G_20130911**	EPA 245.1	MERP/7739	EPA 245.1	MERC/7696
60153027004	**DR-8_20130911**	EPA 245.1	MERP/7739	EPA 245.1	MERC/7696
60153027005	**DR-9_20130911**	EPA 245.1	MERP/7739	EPA 245.1	MERC/7696
60153027006	**GW-1_20130911**	EPA 245.1	MERP/7739	EPA 245.1	MERC/7696
60153027007	**GW-5_20130911**	EPA 245.1	MERP/7739	EPA 245.1	MERC/7696
60153027008	**MW-104_20130911**	EPA 245.1	MERP/7739	EPA 245.1	MERC/7696
60153027009	**MW-4 DEEP_20130911**	EPA 245.1	MERP/7739	EPA 245.1	MERC/7696
60153027010	**MW-5 DEEP_20130911**	EPA 245.1	MERP/7739	EPA 245.1	MERC/7696
60153027011	**MW-5 SHALLOW_20130911**	EPA 245.1	MERP/7739	EPA 245.1	MERC/7696
60153027012	**FB-LAB_20130911**	EPA 245.1	MERP/7739	EPA 245.1	MERC/7696
60153027001	**DR-3_20130911**	SM 2510B	MT/13696		
60153027002	**DR-5_20130911**	SM 2510B	MT/13696		
60153027003	**DR-G_20130911**	SM 2510B	MT/13696		
60153027004	**DR-8_20130911**	SM 2510B	MT/13696		
60153027005	**DR-9_20130911**	SM 2510B	MT/13696		
60153027006	**GW-1_20130911**	SM 2510B	MT/13696		
60153027007	**GW-5_20130911**	SM 2510B	MT/13696		
60153027008	**MW-104_20130911**	SM 2510B	MT/13696		
60153027009	**MW-4 DEEP_20130911**	SM 2510B	MT/13696		
60153027010	**MW-5 DEEP_20130911**	SM 2510B	MT/13696		
60153027011	**MW-5 SHALLOW_20130911**	SM 2510B	MT/13696		
60153027012	**FB-LAB_20130911**	SM 2510B	MT/13696		
60153027001	**DR-3_20130911**	Calculated	MT/13721		
60153027002	**DR-5_20130911**	Calculated	MT/13721		
60153027003	**DR-G_20130911**	Calculated	MT/13721		
60153027004	**DR-8_20130911**	Calculated	MT/13721		
60153027005	**DR-9_20130911**	Calculated	MT/13721		
60153027006	**GW-1_20130911**	Calculated	MT/13721		
60153027007	**GW-5_20130911**	Calculated	MT/13721		
60153027008	**MW-104_20130911**	Calculated	MT/13721		
60153027009	**MW-4 DEEP_20130911**	Calculated	MT/13721		
60153027010	**MW-5 DEEP_20130911**	Calculated	MT/13721		
60153027011	**MW-5 SHALLOW_20130911**	Calculated	MT/13721		
60153027012	**FB-LAB_20130911**	Calculated	MT/13721		
60153027001	**DR-3_20130911**	SM 2320B	WET/43547		
60153027002	**DR-5_20130911**	SM 2320B	WET/43547		
60153027003	**DR-G_20130911**	SM 2320B	WET/43547		
60153027004	**DR-8_20130911**	SM 2320B	WET/43547		
60153027005	**DR-9_20130911**	SM 2320B	WET/43547		
60153027006	**GW-1_20130911**	SM 2320B	WET/43547		
60153027007	**GW-5_20130911**	SM 2320B	WET/43547		
60153027008	**MW-104_20130911**	SM 2320B	WET/43565		
60153027009	**MW-4 DEEP_20130911**	SM 2320B	WET/43565		
60153027010	**MW-5 DEEP_20130911**	SM 2320B	WET/43565		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60153027011	**MW-5 SHALLOW_20130911**	SM 2320B	WET/43565		
60153027012	**FB-LAB_20130911**	SM 2320B	WET/43565		
60153027001	**DR-3_20130911**	SM 2540C	WET/43442		
60153027002	**DR-5_20130911**	SM 2540C	WET/43442		
60153027003	**DR-G_20130911**	SM 2540C	WET/43442		
60153027004	**DR-8_20130911**	SM 2540C	WET/43442		
60153027005	**DR-9_20130911**	SM 2540C	WET/43442		
60153027006	**GW-1_20130911**	SM 2540C	WET/43442		
60153027007	**GW-5_20130911**	SM 2540C	WET/43442		
60153027008	**MW-104_20130911**	SM 2540C	WET/43442		
60153027009	**MW-4 DEEP_20130911**	SM 2540C	WET/43442		
60153027010	**MW-5 DEEP_20130911**	SM 2540C	WET/43442		
60153027011	**MW-5 SHALLOW_20130911**	SM 2540C	WET/43442		
60153027012	**FB-LAB_20130911**	SM 2540C	WET/43442		
60153027001	**DR-3_20130911**	SM 2540D	WET/43468		
60153027002	**DR-5_20130911**	SM 2540D	WET/43468		
60153027003	**DR-G_20130911**	SM 2540D	WET/43468		
60153027004	**DR-8_20130911**	SM 2540D	WET/43468		
60153027005	**DR-9_20130911**	SM 2540D	WET/43468		
60153027006	**GW-1_20130911**	SM 2540D	WET/43468		
60153027007	**GW-5_20130911**	SM 2540D	WET/43468		
60153027008	**MW-104_20130911**	SM 2540D	WET/43468		
60153027009	**MW-4 DEEP_20130911**	SM 2540D	WET/43468		
60153027010	**MW-5 DEEP_20130911**	SM 2540D	WET/43468		
60153027011	**MW-5 SHALLOW_20130911**	SM 2540D	WET/43468		
60153027012	**FB-LAB_20130911**	SM 2540D	WET/43468		
60153027001	**DR-3_20130911**	SM 4500-S-2 D	WET/43470		
60153027002	**DR-5_20130911**	SM 4500-S-2 D	WET/43470		
60153027003	**DR-G_20130911**	SM 4500-S-2 D	WET/43470		
60153027004	**DR-8_20130911**	SM 4500-S-2 D	WET/43470		
60153027005	**DR-9_20130911**	SM 4500-S-2 D	WET/43470		
60153027006	**GW-1_20130911**	SM 4500-S-2 D	WET/43470		
60153027007	**GW-5_20130911**	SM 4500-S-2 D	WET/43470		
60153027008	**MW-104_20130911**	SM 4500-S-2 D	WET/43470		
60153027009	**MW-4 DEEP_20130911**	SM 4500-S-2 D	WET/43470		
60153027010	**MW-5 DEEP_20130911**	SM 4500-S-2 D	WET/43470		
60153027011	**MW-5 SHALLOW_20130911**	SM 4500-S-2 D	WET/43470		
60153027012	**FB-LAB_20130911**	SM 4500-S-2 D	WET/43470		
60153027001	**DR-3_20130911**	EPA 300.0	WETA/26360		
60153027002	**DR-5_20130911**	EPA 300.0	WETA/26360		
60153027003	**DR-G_20130911**	EPA 300.0	WETA/26360		
60153027004	**DR-8_20130911**	EPA 300.0	WETA/26360		
60153027005	**DR-9_20130911**	EPA 300.0	WETA/26360		
60153027006	**GW-1_20130911**	EPA 300.0	WETA/26360		
60153027007	**GW-5_20130911**	EPA 300.0	WETA/26360		
60153027008	**MW-104_20130911**	EPA 300.0	WETA/26360		
60153027009	**MW-4 DEEP_20130911**	EPA 300.0	WETA/26360		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SEPTEMBER 2013 RICO WATER
Pace Project No.: 60153027

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60153027010	**MW-5 DEEP_20130911**	EPA 300.0	WETA/26360		
60153027011	**MW-5 SHALLOW_20130911**	EPA 300.0	WETA/26360		
60153027012	**FB-LAB_20130911**	EPA 300.0	WETA/26360		
60153027001	**DR-3_20130911**	EPA 353.2	WETA/26218		
60153027002	**DR-5_20130911**	EPA 353.2	WETA/26218		
60153027003	**DR-G_20130911**	EPA 353.2	WETA/26218		
60153027004	**DR-8_20130911**	EPA 353.2	WETA/26218		
60153027005	**DR-9_20130911**	EPA 353.2	WETA/26218		
60153027006	**GW-1_20130911**	EPA 353.2	WETA/26218		
60153027007	**GW-5_20130911**	EPA 353.2	WETA/26218		
60153027008	**MW-104_20130911**	EPA 353.2	WETA/26218		
60153027009	**MW-4 DEEP_20130911**	EPA 353.2	WETA/26218		
60153027010	**MW-5 DEEP_20130911**	EPA 353.2	WETA/26218		
60153027011	**MW-5 SHALLOW_20130911**	EPA 353.2	WETA/26218		
60153027012	**FB-LAB_20130911**	EPA 353.2	WETA/26218		
60153027001	**DR-3_20130911**	SM 4500-CN-E	WETA/26295		
60153027002	**DR-5_20130911**	SM 4500-CN-E	WETA/26295		
60153027003	**DR-G_20130911**	SM 4500-CN-E	WETA/26295		
60153027004	**DR-8_20130911**	SM 4500-CN-E	WETA/26295		
60153027005	**DR-9_20130911**	SM 4500-CN-E	WETA/26295		
60153027006	**GW-1_20130911**	SM 4500-CN-E	WETA/26295		
60153027007	**GW-5_20130911**	SM 4500-CN-E	WETA/26295		
60153027008	**MW-104_20130911**	SM 4500-CN-E	WETA/26295		
60153027009	**MW-4 DEEP_20130911**	SM 4500-CN-E	WETA/26295		
60153027010	**MW-5 DEEP_20130911**	SM 4500-CN-E	WETA/26295		
60153027011	**MW-5 SHALLOW_20130911**	SM 4500-CN-E	WETA/26295		
60153027012	**FB-LAB_20130911**	SM 4500-CN-E	WETA/26295		
60153027001	**DR-3_20130911**	SM 5310C	WETA/19536		
60153027002	**DR-5_20130911**	SM 5310C	WETA/19536		
60153027003	**DR-G_20130911**	SM 5310C	WETA/19536		
60153027004	**DR-8_20130911**	SM 5310C	WETA/19536		
60153027005	**DR-9_20130911**	SM 5310C	WETA/19536		
60153027006	**GW-1_20130911**	SM 5310C	WETA/19536		
60153027007	**GW-5_20130911**	SM 5310C	WETA/19536		
60153027008	**MW-104_20130911**	SM 5310C	WETA/19536		
60153027009	**MW-4 DEEP_20130911**	SM 5310C	WETA/19536		
60153027010	**MW-5 DEEP_20130911**	SM 5310C	WETA/19544		
60153027011	**MW-5 SHALLOW_20130911**	SM 5310C	WETA/19544		
60153027012	**FB-LAB_20130911**	SM 5310C	WETA/19544		

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QUALITY CONTROL DATA

Project: September 2013 Rico Water
Pace Project No.: 60153115

QC Batch: MERP/9285 Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury
Associated Lab Samples: 60153115001, 60153115002, 60153115003, 60153115004, 60153115005, 60153115006, 60153115007, 60153115008, 60153115009, 60153115010, 60153115011, 60153115012, 60153115013, 60153115014

METHOD BLANK: 1528501 Matrix: Water
Associated Lab Samples: 60153115001, 60153115002, 60153115003, 60153115004, 60153115005, 60153115006, 60153115007, 60153115008, 60153115009, 60153115010, 60153115011, 60153115012, 60153115013, 60153115014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	09/25/13 09:22	

LABORATORY CONTROL SAMPLE: 1528502

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.8	96	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1531553 1531554

Parameter	Units	60153115002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	1.1	5	5	5.9	6.0	96	99	85-115	2	20	

MATRIX SPIKE SAMPLE: 1531555

Parameter	Units	60153115013 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	5	4.2	83	85-115	M1

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QUALITY CONTROL DATA

Project: September 2013 Rico Water
Pace Project No.: 60153115

QC Batch: MERP/9349 | Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 | Analysis Description: 245.1 Mercury - Dissolved
Associated Lab Samples: 60153115001, 60153115002, 60153115003, 60153115004, 60153115005, 60153115006, 60153115007, 60153115008, 60153115009, 60153115010, 60153115011, 60153115012, 60153115013, 60153115014

METHOD BLANK: 1534182 | Matrix: Water
Associated Lab Samples: 60153115001, 60153115002, 60153115003, 60153115004, 60153115005, 60153115006, 60153115007, 60153115008, 60153115009, 60153115010, 60153115011, 60153115012, 60153115013, 60153115014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	09/26/13 13:49	

LABORATORY CONTROL SAMPLE: 1534183

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.4	109	85-115	

MATRIX SPIKE SAMPLE: 1534186

Parameter	Units	60153115014 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	ND	5	6.0	121	85-115	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1535467 1535468

Parameter	Units	60153115005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	5	5	5.6	5.3	111	106	85-115	5	20	

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QUALITY CONTROL DATA

Project: September 2013 Rico Water
Pace Project No.: 60153115

QC Batch: MERP/7742 | Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 | Analysis Description: 245.1 Mercury, Potentially Dissolved
Associated Lab Samples: 60153115001, 60153115002, 60153115003, 60153115004, 60153115005, 60153115006, 60153115007, 60153115008, 60153115009, 60153115010, 60153115011, 60153115012, 60153115013, 60153115014

METHOD BLANK: 1259261 | Matrix: Water
Associated Lab Samples: 60153115001, 60153115002, 60153115003, 60153115004, 60153115005, 60153115006, 60153115007, 60153115008, 60153115009, 60153115010, 60153115011, 60153115012, 60153115013, 60153115014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	09/25/13 16:17	

LABORATORY CONTROL SAMPLE: 1259262

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.2	104	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1259263 1259264

Parameter	Units	60153115003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	5	5	5.1	5.2	103	103	70-130	0	20	

MATRIX SPIKE SAMPLE: 1259265

Parameter	Units	60153115004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	ND	5	4.9	99	70-130	

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QUALITY CONTROL DATA

Project: September 2013 Rico Water
Pace Project No.: 60153115

QC Batch: MPRP/24419 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Potentially Dissolved Metals
Associated Lab Samples: 60153115001, 60153115002, 60153115003, 60153115004, 60153115005, 60153115006, 60153115007, 60153115008, 60153115009, 60153115010, 60153115011, 60153115012, 60153115013, 60153115014

METHOD BLANK: 1259433 Matrix: Water
Associated Lab Samples: 60153115001, 60153115002, 60153115003, 60153115004, 60153115005, 60153115006, 60153115007, 60153115008, 60153115009, 60153115010, 60153115011, 60153115012, 60153115013, 60153115014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Calcium, Dissolved	ug/L	10.5J	100	09/25/13 16:41	
Magnesium, Dissolved	ug/L	8.7J	50.0	09/25/13 16:41	
Potassium, Dissolved	ug/L	ND	500	09/25/13 16:41	
Sodium, Dissolved	ug/L	ND	500	09/25/13 16:41	

LABORATORY CONTROL SAMPLE: 1259434

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium, Dissolved	ug/L	10000	10100	101	85-115	
Magnesium, Dissolved	ug/L	10000	10000	100	85-115	
Potassium, Dissolved	ug/L	10000	9720	97	85-115	
Sodium, Dissolved	ug/L	10000	9840	98	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1259435 1259436

Parameter	Units	60153115001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium, Dissolved	ug/L	240000	10000	10000	252000	255000	122	153	70-130	1	20	M1
Magnesium, Dissolved	ug/L	19300	10000	10000	29500	29800	102	105	70-130	1	20	
Potassium, Dissolved	ug/L	2990	10000	10000	13300	13300	103	103	70-130	1	20	
Sodium, Dissolved	ug/L	12900	10000	10000	23300	23600	104	107	70-130	1	20	

MATRIX SPIKE SAMPLE: 1259437

Parameter	Units	60153115011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Calcium, Dissolved	ug/L	240000	10000	251000	112	70-130	
Magnesium, Dissolved	ug/L	21800	10000	31600	98	70-130	
Potassium, Dissolved	ug/L	6660	10000	16900	102	70-130	
Sodium, Dissolved	ug/L	15000	10000	25200	102	70-130	

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QUALITY CONTROL DATA

Project: September 2013 Rico Water
Pace Project No.: 60153115

QC Batch: MPRP/41979 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: 200.8 MET
Associated Lab Samples: 60153115001, 60153115002, 60153115003, 60153115004, 60153115005, 60153115006, 60153115007, 60153115008, 60153115009, 60153115010, 60153115011, 60153115012, 60153115013, 60153115014

METHOD BLANK: 1529141 Matrix: Water
Associated Lab Samples: 60153115001, 60153115002, 60153115003, 60153115004, 60153115005, 60153115006, 60153115007, 60153115008, 60153115009, 60153115010, 60153115011, 60153115012, 60153115013, 60153115014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	4.0	09/26/13 19:47	
Antimony	ug/L	ND	0.50	09/26/13 19:47	
Arsenic	ug/L	ND	0.50	09/26/13 19:47	
Barium	ug/L	ND	0.30	09/26/13 19:47	
Beryllium	ug/L	ND	0.20	09/26/13 19:47	
Cadmium	ug/L	ND	0.080	09/26/13 19:47	
Calcium	ug/L	ND	20.0	09/26/13 19:47	
Chromium	ug/L	ND	0.50	09/26/13 19:47	
Cobalt	ug/L	ND	0.50	09/26/13 19:47	
Copper	ug/L	ND	0.50	09/26/13 19:47	
Iron	ug/L	ND	50.0	09/26/13 19:47	
Lead	ug/L	ND	0.10	09/26/13 19:47	
Magnesium	ug/L	ND	5.0	09/26/13 19:47	
Manganese	ug/L	ND	0.50	09/26/13 19:47	
Molybdenum	ug/L	ND	0.50	09/26/13 19:47	
Nickel	ug/L	ND	0.50	09/26/13 19:47	
Potassium	ug/L	ND	20.0	09/26/13 19:47	
Selenium	ug/L	ND	0.50	09/27/13 11:07	
Silver	ug/L	ND	0.50	09/26/13 19:47	
Sodium	ug/L	ND	50.0	09/26/13 19:47	
Thallium	ug/L	ND	0.10	09/26/13 19:47	
Vanadium	ug/L	ND	0.10	09/26/13 19:47	
Zinc	ug/L	ND	5.0	09/26/13 19:47	

LABORATORY CONTROL SAMPLE: 1529142

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	80	76.6	96	85-115	
Antimony	ug/L	80	81.5	102	85-115	
Arsenic	ug/L	80	79.5	99	85-115	
Barium	ug/L	80	78.9	99	85-115	
Beryllium	ug/L	80	82.1	103	85-115	
Cadmium	ug/L	80	81.7	102	85-115	
Calcium	ug/L	1000	954	95	85-115	
Chromium	ug/L	80	82.3	103	85-115	
Cobalt	ug/L	80	79.9	100	85-115	
Copper	ug/L	80	81.5	102	85-115	
Iron	ug/L	1000	1010	101	85-115	
Lead	ug/L	80	79.2	99	85-115	
Magnesium	ug/L	1000	1010	101	85-115	

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QUALITY CONTROL DATA

Project: September 2013 Rico Water
Pace Project No.: 60153115

LABORATORY CONTROL SAMPLE: 1529142

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese	ug/L	80	78.8	99	85-115	
Molybdenum	ug/L	80	79.6	99	85-115	
Nickel	ug/L	80	82.0	102	85-115	
Potassium	ug/L	1000	976	98	85-115	
Selenium	ug/L	80	88.5	111	85-115	
Silver	ug/L	80	79.2	99	85-115	
Sodium	ug/L	1000	1030	103	85-115	
Thallium	ug/L	80	82.9	104	85-115	
Vanadium	ug/L	80	82.9	104	85-115	
Zinc	ug/L	80	84.3	105	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1529143 1529144

Parameter	Units	60153115001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	208	80	80	288	291	100	104	70-130	1	20	
Antimony	ug/L	ND	80	80	82.4	83.0	103	103	70-130	.7	20	
Arsenic	ug/L	ND	80	80	78.0	79.5	97	99	70-130	2	20	
Barium	ug/L	19.5	80	80	98.4	99.2	99	100	70-130	.9	20	
Beryllium	ug/L	0.31	80	80	79.7	75.8	99	94	70-130	5	20	
Cadmium	ug/L	17.0	80	80	99.8	99.8	103	103	70-130	0	20	
Calcium	ug/L	229000	1000	1000	224000	225000	-470	-385	70-130	.4	20	E,M1
Chromium	ug/L	ND	80	80	82.0	82.9	102	103	70-130	1	20	
Cobalt	ug/L	2.6	80	80	81.8	83.0	99	100	70-130	1	20	
Copper	ug/L	48.4	80	80	129	130	100	102	70-130	1	20	
Iron	ug/L	2260	1000	1000	3270	3300	100	104	70-130	1	20	
Lead	ug/L	3.7	80	80	81.9	83.1	98	99	70-130	1	20	
Magnesium	ug/L	19600	1000	1000	21000	21000	134	142	70-130	.4	20	M1
Manganese	ug/L	1760	80	80	1820	1820	69	74	70-130	.2	20	M1
Molybdenum	ug/L	14.6	80	80	96.6	93.9	102	99	70-130	3	20	
Nickel	ug/L	4.5	80	80	86.2	86.4	102	102	70-130	.2	20	
Potassium	ug/L	3000	1000	1000	3830	3880	83	88	70-130	2	20	
Selenium	ug/L	ND	80	80	82.1	78.2	102	98	70-130	5	20	
Silver	ug/L	ND	80	80	68.8	74.8	86	93	70-130	8	20	
Sodium	ug/L	13100	1000	1000	14400	14400	136	134	70-130	.1	20	M1
Thallium	ug/L	ND	80	80	81.6	82.6	102	103	70-130	1	20	
Vanadium	ug/L	ND	80	80	77.0	80.2	96	100	70-130	4	20	
Zinc	ug/L	3190	80	80	3250	3240	80	69	70-130	.3	20	E,M1

MATRIX SPIKE SAMPLE: 1529145

Parameter	Units	60153115014 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	6470	80	9400	3660	70-130	M1
Antimony	ug/L	ND	80	80.8	100	70-130	
Arsenic	ug/L	10.8	80	93.6	104	70-130	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: September 2013 Rico Water
Pace Project No.: 60153115

MATRIX SPIKE SAMPLE: 1529145

Parameter	Units	60153115014 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	201	80	302	125	70-130	
Beryllium	ug/L	0.32	80	80.6	100	70-130	
Cadmium	ug/L	2.0	80	87.2	107	70-130	
Calcium	ug/L	152000	1000	153000	146	70-130	E,M1
Chromium	ug/L	9.5	80	98.6	111	70-130	
Cobalt	ug/L	5.6	80	89.8	105	70-130	
Copper	ug/L	50.1	80	140	112	70-130	
Iron	ug/L	11800	1000	14200	237	70-130	M1
Lead	ug/L	99.4	80	193	117	70-130	
Magnesium	ug/L	21000	1000	24400	344	70-130	M1
Manganese	ug/L	1670	80	1780	128	70-130	
Molybdenum	ug/L	2.3	80	86.1	105	70-130	
Nickel	ug/L	8.4	80	93.3	106	70-130	
Potassium	ug/L	3940	1000	5820	187	70-130	M1
Selenium	ug/L	6.1	80	87.8	102	70-130	
Silver	ug/L	ND	80	74.4	93	70-130	
Sodium	ug/L	3340	1000	4720	138	70-130	M1
Thallium	ug/L	0.20	80	84.7	106	70-130	
Vanadium	ug/L	13.3	80	103	113	70-130	
Zinc	ug/L	330	80	440	138	70-130	M1

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QUALITY CONTROL DATA

Project: September 2013 Rico Water
Pace Project No.: 60153115

QC Batch: MPRP/41975 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: 200.8 MET Dissolved
Associated Lab Samples: 60153115001, 60153115002, 60153115003, 60153115004, 60153115005, 60153115006, 60153115007, 60153115008, 60153115009, 60153115010, 60153115011, 60153115012, 60153115013, 60153115014

METHOD BLANK: 1529108 Matrix: Water
Associated Lab Samples: 60153115001, 60153115002, 60153115003, 60153115004, 60153115005, 60153115006, 60153115007, 60153115008, 60153115009, 60153115010, 60153115011, 60153115012, 60153115013, 60153115014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	4.0	09/25/13 23:35	
Antimony, Dissolved	ug/L	ND	0.50	09/25/13 23:35	
Arsenic, Dissolved	ug/L	ND	0.50	09/25/13 23:35	
Barium, Dissolved	ug/L	ND	0.30	09/25/13 23:35	
Beryllium, Dissolved	ug/L	ND	0.20	09/25/13 23:35	
Cadmium, Dissolved	ug/L	ND	0.080	09/25/13 23:35	
Calcium, Dissolved	ug/L	ND	20.0	09/25/13 23:35	
Chromium, Dissolved	ug/L	ND	0.50	09/25/13 23:35	
Cobalt, Dissolved	ug/L	ND	0.50	09/25/13 23:35	
Copper, Dissolved	ug/L	ND	0.50	09/25/13 23:35	
Iron, Dissolved	ug/L	ND	50.0	09/25/13 23:35	
Lead, Dissolved	ug/L	ND	0.10	09/25/13 23:35	
Magnesium, Dissolved	ug/L	ND	5.0	09/25/13 23:35	
Manganese, Dissolved	ug/L	ND	0.50	09/25/13 23:35	
Molybdenum, Dissolved	ug/L	ND	0.50	09/25/13 23:35	
Nickel, Dissolved	ug/L	ND	0.50	09/25/13 23:35	
Potassium, Dissolved	ug/L	ND	20.0	09/27/13 05:20	
Selenium, Dissolved	ug/L	ND	0.50	09/27/13 05:20	
Silver, Dissolved	ug/L	ND	0.50	09/25/13 23:35	
Sodium, Dissolved	ug/L	ND	50.0	09/25/13 23:35	
Thallium, Dissolved	ug/L	ND	0.10	09/25/13 23:35	
Vanadium, Dissolved	ug/L	ND	0.10	09/25/13 23:35	
Zinc, Dissolved	ug/L	ND	5.0	09/25/13 23:35	

LABORATORY CONTROL SAMPLE: 1529109

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	80	82.8	103	85-115	
Antimony, Dissolved	ug/L	80	79.0	99	85-115	
Arsenic, Dissolved	ug/L	80	79.6	99	85-115	
Barium, Dissolved	ug/L	80	80.7	101	85-115	
Beryllium, Dissolved	ug/L	80	84.6	106	85-115	
Cadmium, Dissolved	ug/L	80	81.2	101	85-115	
Calcium, Dissolved	ug/L	1000	1040	104	85-115	
Chromium, Dissolved	ug/L	80	81.0	101	85-115	
Cobalt, Dissolved	ug/L	80	80.5	101	85-115	
Copper, Dissolved	ug/L	80	79.1	99	85-115	
Iron, Dissolved	ug/L	1000	1000	100	85-115	
Lead, Dissolved	ug/L	80	82.6	103	85-115	
Magnesium, Dissolved	ug/L	1000	1000	100	85-115	

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QUALITY CONTROL DATA

Project: September 2013 Rico Water
Pace Project No.: 60153115

LABORATORY CONTROL SAMPLE: 1529109

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese, Dissolved	ug/L	80	81.1	101	85-115	
Molybdenum, Dissolved	ug/L	80	78.3	98	85-115	
Nickel, Dissolved	ug/L	80	81.7	102	85-115	
Potassium, Dissolved	ug/L	1000	992	99	85-115	
Selenium, Dissolved	ug/L	80	79.0	99	85-115	
Silver, Dissolved	ug/L	80	81.1	101	85-115	
Sodium, Dissolved	ug/L	1000	1010	101	85-115	
Thallium, Dissolved	ug/L	80	84.2	105	85-115	
Vanadium, Dissolved	ug/L	80	80.0	100	85-115	
Zinc, Dissolved	ug/L	80	84.2	105	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1529110 1529111

Parameter	Units	60153115001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	ug/L	14.3	80	80	100	100	107	107	70-130	0	20	
Antimony, Dissolved	ug/L	ND	80	80	78.4	79.6	98	99	70-130	2	20	
Arsenic, Dissolved	ug/L	ND	80	80	81.4	81.4	102	102	70-130	0	20	
Barium, Dissolved	ug/L	20.2	80	80	99.4	99.0	99	99	70-130	.4	20	
Beryllium, Dissolved	ug/L	ND	80	80	86.7	85.0	108	106	70-130	2	20	
Cadmium, Dissolved	ug/L	15.6	80	80	94.4	95.2	99	100	70-130	.8	20	
Calcium, Dissolved	ug/L	253000	1000	1000	241000	242000	-1200	-1120	70-130	.4	20	E,M1
Chromium, Dissolved	ug/L	ND	80	80	81.0	80.0	101	100	70-130	1	20	
Cobalt, Dissolved	ug/L	2.6	80	80	78.3	79.5	95	96	70-130	2	20	
Copper, Dissolved	ug/L	3.3	80	80	81.4	81.2	98	97	70-130	.3	20	
Iron, Dissolved	ug/L	ND	1000	1000	1020	1020	102	101	70-130	.3	20	
Lead, Dissolved	ug/L	0.19	80	80	79.0	80.2	98	100	70-130	2	20	
Magnesium, Dissolved	ug/L	19900	1000	1000	20400	20500	52	54	70-130	.05	20	M1
Manganese, Dissolved	ug/L	1810	80	80	1810	1810	-8	0	70-130	.3	20	M1
Molybdenum, Dissolved	ug/L	14.4	80	80	91.8	91.4	97	96	70-130	.4	20	
Nickel, Dissolved	ug/L	4.9	80	80	82.9	84.1	97	99	70-130	1	20	
Potassium, Dissolved	ug/L	3160	1000	1000	3820	4020	65	86	70-130	5	20	M1
Selenium, Dissolved	ug/L	ND	80	80	77.7	80.5	97	100	70-130	4	20	
Silver, Dissolved	ug/L	ND	80	80	71.6	68.8	89	86	70-130	4	20	
Sodium, Dissolved	ug/L	12800	1000	1000	13600	13500	82	77	70-130	.4	20	
Thallium, Dissolved	ug/L	ND	80	80	80.0	81.1	100	101	70-130	1	20	
Vanadium, Dissolved	ug/L	ND	80	80	80.4	81.2	101	102	70-130	1	20	
Zinc, Dissolved	ug/L	2780	80	80	2640	2660	-170	-151	70-130	.6	20	M1

MATRIX SPIKE SAMPLE: 1529112

Parameter	Units	60153115014 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	15.3	80	100	106	70-130	
Antimony, Dissolved	ug/L	ND	80	79.0	99	70-130	
Arsenic, Dissolved	ug/L	ND	80	81.4	101	70-130	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: September 2013 Rico Water
Pace Project No.: 60153115

MATRIX SPIKE SAMPLE: 1529112

Parameter	Units	60153115014 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Barium, Dissolved	ug/L	32.6	80	113	100	70-130	
Beryllium, Dissolved	ug/L	ND	80	82.8	103	70-130	
Cadmium, Dissolved	ug/L	0.57	80	81.4	101	70-130	
Calcium, Dissolved	ug/L	159000	1000	161000	180	70-130	E,M1
Chromium, Dissolved	ug/L	ND	80	81.1	101	70-130	
Cobalt, Dissolved	ug/L	ND	80	80.9	101	70-130	
Copper, Dissolved	ug/L	1.9	80	80.0	98	70-130	
Iron, Dissolved	ug/L	ND	1000	1030	102	70-130	
Lead, Dissolved	ug/L	0.15	80	81.1	101	70-130	
Magnesium, Dissolved	ug/L	17200	1000	18900	172	70-130	M1
Manganese, Dissolved	ug/L	148	80	231	104	70-130	
Molybdenum, Dissolved	ug/L	0.63	80	81.0	100	70-130	
Nickel, Dissolved	ug/L	5.3	80	86.2	101	70-130	
Potassium, Dissolved	ug/L	2820	1000	3970	115	70-130	
Selenium, Dissolved	ug/L	4.7	80	87.1	103	70-130	
Silver, Dissolved	ug/L	ND	80	72.5	91	70-130	
Sodium, Dissolved	ug/L	3050	1000	4170	112	70-130	
Thallium, Dissolved	ug/L	ND	80	82.2	103	70-130	
Vanadium, Dissolved	ug/L	ND	80	81.0	101	70-130	
Zinc, Dissolved	ug/L	66.8	80	151	105	70-130	

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QUALITY CONTROL DATA

Project: September 2013 Rico Water
Pace Project No.: 60153115

QC Batch: MPRP/24420 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: 200.8 Potentially Dissolved Metals
Associated Lab Samples: 60153115001, 60153115002, 60153115003, 60153115004, 60153115005, 60153115006, 60153115007, 60153115008, 60153115009, 60153115010, 60153115011, 60153115012, 60153115013, 60153115014

METHOD BLANK: 1259439 Matrix: Water
Associated Lab Samples: 60153115001, 60153115002, 60153115003, 60153115004, 60153115005, 60153115006, 60153115007, 60153115008, 60153115009, 60153115010, 60153115011, 60153115012, 60153115013, 60153115014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	50.0	09/26/13 12:51	
Antimony, Dissolved	ug/L	ND	1.0	09/26/13 12:51	
Arsenic, Dissolved	ug/L	ND	1.0	09/26/13 12:51	
Barium, Dissolved	ug/L	ND	1.0	09/26/13 12:51	
Beryllium, Dissolved	ug/L	ND	0.50	09/26/13 12:51	
Cadmium, Dissolved	ug/L	ND	0.50	09/26/13 12:51	
Chromium, Dissolved	ug/L	ND	1.0	09/26/13 12:51	
Cobalt, Dissolved	ug/L	ND	1.0	09/26/13 12:51	
Copper, Dissolved	ug/L	ND	1.0	09/26/13 12:51	
Iron, Dissolved	ug/L	ND	50.0	09/27/13 13:46	
Lead, Dissolved	ug/L	0.077J	1.0	09/26/13 12:51	
Manganese, Dissolved	ug/L	ND	1.0	09/26/13 12:51	
Molybdenum, Dissolved	ug/L	ND	1.0	09/26/13 12:51	
Nickel, Dissolved	ug/L	ND	1.0	09/26/13 12:51	
Selenium, Dissolved	ug/L	ND	1.0	09/26/13 12:51	
Silver, Dissolved	ug/L	ND	0.50	09/26/13 12:51	
Thallium, Dissolved	ug/L	ND	1.0	09/26/13 12:51	
Vanadium, Dissolved	ug/L	ND	1.0	09/26/13 12:51	
Zinc, Dissolved	ug/L	1.4J	10.0	09/26/13 12:51	

LABORATORY CONTROL SAMPLE: 1259440

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	1000	1060	106	85-115	
Antimony, Dissolved	ug/L	40	42.6	106	85-115	
Arsenic, Dissolved	ug/L	40	43.6	109	85-115	
Barium, Dissolved	ug/L	40	43.2	108	85-115	
Beryllium, Dissolved	ug/L	40	42.4	106	85-115	
Cadmium, Dissolved	ug/L	40	42.4	106	85-115	
Chromium, Dissolved	ug/L	40	43.5	109	85-115	
Cobalt, Dissolved	ug/L	40	42.7	107	85-115	
Copper, Dissolved	ug/L	40	43.0	107	85-115	
Iron, Dissolved	ug/L	1000	1020	102	85-115	
Lead, Dissolved	ug/L	40	42.3	106	85-115	
Manganese, Dissolved	ug/L	40	43.3	108	85-115	
Molybdenum, Dissolved	ug/L	40	42.8	107	85-115	
Nickel, Dissolved	ug/L	40	42.8	107	85-115	
Selenium, Dissolved	ug/L	40	43.8	109	85-115	
Silver, Dissolved	ug/L	20	20.8	104	85-115	
Thallium, Dissolved	ug/L	40	40.2	100	85-115	

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QUALITY CONTROL DATA

Project: September 2013 Rico Water
Pace Project No.: 60153115

LABORATORY CONTROL SAMPLE: 1259440

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vanadium, Dissolved	ug/L	40	43.0	108	85-115	
Zinc, Dissolved	ug/L	100	111	111	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1259441 1259442

Parameter	Units	60153115002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	ug/L	24200	1000	1000	28100	28700	386	446	70-130	2	20	M1
Antimony, Dissolved	ug/L	0.90J	40	40	41.4	42.0	101	103	70-130	1	20	
Arsenic, Dissolved	ug/L	359	40	40	410	409	126	124	70-130	0	20	
Barium, Dissolved	ug/L	111	40	40	163	163	130	132	70-130	0	20	M1
Beryllium, Dissolved	ug/L	8.0	40	40	47.1	49.9	98	105	70-130	6	20	
Cadmium, Dissolved	ug/L	99.7	40	40	147	150	118	127	70-130	2	20	
Chromium, Dissolved	ug/L	16.8	40	40	59.3	58.6	106	104	70-130	1	20	
Cobalt, Dissolved	ug/L	39.9	40	40	84.8	85.9	112	115	70-130	1	20	
Copper, Dissolved	ug/L	1320	40	40	1510	1520	468	492	70-130	1	20	M1
Iron, Dissolved	ug/L	151000	1000	1000	155000	158000	426	738	70-130	2	20	M1
Lead, Dissolved	ug/L	6330	40	40	6480	6530	370	502	70-130	1	20	M1
Manganese, Dissolved	ug/L	18800	40	40	19200	19400	775	1350	70-130	1	20	M1
Molybdenum, Dissolved	ug/L	5.1	40	40	47.6	47.2	106	105	70-130	1	20	
Nickel, Dissolved	ug/L	51.7	40	40	96.1	96.5	111	112	70-130	0	20	
Selenium, Dissolved	ug/L	8.4	40	40	49.4	50.7	103	106	70-130	3	20	
Silver, Dissolved	ug/L	0.13J	20	20	19.8	19.8	98	98	70-130	0	20	
Thallium, Dissolved	ug/L	0.81J	40	40	40.0	40.4	98	99	70-130	1	20	
Vanadium, Dissolved	ug/L	52.1	40	40	93.2	96.1	103	110	70-130	3	20	
Zinc, Dissolved	ug/L	27400	100	100	27900	28200	430	720	70-130	1	20	M1

MATRIX SPIKE SAMPLE: 1259443

Parameter	Units	60153115012 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	5880	1000	6740	86	70-130	
Antimony, Dissolved	ug/L	0.057J	40	41.7	104	70-130	
Arsenic, Dissolved	ug/L	4.3	40	48.6	111	70-130	
Barium, Dissolved	ug/L	82.0	40	122	100	70-130	
Beryllium, Dissolved	ug/L	0.98	40	39.5	96	70-130	
Cadmium, Dissolved	ug/L	2.4	40	42.8	101	70-130	
Chromium, Dissolved	ug/L	9.4	40	50.8	104	70-130	
Cobalt, Dissolved	ug/L	4.7	40	44.7	100	70-130	
Copper, Dissolved	ug/L	71.9	40	110	94	70-130	
Iron, Dissolved	ug/L	8170	1000	9060	89	70-130	
Lead, Dissolved	ug/L	127	40	168	102	70-130	
Manganese, Dissolved	ug/L	448	40	478	77	70-130	
Molybdenum, Dissolved	ug/L	0.86J	40	45.6	112	70-130	
Nickel, Dissolved	ug/L	7.4	40	46.2	97	70-130	
Selenium, Dissolved	ug/L	32.5	40	76.7	111	70-130	

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QUALITY CONTROL DATA

Project: September 2013 Rico Water
Pace Project No.: 60153115

MATRIX SPIKE SAMPLE: 1259443

Parameter	Units	60153115012 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Silver, Dissolved	ug/L	0.77	20	20.3	98	70-130	
Thallium, Dissolved	ug/L	0.13J	40	41.6	104	70-130	
Vanadium, Dissolved	ug/L	7.3	40	49.9	106	70-130	
Zinc, Dissolved	ug/L	377	100	463	85	70-130	

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QUALITY CONTROL DATA

Project: September 2013 Rico Water
Pace Project No.: 60153115

QC Batch: MT/13704 | Analysis Method: SM 2510B
QC Batch Method: SM 2510B | Analysis Description: 2510B Specific Conductance
Associated Lab Samples: 60153115001, 60153115002, 60153115003, 60153115004, 60153115005, 60153115006, 60153115007, 60153115008, 60153115009, 60153115010, 60153115011, 60153115012, 60153115013, 60153115014

METHOD BLANK: 1530306 | Matrix: Water
Associated Lab Samples: 60153115001, 60153115002, 60153115003, 60153115004, 60153115005, 60153115006, 60153115007, 60153115008, 60153115009, 60153115010, 60153115011, 60153115012, 60153115013, 60153115014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Specific Conductance	umhos/cm	ND	10.0	09/20/13 15:26	

LABORATORY CONTROL SAMPLE: 1530307

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Specific Conductance	umhos/cm	1000	944	94	90-110	

SAMPLE DUPLICATE: 1530308

Parameter	Units	60153115001 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Conductance	umhos/cm	1230	1260	3	20	

SAMPLE DUPLICATE: 1530309

Parameter	Units	60153115010 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Conductance	umhos/cm	1410	1440	2	20	

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QUALITY CONTROL DATA

Project: September 2013 Rico Water
Pace Project No.: 60153115

QC Batch: WET/43565 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 60153115001, 60153115002, 60153115003, 60153115004, 60153115005, 60153115006, 60153115007, 60153115008, 60153115009, 60153115010, 60153115011, 60153115012, 60153115013, 60153115014

METHOD BLANK: 1258759 Matrix: Water
Associated Lab Samples: 60153115001, 60153115002, 60153115003, 60153115004, 60153115005, 60153115006, 60153115007, 60153115008, 60153115009, 60153115010, 60153115011, 60153115012, 60153115013, 60153115014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	20.0	09/24/13 10:08	
Alkalinity, Total as CaCO3	mg/L	ND	20.0	09/24/13 10:08	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	20.0	09/24/13 10:08	

LABORATORY CONTROL SAMPLE: 1258760

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	495	99	90-110	

SAMPLE DUPLICATE: 1258763

Parameter	Units	60153027009 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	ND		10	
Alkalinity, Total as CaCO3	mg/L	412	412	0	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	412	412	0	10	

SAMPLE DUPLICATE: 1258764

Parameter	Units	60153115004 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	ND		10	
Alkalinity, Total as CaCO3	mg/L	ND	ND		10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	ND		10	

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(913)599-5665

QUALITY CONTROL DATA

Project: September 2013 Rico Water
Pace Project No.: 60153115

QC Batch: WET/43499 | Analysis Method: SM 2540C
QC Batch Method: SM 2540C | Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 60153115001, 60153115002, 60153115003, 60153115004, 60153115005, 60153115006, 60153115007, 60153115008, 60153115009, 60153115010, 60153115011, 60153115012, 60153115013, 60153115014

METHOD BLANK: 1256428 | Matrix: Water
Associated Lab Samples: 60153115001, 60153115002, 60153115003, 60153115004, 60153115005, 60153115006, 60153115007, 60153115008, 60153115009, 60153115010, 60153115011, 60153115012, 60153115013, 60153115014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	09/19/13 13:49	

LABORATORY CONTROL SAMPLE: 1256429

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	947	95	80-120	

SAMPLE DUPLICATE: 1256430

Parameter	Units	60153115001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1220	1280	4	17	

SAMPLE DUPLICATE: 1256431

Parameter	Units	60153136003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	439	439	0	17	

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QUALITY CONTROL DATA

Project: September 2013 Rico Water
Pace Project No.: 60153115

QC Batch: WET/43497 Analysis Method: SM 2540D
QC Batch Method: SM 2540D Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 60153115001, 60153115002, 60153115003, 60153115004, 60153115005, 60153115006, 60153115007, 60153115008, 60153115009, 60153115010, 60153115011, 60153115012, 60153115013, 60153115014

METHOD BLANK: 1256237 Matrix: Water
Associated Lab Samples: 60153115001, 60153115002, 60153115003, 60153115004, 60153115005, 60153115006, 60153115007, 60153115008, 60153115009, 60153115010, 60153115011, 60153115012, 60153115013, 60153115014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	09/19/13 10:26	

SAMPLE DUPLICATE: 1256238

Parameter	Units	60153115001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	ND	6.0		25	

SAMPLE DUPLICATE: 1256239

Parameter	Units	60153115011 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	15.0	18.0	18	25	

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QUALITY CONTROL DATA

Project: September 2013 Rico Water
Pace Project No.: 60153115

QC Batch: WET/43470 Analysis Method: SM 4500-S-2 D
QC Batch Method: SM 4500-S-2 D Analysis Description: 4500S2D Sulfide, Total
Associated Lab Samples: 60153115001, 60153115002, 60153115003, 60153115004, 60153115005, 60153115006, 60153115007

METHOD BLANK: 1255240 Matrix: Water
Associated Lab Samples: 60153115001, 60153115002, 60153115003, 60153115004, 60153115005, 60153115006, 60153115007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.050	09/18/13 11:30	

LABORATORY CONTROL SAMPLE: 1255241

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	.5	0.46	92	80-120	

MATRIX SPIKE SAMPLE: 1255242

Parameter	Units	60153027001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	ND	.5	0.42	84	75-125	

SAMPLE DUPLICATE: 1255243

Parameter	Units	60153027002 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 1255244

Parameter	Units	60153027010 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: September 2013 Rico Water
Pace Project No.: 60153115

QC Batch: WET/43471 Analysis Method: SM 4500-S-2 D
QC Batch Method: SM 4500-S-2 D Analysis Description: 4500S2D Sulfide, Total
Associated Lab Samples: 60153115008, 60153115009, 60153115010, 60153115011, 60153115012, 60153115013, 60153115014

METHOD BLANK: 1255245 Matrix: Water
Associated Lab Samples: 60153115008, 60153115009, 60153115010, 60153115011, 60153115012, 60153115013, 60153115014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.050	09/18/13 11:57	

LABORATORY CONTROL SAMPLE: 1255246

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	.5	0.46	92	80-120	

MATRIX SPIKE SAMPLE: 1255247

Parameter	Units	60153115008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	ND	.5	0.16	31	75-125	M1

SAMPLE DUPLICATE: 1255248

Parameter	Units	60153115009 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: September 2013 Rico Water
Pace Project No.: 60153115

QC Batch: WETA/26361 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60153115001, 60153115002, 60153115003, 60153115004, 60153115005, 60153115006, 60153115007, 60153115008, 60153115009, 60153115010, 60153115011, 60153115012, 60153115013, 60153115014

METHOD BLANK: 1260912 Matrix: Water
Associated Lab Samples: 60153115001, 60153115002, 60153115003, 60153115004, 60153115005, 60153115006, 60153115007, 60153115008, 60153115009, 60153115010, 60153115011, 60153115012, 60153115013, 60153115014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	09/26/13 18:57	

METHOD BLANK: 1261494 Matrix: Water
Associated Lab Samples: 60153115001, 60153115002, 60153115003, 60153115004, 60153115005, 60153115006, 60153115007, 60153115008, 60153115009, 60153115010, 60153115011, 60153115012, 60153115013, 60153115014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	1.0	09/27/13 14:05	

LABORATORY CONTROL SAMPLE: 1260913

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.9	97	90-110	

LABORATORY CONTROL SAMPLE: 1261495

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: 1261262 1261263

Parameter	Units	60153115002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1.3	5	5	5.7	5.7	86	87	80-120	1	15	
Sulfate	mg/L	791	500	500	1420	1430	126	128	80-120	1	15	M1

MATRIX SPIKE SAMPLE: 1261264

Parameter	Units	60153115003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.5	5	5.8	86	80-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: September 2013 Rico Water
Pace Project No.: 60153115

QC Batch: WETA/26391 | Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 | Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 60153115001, 60153115002, 60153115003, 60153115004, 60153115005, 60153115006, 60153115007, 60153115008, 60153115009, 60153115010, 60153115011, 60153115012, 60153115013, 60153115014

METHOD BLANK: 1262355 | Matrix: Water
Associated Lab Samples: 60153115001, 60153115002, 60153115003, 60153115004, 60153115005, 60153115006, 60153115007, 60153115008, 60153115009, 60153115010, 60153115011, 60153115012, 60153115013, 60153115014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	0.10	09/29/13 09:42	

LABORATORY CONTROL SAMPLE: 1262356

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2	2.1	105	90-110	

MATRIX SPIKE SAMPLE: 1262357

Parameter	Units	60153115001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	2	2.0	95	90-110	

MATRIX SPIKE SAMPLE: 1262358

Parameter	Units	60153115002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	2	1.5	71	90-110	M1

SAMPLE DUPLICATE: 1262359

Parameter	Units	60153115005 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: September 2013 Rico Water
Pace Project No.: 60153115

QC Batch: WETA/26295 | Analysis Method: SM 4500-CN-E
QC Batch Method: SM 4500-CN-E | Analysis Description: 4500CNE Cyanide, Total
Associated Lab Samples: 60153115001, 60153115002, 60153115003, 60153115004

METHOD BLANK: 1258388 | Matrix: Water
Associated Lab Samples: 60153115001, 60153115002, 60153115003, 60153115004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	mg/L	ND	0.0050	09/23/13 15:22	

LABORATORY CONTROL SAMPLE: 1258389

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	.1	0.099	99	69-126	

MATRIX SPIKE SAMPLE: 1258390

Parameter	Units	60153027003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	ND	.1	0.095	95	41-136	

SAMPLE DUPLICATE: 1258391

Parameter	Units	60153115002 Result	Dup Result	RPD	Max RPD	Qualifiers
Cyanide	mg/L	ND	ND		26	

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QUALITY CONTROL DATA

Project: September 2013 Rico Water
Pace Project No.: 60153115

QC Batch: WETA/26296 | Analysis Method: SM 4500-CN-E
QC Batch Method: SM 4500-CN-E | Analysis Description: 4500CNE Cyanide, Total
Associated Lab Samples: 60153115005, 60153115006, 60153115007, 60153115008, 60153115009, 60153115010, 60153115011, 60153115012, 60153115013, 60153115014

METHOD BLANK: 1258396 | Matrix: Water
Associated Lab Samples: 60153115005, 60153115006, 60153115007, 60153115008, 60153115009, 60153115010, 60153115011, 60153115012, 60153115013, 60153115014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	mg/L	ND	0.0050	09/23/13 15:51	

LABORATORY CONTROL SAMPLE: 1258397

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	.1	0.10	100	69-126	

MATRIX SPIKE SAMPLE: 1258398

Parameter	Units	60153115005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	ND	.1	0.076	76	41-136	

SAMPLE DUPLICATE: 1258399

Parameter	Units	60153115013 Result	Dup Result	RPD	Max RPD	Qualifiers
Cyanide	mg/L	ND	ND		26	

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QUALITY CONTROL DATA

Project: September 2013 Rico Water
Pace Project No.: 60153115

QC Batch: WETA/19544 — Analysis Method: SM 5310C
QC Batch Method: SM 5310C — Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 60153115001, 60153115002, 60153115003, 60153115004, 60153115005, 60153115006, 60153115007, 60153115008, 60153115009, 60153115010, 60153115011, 60153115012, 60153115013, 60153115014

METHOD BLANK: 859107 — Matrix: Water
Associated Lab Samples: 60153115001, 60153115002, 60153115003, 60153115004, 60153115005, 60153115006, 60153115007, 60153115008, 60153115009, 60153115010, 60153115011, 60153115012, 60153115013, 60153115014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	0.50	09/24/13 19:02	

LABORATORY CONTROL SAMPLE: 859108

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	2.5	2.4	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 859109 859110

Parameter	Units	60153115001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	ND	2.5	2.5	2.8	2.8	112	112	80-120	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 859111 859112

Parameter	Units	60153115002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	2.1	2.5	2.5	3.2	3.0	44	38	80-120	4	20	M0

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QUALIFIERS

Project: September 2013 Rico Water
Pace Project No.: 60153115

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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TNI - The NELAC Institute.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay
PASI-K	Pace Analytical Services - Kansas City
PASI-M	Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

E	Analyte concentration exceeded the calibration range. The reported result is estimated.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: September 2013 Rico Water
Pace Project No.: 60153115

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60153115001	**DR-4_20130912**	EPA 200.7	MPRP/24419	EPA 200.7	ICP/19024
60153115002	**GW-6_20130912**	EPA 200.7	MPRP/24419	EPA 200.7	ICP/19024
60153115003	**EB-1_20130912**	EPA 200.7	MPRP/24419	EPA 200.7	ICP/19024
60153115004	**EB-2_20130912**	EPA 200.7	MPRP/24419	EPA 200.7	ICP/19024
60153115005	**MW-103_20130912**	EPA 200.7	MPRP/24419	EPA 200.7	ICP/19024
60153115006	**P13-102_20130912**	EPA 200.7	MPRP/24419	EPA 200.7	ICP/19024
60153115007	**P13-103_20130912**	EPA 200.7	MPRP/24419	EPA 200.7	ICP/19024
60153115008	**MW-1 DEEP_20130912**	EPA 200.7	MPRP/24419	EPA 200.7	ICP/19024
60153115009	**MW-1 SHALLOW_20130912**	EPA 200.7	MPRP/24419	EPA 200.7	ICP/19024
60153115010	**MW-2 DEEP_20130912**	EPA 200.7	MPRP/24419	EPA 200.7	ICP/19024
60153115011	**MW-3 DEEP_20130912**	EPA 200.7	MPRP/24419	EPA 200.7	ICP/19024
60153115012	**MW-4 SHALLOW_20130912**	EPA 200.7	MPRP/24419	EPA 200.7	ICP/19024
60153115013	**DR-10_20130912**	EPA 200.7	MPRP/24419	EPA 200.7	ICP/19024
60153115014	**GW-3_20130912**	EPA 200.7	MPRP/24419	EPA 200.7	ICP/19024
60153115001	**DR-4_20130912**	EPA 200.8	MPRP/41979	EPA 200.8	ICPM/17722
60153115002	**GW-6_20130912**	EPA 200.8	MPRP/41979	EPA 200.8	ICPM/17722
60153115003	**EB-1_20130912**	EPA 200.8	MPRP/41979	EPA 200.8	ICPM/17722
60153115004	**EB-2_20130912**	EPA 200.8	MPRP/41979	EPA 200.8	ICPM/17722
60153115005	**MW-103_20130912**	EPA 200.8	MPRP/41979	EPA 200.8	ICPM/17722
60153115006	**P13-102_20130912**	EPA 200.8	MPRP/41979	EPA 200.8	ICPM/17722
60153115007	**P13-103_20130912**	EPA 200.8	MPRP/41979	EPA 200.8	ICPM/17722
60153115008	**MW-1 DEEP_20130912**	EPA 200.8	MPRP/41979	EPA 200.8	ICPM/17722
60153115009	**MW-1 SHALLOW_20130912**	EPA 200.8	MPRP/41979	EPA 200.8	ICPM/17722
60153115010	**MW-2 DEEP_20130912**	EPA 200.8	MPRP/41979	EPA 200.8	ICPM/17722
60153115011	**MW-3 DEEP_20130912**	EPA 200.8	MPRP/41979	EPA 200.8	ICPM/17722
60153115012	**MW-4 SHALLOW_20130912**	EPA 200.8	MPRP/41979	EPA 200.8	ICPM/17722
60153115013	**DR-10_20130912**	EPA 200.8	MPRP/41979	EPA 200.8	ICPM/17722
60153115014	**GW-3_20130912**	EPA 200.8	MPRP/41979	EPA 200.8	ICPM/17722
60153115001	**DR-4_20130912**	EPA 200.8	MPRP/41975	EPA 200.8	ICPM/17723
60153115002	**GW-6_20130912**	EPA 200.8	MPRP/41975	EPA 200.8	ICPM/17723
60153115003	**EB-1_20130912**	EPA 200.8	MPRP/41975	EPA 200.8	ICPM/17723
60153115004	**EB-2_20130912**	EPA 200.8	MPRP/41975	EPA 200.8	ICPM/17723
60153115005	**MW-103_20130912**	EPA 200.8	MPRP/41975	EPA 200.8	ICPM/17723
60153115006	**P13-102_20130912**	EPA 200.8	MPRP/41975	EPA 200.8	ICPM/17723
60153115007	**P13-103_20130912**	EPA 200.8	MPRP/41975	EPA 200.8	ICPM/17723
60153115008	**MW-1 DEEP_20130912**	EPA 200.8	MPRP/41975	EPA 200.8	ICPM/17723
60153115009	**MW-1 SHALLOW_20130912**	EPA 200.8	MPRP/41975	EPA 200.8	ICPM/17723
60153115010	**MW-2 DEEP_20130912**	EPA 200.8	MPRP/41975	EPA 200.8	ICPM/17723
60153115011	**MW-3 DEEP_20130912**	EPA 200.8	MPRP/41975	EPA 200.8	ICPM/17723
60153115012	**MW-4 SHALLOW_20130912**	EPA 200.8	MPRP/41975	EPA 200.8	ICPM/17723
60153115013	**DR-10_20130912**	EPA 200.8	MPRP/41975	EPA 200.8	ICPM/17723
60153115014	**GW-3_20130912**	EPA 200.8	MPRP/41975	EPA 200.8	ICPM/17723
60153115001	**DR-4_20130912**	EPA 200.8	MPRP/24420	EPA 200.8	ICPM/2526
60153115002	**GW-6_20130912**	EPA 200.8	MPRP/24420	EPA 200.8	ICPM/2526
60153115003	**EB-1_20130912**	EPA 200.8	MPRP/24420	EPA 200.8	ICPM/2526
60153115004	**EB-2_20130912**	EPA 200.8	MPRP/24420	EPA 200.8	ICPM/2526
60153115005	**MW-103_20130912**	EPA 200.8	MPRP/24420	EPA 200.8	ICPM/2526

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: September 2013 Rico Water
Pace Project No.: 60153115

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60153115006	**P13-102_20130912**	EPA 200.8	MPRP/24420	EPA 200.8	ICPM/2526
60153115007	**P13-103_20130912**	EPA 200.8	MPRP/24420	EPA 200.8	ICPM/2526
60153115008	**MW-1 DEEP_20130912**	EPA 200.8	MPRP/24420	EPA 200.8	ICPM/2526
60153115009	**MW-1 SHALLOW_20130912**	EPA 200.8	MPRP/24420	EPA 200.8	ICPM/2526
60153115010	**MW-2 DEEP_20130912**	EPA 200.8	MPRP/24420	EPA 200.8	ICPM/2526
60153115011	**MW-3 DEEP_20130912**	EPA 200.8	MPRP/24420	EPA 200.8	ICPM/2526
60153115012	**MW-4 SHALLOW_20130912**	EPA 200.8	MPRP/24420	EPA 200.8	ICPM/2526
60153115013	**DR-10_20130912**	EPA 200.8	MPRP/24420	EPA 200.8	ICPM/2526
60153115014	**GW-3_20130912**	EPA 200.8	MPRP/24420	EPA 200.8	ICPM/2526
60153115001	**DR-4_20130912**	EPA 245.1	MERP/9285	EPA 245.1	MERC/10620
60153115002	**GW-6_20130912**	EPA 245.1	MERP/9285	EPA 245.1	MERC/10620
60153115003	**EB-1_20130912**	EPA 245.1	MERP/9285	EPA 245.1	MERC/10620
60153115004	**EB-2_20130912**	EPA 245.1	MERP/9285	EPA 245.1	MERC/10620
60153115005	**MW-103_20130912**	EPA 245.1	MERP/9285	EPA 245.1	MERC/10620
60153115006	**P13-102_20130912**	EPA 245.1	MERP/9285	EPA 245.1	MERC/10620
60153115007	**P13-103_20130912**	EPA 245.1	MERP/9285	EPA 245.1	MERC/10620
60153115008	**MW-1 DEEP_20130912**	EPA 245.1	MERP/9285	EPA 245.1	MERC/10620
60153115009	**MW-1 SHALLOW_20130912**	EPA 245.1	MERP/9285	EPA 245.1	MERC/10620
60153115010	**MW-2 DEEP_20130912**	EPA 245.1	MERP/9285	EPA 245.1	MERC/10620
60153115011	**MW-3 DEEP_20130912**	EPA 245.1	MERP/9285	EPA 245.1	MERC/10620
60153115012	**MW-4 SHALLOW_20130912**	EPA 245.1	MERP/9285	EPA 245.1	MERC/10620
60153115013	**DR-10_20130912**	EPA 245.1	MERP/9285	EPA 245.1	MERC/10620
60153115014	**GW-3_20130912**	EPA 245.1	MERP/9285	EPA 245.1	MERC/10620
60153115001	**DR-4_20130912**	EPA 245.1	MERP/9349	EPA 245.1	MERC/10659
60153115002	**GW-6_20130912**	EPA 245.1	MERP/9349	EPA 245.1	MERC/10659
60153115003	**EB-1_20130912**	EPA 245.1	MERP/9349	EPA 245.1	MERC/10659
60153115004	**EB-2_20130912**	EPA 245.1	MERP/9349	EPA 245.1	MERC/10659
60153115005	**MW-103_20130912**	EPA 245.1	MERP/9349	EPA 245.1	MERC/10659
60153115006	**P13-102_20130912**	EPA 245.1	MERP/9349	EPA 245.1	MERC/10659
60153115007	**P13-103_20130912**	EPA 245.1	MERP/9349	EPA 245.1	MERC/10659
60153115008	**MW-1 DEEP_20130912**	EPA 245.1	MERP/9349	EPA 245.1	MERC/10659
60153115009	**MW-1 SHALLOW_20130912**	EPA 245.1	MERP/9349	EPA 245.1	MERC/10659
60153115010	**MW-2 DEEP_20130912**	EPA 245.1	MERP/9349	EPA 245.1	MERC/10659
60153115011	**MW-3 DEEP_20130912**	EPA 245.1	MERP/9349	EPA 245.1	MERC/10659
60153115012	**MW-4 SHALLOW_20130912**	EPA 245.1	MERP/9349	EPA 245.1	MERC/10659
60153115013	**DR-10_20130912**	EPA 245.1	MERP/9349	EPA 245.1	MERC/10659
60153115014	**GW-3_20130912**	EPA 245.1	MERP/9349	EPA 245.1	MERC/10659
60153115001	**DR-4_20130912**	EPA 245.1	MERP/7742	EPA 245.1	MERC/7695
60153115002	**GW-6_20130912**	EPA 245.1	MERP/7742	EPA 245.1	MERC/7695
60153115003	**EB-1_20130912**	EPA 245.1	MERP/7742	EPA 245.1	MERC/7695
60153115004	**EB-2_20130912**	EPA 245.1	MERP/7742	EPA 245.1	MERC/7695
60153115005	**MW-103_20130912**	EPA 245.1	MERP/7742	EPA 245.1	MERC/7695
60153115006	**P13-102_20130912**	EPA 245.1	MERP/7742	EPA 245.1	MERC/7695
60153115007	**P13-103_20130912**	EPA 245.1	MERP/7742	EPA 245.1	MERC/7695
60153115008	**MW-1 DEEP_20130912**	EPA 245.1	MERP/7742	EPA 245.1	MERC/7695
60153115009	**MW-1 SHALLOW_20130912**	EPA 245.1	MERP/7742	EPA 245.1	MERC/7695
60153115010	**MW-2 DEEP_20130912**	EPA 245.1	MERP/7742	EPA 245.1	MERC/7695

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: September 2013 Rico Water
Pace Project No.: 60153115

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60153115011	**MW-3 DEEP_20130912**	EPA 245.1	MERP/7742	EPA 245.1	MERC/7695
60153115012	**MW-4 SHALLOW_20130912**	EPA 245.1	MERP/7742	EPA 245.1	MERC/7695
60153115013	**DR-10_20130912**	EPA 245.1	MERP/7742	EPA 245.1	MERC/7695
60153115014	**GW-3_20130912**	EPA 245.1	MERP/7742	EPA 245.1	MERC/7695
60153115001	**DR-4_20130912**	SM 2510B	MT/13704		
60153115002	**GW-6_20130912**	SM 2510B	MT/13704		
60153115003	**EB-1_20130912**	SM 2510B	MT/13704		
60153115004	**EB-2_20130912**	SM 2510B	MT/13704		
60153115005	**MW-103_20130912**	SM 2510B	MT/13704		
60153115006	**P13-102_20130912**	SM 2510B	MT/13704		
60153115007	**P13-103_20130912**	SM 2510B	MT/13704		
60153115008	**MW-1 DEEP_20130912**	SM 2510B	MT/13704		
60153115009	**MW-1 SHALLOW_20130912**	SM 2510B	MT/13704		
60153115010	**MW-2 DEEP_20130912**	SM 2510B	MT/13704		
60153115011	**MW-3 DEEP_20130912**	SM 2510B	MT/13704		
60153115012	**MW-4 SHALLOW_20130912**	SM 2510B	MT/13704		
60153115013	**DR-10_20130912**	SM 2510B	MT/13704		
60153115014	**GW-3_20130912**	SM 2510B	MT/13704		
60153115001	**DR-4_20130912**	Calculated	MT/13721		
60153115002	**GW-6_20130912**	Calculated	MT/13721		
60153115003	**EB-1_20130912**	Calculated	MT/13721		
60153115004	**EB-2_20130912**	Calculated	MT/13721		
60153115005	**MW-103_20130912**	Calculated	MT/13721		
60153115006	**P13-102_20130912**	Calculated	MT/13721		
60153115007	**P13-103_20130912**	Calculated	MT/13721		
60153115008	**MW-1 DEEP_20130912**	Calculated	MT/13721		
60153115009	**MW-1 SHALLOW_20130912**	Calculated	MT/13746		
60153115010	**MW-2 DEEP_20130912**	Calculated	MT/13746		
60153115011	**MW-3 DEEP_20130912**	Calculated	MT/13746		
60153115012	**MW-4 SHALLOW_20130912**	Calculated	MT/13746		
60153115013	**DR-10_20130912**	Calculated	MT/13746		
60153115014	**GW-3_20130912**	Calculated	MT/13746		
60153115001	**DR-4_20130912**	SM 2320B	WET/43565		
60153115002	**GW-6_20130912**	SM 2320B	WET/43565		
60153115003	**EB-1_20130912**	SM 2320B	WET/43565		
60153115004	**EB-2_20130912**	SM 2320B	WET/43565		
60153115005	**MW-103_20130912**	SM 2320B	WET/43565		
60153115006	**P13-102_20130912**	SM 2320B	WET/43565		
60153115007	**P13-103_20130912**	SM 2320B	WET/43565		
60153115008	**MW-1 DEEP_20130912**	SM 2320B	WET/43565		
60153115009	**MW-1 SHALLOW_20130912**	SM 2320B	WET/43565		
60153115010	**MW-2 DEEP_20130912**	SM 2320B	WET/43565		
60153115011	**MW-3 DEEP_20130912**	SM 2320B	WET/43565		
60153115012	**MW-4 SHALLOW_20130912**	SM 2320B	WET/43565		
60153115013	**DR-10_20130912**	SM 2320B	WET/43565		
60153115014	**GW-3_20130912**	SM 2320B	WET/43565		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: September 2013 Rico Water
Pace Project No.: 60153115

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60153115001	**DR-4_20130912**	SM 2540C	WET/43499		
60153115002	**GW-6_20130912**	SM 2540C	WET/43499		
60153115003	**EB-1_20130912**	SM 2540C	WET/43499		
60153115004	**EB-2_20130912**	SM 2540C	WET/43499		
60153115005	**MW-103_20130912**	SM 2540C	WET/43499		
60153115006	**P13-102_20130912**	SM 2540C	WET/43499		
60153115007	**P13-103_20130912**	SM 2540C	WET/43499		
60153115008	**MW-1 DEEP_20130912**	SM 2540C	WET/43499		
60153115009	**MW-1 SHALLOW_20130912**	SM 2540C	WET/43499		
60153115010	**MW-2 DEEP_20130912**	SM 2540C	WET/43499		
60153115011	**MW-3 DEEP_20130912**	SM 2540C	WET/43499		
60153115012	**MW-4 SHALLOW_20130912**	SM 2540C	WET/43499		
60153115013	**DR-10_20130912**	SM 2540C	WET/43499		
60153115014	**GW-3_20130912**	SM 2540C	WET/43499		
60153115001	**DR-4_20130912**	SM 2540D	WET/43497		
60153115002	**GW-6_20130912**	SM 2540D	WET/43497		
60153115003	**EB-1_20130912**	SM 2540D	WET/43497		
60153115004	**EB-2_20130912**	SM 2540D	WET/43497		
60153115005	**MW-103_20130912**	SM 2540D	WET/43497		
60153115006	**P13-102_20130912**	SM 2540D	WET/43497		
60153115007	**P13-103_20130912**	SM 2540D	WET/43497		
60153115008	**MW-1 DEEP_20130912**	SM 2540D	WET/43497		
60153115009	**MW-1 SHALLOW_20130912**	SM 2540D	WET/43497		
60153115010	**MW-2 DEEP_20130912**	SM 2540D	WET/43497		
60153115011	**MW-3 DEEP_20130912**	SM 2540D	WET/43497		
60153115012	**MW-4 SHALLOW_20130912**	SM 2540D	WET/43497		
60153115013	**DR-10_20130912**	SM 2540D	WET/43497		
60153115014	**GW-3_20130912**	SM 2540D	WET/43497		
60153115001	**DR-4_20130912**	SM 4500-S-2 D	WET/43470		
60153115002	**GW-6_20130912**	SM 4500-S-2 D	WET/43470		
60153115003	**EB-1_20130912**	SM 4500-S-2 D	WET/43470		
60153115004	**EB-2_20130912**	SM 4500-S-2 D	WET/43470		
60153115005	**MW-103_20130912**	SM 4500-S-2 D	WET/43470		
60153115006	**P13-102_20130912**	SM 4500-S-2 D	WET/43470		
60153115007	**P13-103_20130912**	SM 4500-S-2 D	WET/43470		
60153115008	**MW-1 DEEP_20130912**	SM 4500-S-2 D	WET/43471		
60153115009	**MW-1 SHALLOW_20130912**	SM 4500-S-2 D	WET/43471		
60153115010	**MW-2 DEEP_20130912**	SM 4500-S-2 D	WET/43471		
60153115011	**MW-3 DEEP_20130912**	SM 4500-S-2 D	WET/43471		
60153115012	**MW-4 SHALLOW_20130912**	SM 4500-S-2 D	WET/43471		
60153115013	**DR-10_20130912**	SM 4500-S-2 D	WET/43471		
60153115014	**GW-3_20130912**	SM 4500-S-2 D	WET/43471		
60153115001	**DR-4_20130912**	EPA 300.0	WETA/26361		
60153115002	**GW-6_20130912**	EPA 300.0	WETA/26361		
60153115003	**EB-1_20130912**	EPA 300.0	WETA/26361		
60153115004	**EB-2_20130912**	EPA 300.0	WETA/26361		
60153115005	**MW-103_20130912**	EPA 300.0	WETA/26361		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: September 2013 Rico Water
Pace Project No.: 60153115

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60153115006	**P13-102_20130912**	EPA 300.0	WETA/26361		
60153115007	**P13-103_20130912**	EPA 300.0	WETA/26361		
60153115008	**MW-1 DEEP_20130912**	EPA 300.0	WETA/26361		
60153115009	**MW-1 SHALLOW_20130912**	EPA 300.0	WETA/26361		
60153115010	**MW-2 DEEP_20130912**	EPA 300.0	WETA/26361		
60153115011	**MW-3 DEEP_20130912**	EPA 300.0	WETA/26361		
60153115012	**MW-4 SHALLOW_20130912**	EPA 300.0	WETA/26361		
60153115013	**DR-10_20130912**	EPA 300.0	WETA/26361		
60153115014	**GW-3_20130912**	EPA 300.0	WETA/26361		
60153115001	**DR-4_20130912**	EPA 353.2	WETA/26391		
60153115002	**GW-6_20130912**	EPA 353.2	WETA/26391		
60153115003	**EB-1_20130912**	EPA 353.2	WETA/26391		
60153115004	**EB-2_20130912**	EPA 353.2	WETA/26391		
60153115005	**MW-103_20130912**	EPA 353.2	WETA/26391		
60153115006	**P13-102_20130912**	EPA 353.2	WETA/26391		
60153115007	**P13-103_20130912**	EPA 353.2	WETA/26391		
60153115008	**MW-1 DEEP_20130912**	EPA 353.2	WETA/26391		
60153115009	**MW-1 SHALLOW_20130912**	EPA 353.2	WETA/26391		
60153115010	**MW-2 DEEP_20130912**	EPA 353.2	WETA/26391		
60153115011	**MW-3 DEEP_20130912**	EPA 353.2	WETA/26391		
60153115012	**MW-4 SHALLOW_20130912**	EPA 353.2	WETA/26391		
60153115013	**DR-10_20130912**	EPA 353.2	WETA/26391		
60153115014	**GW-3_20130912**	EPA 353.2	WETA/26391		
60153115001	**DR-4_20130912**	SM 4500-CN-E	WETA/26295		
60153115002	**GW-6_20130912**	SM 4500-CN-E	WETA/26295		
60153115003	**EB-1_20130912**	SM 4500-CN-E	WETA/26295		
60153115004	**EB-2_20130912**	SM 4500-CN-E	WETA/26295		
60153115005	**MW-103_20130912**	SM 4500-CN-E	WETA/26296		
60153115006	**P13-102_20130912**	SM 4500-CN-E	WETA/26296		
60153115007	**P13-103_20130912**	SM 4500-CN-E	WETA/26296		
60153115008	**MW-1 DEEP_20130912**	SM 4500-CN-E	WETA/26296		
60153115009	**MW-1 SHALLOW_20130912**	SM 4500-CN-E	WETA/26296		
60153115010	**MW-2 DEEP_20130912**	SM 4500-CN-E	WETA/26296		
60153115011	**MW-3 DEEP_20130912**	SM 4500-CN-E	WETA/26296		
60153115012	**MW-4 SHALLOW_20130912**	SM 4500-CN-E	WETA/26296		
60153115013	**DR-10_20130912**	SM 4500-CN-E	WETA/26296		
60153115014	**GW-3_20130912**	SM 4500-CN-E	WETA/26296		
60153115001	**DR-4_20130912**	SM 5310C	WETA/19544		
60153115002	**GW-6_20130912**	SM 5310C	WETA/19544		
60153115003	**EB-1_20130912**	SM 5310C	WETA/19544		
60153115004	**EB-2_20130912**	SM 5310C	WETA/19544		
60153115005	**MW-103_20130912**	SM 5310C	WETA/19544		
60153115006	**P13-102_20130912**	SM 5310C	WETA/19544		
60153115007	**P13-103_20130912**	SM 5310C	WETA/19544		
60153115008	**MW-1 DEEP_20130912**	SM 5310C	WETA/19544		
60153115009	**MW-1 SHALLOW_20130912**	SM 5310C	WETA/19544		
60153115010	**MW-2 DEEP_20130912**	SM 5310C	WETA/19544		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: September 2013 Rico Water
Pace Project No.: 60153115

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60153115011	**MW-3 DEEP_20130912**	SM 5310C	WETA/19544		
60153115012	**MW-4 SHALLOW_20130912**	SM 5310C	WETA/19544		
60153115013	**DR-10_20130912**	SM 5310C	WETA/19544		
60153115014	**GW-3_20130912**	SM 5310C	WETA/19544		

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QUALITY CONTROL DATA

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

QC Batch: MERP/9443 Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury
Associated Lab Samples: 60154287001, 60154287002, 60154287003, 60154287004, 60154287005, 60154287006, 60154287007, 60154287008, 60154287009, 60154287010, 60154287011, 60154287012, 60154287013

METHOD BLANK: 1542979 Matrix: Water
Associated Lab Samples: 60154287001, 60154287002, 60154287003, 60154287004, 60154287005, 60154287006, 60154287007, 60154287008, 60154287009, 60154287010, 60154287011, 60154287012, 60154287013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	10/14/13 13:49	

LABORATORY CONTROL SAMPLE: 1542980

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.9	98	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1542981 1542982

Parameter	Units	60154287002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	4.2	4.8	84	95	85-115	12	20	M1

MATRIX SPIKE SAMPLE: 1542983

Parameter	Units	60154287013 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	0.45	5	5.5	101	85-115	

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QUALITY CONTROL DATA

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

QC Batch: MERP/9444 Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury - Dissolved
Associated Lab Samples: 60154287001, 60154287002, 60154287003, 60154287004, 60154287005, 60154287006, 60154287007, 60154287008, 60154287009, 60154287010, 60154287011, 60154287012, 60154287013

METHOD BLANK: 1542984 Matrix: Water
Associated Lab Samples: 60154287001, 60154287002, 60154287003, 60154287004, 60154287005, 60154287006, 60154287007, 60154287008, 60154287009, 60154287010, 60154287011, 60154287012, 60154287013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	10/14/13 14:41	

LABORATORY CONTROL SAMPLE: 1542985

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.5	90	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1542986 1542987

Parameter	Units	60154287002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	5	5	4.6	4.6	91	92	85-115	.4	20	

MATRIX SPIKE SAMPLE: 1542988

Parameter	Units	60154287013 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	ND	5	4.5	90	85-115	

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QUALITY CONTROL DATA

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

QC Batch: MERP/7782 Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury, Potentially Dissolved
Associated Lab Samples: 60154287001, 60154287002, 60154287003, 60154287004, 60154287005, 60154287006, 60154287007, 60154287008, 60154287009, 60154287010, 60154287011, 60154287012, 60154287013

METHOD BLANK: 1267281 Matrix: Water
Associated Lab Samples: 60154287001, 60154287002, 60154287003, 60154287004, 60154287005, 60154287006, 60154287007, 60154287008, 60154287009, 60154287010, 60154287011, 60154287012, 60154287013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	10/08/13 09:57	

LABORATORY CONTROL SAMPLE: 1267282

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.9	98	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1267283 1267284

Parameter	Units	60154287003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	5	5	4.7	4.4	94	87	70-130	8	20	

SAMPLE DUPLICATE: 1267593

Parameter	Units	60154287004 Result	Dup Result	RPD	Max RPD	Qualifiers
Mercury, Dissolved	ug/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

QC Batch: MPRP/24575 | Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 | Analysis Description: 200.7 Potentially Dissolved Metals
Associated Lab Samples: 60154287001, 60154287002, 60154287003, 60154287004, 60154287005, 60154287006, 60154287007, 60154287008, 60154287009, 60154287010, 60154287011, 60154287012, 60154287013

METHOD BLANK: 1266127 | Matrix: Water
Associated Lab Samples: 60154287001, 60154287002, 60154287003, 60154287004, 60154287005, 60154287006, 60154287007, 60154287008, 60154287009, 60154287010, 60154287011, 60154287012, 60154287013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Calcium, Dissolved	ug/L	33.9J	100	10/07/13 17:05	
Magnesium, Dissolved	ug/L	19.7J	50.0	10/07/13 17:05	
Potassium, Dissolved	ug/L	ND	500	10/07/13 17:05	
Sodium, Dissolved	ug/L	37.1J	500	10/07/13 17:05	

LABORATORY CONTROL SAMPLE: 1266128

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium, Dissolved	ug/L	10000	9950	99	85-115	
Magnesium, Dissolved	ug/L	10000	10100	101	85-115	
Potassium, Dissolved	ug/L	10000	10000	100	85-115	
Sodium, Dissolved	ug/L	10000	9840	98	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1266129 1266130

Parameter	Units	60154287009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium, Dissolved	ug/L	259000	10000	10000	257000	253000	-27	-63	70-130	1	20	M1
Magnesium, Dissolved	ug/L	25700	10000	10000	33700	34100	80	84	70-130	1	20	
Potassium, Dissolved	ug/L	4720	10000	10000	14500	14300	98	96	70-130	1	20	
Sodium, Dissolved	ug/L	16400	10000	10000	25300	25100	90	87	70-130	1	20	

MATRIX SPIKE SAMPLE: 1266131

Parameter	Units	60154287013 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Calcium, Dissolved	ug/L	264000	10000	286000	219	70-130	M1
Magnesium, Dissolved	ug/L	34000	10000	43600	96	70-130	
Potassium, Dissolved	ug/L	6620	10000	17200	106	70-130	
Sodium, Dissolved	ug/L	8880	10000	19400	105	70-130	

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QUALITY CONTROL DATA

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

QC Batch: MPRP/42412 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: 200.8 MET
Associated Lab Samples: 60154287001, 60154287002, 60154287003, 60154287004, 60154287005, 60154287006, 60154287007, 60154287008, 60154287009, 60154287010, 60154287011, 60154287012, 60154287013

METHOD BLANK: 1543832 Matrix: Water
Associated Lab Samples: 60154287001, 60154287002, 60154287003, 60154287004, 60154287005, 60154287006, 60154287007, 60154287008, 60154287009, 60154287010, 60154287011, 60154287012, 60154287013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	4.0	10/17/13 17:25	
Antimony	ug/L	ND	0.50	10/17/13 17:25	
Arsenic	ug/L	ND	0.50	10/17/13 17:25	
Barium	ug/L	ND	0.30	10/17/13 17:25	
Beryllium	ug/L	ND	0.20	10/17/13 17:25	
Cadmium	ug/L	ND	0.080	10/17/13 17:25	
Calcium	ug/L	ND	20.0	10/17/13 17:25	
Chromium	ug/L	ND	0.50	10/17/13 17:25	
Cobalt	ug/L	ND	0.50	10/17/13 17:25	
Copper	ug/L	ND	0.50	10/17/13 17:25	
Iron	ug/L	ND	50.0	10/17/13 17:25	
Lead	ug/L	ND	0.10	10/17/13 17:25	
Magnesium	ug/L	ND	5.0	10/17/13 17:25	
Manganese	ug/L	ND	0.50	10/17/13 17:25	
Molybdenum	ug/L	ND	0.50	10/17/13 17:25	
Nickel	ug/L	ND	0.50	10/17/13 17:25	
Potassium	ug/L	ND	20.0	10/17/13 17:25	
Selenium	ug/L	ND	0.50	10/17/13 17:25	
Silver	ug/L	ND	0.50	10/17/13 17:25	
Sodium	ug/L	ND	50.0	10/17/13 17:25	
Thallium	ug/L	ND	0.10	10/17/13 17:25	
Vanadium	ug/L	ND	0.10	10/17/13 17:25	
Zinc	ug/L	ND	5.0	10/17/13 17:25	

LABORATORY CONTROL SAMPLE: 1543833

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	80	80.0	100	85-115	
Antimony	ug/L	80	77.9	97	85-115	
Arsenic	ug/L	80	79.4	99	85-115	
Barium	ug/L	80	77.3	97	85-115	
Beryllium	ug/L	80	85.3	107	85-115	
Cadmium	ug/L	80	81.5	102	85-115	
Calcium	ug/L	1000	960	96	85-115	
Chromium	ug/L	80	83.3	104	85-115	
Cobalt	ug/L	80	83.2	104	85-115	
Copper	ug/L	80	85.2	106	85-115	
Iron	ug/L	1000	973	97	85-115	
Lead	ug/L	80	77.8	97	85-115	
Magnesium	ug/L	1000	1040	104	85-115	

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QUALITY CONTROL DATA

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

LABORATORY CONTROL SAMPLE: 1543833

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese	ug/L	80	80.5	101	85-115	
Molybdenum	ug/L	80	81.1	101	85-115	
Nickel	ug/L	80	84.0	105	85-115	
Potassium	ug/L	1000	995	100	85-115	
Selenium	ug/L	80	76.7	96	85-115	
Silver	ug/L	80	83.1	104	85-115	
Sodium	ug/L	1000	1060	106	85-115	
Thallium	ug/L	80	77.1	96	85-115	
Vanadium	ug/L	80	82.4	103	85-115	
Zinc	ug/L	80	82.5	103	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1543834 1543835

Parameter	Units	60154287001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	1280	80	80	1940	1950	818	833	70-130	.6	20	M1
Antimony	ug/L	ND	80	80	79.7	78.4	99	98	70-130	2	20	
Arsenic	ug/L	2.4	80	80	83.7	83.1	102	101	70-130	.7	20	
Barium	ug/L	82.9	80	80	162	162	99	99	70-130	.2	20	
Beryllium	ug/L	ND	80	80	85.8	85.4	107	107	70-130	.5	20	
Cadmium	ug/L	2.2	80	80	84.2	85.2	102	104	70-130	1	20	
Calcium	ug/L	221000	1000	1000	226000	222000	455	120	70-130	1	20	E,M1
Chromium	ug/L	1.5	80	80	84.5	84.6	104	104	70-130	.2	20	
Cobalt	ug/L	1.9	80	80	84.0	84.6	103	103	70-130	.7	20	
Copper	ug/L	16.5	80	80	101	102	105	106	70-130	.9	20	
Iron	ug/L	2270	1000	1000	3480	3640	121	137	70-130	4	20	M1
Lead	ug/L	15.5	80	80	97.5	97.4	102	102	70-130	.2	20	
Magnesium	ug/L	24700	1000	1000	25800	25500	115	81	70-130	1	20	
Manganese	ug/L	325	80	80	414	423	111	123	70-130	2	20	
Molybdenum	ug/L	2.5	80	80	82.0	82.4	99	100	70-130	.4	20	
Nickel	ug/L	2.7	80	80	84.4	85.0	102	103	70-130	.6	20	
Potassium	ug/L	4320	1000	1000	5520	5440	120	112	70-130	1	20	
Selenium	ug/L	6.6	80	80	88.0	85.0	102	98	70-130	4	20	
Silver	ug/L	ND	80	80	77.4	79.2	97	99	70-130	2	20	
Sodium	ug/L	10900	1000	1000	11400	11300	48	46	70-130	.2	20	M1
Thallium	ug/L	ND	80	80	81.0	79.4	101	99	70-130	2	20	
Vanadium	ug/L	2.6	80	80	88.7	87.0	108	105	70-130	2	20	
Zinc	ug/L	267	80	80	364	371	121	130	70-130	2	20	

MATRIX SPIKE SAMPLE: 1543836

Parameter	Units	60154287011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	104000	80	115000	13800	70-130	E,M1
Antimony	ug/L	ND	80	11.1	13	70-130	M1
Arsenic	ug/L	80.4	80	164	105	70-130	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

MATRIX SPIKE SAMPLE: 1543836

Parameter	Units	60154287011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	2440	80	2620	231	70-130	E,M1
Beryllium	ug/L	6.0	80	87.4	102	70-130	
Cadmium	ug/L	64.0	80	155	113	70-130	
Calcium	ug/L	414000	1000	412000	-165	70-130	E,M1
Chromium	ug/L	83.9	80	178	118	70-130	
Cobalt	ug/L	123	80	216	117	70-130	
Copper	ug/L	991	80	1060	81	70-130	
Iron	ug/L	175000	1000	191000	1550	70-130	E,M1
Lead	ug/L	2370	80	2380	11	70-130	E,M1
Magnesium	ug/L	102000	1000	103000	113	70-130	
Manganese	ug/L	38000	80	41500	4360	70-130	E,M1
Molybdenum	ug/L	15.2	80	73.4	73	70-130	
Nickel	ug/L	193	80	298	131	70-130	M1
Potassium	ug/L	12400	1000	14500	211	70-130	M1
Selenium	ug/L	12.2	80	74.8	78	70-130	
Silver	ug/L	11.1	80	78.7	85	70-130	
Sodium	ug/L	15200	1000	16500	138	70-130	M1
Thallium	ug/L	2.4	80	66.8	81	70-130	
Vanadium	ug/L	166	80	271	131	70-130	M1
Zinc	ug/L	8720	80	8900	226	70-130	E,M1

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QUALITY CONTROL DATA

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

QC Batch: MPRP/42413 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: 200.8 MET Dissolved
Associated Lab Samples: 60154287001, 60154287002, 60154287003, 60154287004, 60154287005, 60154287006, 60154287007, 60154287008, 60154287009, 60154287010, 60154287011, 60154287012, 60154287013

METHOD BLANK: 1543837 Matrix: Water
Associated Lab Samples: 60154287001, 60154287002, 60154287003, 60154287004, 60154287005, 60154287006, 60154287007, 60154287008, 60154287009, 60154287010, 60154287011, 60154287012, 60154287013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	4.0	10/22/13 11:47	
Antimony, Dissolved	ug/L	ND	0.50	10/22/13 11:47	
Arsenic, Dissolved	ug/L	ND	0.50	10/22/13 11:47	
Barium, Dissolved	ug/L	ND	0.30	10/22/13 11:47	
Beryllium, Dissolved	ug/L	ND	0.20	10/22/13 11:47	
Cadmium, Dissolved	ug/L	ND	0.080	10/22/13 11:47	
Calcium, Dissolved	ug/L	ND	20.0	10/22/13 11:47	
Chromium, Dissolved	ug/L	ND	0.50	10/22/13 11:47	
Cobalt, Dissolved	ug/L	ND	0.50	10/22/13 11:47	
Copper, Dissolved	ug/L	ND	0.50	10/22/13 11:47	
Iron, Dissolved	ug/L	ND	50.0	10/22/13 11:47	
Lead, Dissolved	ug/L	ND	0.10	10/22/13 11:47	
Magnesium, Dissolved	ug/L	ND	5.0	10/22/13 11:47	
Manganese, Dissolved	ug/L	ND	0.50	10/22/13 11:47	
Molybdenum, Dissolved	ug/L	ND	0.50	10/22/13 11:47	
Nickel, Dissolved	ug/L	ND	0.50	10/22/13 11:47	
Potassium, Dissolved	ug/L	ND	20.0	10/22/13 11:47	
Selenium, Dissolved	ug/L	ND	0.50	10/22/13 11:47	
Silver, Dissolved	ug/L	ND	0.50	10/22/13 11:47	
Sodium, Dissolved	ug/L	ND	50.0	10/22/13 11:47	
Thallium, Dissolved	ug/L	ND	0.10	10/22/13 11:47	
Vanadium, Dissolved	ug/L	ND	0.10	10/22/13 11:47	
Zinc, Dissolved	ug/L	ND	5.0	10/22/13 11:47	

LABORATORY CONTROL SAMPLE: 1543838

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	80	89.2	112	85-115	
Antimony, Dissolved	ug/L	80	81.9	102	85-115	
Arsenic, Dissolved	ug/L	80	83.8	105	85-115	
Barium, Dissolved	ug/L	80	86.5	108	85-115	
Beryllium, Dissolved	ug/L	80	84.2	105	85-115	
Cadmium, Dissolved	ug/L	80	85.6	107	85-115	
Calcium, Dissolved	ug/L	1000	1090	109	85-115	
Chromium, Dissolved	ug/L	80	84.7	106	85-115	
Cobalt, Dissolved	ug/L	80	86.6	108	85-115	
Copper, Dissolved	ug/L	80	86.4	108	85-115	
Iron, Dissolved	ug/L	1000	1050	105	85-115	
Lead, Dissolved	ug/L	80	82.7	103	85-115	
Magnesium, Dissolved	ug/L	1000	1070	107	85-115	

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QUALITY CONTROL DATA

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

LABORATORY CONTROL SAMPLE: 1543838

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese, Dissolved	ug/L	80	86.5	108	85-115	
Molybdenum, Dissolved	ug/L	80	84.8	106	85-115	
Nickel, Dissolved	ug/L	80	89.1	111	85-115	
Potassium, Dissolved	ug/L	1000	1030	103	85-115	
Selenium, Dissolved	ug/L	80	86.6	108	85-115	
Silver, Dissolved	ug/L	80	85.7	107	85-115	
Sodium, Dissolved	ug/L	1000	1020	102	85-115	
Thallium, Dissolved	ug/L	80	85.2	107	85-115	
Vanadium, Dissolved	ug/L	80	84.6	106	85-115	
Zinc, Dissolved	ug/L	80	87.9	110	85-115	

MATRIX SPIKE SAMPLE: 1543841

Parameter	Units	60154287011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	11300	80	15900	5720	70-130	M6
Antimony, Dissolved	ug/L	0.65	80	72.5	90	70-130	
Arsenic, Dissolved	ug/L	6.0	80	89.9	105	70-130	
Barium, Dissolved	ug/L	462	80	592	162	70-130	M6
Beryllium, Dissolved	ug/L	0.84	80	85.3	106	70-130	
Cadmium, Dissolved	ug/L	34.2	80	119	106	70-130	
Calcium, Dissolved	ug/L	311000	1000	316000	435	70-130	E,M6
Chromium, Dissolved	ug/L	7.8	80	93.1	107	70-130	
Cobalt, Dissolved	ug/L	63.4	80	150	108	70-130	
Copper, Dissolved	ug/L	57.6	80	147	111	70-130	
Iron, Dissolved	ug/L	12500	1000	15000	251	70-130	M6
Lead, Dissolved	ug/L	131	80	230	124	70-130	
Magnesium, Dissolved	ug/L	66500	1000	67700	116	70-130	
Manganese, Dissolved	ug/L	21500	80	22400	1060	70-130	E,M6
Molybdenum, Dissolved	ug/L	4.6	80	86.2	102	70-130	
Nickel, Dissolved	ug/L	75.6	80	165	111	70-130	
Potassium, Dissolved	ug/L	3610	1000	5480	187	70-130	M6
Selenium, Dissolved	ug/L	1.8	80	89.6	110	70-130	
Silver, Dissolved	ug/L	ND	80	72.5	90	70-130	
Sodium, Dissolved	ug/L	15100	1000	15200	4	70-130	M6
Thallium, Dissolved	ug/L	0.26	80	85.9	107	70-130	
Vanadium, Dissolved	ug/L	17.5	80	110	116	70-130	
Zinc, Dissolved	ug/L	3970	80	4070	130	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1551360 1551361

Parameter	Units	60154287003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	ug/L	400	80	80	662	676	328	346	70-130	2	20	M6
Antimony, Dissolved	ug/L	ND	80	80	81.4	82.6	102	103	70-130	1	20	
Arsenic, Dissolved	ug/L	0.57	80	80	83.4	82.3	104	102	70-130	1	20	

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Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1551360 1551361

Parameter	Units	60154287003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium, Dissolved	ug/L	19.2	80	80	105	105	108	107	70-130	.1	20	
Beryllium, Dissolved	ug/L	ND	80	80	81.8	84.0	102	105	70-130	3	20	
Cadmium, Dissolved	ug/L	0.33	80	80	84.5	83.3	105	104	70-130	1	20	
Calcium, Dissolved	ug/L	250000	1000	1000	268000	263000	1860	1300	70-130	2	20	E,M6
Chromium, Dissolved	ug/L	1.2	80	80	85.6	84.1	105	104	70-130	2	20	
Cobalt, Dissolved	ug/L	0.80	80	80	85.3	85.8	106	106	70-130	.6	20	
Copper, Dissolved	ug/L	2.5	80	80	85.9	87.3	104	106	70-130	2	20	
Iron, Dissolved	ug/L	542	1000	1000	1610	1630	107	109	70-130	1	20	
Lead, Dissolved	ug/L	3.0	80	80	84.2	84.7	102	102	70-130	.6	20	
Magnesium, Dissolved	ug/L	24000	1000	1000	27600	26800	366	286	70-130	3	20	M6
Manganese, Dissolved	ug/L	72.5	80	80	155	156	103	105	70-130	1	20	
Molybdenum, Dissolved	ug/L	0.88	80	80	85.7	86.0	106	106	70-130	.3	20	
Nickel, Dissolved	ug/L	2.6	80	80	88.2	92.4	107	112	70-130	5	20	
Potassium, Dissolved	ug/L	2350	1000	1000	3480	3400	113	105	70-130	2	20	
Selenium, Dissolved	ug/L	2.3	80	80	86.9	84.5	106	103	70-130	3	20	
Silver, Dissolved	ug/L	ND	80	80	74.7	80.3	93	100	70-130	7	20	
Sodium, Dissolved	ug/L	7340	1000	1000	8350	8100	101	76	70-130	3	20	
Thallium, Dissolved	ug/L	ND	80	80	82.7	84.4	103	105	70-130	2	20	
Vanadium, Dissolved	ug/L	0.67	80	80	83.3	83.9	103	104	70-130	.8	20	
Zinc, Dissolved	ug/L	90.7	80	80	181	184	113	116	70-130	2	20	

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QUALITY CONTROL DATA

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

QC Batch: MPRP/24576 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: 200.8 Potentially Dissolved Metals
Associated Lab Samples: 60154287001, 60154287002, 60154287003, 60154287004, 60154287005, 60154287006, 60154287007, 60154287008, 60154287009, 60154287010, 60154287011, 60154287012, 60154287013

METHOD BLANK: 1266132 Matrix: Water
Associated Lab Samples: 60154287001, 60154287002, 60154287003, 60154287004, 60154287005, 60154287006, 60154287007, 60154287008, 60154287009, 60154287010, 60154287011, 60154287012, 60154287013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	50.0	10/14/13 13:17	
Antimony, Dissolved	ug/L	0.26J	1.0	10/10/13 21:07	
Arsenic, Dissolved	ug/L	ND	1.0	10/10/13 21:07	
Barium, Dissolved	ug/L	0.22J	1.0	10/10/13 21:07	
Beryllium, Dissolved	ug/L	ND	0.50	10/14/13 11:23	
Cadmium, Dissolved	ug/L	0.12J	0.50	10/10/13 21:07	
Chromium, Dissolved	ug/L	0.36J	1.0	10/10/13 21:07	
Cobalt, Dissolved	ug/L	0.22J	1.0	10/10/13 21:07	
Copper, Dissolved	ug/L	0.40J	1.0	10/10/13 21:07	
Iron, Dissolved	ug/L	ND	50.0	10/10/13 21:07	
Lead, Dissolved	ug/L	ND	1.0	10/10/13 21:07	
Manganese, Dissolved	ug/L	1.3	1.0	10/14/13 11:23	
Molybdenum, Dissolved	ug/L	ND	1.0	10/14/13 13:17	
Nickel, Dissolved	ug/L	0.37J	1.0	10/10/13 21:07	
Selenium, Dissolved	ug/L	ND	1.0	10/10/13 21:07	
Silver, Dissolved	ug/L	ND	0.50	10/10/13 21:07	
Thallium, Dissolved	ug/L	ND	1.0	10/10/13 21:07	
Vanadium, Dissolved	ug/L	0.19J	1.0	10/10/13 21:07	
Zinc, Dissolved	ug/L	1.9J	10.0	10/10/13 21:07	

LABORATORY CONTROL SAMPLE: 1266133

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	1000	975	97	85-115	
Antimony, Dissolved	ug/L	40	39.8	100	85-115	
Arsenic, Dissolved	ug/L	40	41.2	103	85-115	
Barium, Dissolved	ug/L	40	39.5	99	85-115	
Beryllium, Dissolved	ug/L	40	40.2	101	85-115	
Cadmium, Dissolved	ug/L	40	40.1	100	85-115	
Chromium, Dissolved	ug/L	40	40.8	102	85-115	
Cobalt, Dissolved	ug/L	40	40.4	101	85-115	
Copper, Dissolved	ug/L	40	41.1	103	85-115	
Iron, Dissolved	ug/L	1000	981	98	85-115	
Lead, Dissolved	ug/L	40	38.4	96	85-115	
Manganese, Dissolved	ug/L	40	40.8	102	85-115	
Molybdenum, Dissolved	ug/L	40	39.4	99	85-115	
Nickel, Dissolved	ug/L	40	40.8	102	85-115	
Selenium, Dissolved	ug/L	40	40.8	102	85-115	
Silver, Dissolved	ug/L	20	19.7	98	85-115	
Thallium, Dissolved	ug/L	40	36.4	91	85-115	

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QUALITY CONTROL DATA

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

LABORATORY CONTROL SAMPLE: 1266133

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vanadium, Dissolved	ug/L	40	40.2	100	85-115	
Zinc, Dissolved	ug/L	100	107	107	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1266134 1266135

Parameter	Units	60154287010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	ug/L	16.9J	1000	1000	951	923	93	91	70-130	3	20	
Antimony, Dissolved	ug/L	0.39J	40	40	39.5	39.5	98	98	70-130	0	20	
Arsenic, Dissolved	ug/L	0.26J	40	40	42.1	42.1	105	105	70-130	0	20	
Barium, Dissolved	ug/L	18.2	40	40	58.6	57.7	101	99	70-130	2	20	
Beryllium, Dissolved	ug/L	0.053J	40	40	34.4	34.4	86	86	70-130	0	20	
Cadmium, Dissolved	ug/L	8.4	40	40	47.0	46.6	97	96	70-130	1	20	
Chromium, Dissolved	ug/L	0.51J	40	40	40.9	40.2	101	99	70-130	2	20	
Cobalt, Dissolved	ug/L	1.1	40	40	40.4	39.6	98	96	70-130	2	20	
Copper, Dissolved	ug/L	3.8	40	40	40.5	40.0	92	91	70-130	1	20	
Iron, Dissolved	ug/L	330	1000	1000	1300	1290	97	96	70-130	1	20	
Lead, Dissolved	ug/L	0.55J	40	40	41.9	41.2	103	102	70-130	2	20	
Manganese, Dissolved	ug/L	1150	40	40	1220	1180	185	92	70-130	3	20	M1
Molybdenum, Dissolved	ug/L	12.1	40	40	56.5	55.2	111	108	70-130	2	20	
Nickel, Dissolved	ug/L	1.8	40	40	39.6	39.4	95	94	70-130	1	20	
Selenium, Dissolved	ug/L	0.42J	40	40	40.4	40.3	100	100	70-130	0	20	
Silver, Dissolved	ug/L	ND	20	20	18.3	18.0	91	90	70-130	2	20	
Thallium, Dissolved	ug/L	0.041J	40	40	39.7	38.8	99	97	70-130	2	20	
Vanadium, Dissolved	ug/L	0.22J	40	40	41.3	40.6	103	101	70-130	2	20	
Zinc, Dissolved	ug/L	1560	100	100	1660	1660	100	99	70-130	0	20	

MATRIX SPIKE SAMPLE: 1266136

Parameter	Units	60154287012 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	6040	1000	6860	82	70-130	
Antimony, Dissolved	ug/L	0.41J	40	38.4	95	70-130	
Arsenic, Dissolved	ug/L	64.9	40	107	106	70-130	
Barium, Dissolved	ug/L	30.7	40	70.6	100	70-130	
Beryllium, Dissolved	ug/L	1.1	40	32.4	78	70-130	
Cadmium, Dissolved	ug/L	6.8	40	44.0	93	70-130	
Chromium, Dissolved	ug/L	5.0	40	44.5	99	70-130	
Cobalt, Dissolved	ug/L	7.8	40	46.3	96	70-130	
Copper, Dissolved	ug/L	34.8	40	71.2	91	70-130	
Iron, Dissolved	ug/L	53700	1000	54900	122	70-130	
Lead, Dissolved	ug/L	117	40	158	104	70-130	
Manganese, Dissolved	ug/L	7270	40	7380	275	70-130	M1
Molybdenum, Dissolved	ug/L	3.2	40	46.7	109	70-130	
Nickel, Dissolved	ug/L	11.0	40	48.1	93	70-130	
Selenium, Dissolved	ug/L	9.6	40	49.8	101	70-130	

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QUALITY CONTROL DATA

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

MATRIX SPIKE SAMPLE: 1266136

Parameter	Units	60154287012 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Silver, Dissolved	ug/L	ND	20	17.8	89	70-130	
Thallium, Dissolved	ug/L	0.24J	40	38.2	95	70-130	
Vanadium, Dissolved	ug/L	5.9	40	46.1	100	70-130	
Zinc, Dissolved	ug/L	2180	100	2280	102	70-130	

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QUALITY CONTROL DATA

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

QC Batch: MT/13965 Analysis Method: SM 2510B
QC Batch Method: SM 2510B Analysis Description: 2510B Specific Conductance
Associated Lab Samples: 60154287001, 60154287002, 60154287003, 60154287004, 60154287005, 60154287006

METHOD BLANK: 1546471 Matrix: Water
Associated Lab Samples: 60154287001, 60154287002, 60154287003, 60154287004, 60154287005, 60154287006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Specific Conductance	umhos/cm	ND	10.0	10/08/13 09:20	

LABORATORY CONTROL SAMPLE: 1546472

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Specific Conductance	umhos/cm	1000	1000	100	90-110	

SAMPLE DUPLICATE: 1546473

Parameter	Units	10243779019 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Conductance	umhos/cm	612	632	3	20	

SAMPLE DUPLICATE: 1546474

Parameter	Units	10243779028 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Conductance	umhos/cm	3580	3630	2	20	

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QUALITY CONTROL DATA

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

QC Batch: MT/13981 Analysis Method: SM 2510B
QC Batch Method: SM 2510B Analysis Description: 2510B Specific Conductance
Associated Lab Samples: 60154287007, 60154287008, 60154287009, 60154287010, 60154287011, 60154287012, 60154287013

METHOD BLANK: 1547715 Matrix: Water
Associated Lab Samples: 60154287007, 60154287008, 60154287009, 60154287010, 60154287011, 60154287012, 60154287013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Specific Conductance	umhos/cm	ND	10.0	10/09/13 10:57	

LABORATORY CONTROL SAMPLE: 1547716

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Specific Conductance	umhos/cm	1000	942	94	90-110	

SAMPLE DUPLICATE: 1547717

Parameter	Units	60154287007 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Conductance	umhos/cm	1100	1120	1	20	

SAMPLE DUPLICATE: 1547718

Parameter	Units	60154491003 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Conductance	umhos/cm	272	289	6	20	

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QUALITY CONTROL DATA

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

QC Batch: WET/43800 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 60154287001, 60154287002, 60154287003, 60154287004, 60154287005, 60154287006, 60154287007, 60154287008, 60154287009, 60154287010, 60154287011, 60154287012, 60154287013

METHOD BLANK: 1265612 Matrix: Water
Associated Lab Samples: 60154287001, 60154287002, 60154287003, 60154287004, 60154287005, 60154287006, 60154287007, 60154287008, 60154287009, 60154287010, 60154287011, 60154287012, 60154287013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	20.0	10/04/13 10:12	
Alkalinity, Total as CaCO3	mg/L	ND	20.0	10/04/13 10:12	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	20.0	10/04/13 10:12	

LABORATORY CONTROL SAMPLE: 1265613

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	501	100	90-110	

SAMPLE DUPLICATE: 1265616

Parameter	Units	60154340014 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	ND		10	
Alkalinity, Total as CaCO3	mg/L	560	565	1	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	560	565	1	10	

SAMPLE DUPLICATE: 1265617

Parameter	Units	60154287007 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	ND		10	
Alkalinity, Total as CaCO3	mg/L	81.9	82.5	1	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	81.9	82.5	1	10	

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QUALITY CONTROL DATA

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

QC Batch: WET/43780 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 60154287001, 60154287002, 60154287003, 60154287004, 60154287005, 60154287006, 60154287007, 60154287008, 60154287009, 60154287010, 60154287011, 60154287012, 60154287013

METHOD BLANK: 1264795 Matrix: Water
Associated Lab Samples: 60154287001, 60154287002, 60154287003, 60154287004, 60154287005, 60154287006, 60154287007, 60154287008, 60154287009, 60154287010, 60154287011, 60154287012, 60154287013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	10/03/13 11:10	

LABORATORY CONTROL SAMPLE: 1264796

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	1000	100	80-120	

SAMPLE DUPLICATE: 1264797

Parameter	Units	60154287005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1060	1080	1	17	

SAMPLE DUPLICATE: 1264798

Parameter	Units	60154287009 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1170	1190	1	17	

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QUALITY CONTROL DATA

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

QC Batch: WET/43782 Analysis Method: SM 2540D
QC Batch Method: SM 2540D Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 60154287005, 60154287006, 60154287007, 60154287008

METHOD BLANK: 1264805 Matrix: Water
Associated Lab Samples: 60154287005, 60154287006, 60154287007, 60154287008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	10/03/13 10:59	

SAMPLE DUPLICATE: 1264806

Parameter	Units	60154201001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	22.0	20.0	10	25	

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QUALITY CONTROL DATA

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

QC Batch: WET/43804 Analysis Method: SM 2540D
QC Batch Method: SM 2540D Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 60154287001, 60154287002, 60154287003, 60154287004, 60154287009, 60154287010, 60154287011, 60154287012, 60154287013

METHOD BLANK: 1265718 Matrix: Water
Associated Lab Samples: 60154287001, 60154287002, 60154287003, 60154287004, 60154287009, 60154287010, 60154287011, 60154287012, 60154287013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	10/04/13 10:47	

SAMPLE DUPLICATE: 1265719

Parameter	Units	60154217001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	2740	3040	10	25	

SAMPLE DUPLICATE: 1265720

Parameter	Units	60154287009 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	12.0	14.0	15	25	

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QUALITY CONTROL DATA

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

QC Batch: WET/43785 Analysis Method: SM 4500-S-2 D
QC Batch Method: SM 4500-S-2 D Analysis Description: 4500S2D Sulfide, Total
Associated Lab Samples: 60154287005, 60154287006, 60154287007, 60154287008

METHOD BLANK: 1264858 Matrix: Water
Associated Lab Samples: 60154287005, 60154287006, 60154287007, 60154287008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.050	10/03/13 12:39	

LABORATORY CONTROL SAMPLE: 1264859

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	.5	0.49	99	80-120	

MATRIX SPIKE SAMPLE: 1264860

Parameter	Units	60154109002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	ND	.5	0.28	54	75-125	M1

SAMPLE DUPLICATE: 1264861

Parameter	Units	60154150001 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

QC Batch: WET/43801 Analysis Method: SM 4500-S-2 D
QC Batch Method: SM 4500-S-2 D Analysis Description: 4500S2D Sulfide, Total
Associated Lab Samples: 60154287001, 60154287002, 60154287003, 60154287004, 60154287009, 60154287010, 60154287011, 60154287012, 60154287013

METHOD BLANK: 1265622 Matrix: Water
Associated Lab Samples: 60154287001, 60154287002, 60154287003, 60154287004, 60154287009, 60154287010, 60154287011, 60154287012, 60154287013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.050	10/04/13 14:42	

LABORATORY CONTROL SAMPLE: 1265623

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	.5	0.47	94	80-120	

MATRIX SPIKE SAMPLE: 1265624

Parameter	Units	60154244003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	ND	.5	0.16	32	75-125	M1

SAMPLE DUPLICATE: 1265625

Parameter	Units	60154244006 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

QC Batch: WETA/26570 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60154287001, 60154287002, 60154287003, 60154287005

METHOD BLANK: 1270868 Matrix: Water
Associated Lab Samples: 60154287001, 60154287002, 60154287003, 60154287005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	10/11/13 09:01	
Sulfate	mg/L	ND	1.0	10/11/13 09:01	

LABORATORY CONTROL SAMPLE: 1270869

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.9	97	90-110	
Sulfate	mg/L	5	4.9	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1268416 1268417

Parameter	Units	60154287001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1.0	5	5	5.4	5.4	88	88	80-120	1	15	
Sulfate	mg/L	586	250	250	810	815	90	92	80-120	1	15	

MATRIX SPIKE SAMPLE: 1268418

Parameter	Units	60154287002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.6	5	6.0	89	80-120	
Sulfate	mg/L	784	250	901	47	80-120	M1

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QUALITY CONTROL DATA

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

QC Batch: WETA/26612 | Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 | Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60154287007, 60154287008, 60154287009, 60154287010, 60154287012, 60154287013

METHOD BLANK: 1269779 | Matrix: Water
Associated Lab Samples: 60154287007, 60154287008, 60154287009, 60154287010, 60154287012, 60154287013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	10/11/13 09:00	
Sulfate	mg/L	ND	1.0	10/11/13 09:00	

LABORATORY CONTROL SAMPLE: 1269780

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.8	97	90-110	
Sulfate	mg/L	5	5.0	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1269781 1269782

Parameter	Units	60154218002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	109	100	100	205	202	96	92	80-120	2	15	
Sulfate	mg/L	155	100	100	296	285	141	131	80-120	4	15	M1

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QUALITY CONTROL DATA

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

QC Batch: WETA/26618 | Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 | Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60154287004, 60154287006, 60154287011

METHOD BLANK: 1270112 | Matrix: Water
Associated Lab Samples: 60154287004, 60154287006, 60154287011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	10/12/13 11:26	
Sulfate	mg/L	ND	1.0	10/12/13 11:26	

LABORATORY CONTROL SAMPLE: 1270113

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.8	97	90-110	
Sulfate	mg/L	5	4.9	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1270114 1270115

Parameter	Units	60154310001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	105	100	100	204	198	99	94	80-120	3	15	
Sulfate	mg/L	224	100	100	339	326	115	102	80-120	4	15	

MATRIX SPIKE SAMPLE: 1270116

Parameter	Units	60154424001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	233	100	346	112	80-120	
Sulfate	mg/L	110	100	214	105	80-120	

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QUALITY CONTROL DATA

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

QC Batch: WETA/26511 | Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 | Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 60154287001, 60154287002, 60154287003, 60154287004, 60154287005, 60154287006, 60154287007, 60154287008, 60154287009, 60154287010, 60154287011, 60154287012, 60154287013

METHOD BLANK: 1266988 | Matrix: Water
Associated Lab Samples: 60154287001, 60154287002, 60154287003, 60154287004, 60154287005, 60154287006, 60154287007, 60154287008, 60154287009, 60154287010, 60154287011, 60154287012, 60154287013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	0.10	10/07/13 15:19	

LABORATORY CONTROL SAMPLE: 1266989

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2	2.1	105	90-110	

MATRIX SPIKE SAMPLE: 1266990

Parameter	Units	60154287005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.22	2	2.3	102	90-110	

MATRIX SPIKE SAMPLE: 1266991

Parameter	Units	60154287006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	2	1.9	90	90-110	

SAMPLE DUPLICATE: 1266992

Parameter	Units	60154287007 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

QC Batch: WETA/26445 | Analysis Method: SM 4500-CN-E
QC Batch Method: SM 4500-CN-E | Analysis Description: 4500CNE Cyanide, Total
Associated Lab Samples: 60154287001, 60154287002, 60154287003, 60154287004, 60154287005, 60154287006, 60154287007, 60154287008, 60154287009, 60154287010, 60154287011, 60154287012, 60154287013

METHOD BLANK: 1263921 | Matrix: Water
Associated Lab Samples: 60154287001, 60154287002, 60154287003, 60154287004, 60154287005, 60154287006, 60154287007, 60154287008, 60154287009, 60154287010, 60154287011, 60154287012, 60154287013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	mg/L	ND	0.0050	10/02/13 15:59	

LABORATORY CONTROL SAMPLE: 1263922

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	.1	0.099	99	69-126	

MATRIX SPIKE SAMPLE: 1263923

Parameter	Units	60154287001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	ND	.1	0.11	107	41-136	

SAMPLE DUPLICATE: 1263924

Parameter	Units	60154287003 Result	Dup Result	RPD	Max RPD	Qualifiers
Cyanide	mg/L	ND	ND		26	

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QUALITY CONTROL DATA

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

QC Batch: WETA/19968 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 60154287001, 60154287002, 60154287003, 60154287004, 60154287005, 60154287006, 60154287007, 60154287008, 60154287009, 60154287010, 60154287011, 60154287012, 60154287013

METHOD BLANK: 872247 Matrix: Water
Associated Lab Samples: 60154287001, 60154287002, 60154287003, 60154287004, 60154287005, 60154287006, 60154287007, 60154287008, 60154287009, 60154287010, 60154287011, 60154287012, 60154287013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	0.50	10/10/13 13:19	

LABORATORY CONTROL SAMPLE: 872248

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	2.5	2.5	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 872249 872250

Parameter	Units	4085883001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	11.0	15	15	27.8	27.9	112	113	80-120	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 872251 872252

Parameter	Units	60154287001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	ND	2.5	2.5	3.0	3.1	106	110	80-120	3	20	

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QUALIFIERS

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

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.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay
PASI-K	Pace Analytical Services - Kansas City
PASI-M	Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60154287001	**MW-4DEEP_20130927**	EPA 200.7	MPRP/24575	EPA 200.7	ICP/19118
60154287002	**MW-101_20130927**	EPA 200.7	MPRP/24575	EPA 200.7	ICP/19118
60154287003	**MW-102_20130927**	EPA 200.7	MPRP/24575	EPA 200.7	ICP/19118
60154287004	**MW-6 DEEP_20130927**	EPA 200.7	MPRP/24575	EPA 200.7	ICP/19118
60154287005	**CHV-101 S_20130926**	EPA 200.7	MPRP/24575	EPA 200.7	ICP/19118
60154287006	**AT-2_20130926**	EPA 200.7	MPRP/24575	EPA 200.7	ICP/19118
60154287007	**BAH-01_20130926**	EPA 200.7	MPRP/24575	EPA 200.7	ICP/19118
60154287008	**FB-FIELD_20130926**	EPA 200.7	MPRP/24575	EPA 200.7	ICP/19118
60154287009	**DR-6_20130927**	EPA 200.7	MPRP/24575	EPA 200.7	ICP/19118
60154287010	**DR-11_20130927**	EPA 200.7	MPRP/24575	EPA 200.7	ICP/19118
60154287011	**GW-7_20130927**	EPA 200.7	MPRP/24575	EPA 200.7	ICP/19118
60154287012	**MW-6 SHALLOW_20130927**	EPA 200.7	MPRP/24575	EPA 200.7	ICP/19118
60154287013	**GW-4_20130927**	EPA 200.7	MPRP/24575	EPA 200.7	ICP/19118
60154287001	**MW-4DEEP_20130927**	EPA 200.8	MPRP/42412	EPA 200.8	ICPM/18065
60154287002	**MW-101_20130927**	EPA 200.8	MPRP/42412	EPA 200.8	ICPM/18065
60154287003	**MW-102_20130927**	EPA 200.8	MPRP/42412	EPA 200.8	ICPM/18065
60154287004	**MW-6 DEEP_20130927**	EPA 200.8	MPRP/42412	EPA 200.8	ICPM/18065
60154287005	**CHV-101 S_20130926**	EPA 200.8	MPRP/42412	EPA 200.8	ICPM/18065
60154287006	**AT-2_20130926**	EPA 200.8	MPRP/42412	EPA 200.8	ICPM/18065
60154287007	**BAH-01_20130926**	EPA 200.8	MPRP/42412	EPA 200.8	ICPM/18065
60154287008	**FB-FIELD_20130926**	EPA 200.8	MPRP/42412	EPA 200.8	ICPM/18065
60154287009	**DR-6_20130927**	EPA 200.8	MPRP/42412	EPA 200.8	ICPM/18065
60154287010	**DR-11_20130927**	EPA 200.8	MPRP/42412	EPA 200.8	ICPM/18065
60154287011	**GW-7_20130927**	EPA 200.8	MPRP/42412	EPA 200.8	ICPM/18065
60154287012	**MW-6 SHALLOW_20130927**	EPA 200.8	MPRP/42412	EPA 200.8	ICPM/18065
60154287013	**GW-4_20130927**	EPA 200.8	MPRP/42412	EPA 200.8	ICPM/18065
60154287001	**MW-4DEEP_20130927**	EPA 200.8	MPRP/42413	EPA 200.8	ICPM/18066
60154287002	**MW-101_20130927**	EPA 200.8	MPRP/42413	EPA 200.8	ICPM/18066
60154287003	**MW-102_20130927**	EPA 200.8	MPRP/42413	EPA 200.8	ICPM/18066
60154287004	**MW-6 DEEP_20130927**	EPA 200.8	MPRP/42413	EPA 200.8	ICPM/18066
60154287005	**CHV-101 S_20130926**	EPA 200.8	MPRP/42413	EPA 200.8	ICPM/18066
60154287006	**AT-2_20130926**	EPA 200.8	MPRP/42413	EPA 200.8	ICPM/18066
60154287007	**BAH-01_20130926**	EPA 200.8	MPRP/42413	EPA 200.8	ICPM/18066
60154287008	**FB-FIELD_20130926**	EPA 200.8	MPRP/42413	EPA 200.8	ICPM/18066
60154287009	**DR-6_20130927**	EPA 200.8	MPRP/42413	EPA 200.8	ICPM/18066
60154287010	**DR-11_20130927**	EPA 200.8	MPRP/42413	EPA 200.8	ICPM/18066
60154287011	**GW-7_20130927**	EPA 200.8	MPRP/42413	EPA 200.8	ICPM/18066
60154287012	**MW-6 SHALLOW_20130927**	EPA 200.8	MPRP/42413	EPA 200.8	ICPM/18066
60154287013	**GW-4_20130927**	EPA 200.8	MPRP/42413	EPA 200.8	ICPM/18066
60154287001	**MW-4DEEP_20130927**	EPA 200.8	MPRP/24576	EPA 200.8	ICPM/2550
60154287002	**MW-101_20130927**	EPA 200.8	MPRP/24576	EPA 200.8	ICPM/2550
60154287003	**MW-102_20130927**	EPA 200.8	MPRP/24576	EPA 200.8	ICPM/2550
60154287004	**MW-6 DEEP_20130927**	EPA 200.8	MPRP/24576	EPA 200.8	ICPM/2550
60154287005	**CHV-101 S_20130926**	EPA 200.8	MPRP/24576	EPA 200.8	ICPM/2550
60154287006	**AT-2_20130926**	EPA 200.8	MPRP/24576	EPA 200.8	ICPM/2550
60154287007	**BAH-01_20130926**	EPA 200.8	MPRP/24576	EPA 200.8	ICPM/2550
60154287008	**FB-FIELD_20130926**	EPA 200.8	MPRP/24576	EPA 200.8	ICPM/2550

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60154287009	**DR-6_20130927**	EPA 200.8	MPRP/24576	EPA 200.8	ICPM/2550
60154287010	**DR-11_20130927**	EPA 200.8	MPRP/24576	EPA 200.8	ICPM/2550
60154287011	**GW-7_20130927**	EPA 200.8	MPRP/24576	EPA 200.8	ICPM/2550
60154287012	**MW-6 SHALLOW_20130927**	EPA 200.8	MPRP/24576	EPA 200.8	ICPM/2550
60154287013	**GW-4_20130927**	EPA 200.8	MPRP/24576	EPA 200.8	ICPM/2550
60154287001	**MW-4DEEP_20130927**	EPA 245.1	MERP/9443	EPA 245.1	MERC/10821
60154287002	**MW-101_20130927**	EPA 245.1	MERP/9443	EPA 245.1	MERC/10821
60154287003	**MW-102_20130927**	EPA 245.1	MERP/9443	EPA 245.1	MERC/10821
60154287004	**MW-6 DEEP_20130927**	EPA 245.1	MERP/9443	EPA 245.1	MERC/10821
60154287005	**CHV-101 S_20130926**	EPA 245.1	MERP/9443	EPA 245.1	MERC/10821
60154287006	**AT-2_20130926**	EPA 245.1	MERP/9443	EPA 245.1	MERC/10821
60154287007	**BAH-01_20130926**	EPA 245.1	MERP/9443	EPA 245.1	MERC/10821
60154287008	**FB-FIELD_20130926**	EPA 245.1	MERP/9443	EPA 245.1	MERC/10821
60154287009	**DR-6_20130927**	EPA 245.1	MERP/9443	EPA 245.1	MERC/10821
60154287010	**DR-11_20130927**	EPA 245.1	MERP/9443	EPA 245.1	MERC/10821
60154287011	**GW-7_20130927**	EPA 245.1	MERP/9443	EPA 245.1	MERC/10821
60154287012	**MW-6 SHALLOW_20130927**	EPA 245.1	MERP/9443	EPA 245.1	MERC/10821
60154287013	**GW-4_20130927**	EPA 245.1	MERP/9443	EPA 245.1	MERC/10821
60154287001	**MW-4DEEP_20130927**	EPA 245.1	MERP/9444	EPA 245.1	MERC/10827
60154287002	**MW-101_20130927**	EPA 245.1	MERP/9444	EPA 245.1	MERC/10827
60154287003	**MW-102_20130927**	EPA 245.1	MERP/9444	EPA 245.1	MERC/10827
60154287004	**MW-6 DEEP_20130927**	EPA 245.1	MERP/9444	EPA 245.1	MERC/10827
60154287005	**CHV-101 S_20130926**	EPA 245.1	MERP/9444	EPA 245.1	MERC/10827
60154287006	**AT-2_20130926**	EPA 245.1	MERP/9444	EPA 245.1	MERC/10827
60154287007	**BAH-01_20130926**	EPA 245.1	MERP/9444	EPA 245.1	MERC/10827
60154287008	**FB-FIELD_20130926**	EPA 245.1	MERP/9444	EPA 245.1	MERC/10827
60154287009	**DR-6_20130927**	EPA 245.1	MERP/9444	EPA 245.1	MERC/10827
60154287010	**DR-11_20130927**	EPA 245.1	MERP/9444	EPA 245.1	MERC/10827
60154287011	**GW-7_20130927**	EPA 245.1	MERP/9444	EPA 245.1	MERC/10827
60154287012	**MW-6 SHALLOW_20130927**	EPA 245.1	MERP/9444	EPA 245.1	MERC/10827
60154287013	**GW-4_20130927**	EPA 245.1	MERP/9444	EPA 245.1	MERC/10827
60154287001	**MW-4DEEP_20130927**	EPA 245.1	MERP/7782	EPA 245.1	MERC/7733
60154287002	**MW-101_20130927**	EPA 245.1	MERP/7782	EPA 245.1	MERC/7733
60154287003	**MW-102_20130927**	EPA 245.1	MERP/7782	EPA 245.1	MERC/7733
60154287004	**MW-6 DEEP_20130927**	EPA 245.1	MERP/7782	EPA 245.1	MERC/7733
60154287005	**CHV-101 S_20130926**	EPA 245.1	MERP/7782	EPA 245.1	MERC/7733
60154287006	**AT-2_20130926**	EPA 245.1	MERP/7782	EPA 245.1	MERC/7733
60154287007	**BAH-01_20130926**	EPA 245.1	MERP/7782	EPA 245.1	MERC/7733
60154287008	**FB-FIELD_20130926**	EPA 245.1	MERP/7782	EPA 245.1	MERC/7733
60154287009	**DR-6_20130927**	EPA 245.1	MERP/7782	EPA 245.1	MERC/7733
60154287010	**DR-11_20130927**	EPA 245.1	MERP/7782	EPA 245.1	MERC/7733
60154287011	**GW-7_20130927**	EPA 245.1	MERP/7782	EPA 245.1	MERC/7733
60154287012	**MW-6 SHALLOW_20130927**	EPA 245.1	MERP/7782	EPA 245.1	MERC/7733
60154287013	**GW-4_20130927**	EPA 245.1	MERP/7782	EPA 245.1	MERC/7733
60154287001	**MW-4DEEP_20130927**	SM 2510B	MT/13965		
60154287002	**MW-101_20130927**	SM 2510B	MT/13965		
60154287003	**MW-102_20130927**	SM 2510B	MT/13965		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60154287004	**MW-6 DEEP_20130927**	SM 2510B	MT/13965		
60154287005	**CHV-101 S_20130926**	SM 2510B	MT/13965		
60154287006	**AT-2_20130926**	SM 2510B	MT/13965		
60154287007	**BAH-01_20130926**	SM 2510B	MT/13981		
60154287008	**FB-FIELD_20130926**	SM 2510B	MT/13981		
60154287009	**DR-6_20130927**	SM 2510B	MT/13981		
60154287010	**DR-11_20130927**	SM 2510B	MT/13981		
60154287011	**GW-7_20130927**	SM 2510B	MT/13981		
60154287012	**MW-6 SHALLOW_20130927**	SM 2510B	MT/13981		
60154287013	**GW-4_20130927**	SM 2510B	MT/13981		
60154287001	**MW-4DEEP_20130927**	Calculated	MT/13989		
60154287002	**MW-101_20130927**	Calculated	MT/13989		
60154287003	**MW-102_20130927**	Calculated	MT/13989		
60154287004	**MW-6 DEEP_20130927**	Calculated	MT/13989		
60154287005	**CHV-101 S_20130926**	Calculated	MT/13989		
60154287006	**AT-2_20130926**	Calculated	MT/13989		
60154287007	**BAH-01_20130926**	Calculated	MT/13989		
60154287008	**FB-FIELD_20130926**	Calculated	MT/13989		
60154287009	**DR-6_20130927**	Calculated	MT/13989		
60154287010	**DR-11_20130927**	Calculated	MT/13989		
60154287011	**GW-7_20130927**	Calculated	MT/13989		
60154287012	**MW-6 SHALLOW_20130927**	Calculated	MT/13989		
60154287013	**GW-4_20130927**	Calculated	MT/13989		
60154287001	**MW-4DEEP_20130927**	SM 2320B	WET/43800		
60154287002	**MW-101_20130927**	SM 2320B	WET/43800		
60154287003	**MW-102_20130927**	SM 2320B	WET/43800		
60154287004	**MW-6 DEEP_20130927**	SM 2320B	WET/43800		
60154287005	**CHV-101 S_20130926**	SM 2320B	WET/43800		
60154287006	**AT-2_20130926**	SM 2320B	WET/43800		
60154287007	**BAH-01_20130926**	SM 2320B	WET/43800		
60154287008	**FB-FIELD_20130926**	SM 2320B	WET/43800		
60154287009	**DR-6_20130927**	SM 2320B	WET/43800		
60154287010	**DR-11_20130927**	SM 2320B	WET/43800		
60154287011	**GW-7_20130927**	SM 2320B	WET/43800		
60154287012	**MW-6 SHALLOW_20130927**	SM 2320B	WET/43800		
60154287013	**GW-4_20130927**	SM 2320B	WET/43800		
60154287001	**MW-4DEEP_20130927**	SM 2540C	WET/43780		
60154287002	**MW-101_20130927**	SM 2540C	WET/43780		
60154287003	**MW-102_20130927**	SM 2540C	WET/43780		
60154287004	**MW-6 DEEP_20130927**	SM 2540C	WET/43780		
60154287005	**CHV-101 S_20130926**	SM 2540C	WET/43780		
60154287006	**AT-2_20130926**	SM 2540C	WET/43780		
60154287007	**BAH-01_20130926**	SM 2540C	WET/43780		
60154287008	**FB-FIELD_20130926**	SM 2540C	WET/43780		
60154287009	**DR-6_20130927**	SM 2540C	WET/43780		
60154287010	**DR-11_20130927**	SM 2540C	WET/43780		
60154287011	**GW-7_20130927**	SM 2540C	WET/43780		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60154287012	**MW-6 SHALLOW_20130927**	SM 2540C	WET/43780		
60154287013	**GW-4_20130927**	SM 2540C	WET/43780		
60154287001	**MW-4DEEP_20130927**	SM 2540D	WET/43804		
60154287002	**MW-101_20130927**	SM 2540D	WET/43804		
60154287003	**MW-102_20130927**	SM 2540D	WET/43804		
60154287004	**MW-6 DEEP_20130927**	SM 2540D	WET/43804		
60154287005	**CHV-101 S_20130926**	SM 2540D	WET/43782		
60154287006	**AT-2_20130926**	SM 2540D	WET/43782		
60154287007	**BAH-01_20130926**	SM 2540D	WET/43782		
60154287008	**FB-FIELD_20130926**	SM 2540D	WET/43782		
60154287009	**DR-6_20130927**	SM 2540D	WET/43804		
60154287010	**DR-11_20130927**	SM 2540D	WET/43804		
60154287011	**GW-7_20130927**	SM 2540D	WET/43804		
60154287012	**MW-6 SHALLOW_20130927**	SM 2540D	WET/43804		
60154287013	**GW-4_20130927**	SM 2540D	WET/43804		
60154287001	**MW-4DEEP_20130927**	SM 4500-S-2 D	WET/43801		
60154287002	**MW-101_20130927**	SM 4500-S-2 D	WET/43801		
60154287003	**MW-102_20130927**	SM 4500-S-2 D	WET/43801		
60154287004	**MW-6 DEEP_20130927**	SM 4500-S-2 D	WET/43801		
60154287005	**CHV-101 S_20130926**	SM 4500-S-2 D	WET/43785		
60154287006	**AT-2_20130926**	SM 4500-S-2 D	WET/43785		
60154287007	**BAH-01_20130926**	SM 4500-S-2 D	WET/43785		
60154287008	**FB-FIELD_20130926**	SM 4500-S-2 D	WET/43785		
60154287009	**DR-6_20130927**	SM 4500-S-2 D	WET/43801		
60154287010	**DR-11_20130927**	SM 4500-S-2 D	WET/43801		
60154287011	**GW-7_20130927**	SM 4500-S-2 D	WET/43801		
60154287012	**MW-6 SHALLOW_20130927**	SM 4500-S-2 D	WET/43801		
60154287013	**GW-4_20130927**	SM 4500-S-2 D	WET/43801		
60154287001	**MW-4DEEP_20130927**	EPA 300.0	WETA/26570		
60154287002	**MW-101_20130927**	EPA 300.0	WETA/26570		
60154287003	**MW-102_20130927**	EPA 300.0	WETA/26570		
60154287004	**MW-6 DEEP_20130927**	EPA 300.0	WETA/26618		
60154287005	**CHV-101 S_20130926**	EPA 300.0	WETA/26570		
60154287006	**AT-2_20130926**	EPA 300.0	WETA/26618		
60154287007	**BAH-01_20130926**	EPA 300.0	WETA/26612		
60154287008	**FB-FIELD_20130926**	EPA 300.0	WETA/26612		
60154287009	**DR-6_20130927**	EPA 300.0	WETA/26612		
60154287010	**DR-11_20130927**	EPA 300.0	WETA/26612		
60154287011	**GW-7_20130927**	EPA 300.0	WETA/26618		
60154287012	**MW-6 SHALLOW_20130927**	EPA 300.0	WETA/26612		
60154287013	**GW-4_20130927**	EPA 300.0	WETA/26612		
60154287001	**MW-4DEEP_20130927**	EPA 353.2	WETA/26511		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: September 2013 Rico Water Samp
Pace Project No.: 60154287

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60154287002	**MW-101_20130927**	EPA 353.2	WETA/26511		
60154287003	**MW-102_20130927**	EPA 353.2	WETA/26511		
60154287004	**MW-6 DEEP_20130927**	EPA 353.2	WETA/26511		
60154287005	**CHV-101 S_20130926**	EPA 353.2	WETA/26511		
60154287006	**AT-2_20130926**	EPA 353.2	WETA/26511		
60154287007	**BAH-01_20130926**	EPA 353.2	WETA/26511		
60154287008	**FB-FIELD_20130926**	EPA 353.2	WETA/26511		
60154287009	**DR-6_20130927**	EPA 353.2	WETA/26511		
60154287010	**DR-11_20130927**	EPA 353.2	WETA/26511		
60154287011	**GW-7_20130927**	EPA 353.2	WETA/26511		
60154287012	**MW-6 SHALLOW_20130927**	EPA 353.2	WETA/26511		
60154287013	**GW-4_20130927**	EPA 353.2	WETA/26511		
60154287001	**MW-4DEEP_20130927**	SM 4500-CN-E	WETA/26445		
60154287002	**MW-101_20130927**	SM 4500-CN-E	WETA/26445		
60154287003	**MW-102_20130927**	SM 4500-CN-E	WETA/26445		
60154287004	**MW-6 DEEP_20130927**	SM 4500-CN-E	WETA/26445		
60154287005	**CHV-101 S_20130926**	SM 4500-CN-E	WETA/26445		
60154287006	**AT-2_20130926**	SM 4500-CN-E	WETA/26445		
60154287007	**BAH-01_20130926**	SM 4500-CN-E	WETA/26445		
60154287008	**FB-FIELD_20130926**	SM 4500-CN-E	WETA/26445		
60154287009	**DR-6_20130927**	SM 4500-CN-E	WETA/26445		
60154287010	**DR-11_20130927**	SM 4500-CN-E	WETA/26445		
60154287011	**GW-7_20130927**	SM 4500-CN-E	WETA/26445		
60154287012	**MW-6 SHALLOW_20130927**	SM 4500-CN-E	WETA/26445		
60154287013	**GW-4_20130927**	SM 4500-CN-E	WETA/26445		
60154287001	**MW-4DEEP_20130927**	SM 5310C	WETA/19968		
60154287002	**MW-101_20130927**	SM 5310C	WETA/19968		
60154287003	**MW-102_20130927**	SM 5310C	WETA/19968		
60154287004	**MW-6 DEEP_20130927**	SM 5310C	WETA/19968		
60154287005	**CHV-101 S_20130926**	SM 5310C	WETA/19968		
60154287006	**AT-2_20130926**	SM 5310C	WETA/19968		
60154287007	**BAH-01_20130926**	SM 5310C	WETA/19968		
60154287008	**FB-FIELD_20130926**	SM 5310C	WETA/19968		
60154287009	**DR-6_20130927**	SM 5310C	WETA/19968		
60154287010	**DR-11_20130927**	SM 5310C	WETA/19968		
60154287011	**GW-7_20130927**	SM 5310C	WETA/19968		
60154287012	**MW-6 SHALLOW_20130927**	SM 5310C	WETA/19968		
60154287013	**GW-4_20130927**	SM 5310C	WETA/19968		

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QUALITY CONTROL DATA

Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

QC Batch: MERP/9482 — Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 — Analysis Description: 245.1 Mercury
Associated Lab Samples: 60154491001, 60154491002, 60154491003, 60154491004, 60154491005, 60154491006, 60154491007, 60154491008

METHOD BLANK: 1547272 — Matrix: Water
Associated Lab Samples: 60154491001, 60154491002, 60154491003, 60154491004, 60154491005, 60154491006, 60154491007, 60154491008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	10/15/13 19:19	

LABORATORY CONTROL SAMPLE: 1547273

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.2	104	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1547274 1547275

Parameter	Units	60154491002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	5.2	5.2	103	103	85-115	0	20	

MATRIX SPIKE SAMPLE: 1547276

Parameter	Units	60154717023 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	5	5.2	103	85-115	

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QUALITY CONTROL DATA

Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

QC Batch: MERP/9480 — Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 — Analysis Description: 245.1 Mercury - Dissolved
Associated Lab Samples: 60154491001, 60154491002, 60154491003, 60154491004, 60154491005, 60154491006, 60154491007, 60154491008

METHOD BLANK: 1547258 — Matrix: Water
Associated Lab Samples: 60154491001, 60154491002, 60154491003, 60154491004, 60154491005, 60154491006, 60154491007, 60154491008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	10/15/13 20:03	

LABORATORY CONTROL SAMPLE: 1547259

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.4	107	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1547260 1547261

Parameter	Units	60154491002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	5	5	4.9	4.5	98	90	85-115	8	20	

MATRIX SPIKE SAMPLE: 1547262

Parameter	Units	60154717023 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	ND	5	5.0	99	85-115	

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QUALITY CONTROL DATA

Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

QC Batch: MERP/7822 — Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 — Analysis Description: 245.1 Mercury, Potentially Dissolved
Associated Lab Samples: 60154491001, 60154491002, 60154491003, 60154491004, 60154491005, 60154491006, 60154491007, 60154491008

METHOD BLANK: 1271995 — Matrix: Water
Associated Lab Samples: 60154491001, 60154491002, 60154491003, 60154491004, 60154491005, 60154491006, 60154491007, 60154491008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	10/15/13 11:37	

LABORATORY CONTROL SAMPLE: 1271996

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.5	109	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1271997 1271998

Parameter	Units	60154491001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	5	5	5.2	5.4	105	108	70-130	3	20	

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QUALITY CONTROL DATA

Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

QC Batch: MPRP/24735 | Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 | Analysis Description: 200.7 Potentially Dissolved Metals
Associated Lab Samples: 60154491001, 60154491002, 60154491003, 60154491004, 60154491005, 60154491006, 60154491007, 60154491008

METHOD BLANK: 1271850 | Matrix: Water
Associated Lab Samples: 60154491001, 60154491002, 60154491003, 60154491004, 60154491005, 60154491006, 60154491007, 60154491008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Calcium, Dissolved	ug/L	25.3J	100	10/15/13 16:06	
Magnesium, Dissolved	ug/L	ND	50.0	10/15/13 16:06	
Potassium, Dissolved	ug/L	ND	500	10/15/13 16:06	
Sodium, Dissolved	ug/L	ND	500	10/15/13 16:06	

LABORATORY CONTROL SAMPLE: 1271851

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium, Dissolved	ug/L	10000	10200	102	85-115	
Magnesium, Dissolved	ug/L	10000	10100	101	85-115	
Potassium, Dissolved	ug/L	10000	10200	102	85-115	
Sodium, Dissolved	ug/L	10000	10300	103	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1271852 1271853

Parameter	Units	60154491002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium, Dissolved	ug/L	29600	10000	10000	38400	38700	88	91	70-130	1	20	
Magnesium, Dissolved	ug/L	4310	10000	10000	13700	13900	94	96	70-130	2	20	
Potassium, Dissolved	ug/L	515	10000	10000	10100	10300	96	98	70-130	2	20	
Sodium, Dissolved	ug/L	1890	10000	10000	11500	11700	96	98	70-130	2	20	

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QUALITY CONTROL DATA

Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

QC Batch: MPRP/42529 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: 200.8 MET
Associated Lab Samples: 60154491001, 60154491002, 60154491003, 60154491004, 60154491005, 60154491006, 60154491007, 60154491008

METHOD BLANK: 1548040 Matrix: Water
Associated Lab Samples: 60154491001, 60154491002, 60154491003, 60154491004, 60154491005, 60154491006, 60154491007, 60154491008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	4.0	10/24/13 15:40	
Antimony	ug/L	ND	0.50	10/24/13 15:40	
Arsenic	ug/L	ND	0.50	10/24/13 15:40	
Barium	ug/L	ND	0.30	10/24/13 15:40	
Beryllium	ug/L	ND	0.20	10/24/13 15:40	
Cadmium	ug/L	ND	0.080	10/24/13 15:40	
Calcium	ug/L	ND	20.0	10/24/13 15:40	
Chromium	ug/L	ND	0.50	10/24/13 15:40	
Cobalt	ug/L	ND	0.50	10/24/13 15:40	
Copper	ug/L	ND	0.50	10/24/13 15:40	
Iron	ug/L	ND	50.0	10/24/13 15:40	
Lead	ug/L	ND	0.10	10/24/13 15:40	
Magnesium	ug/L	ND	5.0	10/24/13 15:40	
Manganese	ug/L	ND	0.50	10/24/13 15:40	
Molybdenum	ug/L	ND	0.50	10/24/13 15:40	
Nickel	ug/L	ND	0.50	10/24/13 15:40	
Potassium	ug/L	ND	20.0	10/24/13 15:40	
Selenium	ug/L	ND	0.50	10/24/13 15:40	
Silver	ug/L	ND	0.50	10/24/13 15:40	
Sodium	ug/L	ND	50.0	10/24/13 15:40	
Thallium	ug/L	ND	0.10	10/24/13 15:40	
Vanadium	ug/L	ND	0.10	10/24/13 15:40	
Zinc	ug/L	ND	5.0	10/24/13 15:40	

LABORATORY CONTROL SAMPLE: 1548041

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	80	80.6	101	85-115	
Antimony	ug/L	80	80.2	100	85-115	
Arsenic	ug/L	80	81.9	102	85-115	
Barium	ug/L	80	77.3	97	85-115	
Beryllium	ug/L	80	84.8	106	85-115	
Cadmium	ug/L	80	85.2	106	85-115	
Calcium	ug/L	1000	1060	106	85-115	
Chromium	ug/L	80	82.3	103	85-115	
Cobalt	ug/L	80	79.0	99	85-115	
Copper	ug/L	80	79.0	99	85-115	
Iron	ug/L	1000	998	100	85-115	
Lead	ug/L	80	80.6	101	85-115	
Magnesium	ug/L	1000	1030	103	85-115	

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QUALITY CONTROL DATA

Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

LABORATORY CONTROL SAMPLE: 1548041

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese	ug/L	80	80.0	100	85-115	
Molybdenum	ug/L	80	77.5	97	85-115	
Nickel	ug/L	80	81.3	102	85-115	
Potassium	ug/L	1000	1040	104	85-115	
Selenium	ug/L	80	84.3	105	85-115	
Silver	ug/L	80	82.0	103	85-115	
Sodium	ug/L	1000	1070	107	85-115	
Thallium	ug/L	80	83.0	104	85-115	
Vanadium	ug/L	80	78.5	98	85-115	
Zinc	ug/L	80	85.4	107	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1548042 1548043

Parameter	Units	60154491001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	146	80	80	306	356	200	262	70-130	15	20	M1
Antimony	ug/L	ND	80	80	81.4	79.0	102	99	70-130	3	20	
Arsenic	ug/L	ND	80	80	79.2	80.7	99	100	70-130	2	20	
Barium	ug/L	54.6	80	80	136	130	102	94	70-130	5	20	
Beryllium	ug/L	ND	80	80	82.6	82.6	103	103	70-130	.06	20	
Cadmium	ug/L	ND	80	80	81.6	81.1	102	101	70-130	.6	20	
Calcium	ug/L	27500	1000	1000	28700	28800	122	126	70-130	.1	20	
Chromium	ug/L	ND	80	80	81.6	81.0	102	101	70-130	.7	20	
Cobalt	ug/L	ND	80	80	77.0	77.2	96	96	70-130	.3	20	
Copper	ug/L	1.0	80	80	79.0	78.2	97	96	70-130	1	20	
Iron	ug/L	127	1000	1000	1120	1110	99	98	70-130	1	20	
Lead	ug/L	0.18	80	80	78.6	80.2	98	100	70-130	2	20	
Magnesium	ug/L	4480	1000	1000	5500	5440	101	96	70-130	.9	20	
Manganese	ug/L	10.9	80	80	88.3	88.9	97	98	70-130	.7	20	
Molybdenum	ug/L	0.65	80	80	79.8	76.8	99	95	70-130	4	20	
Nickel	ug/L	ND	80	80	80.9	78.8	101	98	70-130	3	20	
Potassium	ug/L	564	1000	1000	1630	1610	106	105	70-130	.8	20	
Selenium	ug/L	ND	80	80	78.4	76.6	98	95	70-130	2	20	
Silver	ug/L	ND	80	80	77.7	77.6	97	97	70-130	.2	20	
Sodium	ug/L	1990	1000	1000	3040	3040	105	105	70-130	.07	20	
Thallium	ug/L	ND	80	80	80.6	81.8	101	102	70-130	1	20	
Vanadium	ug/L	0.39	80	80	78.0	79.7	97	99	70-130	2	20	
Zinc	ug/L	ND	80	80	103	91.6	124	110	70-130	12	20	

MATRIX SPIKE SAMPLE: 1548044

Parameter	Units	60154717023 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	9760	80	14000	5330	70-130	M1
Antimony	ug/L	ND	80	59.4	74	70-130	
Arsenic	ug/L	11.7	80	91.5	100	70-130	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

MATRIX SPIKE SAMPLE: 1548044

Parameter	Units	60154717023 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	180	80	261	101	70-130	
Beryllium	ug/L	0.94	80	78.2	97	70-130	
Cadmium	ug/L	6.9	80	85.4	98	70-130	
Calcium	ug/L	302000	1000	302000	10	70-130	E,M1
Chromium	ug/L	16.3	80	96.4	100	70-130	
Cobalt	ug/L	6.3	80	84.2	97	70-130	
Copper	ug/L	77.4	80	154	95	70-130	
Iron	ug/L	28900	1000	28500	-42	70-130	M1
Lead	ug/L	785	80	930	181	70-130	M1
Magnesium	ug/L	39700	1000	41500	172	70-130	M1
Manganese	ug/L	952	80	978	32	70-130	M1
Molybdenum	ug/L	6.4	80	81.2	93	70-130	
Nickel	ug/L	14.1	80	93.4	99	70-130	
Potassium	ug/L	5530	1000	7300	177	70-130	M1
Selenium	ug/L	4.5	80	80.5	95	70-130	
Silver	ug/L	3.7	80	78.2	93	70-130	
Sodium	ug/L	9740	1000	10600	87	70-130	
Thallium	ug/L	0.46	80	78.0	97	70-130	
Vanadium	ug/L	15.6	80	95.1	99	70-130	
Zinc	ug/L	973	80	1090	149	70-130	M1

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QUALITY CONTROL DATA

Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

QC Batch: MPRP/42527 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: 200.8 MET Dissolved
Associated Lab Samples: 60154491001, 60154491002, 60154491003, 60154491004, 60154491005, 60154491006, 60154491007, 60154491008

METHOD BLANK: 1548030 Matrix: Water
Associated Lab Samples: 60154491001, 60154491002, 60154491003, 60154491004, 60154491005, 60154491006, 60154491007, 60154491008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	4.0	10/18/13 19:57	
Antimony, Dissolved	ug/L	ND	0.50	10/18/13 19:57	
Arsenic, Dissolved	ug/L	ND	0.50	10/18/13 19:57	
Barium, Dissolved	ug/L	ND	0.30	10/18/13 19:57	
Beryllium, Dissolved	ug/L	ND	0.20	10/18/13 19:57	
Cadmium, Dissolved	ug/L	ND	0.080	10/18/13 19:57	
Calcium, Dissolved	ug/L	ND	20.0	10/18/13 19:57	
Chromium, Dissolved	ug/L	ND	0.50	10/18/13 19:57	
Cobalt, Dissolved	ug/L	ND	0.50	10/18/13 19:57	
Copper, Dissolved	ug/L	ND	0.50	10/18/13 19:57	
Iron, Dissolved	ug/L	ND	50.0	10/18/13 19:57	
Lead, Dissolved	ug/L	ND	0.10	10/18/13 19:57	
Magnesium, Dissolved	ug/L	ND	5.0	10/18/13 19:57	
Manganese, Dissolved	ug/L	ND	0.50	10/18/13 19:57	
Molybdenum, Dissolved	ug/L	ND	0.50	10/18/13 19:57	
Nickel, Dissolved	ug/L	ND	0.50	10/18/13 19:57	
Potassium, Dissolved	ug/L	ND	20.0	10/18/13 19:57	
Selenium, Dissolved	ug/L	ND	0.50	10/18/13 19:57	
Silver, Dissolved	ug/L	ND	0.50	10/18/13 19:57	
Sodium, Dissolved	ug/L	ND	50.0	10/18/13 19:57	
Thallium, Dissolved	ug/L	ND	0.10	10/18/13 19:57	
Vanadium, Dissolved	ug/L	ND	0.10	10/18/13 19:57	
Zinc, Dissolved	ug/L	ND	5.0	10/18/13 19:57	

LABORATORY CONTROL SAMPLE: 1548031

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	80	81.1	101	85-115	
Antimony, Dissolved	ug/L	80	80.4	101	85-115	
Arsenic, Dissolved	ug/L	80	81.0	101	85-115	
Barium, Dissolved	ug/L	80	80.9	101	85-115	
Beryllium, Dissolved	ug/L	80	78.0	98	85-115	
Cadmium, Dissolved	ug/L	80	81.3	102	85-115	
Calcium, Dissolved	ug/L	1000	1000	100	85-115	
Chromium, Dissolved	ug/L	80	80.4	101	85-115	
Cobalt, Dissolved	ug/L	80	78.8	99	85-115	
Copper, Dissolved	ug/L	80	84.5	106	85-115	
Iron, Dissolved	ug/L	1000	1010	101	85-115	
Lead, Dissolved	ug/L	80	80.3	100	85-115	
Magnesium, Dissolved	ug/L	1000	1040	104	85-115	

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QUALITY CONTROL DATA

Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

LABORATORY CONTROL SAMPLE: 1548031

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese, Dissolved	ug/L	80	80.6	101	85-115	
Molybdenum, Dissolved	ug/L	80	79.6	100	85-115	
Nickel, Dissolved	ug/L	80	82.0	103	85-115	
Potassium, Dissolved	ug/L	1000	1010	101	85-115	
Selenium, Dissolved	ug/L	80	80.3	100	85-115	
Silver, Dissolved	ug/L	80	79.5	99	85-115	
Sodium, Dissolved	ug/L	1000	1010	101	85-115	
Thallium, Dissolved	ug/L	80	79.8	100	85-115	
Vanadium, Dissolved	ug/L	80	78.7	98	85-115	
Zinc, Dissolved	ug/L	80	81.8	102	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1548032 1548033

Parameter	Units	60154491001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	ug/L	25.2	80	80	109	173	105	185	70-130	45	20	M1,R1
Antimony, Dissolved	ug/L	ND	80	80	82.2	80.4	103	100	70-130	2	20	
Arsenic, Dissolved	ug/L	ND	80	80	83.0	82.4	103	103	70-130	.7	20	
Barium, Dissolved	ug/L	54.6	80	80	138	135	104	101	70-130	2	20	
Beryllium, Dissolved	ug/L	ND	80	80	76.9	77.3	96	97	70-130	.5	20	
Cadmium, Dissolved	ug/L	ND	80	80	81.9	81.0	102	101	70-130	1	20	
Calcium, Dissolved	ug/L	30300	1000	1000	31500	30900	122	64	70-130	2	20	M1
Chromium, Dissolved	ug/L	ND	80	80	82.1	80.4	102	100	70-130	2	20	
Cobalt, Dissolved	ug/L	ND	80	80	82.3	81.1	103	101	70-130	1	20	
Copper, Dissolved	ug/L	1.4	80	80	87.1	85.8	107	105	70-130	1	20	
Iron, Dissolved	ug/L	ND	1000	1000	1050	1030	103	101	70-130	2	20	
Lead, Dissolved	ug/L	ND	80	80	81.5	80.4	102	100	70-130	1	20	
Magnesium, Dissolved	ug/L	4420	1000	1000	5580	5590	116	116	70-130	.2	20	
Manganese, Dissolved	ug/L	11.0	80	80	94.1	92.2	104	101	70-130	2	20	
Molybdenum, Dissolved	ug/L	0.68	80	80	81.6	81.1	101	101	70-130	.6	20	
Nickel, Dissolved	ug/L	5.0	80	80	88.9	87.6	105	103	70-130	1	20	
Potassium, Dissolved	ug/L	555	1000	1000	1570	1570	102	101	70-130	.2	20	
Selenium, Dissolved	ug/L	ND	80	80	80.0	79.9	100	99	70-130	.2	20	
Silver, Dissolved	ug/L	ND	80	80	79.5	79.0	99	99	70-130	.7	20	
Sodium, Dissolved	ug/L	1910	1000	1000	2940	2910	103	100	70-130	.9	20	
Thallium, Dissolved	ug/L	ND	80	80	81.1	80.6	101	101	70-130	.5	20	
Vanadium, Dissolved	ug/L	0.17	80	80	82.3	80.8	103	101	70-130	2	20	
Zinc, Dissolved	ug/L	15.8	80	80	85.4	85.5	87	87	70-130	.09	20	

MATRIX SPIKE SAMPLE: 1548034

Parameter	Units	60154717023 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	118	80	221	128	70-130	
Antimony, Dissolved	ug/L	ND	80	81.0	101	70-130	
Arsenic, Dissolved	ug/L	ND	80	85.2	106	70-130	

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QUALITY CONTROL DATA

Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

MATRIX SPIKE SAMPLE: 1548034

Parameter	Units	60154717023 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Barium, Dissolved	ug/L	20.6	80	103	103	70-130	
Beryllium, Dissolved	ug/L	ND	80	74.6	93	70-130	
Cadmium, Dissolved	ug/L	1.0	80	82.5	102	70-130	
Calcium, Dissolved	ug/L	334000	1000	331000	-320	70-130	E,M1
Chromium, Dissolved	ug/L	ND	80	79.2	99	70-130	
Cobalt, Dissolved	ug/L	1.5	80	81.9	101	70-130	
Copper, Dissolved	ug/L	1.1	80	82.1	101	70-130	
Iron, Dissolved	ug/L	1740	1000	2760	102	70-130	
Lead, Dissolved	ug/L	7.4	80	85.4	98	70-130	
Magnesium, Dissolved	ug/L	36200	1000	36200	4	70-130	M1
Manganese, Dissolved	ug/L	425	80	506	102	70-130	
Molybdenum, Dissolved	ug/L	1.4	80	84.1	103	70-130	
Nickel, Dissolved	ug/L	4.5	80	86.0	102	70-130	
Potassium, Dissolved	ug/L	3830	1000	4810	98	70-130	
Selenium, Dissolved	ug/L	2.6	80	83.4	101	70-130	
Silver, Dissolved	ug/L	ND	80	76.0	95	70-130	
Sodium, Dissolved	ug/L	9630	1000	10100	44	70-130	M1
Thallium, Dissolved	ug/L	ND	80	78.1	98	70-130	
Vanadium, Dissolved	ug/L	0.14	80	81.0	101	70-130	
Zinc, Dissolved	ug/L	348	80	454	132	70-130	M1

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QUALITY CONTROL DATA

Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

QC Batch: MPRP/24734 | Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 | Analysis Description: 200.8 Potentially Dissolved Metals
Associated Lab Samples: 60154491001, 60154491002, 60154491003, 60154491004, 60154491005, 60154491006, 60154491007, 60154491008

METHOD BLANK: 1271846 | Matrix: Water
Associated Lab Samples: 60154491001, 60154491002, 60154491003, 60154491004, 60154491005, 60154491006, 60154491007, 60154491008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	50.0	10/17/13 12:27	
Antimony, Dissolved	ug/L	ND	1.0	10/16/13 12:12	
Arsenic, Dissolved	ug/L	ND	1.0	10/16/13 12:12	
Barium, Dissolved	ug/L	ND	1.0	10/17/13 12:27	
Beryllium, Dissolved	ug/L	ND	0.50	10/16/13 18:13	
Cadmium, Dissolved	ug/L	ND	0.50	10/16/13 12:12	
Chromium, Dissolved	ug/L	ND	1.0	10/17/13 12:27	
Cobalt, Dissolved	ug/L	ND	1.0	10/16/13 12:12	
Copper, Dissolved	ug/L	0.49J	1.0	10/16/13 12:12	
Iron, Dissolved	ug/L	22.1J	50.0	10/16/13 12:12	
Lead, Dissolved	ug/L	ND	1.0	10/16/13 12:12	
Manganese, Dissolved	ug/L	0.30J	1.0	10/16/13 12:12	
Molybdenum, Dissolved	ug/L	0.19J	1.0	10/16/13 12:12	
Nickel, Dissolved	ug/L	0.29J	1.0	10/16/13 12:12	
Selenium, Dissolved	ug/L	ND	1.0	10/16/13 12:12	
Silver, Dissolved	ug/L	0.012J	0.50	10/16/13 12:12	
Thallium, Dissolved	ug/L	0.24J	1.0	10/16/13 12:12	
Vanadium, Dissolved	ug/L	ND	1.0	10/16/13 12:12	
Zinc, Dissolved	ug/L	ND	10.0	10/17/13 12:27	

LABORATORY CONTROL SAMPLE: 1271847

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	1000	1060	106	85-115	
Antimony, Dissolved	ug/L	40	39.8	99	85-115	
Arsenic, Dissolved	ug/L	40	40.8	102	85-115	
Barium, Dissolved	ug/L	40	39.5	99	85-115	
Beryllium, Dissolved	ug/L	40	39.3	98	85-115	
Cadmium, Dissolved	ug/L	40	40.5	101	85-115	
Chromium, Dissolved	ug/L	40	41.1	103	85-115	
Cobalt, Dissolved	ug/L	40	40.5	101	85-115	
Copper, Dissolved	ug/L	40	43.5	109	85-115	
Iron, Dissolved	ug/L	1000	974	97	85-115	
Lead, Dissolved	ug/L	40	39.8	100	85-115	
Manganese, Dissolved	ug/L	40	39.3	98	85-115	
Molybdenum, Dissolved	ug/L	40	40.6	101	85-115	
Nickel, Dissolved	ug/L	40	41.2	103	85-115	
Selenium, Dissolved	ug/L	40	39.6	99	85-115	
Silver, Dissolved	ug/L	20	19.9	100	85-115	
Thallium, Dissolved	ug/L	40	38.7	97	85-115	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

LABORATORY CONTROL SAMPLE: 1271847

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vanadium, Dissolved	ug/L	40	40.0	100	85-115	
Zinc, Dissolved	ug/L	100	114	114	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1271848 1271849

Parameter	Units	60154491001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	ug/L	69.7	1000	1000	1070	1060	100	99	70-130	1	20	
Antimony, Dissolved	ug/L	0.075J	40	40	39.3	38.6	98	96	70-130	2	20	
Arsenic, Dissolved	ug/L	0.23J	40	40	38.7	37.8	96	94	70-130	2	20	
Barium, Dissolved	ug/L	54.1	40	40	92.6	91.6	96	94	70-130	1	20	
Beryllium, Dissolved	ug/L	ND	40	40	38.3	36.5	96	91	70-130	5	20	
Cadmium, Dissolved	ug/L	ND	40	40	39.6	38.4	99	96	70-130	3	20	
Chromium, Dissolved	ug/L	0.79J	40	40	40.1	39.4	98	97	70-130	2	20	
Cobalt, Dissolved	ug/L	0.086J	40	40	39.0	37.8	97	94	70-130	3	20	
Copper, Dissolved	ug/L	0.75J	40	40	39.7	38.5	97	94	70-130	3	20	
Iron, Dissolved	ug/L	183	1000	1000	1120	1100	94	92	70-130	2	20	
Lead, Dissolved	ug/L	0.23J	40	40	39.3	38.8	98	96	70-130	1	20	
Manganese, Dissolved	ug/L	11.4	40	40	50.2	48.9	97	94	70-130	3	20	
Molybdenum, Dissolved	ug/L	0.80J	40	40	40.6	39.7	99	97	70-130	2	20	
Nickel, Dissolved	ug/L	0.37J	40	40	39.3	38.4	97	95	70-130	2	20	
Selenium, Dissolved	ug/L	0.39J	40	40	36.8	37.0	91	91	70-130	0	20	
Silver, Dissolved	ug/L	0.026J	20	20	19.2	18.8	96	94	70-130	2	20	
Thallium, Dissolved	ug/L	0.28J	40	40	38.6	37.4	96	93	70-130	3	20	
Vanadium, Dissolved	ug/L	ND	40	40	38.8	37.2	97	93	70-130	4	20	
Zinc, Dissolved	ug/L	6.0J	100	100	109	108	103	102	70-130	1	20	

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QUALITY CONTROL DATA

Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

QC Batch: MT/13981 Analysis Method: SM 2510B
QC Batch Method: SM 2510B Analysis Description: 2510B Specific Conductance
Associated Lab Samples: 60154491001, 60154491002, 60154491003, 60154491004, 60154491005, 60154491006, 60154491007, 60154491008

METHOD BLANK: 1547715 Matrix: Water
Associated Lab Samples: 60154491001, 60154491002, 60154491003, 60154491004, 60154491005, 60154491006, 60154491007, 60154491008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Specific Conductance	umhos/cm	ND	10.0	10/09/13 10:57	

LABORATORY CONTROL SAMPLE: 1547716

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Specific Conductance	umhos/cm	1000	942	94	90-110	

SAMPLE DUPLICATE: 1547717

Parameter	Units	60154287007 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Conductance	umhos/cm	1100	1120	1	20	

SAMPLE DUPLICATE: 1547718

Parameter	Units	60154491003 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Conductance	umhos/cm	272	289	6	20	

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QUALITY CONTROL DATA

Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

QC Batch: WET/43849 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 60154491001, 60154491002, 60154491003, 60154491004, 60154491005, 60154491006, 60154491007, 60154491008

METHOD BLANK: 1267428 Matrix: Water
Associated Lab Samples: 60154491001, 60154491002, 60154491003, 60154491004, 60154491005, 60154491006, 60154491007, 60154491008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	20.0	10/08/13 09:09	
Alkalinity, Total as CaCO3	mg/L	ND	20.0	10/08/13 09:09	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	20.0	10/08/13 09:09	

LABORATORY CONTROL SAMPLE: 1267429

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	528	106	90-110	

SAMPLE DUPLICATE: 1267432

Parameter	Units	60154595014 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	ND		10	
Alkalinity, Total as CaCO3	mg/L	786	777	1	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	786	777	1	10	

SAMPLE DUPLICATE: 1267433

Parameter	Units	60154491007 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	ND		10	
Alkalinity, Total as CaCO3	mg/L	68.6	69.0	1	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	68.6	69.0	1	10	

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QUALITY CONTROL DATA

Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

QC Batch: WET/43832 — Analysis Method: SM 2540C
QC Batch Method: SM 2540C — Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 60154491001, 60154491002, 60154491003, 60154491004, 60154491005, 60154491006, 60154491007, 60154491008

METHOD BLANK: 1267018 — Matrix: Water
Associated Lab Samples: 60154491001, 60154491002, 60154491003, 60154491004, 60154491005, 60154491006, 60154491007, 60154491008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	10/07/13 08:44	

LABORATORY CONTROL SAMPLE: 1267019

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	964	96	80-120	

SAMPLE DUPLICATE: 1267020

Parameter	Units	60154319001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	218	224	3	17	

SAMPLE DUPLICATE: 1267021

Parameter	Units	60154491004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	140	144	3	17	

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QUALITY CONTROL DATA

Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

QC Batch: WET/43831 Analysis Method: SM 2540D
QC Batch Method: SM 2540D Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 60154491001, 60154491002, 60154491003, 60154491004, 60154491005, 60154491006, 60154491007, 60154491008

METHOD BLANK: 1267016 Matrix: Water
Associated Lab Samples: 60154491001, 60154491002, 60154491003, 60154491004, 60154491005, 60154491006, 60154491007, 60154491008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	10/07/13 10:26	

SAMPLE DUPLICATE: 1267017

Parameter	Units	60154491001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	ND	ND		25	

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QUALITY CONTROL DATA

Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

QC Batch: WET/43838 Analysis Method: SM 4500-S-2 D
QC Batch Method: SM 4500-S-2 D Analysis Description: 4500S2D Sulfide, Total
Associated Lab Samples: 60154491001, 60154491002, 60154491003, 60154491004, 60154491005, 60154491006, 60154491007, 60154491008

METHOD BLANK: 1267102 Matrix: Water
Associated Lab Samples: 60154491001, 60154491002, 60154491003, 60154491004, 60154491005, 60154491006, 60154491007, 60154491008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.050	10/07/13 10:42	

LABORATORY CONTROL SAMPLE: 1267103

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	.5	0.50	99	80-120	

MATRIX SPIKE SAMPLE: 1267104

Parameter	Units	60154340001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	ND	.5	0.095	19	75-125	M1

SAMPLE DUPLICATE: 1267105

Parameter	Units	60154340002 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

QC Batch: WETA/26647 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60154491001, 60154491002, 60154491003, 60154491004, 60154491005, 60154491006, 60154491007, 60154491008

METHOD BLANK: 1271145 Matrix: Water
Associated Lab Samples: 60154491001, 60154491002, 60154491003, 60154491004, 60154491005, 60154491006, 60154491007, 60154491008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	10/13/13 18:59	

METHOD BLANK: 1271449 Matrix: Water
Associated Lab Samples: 60154491001, 60154491002, 60154491003, 60154491004, 60154491005, 60154491006, 60154491007, 60154491008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	1.0	10/14/13 15:35	

LABORATORY CONTROL SAMPLE: 1271146

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.8	96	90-110	

LABORATORY CONTROL SAMPLE: 1271450

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	5	5.2	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1271147 1271148

Parameter	Units	60154491001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1.3	5	5	5.6	5.8	86	89	80-120	3	15	
Sulfate	mg/L	25.2	10	10	36.1	36.2	109	110	80-120	0	15	

MATRIX SPIKE SAMPLE: 1271149

Parameter	Units	60154491002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.3	5	5.6	86	80-120	
Sulfate	mg/L	30.2	25	56.1	104	80-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

QC Batch: WETA/26511 | Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 | Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 60154491001, 60154491002

METHOD BLANK: 1266988 | Matrix: Water
Associated Lab Samples: 60154491001, 60154491002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	0.10	10/07/13 15:19	

LABORATORY CONTROL SAMPLE: 1266989

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2	2.1	105	90-110	

MATRIX SPIKE SAMPLE: 1266990

Parameter	Units	60154287005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.22	2	2.3	102	90-110	

MATRIX SPIKE SAMPLE: 1266991

Parameter	Units	60154287006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	2	1.9	90	90-110	

SAMPLE DUPLICATE: 1266992

Parameter	Units	60154287007 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

QC Batch: WETA/26512 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 60154491003, 60154491004, 60154491005, 60154491006, 60154491007, 60154491008

METHOD BLANK: 1266993 Matrix: Water
Associated Lab Samples: 60154491003, 60154491004, 60154491005, 60154491006, 60154491007, 60154491008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	0.10	10/07/13 16:45	

LABORATORY CONTROL SAMPLE: 1266994

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2	2.1	106	90-110	

MATRIX SPIKE SAMPLE: 1266995

Parameter	Units	60154491003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	2	2.2	106	90-110	

MATRIX SPIKE SAMPLE: 1266999

Parameter	Units	60154491004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	2	2.2	107	90-110	

SAMPLE DUPLICATE: 1267000

Parameter	Units	60154504001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	32.3	32.6	1	20	

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QUALITY CONTROL DATA

Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

QC Batch: WETA/26509 — Analysis Method: SM 4500-CN-E
QC Batch Method: SM 4500-CN-E — Analysis Description: 4500CNE Cyanide, Total
Associated Lab Samples: 60154491001, 60154491002, 60154491003, 60154491004, 60154491005, 60154491006, 60154491007, 60154491008

METHOD BLANK: 1266975 — Matrix: Water
Associated Lab Samples: 60154491001, 60154491002, 60154491003, 60154491004, 60154491005, 60154491006, 60154491007, 60154491008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	mg/L	ND	0.0050	10/07/13 13:38	

LABORATORY CONTROL SAMPLE: 1266976

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	.1	0.094	94	69-126	

MATRIX SPIKE SAMPLE: 1266977

Parameter	Units	60154472002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	ND	.1	0.10	102	41-136	

SAMPLE DUPLICATE: 1266978

Parameter	Units	60154491004 Result	Dup Result	RPD	Max RPD	Qualifiers
Cyanide	mg/L	ND	ND		26	

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QUALITY CONTROL DATA

Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

QC Batch: WETA/20012 — Analysis Method: SM 5310C
QC Batch Method: SM 5310C — Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 60154491001, 60154491002, 60154491003, 60154491004, 60154491005, 60154491006, 60154491007, 60154491008

METHOD BLANK: 874787 — Matrix: Water
Associated Lab Samples: 60154491001, 60154491002, 60154491003, 60154491004, 60154491005, 60154491006, 60154491007, 60154491008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	0.50	10/14/13 15:02	

LABORATORY CONTROL SAMPLE: 874788

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	2.5	2.7	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 874789 874790

Parameter	Units	4086014001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	10.6	15	15	26.5	26.1	106	104	80-120	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 874791 874792

Parameter	Units	60154491001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	4.5	15	15	20.8	20.8	109	109	80-120	0	20	

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QUALIFIERS

Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

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.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay
PASI-K	Pace Analytical Services - Kansas City
PASI-M	Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60154491001	**DR-1_20130930**	EPA 200.7	MPRP/24735	EPA 200.7	ICP/19203
60154491002	**DR-2_20130930**	EPA 200.7	MPRP/24735	EPA 200.7	ICP/19203
60154491003	**DR-7_20130930**	EPA 200.7	MPRP/24735	EPA 200.7	ICP/19203
60154491004	**DR-4-SW_20130930**	EPA 200.7	MPRP/24735	EPA 200.7	ICP/19203
60154491005	**DR-12_20130930**	EPA 200.7	MPRP/24735	EPA 200.7	ICP/19203
60154491006	**DR-2 COMPOSITE_20130930**	EPA 200.7	MPRP/24735	EPA 200.7	ICP/19203
60154491007	**DR-7 COMPOSITE_20130930**	EPA 200.7	MPRP/24735	EPA 200.7	ICP/19203
60154491008	**DR-4-SW COMPOSITE_20130930**	EPA 200.7	MPRP/24735	EPA 200.7	ICP/19203
60154491001	**DR-1_20130930**	EPA 200.8	MPRP/42529	EPA 200.8	ICPM/18127
60154491002	**DR-2_20130930**	EPA 200.8	MPRP/42529	EPA 200.8	ICPM/18127
60154491003	**DR-7_20130930**	EPA 200.8	MPRP/42529	EPA 200.8	ICPM/18127
60154491004	**DR-4-SW_20130930**	EPA 200.8	MPRP/42529	EPA 200.8	ICPM/18127
60154491005	**DR-12_20130930**	EPA 200.8	MPRP/42529	EPA 200.8	ICPM/18127
60154491006	**DR-2 COMPOSITE_20130930**	EPA 200.8	MPRP/42529	EPA 200.8	ICPM/18127
60154491007	**DR-7 COMPOSITE_20130930**	EPA 200.8	MPRP/42529	EPA 200.8	ICPM/18127
60154491008	**DR-4-SW COMPOSITE_20130930**	EPA 200.8	MPRP/42529	EPA 200.8	ICPM/18127
60154491001	**DR-1_20130930**	EPA 200.8	MPRP/42527	EPA 200.8	ICPM/18086
60154491002	**DR-2_20130930**	EPA 200.8	MPRP/42527	EPA 200.8	ICPM/18086
60154491003	**DR-7_20130930**	EPA 200.8	MPRP/42527	EPA 200.8	ICPM/18086
60154491004	**DR-4-SW_20130930**	EPA 200.8	MPRP/42527	EPA 200.8	ICPM/18086
60154491005	**DR-12_20130930**	EPA 200.8	MPRP/42527	EPA 200.8	ICPM/18086
60154491006	**DR-2 COMPOSITE_20130930**	EPA 200.8	MPRP/42527	EPA 200.8	ICPM/18086
60154491007	**DR-7 COMPOSITE_20130930**	EPA 200.8	MPRP/42527	EPA 200.8	ICPM/18086
60154491008	**DR-4-SW COMPOSITE_20130930**	EPA 200.8	MPRP/42527	EPA 200.8	ICPM/18086
60154491001	**DR-1_20130930**	EPA 200.8	MPRP/24734	EPA 200.8	ICPM/2569
60154491002	**DR-2_20130930**	EPA 200.8	MPRP/24734	EPA 200.8	ICPM/2569
60154491003	**DR-7_20130930**	EPA 200.8	MPRP/24734	EPA 200.8	ICPM/2569
60154491004	**DR-4-SW_20130930**	EPA 200.8	MPRP/24734	EPA 200.8	ICPM/2569
60154491005	**DR-12_20130930**	EPA 200.8	MPRP/24734	EPA 200.8	ICPM/2569
60154491006	**DR-2 COMPOSITE_20130930**	EPA 200.8	MPRP/24734	EPA 200.8	ICPM/2569
60154491007	**DR-7 COMPOSITE_20130930**	EPA 200.8	MPRP/24734	EPA 200.8	ICPM/2569
60154491008	**DR-4-SW COMPOSITE_20130930**	EPA 200.8	MPRP/24734	EPA 200.8	ICPM/2569
60154491001	**DR-1_20130930**	EPA 245.1	MERP/9482	EPA 245.1	MERC/10865
60154491002	**DR-2_20130930**	EPA 245.1	MERP/9482	EPA 245.1	MERC/10865
60154491003	**DR-7_20130930**	EPA 245.1	MERP/9482	EPA 245.1	MERC/10865
60154491004	**DR-4-SW_20130930**	EPA 245.1	MERP/9482	EPA 245.1	MERC/10865
60154491005	**DR-12_20130930**	EPA 245.1	MERP/9482	EPA 245.1	MERC/10865
60154491006	**DR-2 COMPOSITE_20130930**	EPA 245.1	MERP/9482	EPA 245.1	MERC/10865
60154491007	**DR-7 COMPOSITE_20130930**	EPA 245.1	MERP/9482	EPA 245.1	MERC/10865
60154491008	**DR-4-SW COMPOSITE_20130930**	EPA 245.1	MERP/9482	EPA 245.1	MERC/10865
60154491001	**DR-1_20130930**	EPA 245.1	MERP/9480	EPA 245.1	MERC/10866
60154491002	**DR-2_20130930**	EPA 245.1	MERP/9480	EPA 245.1	MERC/10866
60154491003	**DR-7_20130930**	EPA 245.1	MERP/9480	EPA 245.1	MERC/10866
60154491004	**DR-4-SW_20130930**	EPA 245.1	MERP/9480	EPA 245.1	MERC/10866
60154491005	**DR-12_20130930**	EPA 245.1	MERP/9480	EPA 245.1	MERC/10866
60154491006	**DR-2 COMPOSITE_20130930**	EPA 245.1	MERP/9480	EPA 245.1	MERC/10866

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60154491007	**DR-7 COMPOSITE_20130930**	EPA 245.1	MERP/9480	EPA 245.1	MERC/10866
60154491008	**DR-4-SW COMPOSITE_20130930**	EPA 245.1	MERP/9480	EPA 245.1	MERC/10866
60154491001	**DR-1_20130930**	EPA 245.1	MERP/7822	EPA 245.1	MERC/7778
60154491002	**DR-2_20130930**	EPA 245.1	MERP/7822	EPA 245.1	MERC/7778
60154491003	**DR-7_20130930**	EPA 245.1	MERP/7822	EPA 245.1	MERC/7778
60154491004	**DR-4-SW_20130930**	EPA 245.1	MERP/7822	EPA 245.1	MERC/7778
60154491005	**DR-12_20130930**	EPA 245.1	MERP/7822	EPA 245.1	MERC/7778
60154491006	**DR-2 COMPOSITE_20130930**	EPA 245.1	MERP/7822	EPA 245.1	MERC/7778
60154491007	**DR-7 COMPOSITE_20130930**	EPA 245.1	MERP/7822	EPA 245.1	MERC/7778
60154491008	**DR-4-SW COMPOSITE_20130930**	EPA 245.1	MERP/7822	EPA 245.1	MERC/7778
60154491001	**DR-1_20130930**	SM 2510B	MT/13981		
60154491002	**DR-2_20130930**	SM 2510B	MT/13981		
60154491003	**DR-7_20130930**	SM 2510B	MT/13981		
60154491004	**DR-4-SW_20130930**	SM 2510B	MT/13981		
60154491005	**DR-12_20130930**	SM 2510B	MT/13981		
60154491006	**DR-2 COMPOSITE_20130930**	SM 2510B	MT/13981		
60154491007	**DR-7 COMPOSITE_20130930**	SM 2510B	MT/13981		
60154491008	**DR-4-SW COMPOSITE_20130930**	SM 2510B	MT/13981		
60154491001	**DR-1_20130930**	Calculated	MT/13989		
60154491002	**DR-2_20130930**	Calculated	MT/13989		
60154491003	**DR-7_20130930**	Calculated	MT/13989		
60154491004	**DR-4-SW_20130930**	Calculated	MT/13989		
60154491005	**DR-12_20130930**	Calculated	MT/13989		
60154491006	**DR-2 COMPOSITE_20130930**	Calculated	MT/13989		
60154491007	**DR-7 COMPOSITE_20130930**	Calculated	MT/13989		
60154491008	**DR-4-SW COMPOSITE_20130930**	Calculated	MT/14030		
60154491001	**DR-1_20130930**	SM 2320B	WET/43849		
60154491002	**DR-2_20130930**	SM 2320B	WET/43849		
60154491003	**DR-7_20130930**	SM 2320B	WET/43849		
60154491004	**DR-4-SW_20130930**	SM 2320B	WET/43849		
60154491005	**DR-12_20130930**	SM 2320B	WET/43849		
60154491006	**DR-2 COMPOSITE_20130930**	SM 2320B	WET/43849		
60154491007	**DR-7 COMPOSITE_20130930**	SM 2320B	WET/43849		
60154491008	**DR-4-SW COMPOSITE_20130930**	SM 2320B	WET/43849		
60154491001	**DR-1_20130930**	SM 2540C	WET/43832		
60154491002	**DR-2_20130930**	SM 2540C	WET/43832		
60154491003	**DR-7_20130930**	SM 2540C	WET/43832		
60154491004	**DR-4-SW_20130930**	SM 2540C	WET/43832		
60154491005	**DR-12_20130930**	SM 2540C	WET/43832		
60154491006	**DR-2 COMPOSITE_20130930**	SM 2540C	WET/43832		
60154491007	**DR-7 COMPOSITE_20130930**	SM 2540C	WET/43832		
60154491008	**DR-4-SW COMPOSITE_20130930**	SM 2540C	WET/43832		
60154491001	**DR-1_20130930**	SM 2540D	WET/43831		
60154491002	**DR-2_20130930**	SM 2540D	WET/43831		
60154491003	**DR-7_20130930**	SM 2540D	WET/43831		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SEPT 2013 RICO WATER SAMPLIN
Pace Project No.: 60154491

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60154491004	**DR-4-SW_20130930**	SM 2540D	WET/43831		
60154491005	**DR-12_20130930**	SM 2540D	WET/43831		
60154491006	**DR-2 COMPOSITE_20130930**	SM 2540D	WET/43831		
60154491007	**DR-7 COMPOSITE_20130930**	SM 2540D	WET/43831		
60154491008	**DR-4-SW COMPOSITE_20130930**	SM 2540D	WET/43831		
60154491001	**DR-1_20130930**	SM 4500-S-2 D	WET/43838		
60154491002	**DR-2_20130930**	SM 4500-S-2 D	WET/43838		
60154491003	**DR-7_20130930**	SM 4500-S-2 D	WET/43838		
60154491004	**DR-4-SW_20130930**	SM 4500-S-2 D	WET/43838		
60154491005	**DR-12_20130930**	SM 4500-S-2 D	WET/43838		
60154491006	**DR-2 COMPOSITE_20130930**	SM 4500-S-2 D	WET/43838		
60154491007	**DR-7 COMPOSITE_20130930**	SM 4500-S-2 D	WET/43838		
60154491008	**DR-4-SW COMPOSITE_20130930**	SM 4500-S-2 D	WET/43838		
60154491001	**DR-1_20130930**	EPA 300.0	WETA/26647		
60154491002	**DR-2_20130930**	EPA 300.0	WETA/26647		
60154491003	**DR-7_20130930**	EPA 300.0	WETA/26647		
60154491004	**DR-4-SW_20130930**	EPA 300.0	WETA/26647		
60154491005	**DR-12_20130930**	EPA 300.0	WETA/26647		
60154491006	**DR-2 COMPOSITE_20130930**	EPA 300.0	WETA/26647		
60154491007	**DR-7 COMPOSITE_20130930**	EPA 300.0	WETA/26647		
60154491008	**DR-4-SW COMPOSITE_20130930**	EPA 300.0	WETA/26647		
60154491001	**DR-1_20130930**	EPA 353.2	WETA/26511		
60154491002	**DR-2_20130930**	EPA 353.2	WETA/26511		
60154491003	**DR-7_20130930**	EPA 353.2	WETA/26512		
60154491004	**DR-4-SW_20130930**	EPA 353.2	WETA/26512		
60154491005	**DR-12_20130930**	EPA 353.2	WETA/26512		
60154491006	**DR-2 COMPOSITE_20130930**	EPA 353.2	WETA/26512		
60154491007	**DR-7 COMPOSITE_20130930**	EPA 353.2	WETA/26512		
60154491008	**DR-4-SW COMPOSITE_20130930**	EPA 353.2	WETA/26512		
60154491001	**DR-1_20130930**	SM 4500-CN-E	WETA/26509		
60154491002	**DR-2_20130930**	SM 4500-CN-E	WETA/26509		
60154491003	**DR-7_20130930**	SM 4500-CN-E	WETA/26509		
60154491004	**DR-4-SW_20130930**	SM 4500-CN-E	WETA/26509		
60154491005	**DR-12_20130930**	SM 4500-CN-E	WETA/26509		
60154491006	**DR-2 COMPOSITE_20130930**	SM 4500-CN-E	WETA/26509		
60154491007	**DR-7 COMPOSITE_20130930**	SM 4500-CN-E	WETA/26509		
60154491008	**DR-4-SW COMPOSITE_20130930**	SM 4500-CN-E	WETA/26509		
60154491001	**DR-1_20130930**	SM 5310C	WETA/20012		
60154491002	**DR-2_20130930**	SM 5310C	WETA/20012		
60154491003	**DR-7_20130930**	SM 5310C	WETA/20012		
60154491004	**DR-4-SW_20130930**	SM 5310C	WETA/20012		
60154491005	**DR-12_20130930**	SM 5310C	WETA/20012		
60154491006	**DR-2 COMPOSITE_20130930**	SM 5310C	WETA/20012		
60154491007	**DR-7 COMPOSITE_20130930**	SM 5310C	WETA/20012		
60154491008	**DR-4-SW COMPOSITE_20130930**	SM 5310C	WETA/20012		

This report shall not be reproduced, except in full,
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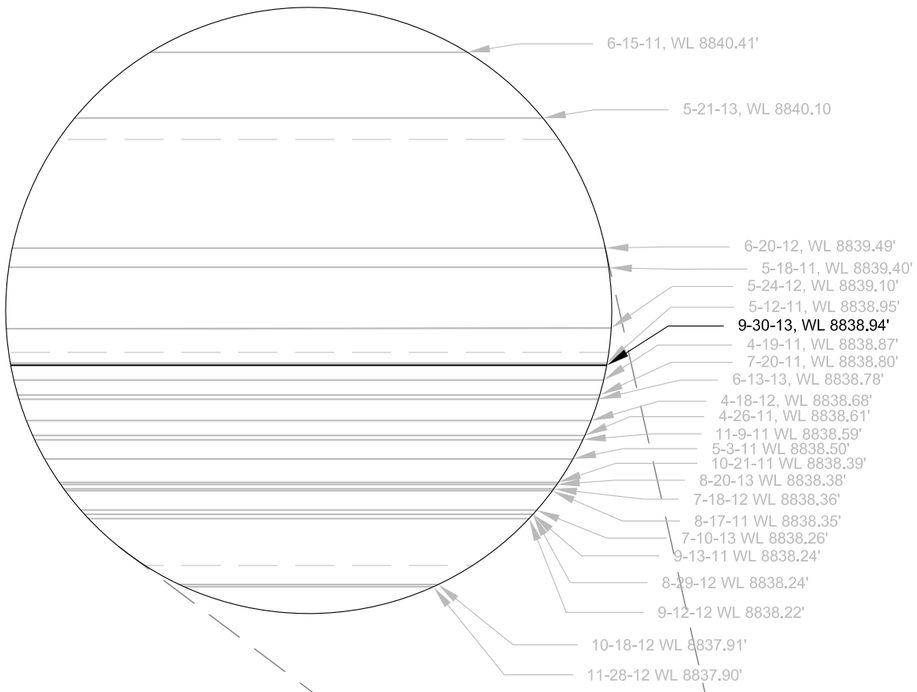
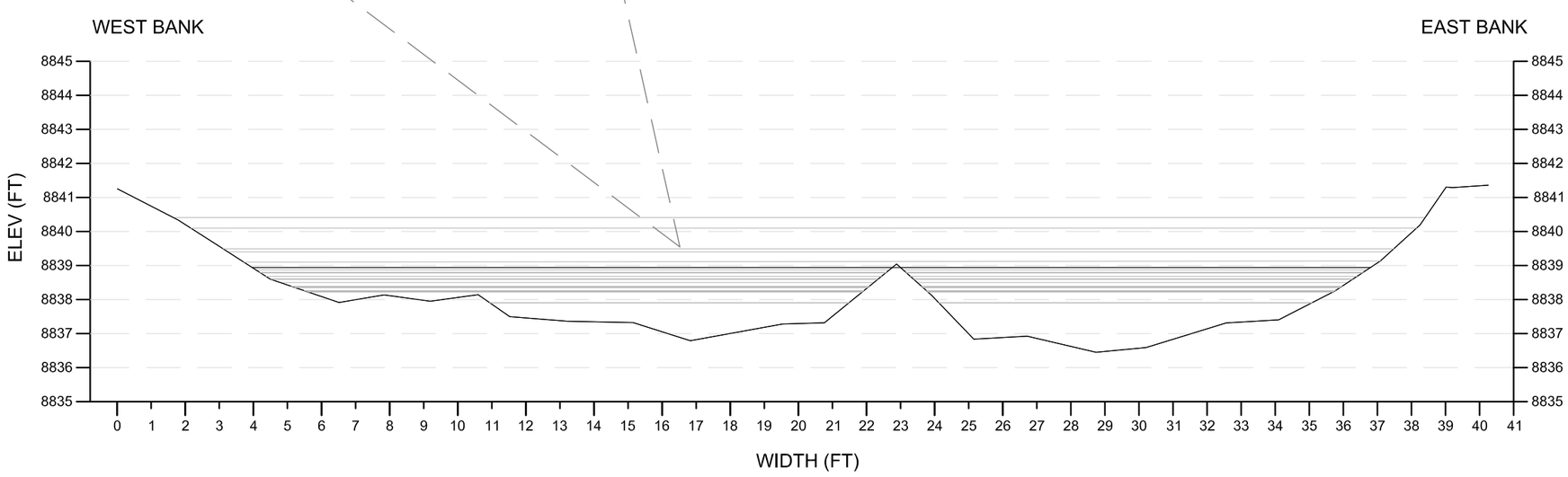
Appendix E

Flow Cross Sections



DR-1 CROSS SECTION



4 **CROSS SECTION AT DR-1**

SCALE - 1" = 4'

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General Notes

Scale in Feet

0 2 4

No.	Revision/Issue	Date

ATLANTIC RICHFIELD COMPANY

ANDERSON
ENGINEERING COMPANY, INC.

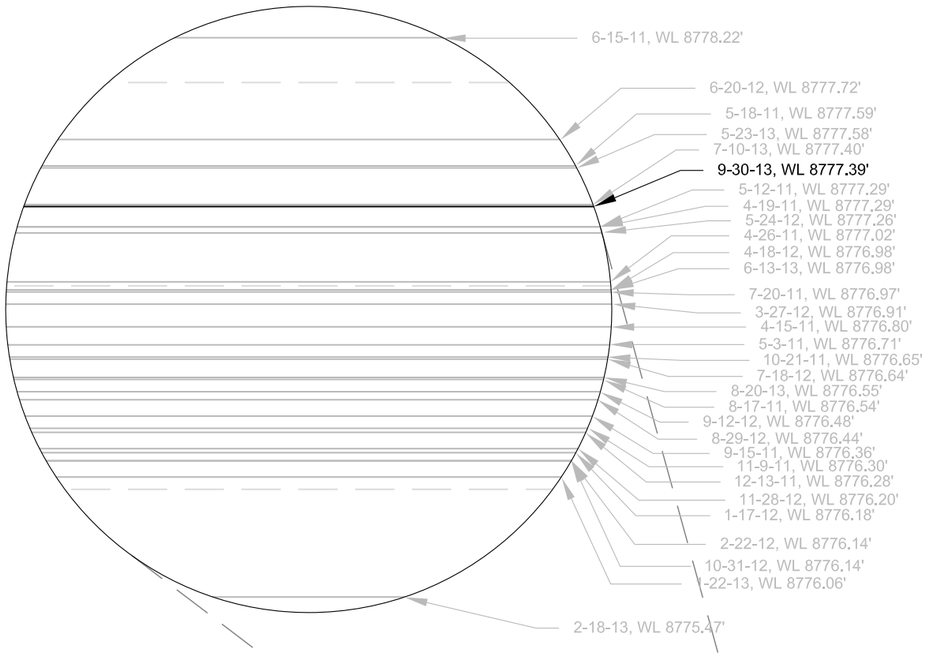
DRAWN BY: MAD
ENGINEER: CS, MAD
APPROVED:

RICO SURFACE WATER SAMPLING

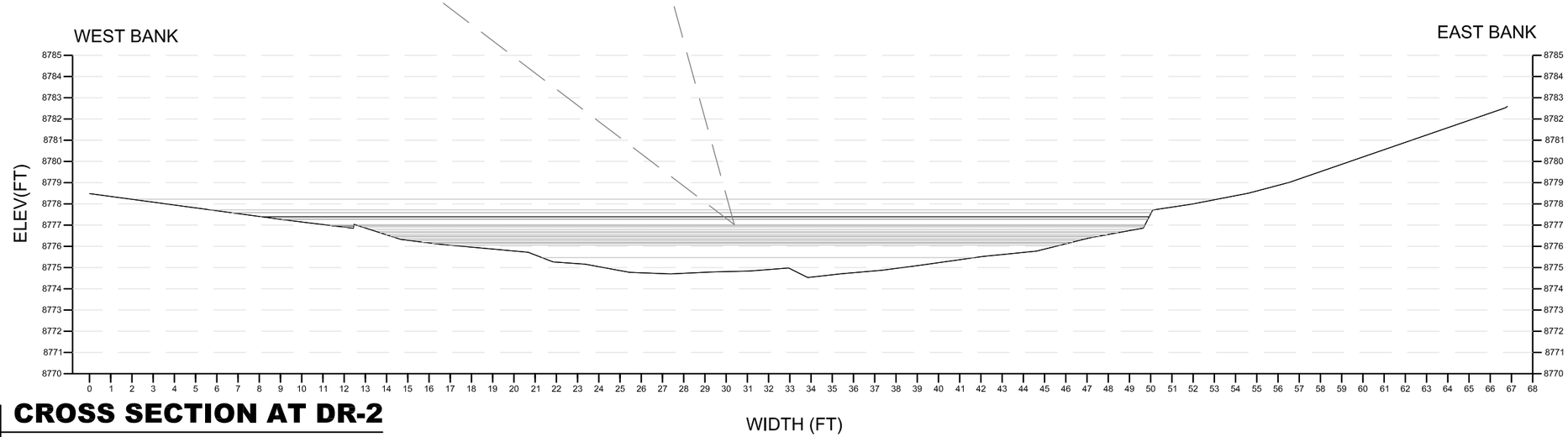
DOLORES RIVER CROSS SECTION AT SAMPLING STATION DR-1

RICO, CO

Project
Date 30-SEPT-2013
Scale
Figure 4



DR-2 CROSS SECTION



5 **CROSS SECTION AT DR-2**

SCALE - 1" = 6'

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General Notes

Scale in Feet

0 3 6

No.	Revision/Issue	Date

ATLANTIC RICHFIELD COMPANY

ANDERSON ENGINEERING COMPANY, INC.

DRAWN BY: MAD

ENGINEER: CS, MAD

APPROVED:

RICO SURFACE WATER SAMPLING

DOLORES RIVER CROSS SECTION AT SAMPLING STATION DR-2

RICO, CO

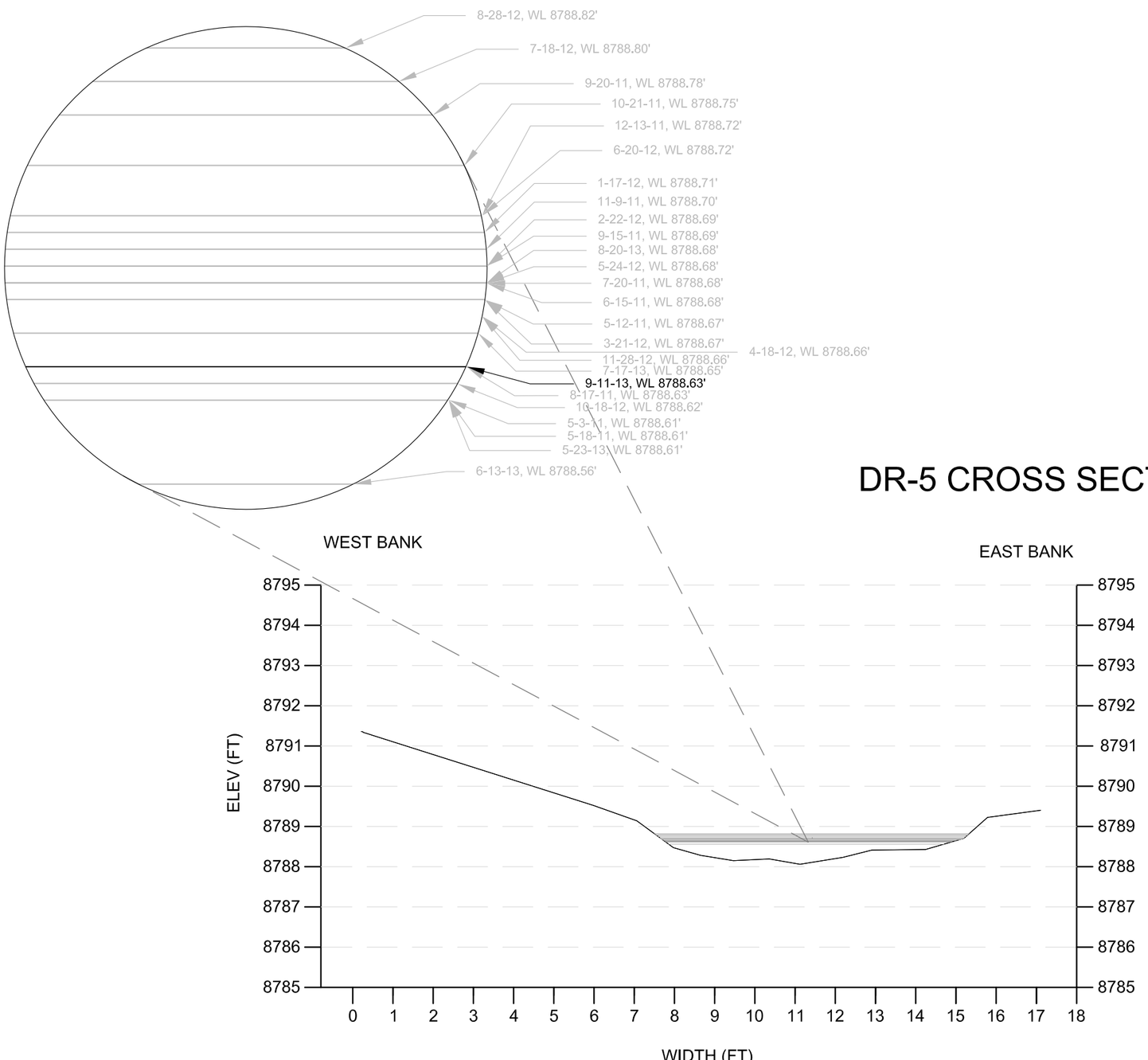
Project

Date 30-SEP-2013

Scale

Figure 5

DR-5 CROSS SECTION



6 **CROSS SECTION AT DR-5**

SCALE - 1" = 3'

General Notes

Scale in Feet

0 1.5 3

No.	Revision/Issue	Date

ATLANTIC RICHFIELD COMPANY

ANDERSON ENGINEERING COMPANY, INC.

DRAWN BY: MAD

ENGINEER: CS, MAD

APPROVED:

RICO SURFACE WATER SAMPLING

POND 8 EMBANKMENT CROSS SECTION AT SAMPLING STATION DR-5

RICO, CO

Project

Date 11-SEP-2013

Scale

Figure 6

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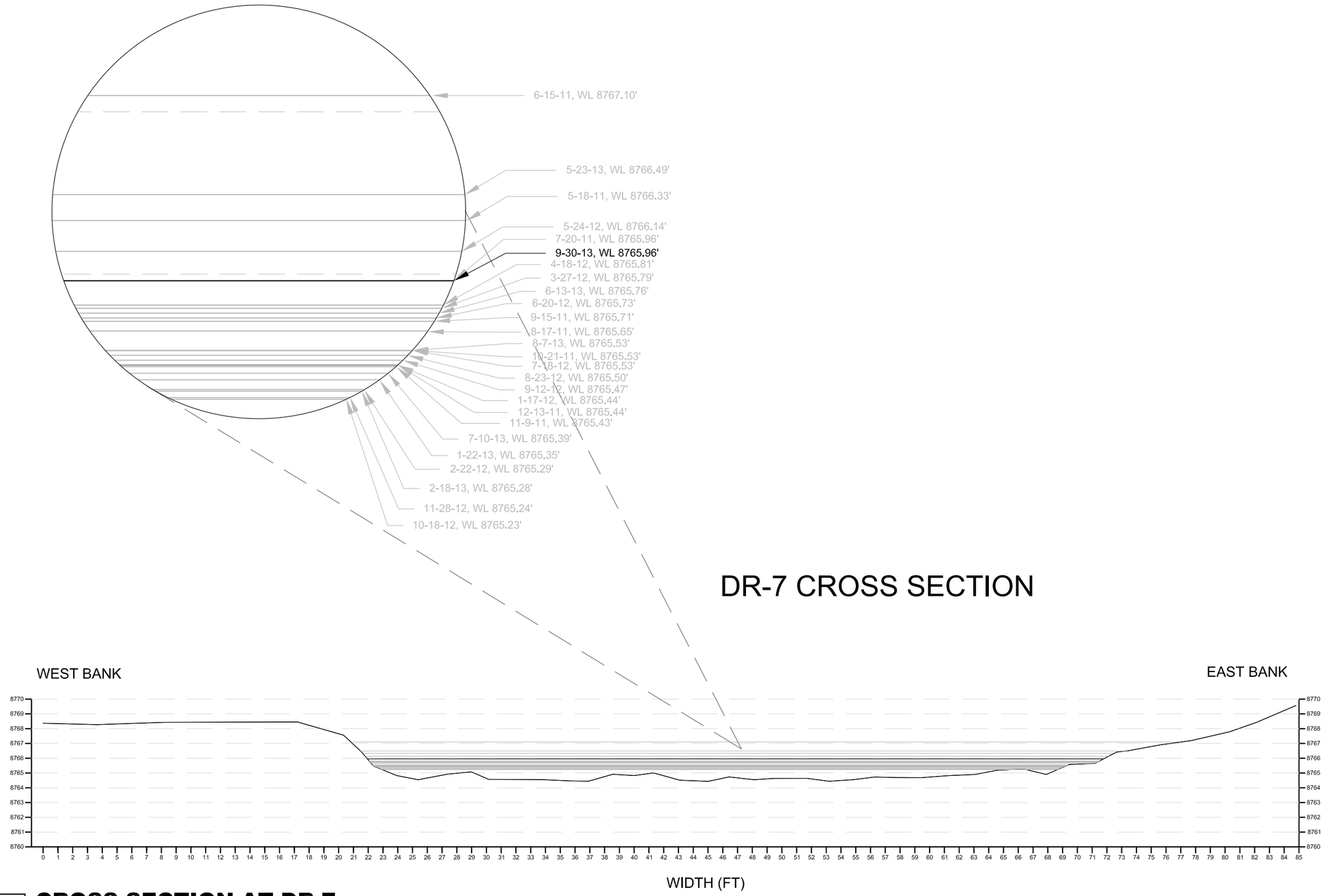

7 CROSS SECTION AT DR-7

SCALE - 1" = 7'

General Notes

Scale in Feet

0 3.5 7

No.	Revision/Issue	Date

ATLANTIC RICHFIELD COMPANY

ANDERSON ENGINEERING COMPANY, INC.

DRAWN BY: MAD

ENGINEER: CS, MAD

APPROVED:

RICO SURFACE WATER SAMPLING

DOLORES RIVER CROSS SECTION AT SAMPLING STATION DR-7

RICO, CO

Project

Date 30-SEP-2013

Scale

Figure 7

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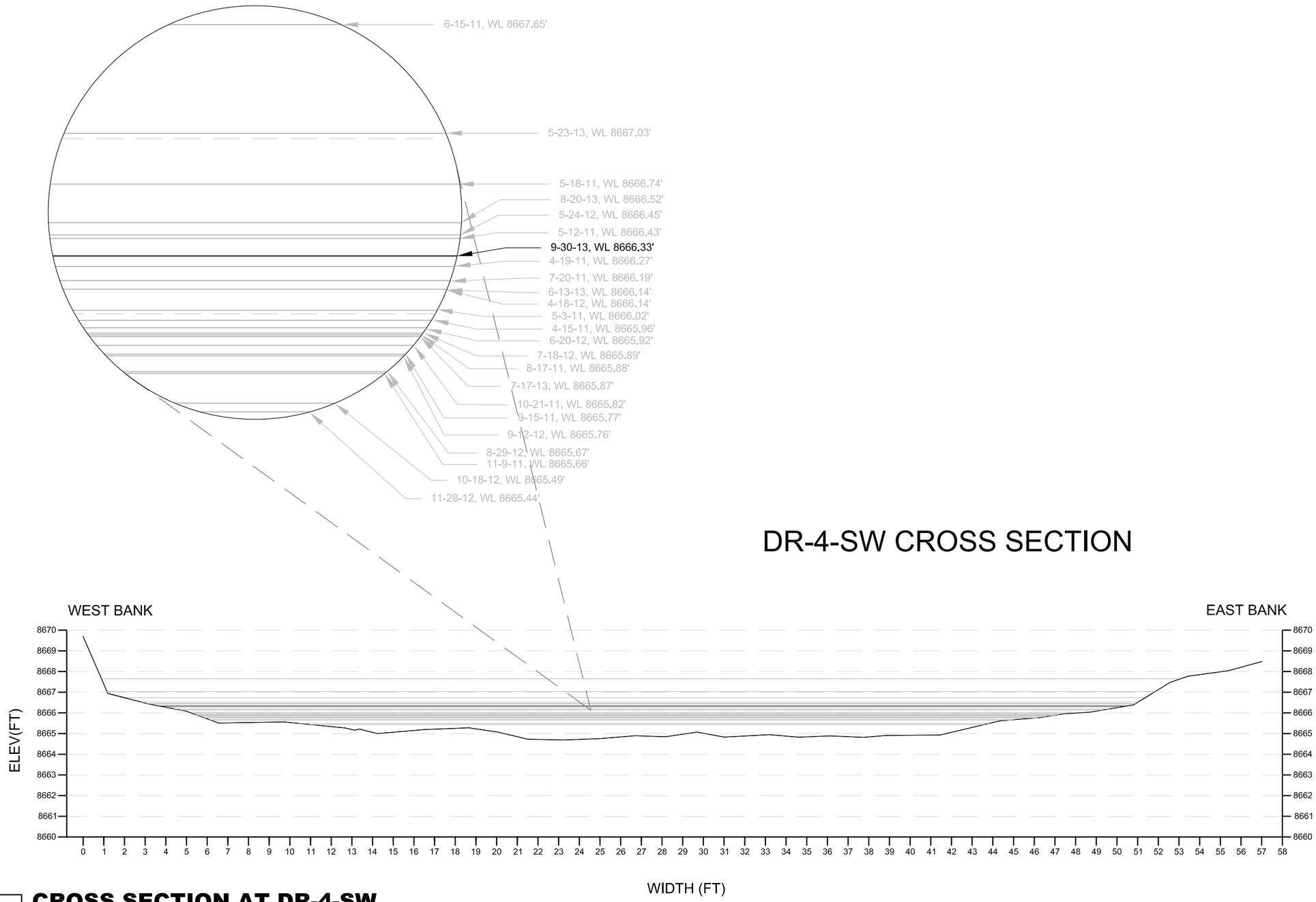

8 **CROSS SECTION AT DR-4-SW**

SCALE - 1" = 5'

General Notes

Scale in Feet
0 2.5 5

No.	Revision/Issue	Date

ATLANTIC RICHFIELD COMPANY

ANDERSON
ENGINEERING COMPANY, INC.

DRAWN BY: MAD
ENGINEER: CS, MAD
APPROVED:

RICO SURFACE WATER SAMPLING

DOLORES RIVER CROSS SECTION AT SAMPLING STATION DR-4-SW

RICO, CO

Project
Date 30-SEP-2013
Scale
Figure 8

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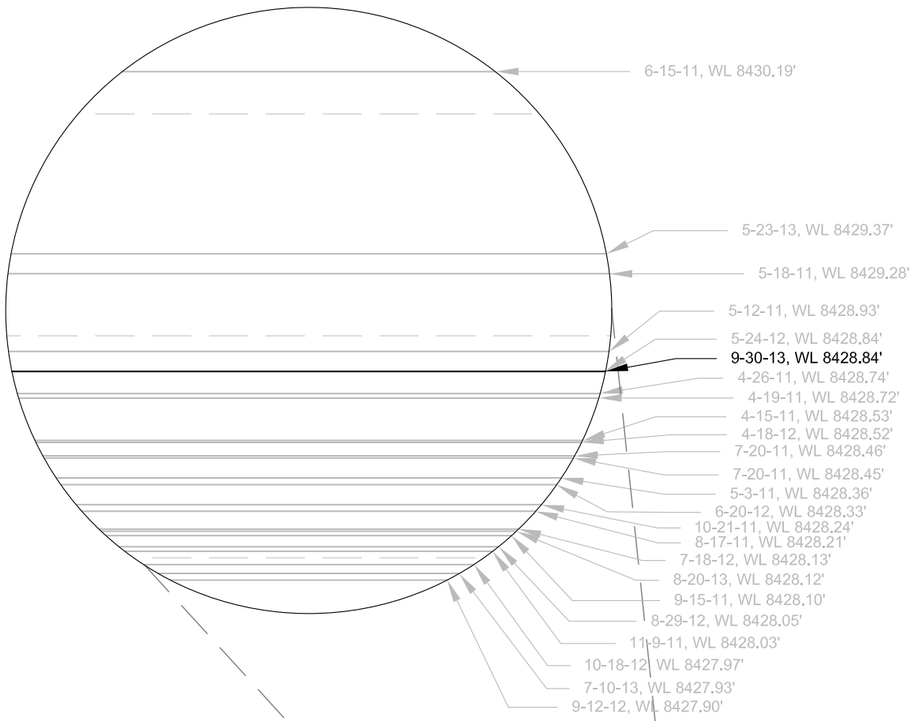
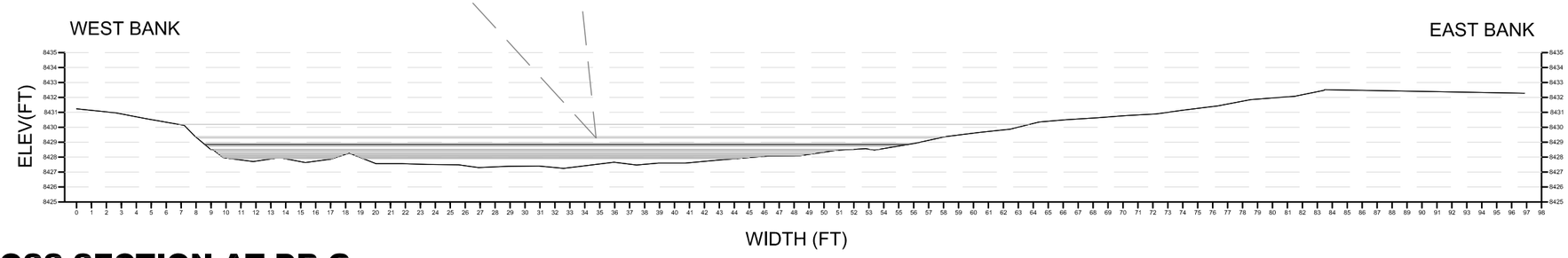


DR-G CROSS SECTION



9 CROSS SECTION AT DR-G

SCALE - 1" = 9'

General Notes

Scale in Feet
0 4.5 9

No.	Revision/Issue	Date

ATLANTIC RICHFIELD COMPANY

ANDERSON
ENGINEERING COMPANY, INC.

DRAWN BY: MAD
ENGINEER: CS, MAD
APPROVED:

RICO SURFACE WATER SAMPLING

DOLORES RIVER CROSS SECTION AT SAMPLING STATION DR-G

RICO, CO

Project
Date 30-SEP-2013
Scale
Figure 9

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Appendix F

Chain of Custody Records

Pace Analytical
www.pacelabs.com

Sample Condition Upon Receipt
ESI Tech Spec Client

WO# : 60153027

60153027

12733W87844897 5699
12733W87844757 5300

Client Name: BP - Anderson Engin

Optional
Proj Due Date:
Proj Name:

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

Tracking #: 12733W87844898 2887 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: 5.3, 4.9, 5.5

Temperature should be above freezing to 6°C

Date and initials of person examining contents: S 9/13

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: WT	☒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	☐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:

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:	Start:
End:	End:
Temp:	Temp:

Project Manager Review: mw for (AMW) Date: 9/13/13

ANDERSON
ENGINEERING COMPANY INC.

977 West 2100 South
Salt Lake City, UT 84119
(801) 972-6222
FAX (801) 972-6235

CHAIN OF CUSTODY RECORD

COC# _____
Page 1 of 1

Client: BP
Project: August 2013 Rico Water Sampling
AECI Contact: Mark DeFriez (801) 234-9583

Lab Name: Pace Analytical Services
Lab Contact: Heather Wilson, (913) 563-1407
Lab Address: 9608 Loiret Blvd.
Lenexa, KS 66219

Matrix Codes
(W) Water
(S) Soil
(L) Liquid

QC: (circle one) I II III IV

60153027

Field Location	Field Sample ID Number	Date	Time	Matrix	No. of Containers	Total	Potentially Dissolved Metals	Dissolved Metals	Alkalinity / TDS / TSS / Sulfate / Chloride	Cyanide	Salinity	Total Organic Carbon / Nitrate	Sulfide			COMMENTS	
DR-3	13.0 AG3S, BP3Z, BP3C DR-3_20130911 BP3U, BP3U, BP3Y 2.0	9/11/2013	3:35 PM	W	8	X	X	X	X	X	X	X	X	2(BP3N)	2.0		001
DR-5	13.0 DR-5_20130911	9/11/2013	3:25 PM	W	8	X	X	X	X	X	X	X	X				002
DR-G	DR-G_20130911	9/11/2013	10:25 AM	W	8	X	X	X	X	X	X	X	X				003
DR-8	DR-8_20130911	9/11/2013	10:30 AM	W	8	X	X	X	X	X	X	X	X				004
DR-9	DR-9_20130911	9/11/2013	3:36 PM	W	8	X	X	X	X	X	X	X	X				005
GW-1	GW-1_20130911	9/11/2013	11:35 AM	W	8	X	X	X	X	X	X	X	X				006
GW-5	GW-5_20130911	9/11/2013	12:40 PM	W	8	X	X	X	X	X	X	X	X				007
MW-104	MW-104_20130911	9/11/2013	3:03 PM	W	8	X	X	X	X	X	X	X	X				008
MW-4 DEEP	MW-4 DEEP_20130911	9/11/2013	2:30 PM	W	8	X	X	X	X	X	X	X	X				009
MW-5 DEEP	MW-5 DEEP_20130911	9/11/2013	1:30 PM	W	8	X	X	X	X	X	X	X	X				010
MW-5 SHALLOW	MW-5 SHALLOW_20130911	9/11/2013	1:25 PM	W	8	X	X	X	X	X	X	X	X				011
FB-LAB	FB-LAB_20130911	9/11/2013	4:20 PM	W	8	X	X	X	X	X	X	X	X				012

Relinquished By: *signature*	Date	Time	Received By: *signature*	Date	Time	Special Instructions
[signature]	9/12/13	14:00	[signature] MCH/PSA	9/13	1040	
Relinquished By: *signature*	Date	Time	Received By: *signature*		Time	
Relinquished By: *signature*	Date	Time	Received By: *signature*		Time	
Relinquished By: *signature*	Date	Time	Received By: *signature*		Time	

FLD-002

Chain of Custody

Pace Analytical®
www.pacelabs.com

Workorder: 60153027 **Workorder Name:**AUGUST 2013 RICO WATER SAMPLIN **Owner Received Date:** 9/13/2013 **Results Requested By:** 9/27/2013

Report To	Subcontract To
Heather Wilson Pace Analytical Services, Inc. 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665 Fax (913)599-1759	Pace Analytical Billings MT 602 S 25th Street Billings, MT, MT 591014549 Phone (406) 254-7226

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: none	Requested Analysis	10242386 LAB USE ONLY
1	DR-3_20130911	PS	9/11/2013 15:35	60153027001	Water	1	X	001
2	DR-5_20130911	PS	9/11/2013 15:25	60153027002	Water	1	X	002
3	DR-G_20130911	PS	9/11/2013 10:25	60153027003	Water	1	X	003
4	DR-8_20130911	PS	9/11/2013 10:30	60153027004	Water	1	X	004
5	DR-9_20130911	PS	9/11/2013 15:36	60153027005	Water	1	X	005
6	GW-1_20130911	PS	9/11/2013 11:35	60153027006	Water	1	X	006
7	GW-5_20130911	PS	9/11/2013 12:40	60153027007	Water	1	X	007
8	MW-104_20130911	PS	9/11/2013 15:03	60153027008	Water	1	X	008
9	MW-4 DEEP_20130911	PS	9/11/2013 14:30	60153027009	Water	1	X	009
10	MW-5 DEEP_20130911	PS	9/11/2013 13:30	60153027010	Water	1	X	010
11	MW-5 SHALLOW_20130911	PS	9/11/2013 13:25	60153027011	Water	1	X	011
12	FB-LAB_20130911	PS	9/11/2013 16:20	60153027012	Water	1	X	012

Transfers	Released By	Date/Time	Received By	Date/Time
1	[illegible]	9/13/13 1700		
2	Fed Ex	9/18/13 10:15	Sherri Cline	9/18/13 10:15
3				

Comments: No J flags

Cooler Temperature on Receipt 5.2 °C Custody Seal Y or (N) Received on Ice (Y) or N Samples Intact (Y) or N

Pace Analytical	Document Name: **Sample Condition Upon Receipt Form**	Document Revised: 14Nov2012 Page 1 of 1
	Document No.: **F-MT-C-184-rev.02**	Issuing Authority: Pace Montana Quality Office

Sample Condition Upon Receipt

Client Name: Pace KS

Project #: WO#: 10242386

10242386

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

Tracking Number: 5689 1278 4592

Custody Seal on Cooler/Box Present? ☑ Yes ☐ No **Seals Intact?** ☑ Yes ☐ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other: _____ **Temp Blank?** ☑ Yes ☐ No

Thermometer Used: ☑ 1383045 ☐ 135 ☐ NA **Type of Ice:** ☑ Wet ☐ Blue ☐ None ☐ Samples on ice, cooling process has begun

Cooler Temp Read: 5.2 **Date and Initials of Person Examining Contents:** 9-18-13 SC

Cooler Temp Corrected: 5.2 **Biological Tissue Frozen?** ☐ Yes ☑ No

Temp should be above freezing to 6°C

				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 and Signature on COC?	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ 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.
Filtered Volume Received for Dissolved Tests?	☐ Yes	☑ No	☐ N/A	11.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	12.
-Includes Date/Time/ID/Analysis Matrix: H2O				
All containers needing acid/base preservation have been checked? Noncompliances are noted in 13.	☐ Yes	☐ No	☑ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl<2; NaOH>12)	☐ Yes	☐ No	☑ N/A	
Exceptions: VOA, Coliform, TOC, Oil and Grease, WI-DRO (water)	☐ Yes	☑ No		Initial when completed: _____ Lot # of added preservative: _____
Samples checked for dechlorination?	☐ Yes	☐ No	☑ N/A	14.
Headspace in VOA Vials (>6mm)?	☐ Yes	☐ No	☑ N/A	15.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	16.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	
Pace Trip Blank Lot # (if purchased): _____				

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: _____ **Date:** 9-18-13

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)

Chain of Custody

10242469

Pace Analytical®
www.pacelabs.com

Workorder: 60153027 **Workorder Name:** AUGUST 2013 RICO WATER SAMPLIN **Owner Received Date:** 9/13/2013 **Results Requested By:** 9/27/2013

Report To	Subcontract To
Heather Wilson Pace Analytical Services, Inc. 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665 Fax (913)599-1759	Pace Analytical Minnesota 1700 Elm Street Suite 200 Minneapolis, MN 55414 Phone (612)607-1700

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: HNO3						Requested Analysis: 200.8 Metals + Hardness + Silica	200.8 Dissolved Metals	245.1 Total Mercury	245.1 Dissolved Mercury									LAB USE ONLY
1	DR-3_20130911	PS	9/11/2013 15:35	60153027001	Water	2						X	X	X	X									
2	DR-5_20130911	PS	9/11/2013 15:25	60153027002	Water	2						X	X	X	X									
3	DR-G_20130911	PS	9/11/2013 10:25	60153027003	Water	2						X	X	X	X									
4	DR-8_20130911	PS	9/11/2013 10:30	60153027004	Water	2						X	X	X	X									
5	DR-9_20130911	PS	9/11/2013 15:36	60153027005	Water	2						X	X	X	X									
6	GW-1_20130911	PS	9/11/2013 11:35	60153027006	Water	2						X	X	X	X									
7	GW-5_20130911	PS	9/11/2013 12:40	60153027007	Water	2						X	X	X	X									
8	MW-104_20130911	PS	9/11/2013 15:03	60153027008	Water	2						X	X	X	X									
9	MW-4 DEEP_20130911	PS	9/11/2013 14:30	60153027009	Water	2						X	X	X	X									
10	MW-5 DEEP_20130911	PS	9/11/2013 13:30	60153027010	Water	2						X	X	X	X									
11	MW-5 SHALLOW_20130911	PS	9/11/2013 13:25	60153027011	Water	2						X	X	X	X									
12	FB-LAB_20130911	PS	9/11/2013 16:20	60153027012	Water	2						X	X	X	X									

Transfers	Released By	Date/Time	Received By	Date/Time
1	[signature]	9/13/13 1700	[signature] PACE	9-13-13 0900
2				
3				

Comments

Cooler Temperature on Receipt 13.6 °C **Custody Seal** Y or N **Received on Ice** Y or N **Samples Intact** Y or N

Pace Analytical	Document Name: Sample Condition Upon Receipt Form	Document Revised: 28Jan2013 Page 1 of 1
	Document No.: F-MN-L-213-rev.06	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: Pace - KS

Project #: WO#: 10242469

10242469

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

Tracking Number: 5089 1278 4418

Custody Seal on Cooler/Box Present? ☒ Yes ☐ No **Seals Intact?** ☒ Yes ☐ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other: **Temp Blank?** ☐ Yes ☒ No

Thermom. Used: ☒ B88A912167504 ☐ 80512447 ☐ 72337080 Type of Ice: ☒ Wet ☐ Blue ☐ None ☐ Samples on ice, cooling process has begun

Cooler Temp Read (°C): 13.1 **Cooler Temp Corrected (°C):** 13.6 **Biological Tissue Frozen?** ☐ Yes ☐ No

Temp should be above freezing to 6°C **Correction Factor:** +.5 **Date and Initials of Person Examining Contents:** CB 9-18-13

				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 and/or Signature on COC?	☒ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☒ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ 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.
Filtered Volume Received for Dissolved Tests?	☒ Yes	☐ No	☐ N/A	11.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WT	☒ Yes	☐ No	☐ N/A	12.
All containers needing acid/base preservation have been checked? Noncompliances are noted in 13.	☒ Yes	☐ No	☐ N/A	13. ☒ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl<2; NaOH>12)	☒ Yes	☐ No	☐ N/A	Sample # 1-12 2/2
Exceptions: VOA, Coliform, TOC, Oil and Grease, WI-DRO (water)	☐ Yes	☒ No		Initial when completed: Lot # of added preservative:
Headspace in VOA Vials (>6mm)?	☐ Yes	☐ No	☒ N/A	14.
Trip Blank Present?	☐ Yes	☐ No	☒ N/A	15.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☒ N/A	
Pace Trip Blank Lot # (if purchased):				

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution: Temp ok for metals

Project Manager Review: Kalen Xiong **Date:** 9/19/13

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)

Chain of Custody

4084990

Pace Analytical®
www.pacelabs.com

Workorder: 60153027 **Workorder Name:** AUGUST 2013 RICO WATER SAMPLIN **Owner Received Date:** 9/13/2013 **Results Requested By:** 9/27/2013

Report To	Subcontract To
Heather Wilson Pace Analytical Services, Inc. 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665 Fax (913)599-1759	Pace Analytical Green Bay 1241 Bellevue Street Suite 9 Green Bay, WI 54302 Phone (920)469-2436

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: H2SO4						Requested Analysis: 5310C TOC												LAB USE ONLY
1	DR-3_20130911	PS	9/11/2013 15:35	60153027001	Water	1						X												001 1-250mLagC
2	DR-5_20130911	PS	9/11/2013 15:25	60153027002	Water	1						X												002
3	DR-G_20130911	PS	9/11/2013 10:25	60153027003	Water	1						X												003
4	DR-8_20130911	PS	9/11/2013 10:30	60153027004	Water	1						X												004
5	DR-9_20130911	PS	9/11/2013 15:36	60153027005	Water	1						X												005
6	GW-1_20130911	PS	9/11/2013 11:35	60153027006	Water	1						X												006
7	GW-5_20130911	PS	9/11/2013 12:40	60153027007	Water	1						X												007
8	MW-104_20130911	PS	9/11/2013 15:03	60153027008	Water	1						X												008
9	MW-4 DEEP_20130911	PS	9/11/2013 14:30	60153027009	Water	1						X												009
10	MW-5 DEEP_20130911	PS	9/11/2013 13:30	60153027010	Water	1						X												010
11	MW-5 SHALLOW_20130911	PS	9/11/2013 13:25	60153027011	Water	1						X												011
12	FB-LAB_20130911	PS	9/11/2013 16:20	60153027012	Water	1						X												012

Transfers	Released By	Date/Time	Received By	Date/Time
1	[signature] Pace	9/12/13 1700		
2	Fedex	9-18-13 10:40	[signature]	9-18-13 10:40
3				

Comments

No J flags
Use Profile #4099

Cooler Temperature on Receipt 5 °C **Custody Seal** Y or N **Received on Ice** Y or N **Samples Intact** Y or N

Pace Analytical Servi
1241 Bellevue Street,
Green Bay, WI

Pace Analytical™

Sample Condition Upon Receipt

Client Name: Pace Kansas Project # 4084990

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

Tracking #: 5689 1278 4802

Custody Seal on Cooler/Box Present: ☑ yes ☐ no Seals intact: ☑ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other _____

Thermometer Used SR-45 Type of Ice: (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 5°C /Corr: 5°C Biological Tissue is Frozen: ☐ yes ☐ no

Temp Blank Present: ☑ yes ☐ no

Person examining contents
Date: 9-18-13
Initials: ZCB

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

		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 Hold Time:	☑Yes ☐No ☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<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	
-Pace IR Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☐Yes ☐No ☑N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAc
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	☐Yes ☐No ☑N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	☑Yes ☐No	Initial when completed / Lab Std #ID of preservative / Date/Time:
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	14.
Trip Blank Present:	☐Yes ☐No ☑N/A	15.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):		

If checked, see attached form for additional comments

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: Cke Date: 9/19/13

Pace Analytical®
www.pacelabs.com

Sample Condition Upon Receipt
ESI Tech Spec Client

WO#: 60153115
60153115

Client Name: BP- Anderson

Optional
Proj Due Date:
Proj Name:

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

Tracking #: 1Z 733 W87 64 4873 0925 4725 4933 4870 5770 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: 2.5, 4.3, 3.1

Date and initials of person examining contents: JW 9/14/13 945

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: water	☑Yes ☐No ☐N/A	13.	MW-4 Deep not received.
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 JW	Lot # of added preservative
Trip Blank present: Pace Trip Blank lot # (if purchased): NA	☐Yes ☐No ☑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:	

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: mw for (HMW) Date: 9/16/13

Temp Log: Record start and finish times when unpacking cooler, if >20 min, recheck sample temps.	
Start: 930	Start:
End: 945	End:
Temp:	Temp:

ANDERSON
ENGINEERING COMPANY INC.

977 West 2100 South
Salt Lake City, UT 84119
(801) 972-6222
FAX (801) 972-6235

CHAIN OF CUSTODY RECORD

COC# _____
Page 1 of 1

Client: BP
Project: August 2013 Rico Water Sampling
AECI Contact: Mark DeFriez (801) 234-9583

Lab Name: Pace Analytical Services
Lab Contact: Heather Wilson, (913) 563-1407
Lab Address: 9608 Loiret Blvd.
Lenexa, KS 66219

Matrix Codes
(W) Water
(S) Soil
(L) Liquid

QC: (circle one)
I II III IV

Field Location	Field Sample ID Number	Date	Time	Matrix	No. of Containers	Total	Potentially Dissolved Metals	Dissolved Metals	Alkalinity / TDS / TSS / Sulfate / Chloride	Cyanide	Salinity	Total Organic Carbon / Nitrate	Sulfide	COMMENTS	
DR-4	DR-4_20130912	9/12/2013	10:10 AM	W	8	X	X	X	X	X	X	X	X	2(BP3N) 1.5 1(BP3F) 1.5 1(BP2N) 1(BP3N) 1(BP3C) 1.2 1(BP3Z) 1.2 1(AG2S)	001
GW-6	GW-6_20130912	9/12/2013	10:40 AM	W	8	X	X	X	X	X	X	X	X		002
EB-1	EB-1_20130912	9/12/2013	11:30 AM	W	8	X	X	X	X	X	X	X	X	~~2BP~~	003
EB-2	EB-2_20130912	9/12/2013	10:00 AM	W	8	X	X	X	X	X	X	X	X		004
MW-103	MW-103_20130912	9/12/2013	3:17 PM	W	8	X	X	X	X	X	X	X	X		005
P13-102	P13-102_20130912	9/12/2013	1:02 PM	W	8	X	X	X	X	X	X	X	X		006
P13-103	P13-103_20130912	9/12/2013	12:42 PM	W	8	X	X	X	X	X	X	X	X		007
MW-1 DEEP	MW-1 DEEP_20130912	9/12/2013	12:20 PM	W	8	X	X	X	X	X	X	X	X		008
MW-1 SHALLOW	MW-1 SHALLOW_20130912	9/12/2013	12:15 PM	W	8	X	X	X	X	X	X	X	X		009
MW-2 DEEP	MW-2 DEEP_20130912	9/12/2013	3:37 PM	W	8	X	X	X	X	X	X	X	X		010
MW-3 DEEP	MW-3 DEEP_20130912	9/12/2013	4:00 PM	W	8	X	X	X	X	X	X	X	X		011
MW-4 SHALLOW	MW-4 SHALLOW	9/12/2013	11:40 AM	W	8	X	X	X	X	X	X	X	X		012
MW-4 DEEP	MW-4 DEEP_20130912	9/12/2013	3:20 PM	W	8	X	X	X	X	X	X	X	X		
DR-10	DR-10_20130912	9/12/2013	3:20 PM	W	8	X	X	X	X	X	X	X	X	2(BP3N) 1.5 1(BP3F) 1.5 1(BP2N) 1(BP3N) 1(BP3C) 1.2 1(BP3Z) 1.2 1(AG3S)	013
GW-3	GW-3_20130912	9/12/2013	9:40 AM	W	8	X	X	X	X	X	X	X	X		014

Relinquished By: *signature*	Date	Time	Received By: *signature*	Date	Time	Special Instructions
Alberto Ogren	9/13/13 ~~1400~~	1400	[illegible]	9/14/13	905	2.5, 4.3, 3.1 °C
Relinquished By: *signature*	Date	Time	Received By: *signature*		Time	
Relinquished By: *signature*	Date	Time	Received By: *signature*		Time	
Relinquished By: *signature*	Date	Time	Received By: *signature*		Time	

FLD-002

Chain of Custody

Pace Analytical®
www.pacelabs.com

Workorder: 60153115 **Workorder Name:** August 2013 Rico Water **Owner Received Date:** 9/14/2013 **Results Requested By:** 9/30/2013

Report To	Subcontract To
Heather Wilson Pace Analytical Services, Inc. 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665 Fax (913)599-1759	Pace Analytical Billings MT 602 S 25th Street Billings, MT, MT 591014549 Phone (406) 254-7226

Requested Analysis

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: none	Salinity	LAB USE ONLY (10242417)
1	DR-4	PS	9/12/2013 10:10	60153115001	Water	1	X	001
2	GW-6	PS	9/12/2013 10:40	60153115002	Water	1	X	002
3	EB-1	PS	9/12/2013 11:30	60153115003	Water	1	X	003
4	EB-2	PS	9/12/2013 10:00	60153115004	Water	1	X	004
5	MW-103	PS	9/12/2013 15:17	60153115005	Water	1	X	005
6	P13-102	PS	9/12/2013 13:02	60153115006	Water	1	X	006
7	P13-103	PS	9/12/2013 12:42	60153115007	Water	1	X	007
8	MW-1 DEEP	PS	9/12/2013 12:20	60153115008	Water	1	X	008
9	MW-1 SHALLOW	PS	9/12/2013 12:15	60153115009	Water	1	X	009
10	MW-2 DEEP	PS	9/12/2013 15:37	60153115010	Water	1	X	010
11	MW-3 DEEP	PS	9/12/2013 16:00	60153115011	Water	1	X	~~012~~ 011
12	MW-4 SHALLOW	PS	9/12/2013 11:40	60153115012	Water	1	X	012
13	D R - 1 0	PS	9/12/13 15:20	60153115013	Water	1	X	013
14	GW-3	PS	9/12/2013 09:40	60153115014	Water	1	X	014

Transfers	Released By	Date/Time	Received By	Date/Time
1	[signature]	9/17/13 1700		
2	[signature] Fed Ex	9/18/13 10:15	Sherri Chui	9/18/13 10:15
3				

Comments: No J flags

Cooler Temperature on Receipt 5.2 °C Custody Seal Y or (N) Received on Ice (Y) or N Samples Intact (Y) or N

Pace Analytical	Document Name: **Sample Condition Upon Receipt Form**	Document Revised: 14Nov2012 Page 1 of 1
	Document No.: **F-MT-C-184-rev.02**	Issuing Authority: Pace Montana Quality Office

Sample Condition Upon Receipt

Client Name: Pace KS

Project #: WO#: 10242417

10242417

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

Tracking Number: 5689 1278 4592

Custody Seal on Cooler/Box Present? ☑ Yes ☐ No **Seals Intact?** ☑ Yes ☐ No **Optional:** Proj. Due Date: Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other: **Temp Blank?** ☑ Yes ☐ No

Thermometer Used: ☑ 1383045 ☐ 135 ☐ NA **Type of Ice:** ☑ Wet ☐ Blue ☐ None ☐ Samples on ice, cooling process has begun

Cooler Temp Read: 5.2 **Date and Initials of Person Examining Contents:** 9-18-13 SC

Cooler Temp Corrected: 5.2 **Biological Tissue Frozen?** ☐ Yes ☑ No

Temp should be above freezing to 6°C

				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 and Signature on COC?	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ 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.
Filtered Volume Received for Dissolved Tests?	☐ Yes	☑ No	☐ N/A	11.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	12.
-Includes Date/Time/ID/Analysis Matrix: H2O				
All containers needing acid/base preservation have been checked? Noncompliances are noted in 13.	☐ Yes	☐ No	☑ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl<2; NaOH>12)	☐ Yes	☐ No	☑ N/A	
Exceptions: VOA, Coliform, TOC, Oil and Grease, WI-DRO (water)	☐ Yes	☑ No		Initial when completed: Lot # of added preservative:
Samples checked for dechlorination?	☐ Yes	☐ No	☑ N/A	14.
Headspace in VOA Vials (>6mm)?	☐ Yes	☐ No	☑ N/A	15.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	16.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	
Pace Trip Blank Lot # (if purchased):				

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: **Date:** 9-19-13

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)

Chain of Custody

10242465

Pace Analytical®
www.pacelabs.com

Workorder: 60153115 **Workorder Name:** August 2013 Rico Water **Owner Received Date:** 9/14/2013 **Results Requested By:** 9/30/2013

Report To	Subcontract To
Heather Wilson Pace Analytical Services, Inc. 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665 Fax (913)599-1759	Pace Analytical Minnesota 1700 Elm Street Suite 200 Minneapolis, MN 55414 Phone (612)607-1700

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: HNO3						Requested Analysis: 200.8 Metals + Hardness + Silica	200.8 Dissolved Metals	245.1 Total Mercury	245.1 Dissolved Mercury									LAB USE ONLY
1	DR-4	PS	9/12/2013 10:10	60153115001	Water	2						X	X	X	X									
2	GW-6	PS	9/12/2013 10:40	60153115002	Water	2						X	X	X	X									
3	EB-1	PS	9/12/2013 11:30	60153115003	Water	2						X	X	X	X									
4	EB-2	PS	9/12/2013 10:00	60153115004	Water	2						X	X	X	X									
5	MW-103	PS	9/12/2013 15:17	60153115005	Water	2						X	X	X	X									
6	P13-102	PS	9/12/2013 13:02	60153115006	Water	2						X	X	X	X									
7	P13-103	PS	9/12/2013 12:42	60153115007	Water	2						X	X	X	X									
8	MW-1 DEEP	PS	9/12/2013 12:20	60153115008	Water	2						X	X	X	X									
9	MW-1 SHALLOW	PS	9/12/2013 12:15	60153115009	Water	2						X	X	X	X									
10	MW-2 DEEP	PS	9/12/2013 15:37	60153115010	Water	2						X	X	X	X									
11	MW-3 DEEP	PS	9/12/2013 16:00	60153115011	Water	2						X	X	X	X									
12	MW-4 SHALLOW	PS	9/12/2013 11:40	60153115012	Water	2						X	X	X	X									
13	D R - 1 0	PS	9/12/13 15:20	60153115013	Water	2						X	X	X	X									
14	GW-3	PS	9/12/2013 09:40	60153115014	Water	2						X	X	X	X									

Transfers	Released By	Date/Time	Received By	Date/Time
1	[signature]	9/17/13 1700	[signature] PACE	9-18-13 0900
2				
3				

Comments
Use Profile 26985
No J flags

Cooler Temperature on Receipt 13.2 °C **Custody Seal** Y or N **Received on Ice** Y or N **Samples Intact** Y or N

Pace Analytical	Document Name: **Sample Condition Upon Receipt Form**	Document Revised: 28Jan2013 Page 1 of 1
	Document No.: **F-MN-L-213-rev.06**	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: Pace-KS

Project #: WO#: 10242465

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other:_____

Tracking Number: 5089 1278 4418

Custody Seal on Cooler/Box Present? ☒ Yes ☐ No **Seals Intact?** ☒ Yes ☐ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other:_____ **Temp Blank?** ☐ Yes ☒ No

Thermom. Used: ☒ B88A912167504 ☐ 80512447 ☐ 72337080 **Type of Ice:** ☒ Wet ☐ Blue ☐ None ☐ Samples on ice, cooling process has begun

Cooler Temp Read (°C): 13.1 **Cooler Temp Corrected (°C):** 13.6 **Biological Tissue Frozen?** ☐ Yes ☐ No

Temp should be above freezing to 6°C **Correction Factor:** +.5 **Date and Initials of Person Examining Contents:** CB 9-18-13

				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 and/or Signature on COC?	☒ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☒ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ 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.
Filtered Volume Received for Dissolved Tests?	☒ Yes	☐ No	☐ N/A	11.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WT	☒ Yes	☐ No	☐ N/A	12.
All containers needing acid/base preservation have been checked? Noncompliances are noted in 13.	☒ Yes	☐ No	☐ N/A	13. ☒ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl Sample # 1-14 2/2
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl<2; NaOH>12)	☒ Yes	☐ No	☐ N/A	
Exceptions: VOA, Coliform, TOC, Oil and Grease, WI-DRO (water)	☐ Yes	☒ No		Initial when completed:_____ Lot # of added preservative:_____
Headspace in VOA Vials (>6mm)?	☐ Yes	☐ No	☒ N/A	14.
Trip Blank Present?	☐ Yes	☐ No	☒ N/A	15.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☒ N/A	
Pace Trip Blank Lot # (if purchased):_____				

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: Temp on for metals.

Project Manager Review: Karen Xiong **Date:** 9/19/13

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)

Chain of Custody

4084997

Pace Analytical
www.pacelab.com

VMLS

Workorder: 60153115 **Workorder Name:** August 2013 Rico Water **Owner Received Date:** 9/14/2013 **Results Requested By:** 9/30/2013

Report To	Subcontract To
Heather Wilson Pace Analytical Services, Inc. 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665 Fax (913)599-1759	Pace Analytical Green Bay 1241 Bellevue Street Suite 9 Green Bay, WI 54302 Phone (920)469-2436

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: H2SO4						Requested Analysis: 5310C TOC												LAB USE ONLY
1	DR-4	PS	9/12/2013 10:10	60153115001	Water	1						X												001 1-250mlbg
2	GW-6	PS	9/12/2013 10:40	60153115002	Water	1						X												002
3	EB-1	PS	9/12/2013 11:30	60153115003	Water	1						X												003
4	EB-2	PS	9/12/2013 10:00	60153115004	Water	1						X												004
5	MW-103	PS	9/12/2013 15:17	60153115005	Water	1						X												005
6	P13-102	PS	9/12/2013 13:02	60153115006	Water	1						X												006
7	P13-103	PS	9/12/2013 12:42	60153115007	Water	1						X												007
8	MW-1 DEEP	PS	9/12/2013 12:20	60153115008	Water	1						X												008
9	MW-1 SHALLOW	PS	9/12/2013 12:15	60153115009	Water	1						X												009
10	MW-2 DEEP	PS	9/12/2013 15:37	60153115010	Water	1						X												010
11	MW-3 DEEP	PS	9/12/2013 16:00	60153115011	Water	1						X												011
12	MW-4 SHALLOW	PS	9/12/2013 11:40	60153115012	Water	1						X												012
13	D R - 1 0	PS	9/12/13 15:20	60153115013	Water	1						X												013
14	GW-3	PS	9/12/2013 09:40	60153115014	Water	1						X												014

Transfers	Released By	Date/Time	Received By	Date/Time
1	[illegible]	9/17/13 1700		
2	FedEx	9/18/13 1040	[illegible]	9/18/13 1040
3				

Comments

No J flags
Use Profile #4099

Cooler Temperature on Receipt 5 °C **Custody Seal** Y or N **Received on Ice** Y or N **Samples Intact** Y or N

Pace Analytical Servic
1241 Bellevue Street,
Green Bay, WI

Pace Analytical™

Sample Condition Upon Receipt

Client Name: Pace Kansas Project # 4084991

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

Tracking #: 5689 1278 4802

Custody Seal on Cooler/Box Present: ☑ yes ☐ no Seals intact: ☑ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

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

Thermometer Used SR-45 Type of Ice: (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 5°C /Corr: 5°C Biological Tissue is Frozen: ☐ yes ☐ no

Temp Blank Present: ☑ yes ☐ no

Person examining contents
Date: 9-18-13
Initials: ZCB

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

		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 Hold Time:	☑Yes ☐No ☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<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	
-Pace IR Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☐Yes ☐No ☑N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAc
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	☐Yes ☐No ☑N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	☑Yes ☐No	Initial when completed / Lab Std #ID of preservative / Date/Time:
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	14.
Trip Blank Present:	☐Yes ☐No ☑N/A	15.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):		

If checked, see attached form for additional comments

Client Notification/ Resolution:

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: Date: 9/18/13

Pace Analytical
www.pacelabs.com

Sample Condition Upon Receipt
ESI Tech Spec Client

WO#: 60154287
60154287

1Z733W8184483613813, 1Z733W8184496986

Client Name: BP Anderson

Optional
Proj Due Date:
Proj Name:

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

Tracking #: 1Z733W8784482377 90 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 (circle one) ☐ Samples received on ice, cooling process has begun.

Cooler Temperature: 1.7, 4.1, 3.5

Temperature should be above freezing to 6°C

Date and initials of person examining contents: 9/28/13

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: WT	☑Yes ☐No ☐N/A	13.
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	BAH-01_20130926 Both BP3N initial ph 4-0, added 25 mL HNO3, final ph 1.5
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 12510-1-3
Trip Blank present: Pace Trip Blank lot # (if purchased):	☐Yes ☐No ☑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:

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

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: Amw Date: 9/30/13

Temp Log: Record start and finish times when unpacking cooler, if >20 min, recheck sample temps

Start: 1355	Start:
End: 1415	End:
Temp:	Temp:

ANDERSON
ENGINEERING COMPANY INC.

977 West 2100 South
Salt Lake City, UT 84119
(801) 972-6222
FAX (801) 972-6235

CHAIN OF CUSTODY RECORD

COC# 00154267
Page 1 of 1

Client: BP
Project: September 2013 Rico Water Sampling
AECI Contact Mark DeFriez (801) 234-9583

Lab Name: Pace Analytical Services
Lab Contact: Heather Wilson, (913) 563-1407
Lab Address: 9608 Loiret Blvd.
Lenexa, KS 66219

Matrix Codes
(W) Water
(S) Soil
(L) Liquid

QC: (circle one)
I II III IV

Field Location	Field Sample ID Number	Date	Time	Matrix	No. of Containers	Total Metals / Hardness / Silica	Potentially Dissolved Metals	Dissolved Metals	Alkalinity / TDS / TSS / Sulfate / Chloride	Cyanide	Salinity	Total Organic Carbon / Nitrate	Sulfide			COMMENTS	
	AG3S, BP3U MW-4DEEP_20130927 BP3U, BP3Z 12.0	9/27/2013	9:46 AM	W	8	X	X	X	X	X	X	X	X	BP3C 12.0	2BP3N 1.5	BP3F 1.5	001
	MW-101_20130927	9/27/2013	10:57 AM	W	8	X	X	X	X	X	X	X	X				002
	MW-102_20130927	9/27/2013	10:29 AM	W	8	X	X	X	X	X	X	X	X				003
	MW-6 DEEP_20130927	9/27/2013	10:09 AM	W	8	X	X	X	X	X	X	X	X				004
	CHV-101 S_20130926	9/26/2013	4:15 PM	W	8	X	X	X	X	X	X	X	X				005
	AT-2_20130926	9/26/2013	3:35 PM	W	8	X	X	X	X	X	X	X	X				006
	BAH-01_20130926	9/26/2013	3:20 PM	W	8	X	X	X	X	X	X	X	X				007
	FB-FIELD_20130926	9/26/2013	3:45 PM	W	8	X	X	X	X	X	X	X	X				008
	DR-6_20130927	9/27/2013	11:21 AM	W	8	X	X	X	X	X	X	X	X				009
	DR-11_20130927	9/27/2013	11:23 AM	W	8	X	X	X	X	X	X	X	X				010
	GW-7_20130927	9/27/2013	10:01 AM	W	8	X	X	X	X	X	X	X	X				011
	MW-6 SHALLOW_20130927	9/27/2013	10:06 AM	W	8	X	X	X	X	X	X	X	X				012
	GW-4_20130927	9/27/2013	11:13 AM	W	8	X	X	X	X	X	X	X	X				013

Relinquished By: *signature*	Date	Time	Received By: *signature*		Time	Special Instructions
	9/27/13	2:05 PM	E Brockett / Pace	9/28/13	0925	1.7°, 4.1°, 3.5°
Relinquished By: *signature*	Date	Time	Received By: *signature*		Time	
Relinquished By: *signature*	Date	Time	Received By: *signature*		Time	
Relinquished By: *signature*	Date	Time	Received By: *signature*		Time	

FLD-002

Chain of Custody

Pace Analytical®
www.pacelabs.com

Workorder: 60154287 **Workorder Name:** September 2013 Rico Water Samp **Owner Received Date:** 9/28/2013 **Results Requested By:** 10/14/2013

Report To

Heather Wilson
Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
Phone (913)599-5665
Fax (913)599-1759

Subcontract To

Pace Analytical Billings MT
602 S 25th Street
Billings, MT, MT 591014549
Phone (406) 254-7226

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: none	Requested Analysis: Salinity	LAB USE ONLY (10244095)
1	MW-4DEEP_20130927	PS	9/27/2013 09:46	60154287001	Water	1	X	001
2	MW-101_20130927	PS	9/27/2013 10:57	60154287002	Water	1	X	002
3	MW-102_20130927	PS	9/27/2013 10:29	60154287003	Water	1	X	003
4	MW-6 DEEP_20130927	PS	9/27/2013 10:09	60154287004	Water	1	X	004
5	CHV-101 S_20130926	PS	9/26/2013 16:15	60154287005	Water	1	X	005
6	AT-2_20130926	PS	9/26/2013 15:35	60154287006	Water	1	X	006
7	BAH-01_20130926	PS	9/26/2013 15:20	60154287007	Water	1	X	007
8	FB-FIELD_20130926	PS	9/26/2013 15:45	60154287008	Water	1	X	008
9	DR-6_20130927	PS	9/27/2013 11:21	60154287009	Water	1	X	009
10	DR-11_20130927	PS	9/27/2013 11:23	60154287010	Water	1	X	010
11	GW-7_20130927	PS	9/27/2013 10:01	60154287011	Water	1	X	011
12	MW-6 SHALLOW_201 30927	PS	9/27/2013 10:06	60154287012	Water	1	X	012
13	GW-4_20130927	PS	9/27/2013 11:13	60154287013	Water	1	X	013

Transfers	Released By	Date/Time	Received By	Date/Time
1	[illegible] Pace	10/1/13 1700	[illegible] Pace	10/2/13 0955
2				
3				

Comments

No J flags

Cooler Temperature on Receipt 0.2 °C **Custody Seal** Y or N **Received on Ice** Y or N **Samples Intact** Y or N

Pace Analytical	Document Name: **Sample Condition Upon Receipt Form**	Document Revised: 14Nov2012 Page 1 of 1
	Document No.: **F-MT-C-184-rev.02**	Issuing Authority: Pace Montana Quality Office

Sample Condition Upon Receipt

Client Name: Pace - KS

Project #: WO#: 10244095

10244095

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

Tracking Number: 5689 1278 6312

Custody Seal on Cooler/Box Present? ☑ Yes ☐ No **Seals Intact?** ☑ Yes ☐ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other: _____ **Temp Blank?** ☑ Yes ☐ No

Thermometer Used: ☑ 1383045 ☐ 135 ☐ NA **Type of Ice:** ☑ Wet ☐ Blue ☐ None ☑ Samples on ice, cooling process has begun

Cooler Temp Read: 0.2 **Date and Initials of Person Examining Contents:** KKS 10/2/13

Cooler Temp Corrected: 0.2 **Biological Tissue Frozen?** ☐ Yes ☑ No

Temp should be above freezing to 6°C

				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 and Signature on COC?	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☑ No	☐ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	7. Requested by 10/14/13
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.
Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☑ N/A	11.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: H_2O	☑ Yes	☐ No	☐ N/A	12.
All containers needing acid/base preservation have been checked? Noncompliances are noted in 13.	☐ Yes	☐ No	☑ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl<2; NaOH>12)	☐ Yes	☐ No	☑ N/A	
Exceptions: VOA, Coliform, TOC, Oil and Grease, WI-DRO (water)	☐ Yes	☑ No		Initial when completed: _____ Lot # of added preservative: _____
Samples checked for dechlorination?	☐ Yes	☐ No	☑ N/A	14.
Headspace in VOA Vials (>6mm)?	☐ Yes	☐ No	☑ N/A	15.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	16.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	
Pace Trip Blank Lot # (if purchased): _____				

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: [signature] **Date:** 10-2-13

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)

Chain of Custody

1226 10244264

Pace Analytical®
www.pacelabs.com

Workorder: 60154287 **Workorder Name:** September 2013 Rico Water Samp **Owner Received Date:** 9/28/2013 **Results Requested By:** 10/14/2013

Report To	Subcontract To
Heather Wilson Pace Analytical Services, Inc. 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665 Fax (913)599-1759	Pace Analytical Minnesota 1700 Elm Street Suite 200 Minneapolis, MN 55414 Phone (612)607-1700

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: HNO3						Requested Analysis: 200.8 Total Metal + Hardness + Silica	200.8 Dissolved Metals	245.1 Total Mercury	245.1 Dissolved Mercury									LAB USE ONLY
1	MW-4DEEP_20130927	PS	9/27/2013 09:46	60154287001	Water	2						X	X	X	X									001
2	MW-101_20130927	PS	9/27/2013 10:57	60154287002	Water	2						X	X	X	X									002
3	MW-102_20130927	PS	9/27/2013 10:29	60154287003	Water	2						X	X	X	X									003
4	MW-6 DEEP_20130927	PS	9/27/2013 10:09	60154287004	Water	2						X	X	X	X									004
5	CHV-101 S_20130926	PS	9/26/2013 16:15	60154287005	Water	2						X	X	X	X									005
6	AT-2_20130926	PS	9/26/2013 15:35	60154287006	Water	2						X	X	X	X									006
7	BAH-01_20130926	PS	9/26/2013 15:20	60154287007	Water	2						X	X	X	X									007
8	FB-FIELD_20130926	PS	9/26/2013 15:45	60154287008	Water	2						X	X	X	X									008
9	DR-6_20130927	PS	9/27/2013 11:21	60154287009	Water	2						X	X	X	X									009
10	DR-11_20130927	PS	9/27/2013 11:23	60154287010	Water	2						X	X	X	X									010
11	GW-7_20130927	PS	9/27/2013 10:01	60154287011	Water	2						X	X	X	X									011
12	MW-6 SHALLOW_201 30927	PS	9/27/2013 10:06	60154287012	Water	2						X	X	X	X									012
13	GW-4_20130927	PS	9/27/2013 11:13	60154287013	Water	2						X	X	X	X									013

Transfers	Released By	Date/Time	Received By	Date/Time
1	[signature]	9/27/13 1700	GB Pace	9:00 10/2/13
2				

Comments: Use Profile 26985
No J flags

Cooler Temperature on Receipt 13.0 °C Custody Seal Y or N Received on Ice Y or N Samples Intact Y or N

Pace Analytical	Document Name: **Sample Condition Upon Receipt Form**	Document Revised: 19Sep2013 Page 1 of 1
	Document No.: **F-MN-L-213-rev.07**	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: Pace KS

Project #: WO#: 10244264

10244264

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

Tracking Number: 5689 1278 6301

Custody Seal on Cooler/Box Present? ☑ Yes ☐ No **Seals Intact?** ☑ Yes ☐ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other: **Temp Blank?** ☐ Yes ☐ No

Thermom. Used: ☐ 80512447 ☐ 72337080 ☐ B88A912167504 ☐ B88A9132521491 **Type of Ice:** GB 10/2/13 ☑ Wet ☐ Blue ☑ None ☐ Samples on ice, cooling process has begun

Cooler Temp Read (°C): 13.2 **Cooler Temp Corrected (°C):** 13.0 **Biological Tissue Frozen?** ☐ Yes ☑ No

Temp should be above freezing to 6°C **Correction Factor:** -.2 **Date and Initials of Person Examining Contents:** GB 10/2/13

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 and/or Signature on COC?	☐ Yes	☑ No	☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ 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.
Filtered Volume Received for Dissolved Tests?	☑ Yes	☐ No	☐ N/A	11.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WT	☑ Yes	☐ No	☐ N/A	12.
All containers needing acid/base preservation have been checked? Noncompliances are noted in 13.	☑ Yes	☐ No	☐ N/A	13. ☑ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl Sample # 1-13 2/2
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl<2; NaOH>12)	☑ Yes	☐ No	☐ N/A	
Exceptions: VOA, Coliform, TOC, Oil and Grease, WI-DRO (water)	☐ Yes	☑ No		Initial when completed: GB Lot # of added preservative:
Headspace in VOA Vials (>6mm)?	☐ Yes	☐ No	☑ N/A	14.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	15.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	
Pace Trip Blank Lot # (if purchased):				

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution: Temp ok for metals.

Project Manager Review: Karen Xiong **Date:** 10/3/13

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)

Chain of Custody

4085866

Pace Analytical®
www.pacelabs.com

JBK

Workorder: 60154287 **Workorder Name:** September 2013 Rico Water Samp **Owner Received Date:** 9/28/2013 **Results Requested By:** 10/14/2013

Report To

Heather Wilson
Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
Phone (913)599-5665
Fax (913)599-1759

Subcontract To

Pace Analytical Green Bay
1241 Bellevue Street
Suite 9
Green Bay, WI 54302
Phone (920)469-2436

Requested Analysis

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: H2SO4	5310C TOC	LAB USE ONLY
1	MW-4DEEP_20130927 001	PS	9/27/2013 09:46	60154287001	Water	1	X	1-250mlag C
2	MW-101_20130927 002	PS	9/27/2013 10:57	60154287002	Water	1	X	
3	MW-102_20130927 003	PS	9/27/2013 10:29	60154287003	Water	1	X	
4	MW-6 DEEP_20130927 004	PS	9/27/2013 10:09	60154287004	Water	1	X	
5	CHV-101 S_20130926 005	PS	9/26/2013 16:15	60154287005	Water	1	X	
6	AT-2_20130926 006	PS	9/26/2013 15:35	60154287006	Water	1	X	
7	BAH-01_20130926 007	PS	9/26/2013 15:20	60154287007	Water	1	X	
8	FB-FIELD_20130926 008	PS	9/26/2013 15:45	60154287008	Water	1	X	
9	DR-6_20130927 009	PS	9/27/2013 11:21	60154287009	Water	1	X	
10	DR-11_20130927 010	PS	9/27/2013 11:23	60154287010	Water	1	X	
11	GW-7_20130927 011	PS	9/27/2013 10:01	60154287011	Water	1	X	
12	MW-6 SHALLOW_201 30927 012	PS	9/27/2013 10:06	60154287012	Water	1	X	
13	GW-4_20130927 013	PS	9/27/2013 11:13	60154287013	Water	1	X	

Transfers	Released By	Date/Time	Received By	Date/Time
1	[illegible] Pace	10/1/13 1700		
2	[illegible] Pace	10/2/13 1040	[illegible] Pace	10-2-13 1040
3				

Comments

No J flags
Use Profile #4099

Cooler Temperature on Receipt 4.5 °C **Custody Seal** Y or N **Received on Ice** Y or N **Samples Intact** Y or N

Pace Analytical Services, Inc
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Pace Analytical™

Sample Condition Upon Receipt

Client Name: Pace, KS Project # 4085866

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: 8649 9541 3410

Custody Seal on Cooler/Box Present: ☒ yes ☐ no Seals intact: ☒ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other _____

Thermometer Used SR13 Type of Ice: (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 4 /Corr: 4.5 Biological Tissue is Frozen: ☐ yes ☐ no

Temp Blank Present: ☒ yes ☐ no

Person examining contents: Date: 10-2-13 Initials: SW

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

		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. IRWO 10-2-13 SW
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<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	
-Pace IR Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☑Yes ☐No ☐N/A	13. ☐ HNO3 ☑ H2SO4 ☐ NaOH ☐ NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2, NaOH+ZnAct ≥9, NaOH ≥12)	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	☑Yes ~~☐No~~ 10-2-13 SW	Initial when completed SW / Lab Std #ID of preservative / Date/Time:
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	14.
Trip Blank Present:	☐Yes ☐No ☑N/A	15.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):		

If checked, see attached form for additional comments ☐

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** 10/3/13

Pace Analytical
www.pacelabs.com

Sample Condition Upon Receipt
ESI Tech Spec Client

WO#: 60154491

60154491

Client Name: BP Anderson

Optional
Proj Due Date:
Proj Name:

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

Tracking #: 1273 3W 8784 4742 5409 8187 7 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 ☑ 2P/C

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

Cooler Temperature: 5.9/5.9

Temperature should be above freezing to 6°C

Date and initials of person examining contents: DW 10/2/13

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: WT	☑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 ☑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:	

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: 1125	Start:
End: 1140	End:
Temp:	Temp:

Project Manager Review: MW for [illegible] Date: 10/2/13

F-KS-C-004-Rev.2, 04December2012

ANDERSON
ENGINEERING COMPANY INC.

977 West 2100 South
Salt Lake City, UT 84119
(801) 972-6222
FAX (801) 972-6235

CHAIN OF CUSTODY RECORD

COC# _____
Page 1 of 1

Client: BP
Project: August 2013 Rico Water Sampling
AECI Contact: Mark DeFriez (801) 234-9583

Lab Name: Pace Analytical Services
Lab Contact: Heather Wilson, (913) 563-1407
Lab Address: 9608 Loiret Blvd.
Lenexa, KS 66219

Matrix Codes
(W) Water
(S) Soil
(L) Liquid

QC: (circle one)
I II III IV

60154491

Field Location	Field Sample ID Number	Date	Time	Matrix	No. of Containers	Total	Potentially Dissolved Metals	Dissolved Metals	Alkalinity / TDS / TSS / Sulfate / Chloride	Cyanide	Salinity	Total Organic Carbon / Nitrate	Sulfide			COMMENTS
DR-1	DR-1_20130930	9/30/2013	3:05 PM	W	8	X	X	X	X	X	X	X	X			1BP3U 1AG1S 2BP3N 1S 1BP3F 1S 1BP3Z 1S 1BP3C 1S 1BP3U 01
DR-2	DR-2_20130930	9/30/2013	1:30 PM	W	8	X	X	X	X	X	X	X	X			02
DR-7	DR-7_20130930	9/30/2013	12:50 PM	W	8	X	X	X	X	X	X	X	X			03
DR-4-SW	DR-4-SW_20130930	9/30/2013	11:15 AM	W	8	X	X	X	X	X	X	X	X			04
DR-12	DR-12_20130930	9/30/2013	3:10 PM	W	8	X	X	X	X	X	X	X	X			05
DR-2 COMPOSITE	DR-2 COMPOSITE_20130930	9/30/2013	1:35 PM	W	8	X	X	X	X	X	X	X	X			06
DR-7 COMPOSITE	DR-7 COMPOSITE_20130930	9/30/2013	12:55 PM	W	8	X	X	X	X	X	X	X	X			07
DR-4-SW COMPOS	DR-4-SW COMPOSITE_20130930	9/30/2013	11:25 AM	W	8	X	X	X	X	X	X	X	X			08

Relinquished By: *signature*	Date	Time	Received By: *signature*		Time	Special Instructions
[signature]	10/1	14:00	[signature] PACE	10/2/13	1000	5.9/5.9
Relinquished By: *signature*	Date	Time	Received By: *signature*		Time	
Relinquished By: *signature*	Date	Time	Received By: *signature*		Time	
Relinquished By: *signature*	Date	Time	Received By: *signature*		Time	

FLD-002

Chain of Custody

Pace Analytical®
www.pacelabs.com

Workorder: 60154491 **Workorder Name:** AUGUST 2013 RICO WATER SAMPLIN **Owner Received Date:** 10/2/2013 **Results Requested By:** 10/16/2013

Report To	Subcontract To
Heather Wilson Pace Analytical Services, Inc. 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665 Fax (913)599-1759	Pace Analytical Billings MT 602 S 25th Street Billings, MT, MT 591014549 Phone (406) 254-7226

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: none	Requested Analysis: Salinity	LAB USE ONLY 10244798
1	DR-1_20130930	PS	9/30/2013 15:05	60154491001	Water	1	X	001
2	DR-2_20130930	PS	9/30/2013 13:30	60154491002	Water	1	X	002
3	DR-7_20130930	PS	9/30/2013 12:50	60154491003	Water	1	X	003
4	DR-4-SW_20130930	PS	9/30/2013 11:15	60154491004	Water	1	X	004
5	DR-12_20130930	PS	9/30/2013 15:10	60154491005	Water	1	X	005
6	DR-2 COMPOSITE_20130930	PS	9/30/2013 13:35	60154491006	Water	1	X	006
7	DR-7 COMPOSITE_20130930	PS	9/30/2013 12:55	60154491007	Water	1	X	007
8	DR-4-SW	PS	9/30/2013 11:25	60154491008	Water	1	X	008

Transfers	Released By	Date/Time	Received By	Date/Time
1	[signature]	10/7/13 1700	[signature]	10/8/13 1000
2				
3				

Comments: No J flags

Cooler Temperature on Receipt 0.0 °C Custody Seal Y or N Received on Ice Y or N Samples Intact Y or N

Pace Analytical®	Document Name: **Sample Condition Upon Receipt Form**	Document Revised: 14Nov2012 Page 1 of 1
	Document No.: **F-MT-C-184-rev.02**	Issuing Authority: Pace Montana Quality Office

Sample Condition Upon Receipt

Client Name: Pace KS

Project #: WO#: 10244798

10244798

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

Tracking Number: 5689 1278 6713

Custody Seal on Cooler/Box Present? ☑ Yes ☐ No **Seals Intact?** ☑ Yes ☐ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other: _____ **Temp Blank?** ☑ Yes ☐ No

Thermometer Used: ☑ 1383045 ☐ 135 ☐ NA **Type of Ice:** ☑ Wet ☐ Blue ☐ None ☑ Samples on ice, cooling process has begun

Cooler Temp Read: 0.0 **Date and Initials of Person Examining Contents:** KTJ 10/8/13

Cooler Temp Corrected: 0.0 **Biological Tissue Frozen?** ☐ Yes ☑ No

Temp should be above freezing to 6°C

				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 and Signature on COC?	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☑ No	☐ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	7. Due 10/18/13
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.
Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☑ N/A	11.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: H2O	☑ Yes	☑ No	☐ N/A	12. "DR-4-SW" on COC "DR-4-SW Composite 20130903" on sample
All containers needing acid/base preservation have been checked? Noncompliances are noted in 13.	☐ Yes	☐ No	☑ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl<2; NaOH>12)	☐ Yes	☐ No	☑ N/A	
Exceptions: VOA, Coliform, TOC, Oil and Grease, WI-DRO (water)	☐ Yes	☑ No		Initial when completed: _____ Lot # of added preservative: _____
Samples checked for dechlorination?	☐ Yes	☐ No	☑ N/A	14.
Headspace in VOA Vials (>6mm)?	☐ Yes	☐ No	☑ N/A	15.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	16.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	
Pace Trip Blank Lot # (if purchased): _____				

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: [signature] **Date:** 10-8-13

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)

Chain of Custody

4086326

Pace Analytical®
www.pacelabs.com

Workorder: 60154491 **Workorder Name:** AUGUST 2013 RICO WATER SAMPLIN **Owner Received Date:** 10/2/2013 **Results Requested By:** 10/16/2013

Report To

Heather Wilson
Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
Phone (913)599-5665
Fax (913)599-1759

Subcontract To

Pace Analytical Green Bay
1241 Bellevue Street
Suite 9
Green Bay, WI 54302
Phone (920)469-2436

Requested Analysis

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: H2SO4	5310C TOC	LAB USE ONLY
1	DR-1_20130930 001	PS	9/30/2013 15:05	60154491001	Water	1	X	1-250mlag
2	DR-2_20130930 002	PS	9/30/2013 13:30	60154491002	Water	1	X	
3	DR-7_20130930 003	PS	9/30/2013 12:50	60154491003	Water	1	X	
4	DR-4-SW_20130930 004	PS	9/30/2013 11:15	60154491004	Water	1	X	
5	DR-12_20130930 005	PS	9/30/2013 15:10	60154491005	Water	1	X	
6	DR-2 COMPOSITE_20130930	PS 006	9/30/2013 13:35	60154491006	Water	1	X	
7	DR-7 COMPOSITE_20130930	PS 007	9/30/2013 12:55	60154491007	Water	1	X	
8	DR-4-SW 008	PS	9/30/2013 11:25	60154491008	Water	1	X	

Transfers	Released By	Date/Time	Received By	Date/Time
1	[signature]	10/8/13 1700		
2	Fed ex	10/9/13 1045	Maryma Pace GB	10/9/13 1045
3				

Comments

No J flags
Use Profile #4099

Cooler Temperature on Receipt 1 °C **Custody Seal** Y or N **Received on Ice** Y or N **Samples Intact** Y or N

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Pace Analytical™

Sample Condition Upon Receipt

Client Name: Pace - KS Project # 40863206

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

Tracking #: 5689 1278 6871

Custody Seal on Cooler/Box Present: (F) yes ☒ no Seals intact: ☑ yes ☐ no MH 10/9/13

Custody Seal on Samples Present: ☐ yes ☑ no Seals intact: ☐ yes ☑ no

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other _____

Thermometer Used SR-32 **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 1 /Corr: 1 **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp Blank Present: ☐ yes ☑ no

Person examining contents:
Date: 10/9/13
Initials: MH

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

		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. IRWO MH 10/9/13
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8. all containers about half full MH 10/9/13
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☐Yes ☑No ☐N/A	
-Pace IR Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☑No ☐N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12. ~~all conta~~ MH 10/9/13
-Includes date/time/ID/Analysis Matrix: W		
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☐Yes ☐No ☑N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	☐Yes ☐No ☑N/A	
exceptions: VOA, coliform, (TOC), TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	MH 10/9/13 ☐Yes ☑No	Initial when completed / Lab Std #ID of preservative / Date/Time:
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	14.
Trip Blank Present:	☐Yes ☐No ☑N/A	15.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):		

If checked, see attached form for additional comments ☐

Client Notification/ Resolution:
Person Contacted: _____ Date/Time: _____
Comments/ Resolution: _____

Project Manager Review: _____ **Date:** 10/9/13

F-GB-C-031-Rev.01 (01Mar2013) SCUR Form

Chain of Custody

1137

Pace Analytical®
www.pacelabs.com

10244865

Workorder: 60154491 **Workorder Name:** AUGUST 2013 RICO WATER SAMPLIN **Owner Received Date:** 10/2/2013 **Results Requested By:** 10/16/2013

Report To	Subcontract To
Heather Wilson Pace Analytical Services, Inc. 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665 Fax (913)599-1759	Pace Analytical Minnesota 1700 Elm Street Suite 200 Minneapolis, MN 55414 Phone (612)607-1700

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: HNO3						Requested Analysis: 200.8 Total Metal + Hardess + Silica	200.8 Dissolved Metals	245.1 Total Mercury	245.1 Dissolved Mercury									LAB USE ONLY
1	DR-1_20130930	PS	9/30/2013 15:05	60154491001	Water	2						X	X	X	X									10244865001
2	DR-2_20130930	PS	9/30/2013 13:30	60154491002	Water	2						X	X	X	X									002
3	DR-7_20130930	PS	9/30/2013 12:50	60154491003	Water	2						X	X	X	X									003
4	DR-4-SW_20130930	PS	9/30/2013 11:15	60154491004	Water	2						X	X	X	X									004
5	DR-12_20130930	PS	9/30/2013 15:10	60154491005	Water	2						X	X	X	X									005
6	DR-2 COMPOSITE_20130930	PS	9/30/2013 13:35	60154491006	Water	2						X	X	X	X									006
7	DR-7 COMPOSITE_20130930	PS	9/30/2013 12:55	60154491007	Water	2						X	X	X	X									007
8	DR-4-SW	PS	9/30/2013 11:25	60154491008	Water	2						X	X	X	X									008

Transfers	Released By	Date/Time	Received By	Date/Time
1	[signature]	10/7/13 1700	CSL / Pace	10/8/13 935
2				
3				

Comments

Use Profile 26985
No J flags

Cooler Temperature on Receipt 3.0 °C **Custody Seal** Y or N **Received on Ice** Y or N **Samples Intact** Y or N

Pace Analytical	Document Name: **Sample Condition Upon Receipt Form**	Document Revised: 19Sep2013 Page 1 of 1
	Document No.: **F-MN-L-213-rev.07**	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: KS

Project #: WO#: 10244865 (10244865)

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

Tracking Number: 5689 1278 6779, 6757 6768

Custody Seal on Cooler/Box Present? ☑ Yes ☐ No **Seals Intact?** ☑ Yes ☐ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other: **Temp Blank?** ☑ Yes ☐ No

Thermom. Used: ☐ 80512447 ☑ B88A912167504 ☐ 72337080 ☐ B88A9132521491 **Type of Ice:** ☑ Wet ☐ Blue ☐ None ☐ Samples on ice, cooling process has begun

Cooler Temp Read (°C): 3.1, 0.6 **Cooler Temp Corrected (°C):** 3.0, 0.5 **Biological Tissue Frozen?** ☐ Yes ☐ No

Temp should be above freezing to 6°C **Correction Factor:** -0.1 **Date and Initials of Person Examining Contents:** CJ 10-8-13

				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 and/or Signature on COC?	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ 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.
Filtered Volume Received for Dissolved Tests?	☑ Yes	☐ No	☐ N/A	11.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WT	☑ Yes	☐ No	☐ N/A	12.
All containers needing acid/base preservation have been checked? Noncompliances are noted in 13.	☑ Yes	☐ No	☐ N/A	13. ☑ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl 2-2 Sample # All 001,008
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl<2; NaOH>12)	☑ Yes	☐ No	☐ N/A	
Exceptions: VOA, Coliform, TOC, Oil and Grease, WI-DRO (water)	☐ Yes	☑ No		Initial when completed: CJ Lot # of added preservative:
Headspace in VOA Vials (>6mm)?	☐ Yes	☐ No	☑ N/A	14.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	15.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	
Pace Trip Blank Lot # (if purchased):				

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: Kalin Xiong **Date:** 10/9/13

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)

Appendix G

Field Photos

September 2013 Field Photos

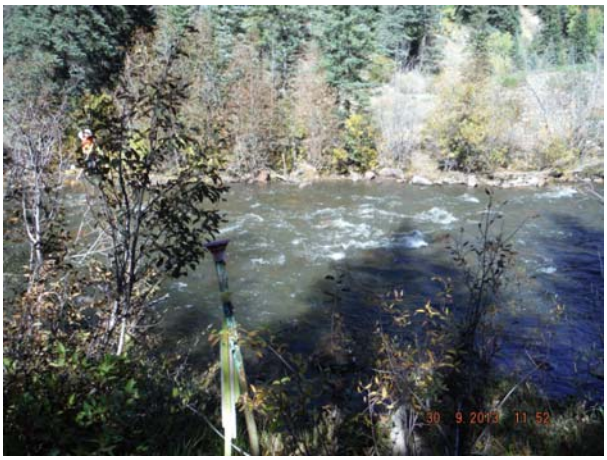
Cross Section at Station DR-1

Cross Section at Station DR-5

Cross Section at Station DR-2

Cross Section at Station DR-7

September 2013 Field Photos



Cross Section at Station DR-4-SW

Cross Section at Station DR-G

Appendix H

Field Log Book Records

Rico Water Sampling: Sampling Event Main Checklist **September 2013**

Check off each item as their corresponding forms are completed. An item is **NOT** to be checked off until its cooresponding form is completed in full. If a water sample cannot be completed, its sampling form **must** still be completed, noting reasons for problems, and it still must be checked off on this list.

Surface Water Samples

Grab Samples

- [x] DR-1 9/30/13
- [x] DR-2 9/30/13
- [x] DR-3 9/11/13 (data download, clean transducer)
- [x] DR-4 9/12/13
- [x] DR-5 9/11/13
- [x] DR-6 9/27/13
- [x] DR-7 9/30/13
- [x] DR-4-SW 9/30/13
- [x] DR-G 9/11/13 (need picture)

Composite Samples

- [x] DR-1 COMPOSITE 9/30/13
- [x] DR-2 COMPOSITE 9/30/13
- [x] DR-7 COMPOSITE 9/30/13
- [x] DR-4-SW COMPOSITE 9/30/13

Groundwater Samples

- [x] GW-1 9/11/13
- [x] GW-3 9/13/13
- [ ] GW-4 9/27/13
- [x] GW-5 9/11/13
- [x] GW-6 9/12/13
- [ ] GW-7 9/27/13
- [x] EB-1 9/12/13
- [x] EB-2 9/12/13
- [x] MW-101 9/27/13
- [x] MW-102 9/27/13
- [x] MW-103 9/12/13
- [x] MW-104 9/11/13
- [x] MW-202 ~~9/26/13~~
- [x] MW-204 9/26/13
- [x] P13-102 9/12/13
- [x] P13-103 9/12/13
- [x] MW-1 DEEP 9/12/13
- [x] MW-1 SHALLOW 9/12/13
- [x] MW-2 DEEP 9/12/13
- [x] MW-2 SHALLOW 9/12/13
- [x] MW-3 DEEP 9/12/13

Groundwater Samples (cont.)

- [x] MW-3 SHALLOW 9/12/13
- [x] MW-4 DEEP 9/11/13 — lost to lab, redo. 9/27/13
- [x] MW-4 SHALLOW 9/12/13
- [x] MW-5 DEEP 9/11/13
- [x] MW-5 SHALLOW 9/11/13
- [x] MW-6 DEEP 9/27/13
- [x] MW-6 SHALLOW 9/27/13
- [x] CHV-101 S 9/26/13

Other Samples

- [x] AT-2 9/26/13
- [x] BAH-01 9/26/13

Quality Control Samples

Blind Duplicates

- [x] DR-8 9/11/13
- [x] DR-9 9/11/13
- [x] DR-10 9/12/13
- [ ] DR-11 9/27/13
- [x] DR-12 9/30/13

Field Blanks

- [x] FB-LAB 9/11/13
- [x] FB-FIELD 9/26/13

Flowrate Measurements

- [x] DR-1 9/30/13
- [x] DR-2 9/30/13
- [x] DR-7 9/30/13
- [x] DR-4-SW 9/30/13
- [x] DR-G 9/11/13
- [x] DR-1A 9/30/13
- [x] DR-2A 9/30/13
- [x] DR-3A 9/30/13

Additional Tasks

- [x] Pond inspection completed 9/30/13
- [x] Pond water levels measured 9/30/13

Rico Water Sampling Form: *Station Information*

Sampling completed at this location ☑
(Do not check box until **ALL** items have been completed)

☒ Surface Water ☐ Groundwater ☐ Other

Sample Location:	**DR-1**
Date(s) of Sample Collection:	9/30/13
Time(s) of Sample Collection:	3:05
Sampler's Identity:	MC/TB

Picture taken of cross section? ☒ Yes

By whom? MC/TB

***Email photo to mdefriez@andersoneng.com**

FIELD PARAMETERS / MEASUREMENTS

EC, µS/cm	ORP, mV	DO, ppm	pH	Temp, °C
206	-35.8	7.72	8.62	9.57

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
✓	DR-1_201309	30	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
✓	DR-1_201309		Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
✓	DR-1_201309		Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
✓	DR-1_201309		Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
✓	DR-1_201309		Salinity	250 mL / HDPE / None
✓	DR-1_201309		Cyanide	250 mL / HDPE / NaOH (GREEN)
✓	DR-1_201309		Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
✓	DR-1_201309		Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

Rico Water Sampling Form: *Station Information*

Sampling completed at this location ☐
(Do not check box until **ALL** items have been completed)

☒ Surface Water ☐ Groundwater ☐ Other

Sample Location: **DR-2**

Date(s) of Sample Collection: 9/30/13

Time(s) of Sample Collection: 1:30

Sampler's Identity: MC / TB

Picture taken of cross section? ☒ Yes

By whom? TB

***Email photo to mdefriez@andersoneng.com**

FIELD PARAMETERS / MEASUREMENTS

EC, µS/cm	ORP, mV	DO, ppm	pH	Temp, °C
229	~~-35.6~~ -19.7 MC 9/30/13	8	7.95	8.52

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
✓	DR-2_201309	30	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
✓	DR-2_201309		Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
✓	DR-2_201309		Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
✓	DR-2_201309		Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
✓	DR-2_201309		Salinity	250 mL / HDPE / None
✓	DR-2_201309		Cyanide	250 mL / HDPE / NaOH (GREEN)
✓	DR-2_201309		Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
✓	DR-2_201309		Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

Rico Water Sampling Form: *Station Information*

Sampling completed at this location ☒
(Do not check box until **ALL** items have been completed)

☒ Surface Water ☐ Groundwater ☐ Other

Sample Location:	**DR-3**
Date(s) of Sample Collection:	9/11/13
Time(s) of Sample Collection:	835
Sampler's Identity:	TB ML

FIELD PARAMETERS / MEASUREMENTS

EC, µS/cm	ORP, mV	DO, ppm	pH	Temp, °C	Manual Flume Water Depth Measurement, ft
1423	-25.1	4.73	6.55	20.11	~~3.72~~ 2.72

Data downloaded from transducer? ☒ Yes (REQUIRED monthly)
Has transducer been cleaned and recalibrated? ☐ Yes ☐ No

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
✓	DR-3_201309	11	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
✓	DR-3_201309		Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
✓	DR-3_201309		Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
✓	DR-3_201309		Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
✓	DR-3_201309		Salinity	250 mL / HDPE / None
✓	DR-3_201309		Cyanide	250 mL / HDPE / NaOH (GREEN)
✓	DR-3_201309		Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
✓	DR-3_201309		Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

3.23 - 2.72 = 0.51
↓
Depth tape measurement

Rico Water Sampling Form: *Station Information*

Sampling completed at this location ☒
(Do not check box until **ALL** items have been completed)

☒ Surface Water ☐ Groundwater ☐ Other

Sample Location:	**DR-4**
Date(s) of Sample Collection:	9/12/13
Time(s) of Sample Collection:	10:10
Sampler's Identity:	MC/TB

FIELD PARAMETERS / MEASUREMENTS

EC, µS/cm	ORP, mV	DO, ppm	pH	Temp, °C
1405	-27.3	5.21	6.45	15.53

Discharge Pipe Flowrates			
Upper Pipe		Lower Pipe	
Depth	Velocity	Depth	Velocity
0.20	8.81		

*If measuring pipe discharge by other means, describe in "Notes" section

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
✓	DR-4_201309	12	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
✓	DR-4_201309		Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
✓	DR-4_201309		Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
✓	DR-4_201309		Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
✓	DR-4_201309		Salinity	250 mL / HDPE / None
✓	DR-4_201309		Cyanide	250 mL / HDPE / NaOH (GREEN)
✓	DR-4_201309		Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
✓	DR-4_201309		Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

inlet : 2.86-3.04 ft/s

outlet : 8.81 ft/s
0.20 ft

Rico Water Sampling Form: *Station Information*

☒ Surface Water ☐ Groundwater ☐ Other

Sample Location:	**DR-5**
Date(s) of Sample Collection:	9/11/13
Time(s) of Sample Collection:	3:25
Sampler's Identity:	MC/TB

Sampling completed at this location ☒
(Do not check box until **ALL** items have been completed)

Benchmark Elevation:	5.91
Spillway Water Elevation:	8.64

☐ East to West
☒ West to East

Velocity (ft/sec)		Depth (ft)	
0	0.04	0.1	0.4
0.03	0.01	0.2	0.3
0.08	0.01	0.4	0.3

FIELD PARAMETERS / MEASUREMENTS

EC, µS/cm	ORP, mV	DO, ppm	pH	Temp, °C
1400	29.1	5.14	6.82	16.81

Picture taken of cross section? ☒
By whom? MC
***Email photo to mdefriez@andersoneng.com**

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
✓	DR-5_201309	11	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
✓	DR-5_201309		Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
✓	DR-5_201309		Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
✓	DR-5_201309		Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
✓	DR-5_201309		Salinity	250 mL / HDPE / None
✓	DR-5_201309		Cyanide	250 mL / HDPE / NaOH (GREEN)
✓	DR-5_201309		Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
✓	DR-5_201309		Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

Rico Water Sampling Form: *Station Information*

Sampling completed at this location ☐
(Do not check box until **ALL** items have been completed)

☒ Surface Water ☐ Groundwater ☐ Other

Sample Location:	**DR-6**
Date(s) of Sample Collection:	9/27/13
Time(s) of Sample Collection:	11:21
Sampler's Identity:	TB TT

FIELD PARAMETERS / MEASUREMENTS

EC, µS/cm	ORP, mV	DO, ppm	pH	Temp, °C	Manual Flume Water Depth Measurement, ft
1375	27.8	7.15	6.47	9.49	0.49

Data downloaded from transducer? ☒ Yes (REQUIRED monthly)
Has transducer been cleaned and recalibrated? ☒ Yes ☐ No

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
✓	DR-6_201309	27	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
✓	DR-6_201309	27	Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
✓	DR-6_201309	27	Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
✓	DR-6_201309	27	Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
✓	DR-6_201309	27	Salinity	250 mL / HDPE / None
✓	DR-6_201309	27	Cyanide	250 mL / HDPE / NaOH (GREEN)
✓	DR-6_201309	27	Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
✓	DR-6_201309	27	Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

Rico Water Sampling Form: *Station Information*

Sampling completed at this location ☒
(Do not check box until **ALL** items have been completed)

☒ Surface Water ☐ Groundwater ☐ Other

Sample Location:	**DR-7**
Date(s) of Sample Collection:	9/30/13
Time(s) of Sample Collection:	12:50
Sampler's Identity:	MC/TB

Picture taken of cross section? ☒ Yes

By whom? TB

***Email photo to mdefriez@andersoneng.com**

FIELD PARAMETERS / MEASUREMENTS

EC, µS/cm	ORP, mV	DO, ppm	pH	Temp, °C
329	-8.0	8.44	7.3	7.17

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
✓	DR-7_201309	30	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
✓	DR-7_201309		Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
✓	DR-7_201309		Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
✓	DR-7_201309		Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
✓	DR-7_201309		Salinity	250 mL / HDPE / None
✓	DR-7_201309		Cyanide	250 mL / HDPE / NaOH (GREEN)
✓	DR-7_201309		Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
✓	DR-7_201309		Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

Rico Water Sampling Form: *Station Information*

Sampling completed at this location ☒
(Do not check box until **ALL** items have been completed)

☒ Surface Water ☐ Groundwater ☐ Other

Sample Location:	**DR-4-SW**
Date(s) of Sample Collection:	9/30/13
Time(s) of Sample Collection:	11:15
Sampler's Identity:	MC/TB

Picture taken of cross section? ☒ Yes

By whom? TB

***Email photo to mdefriez@andersoneng.com**

FIELD PARAMETERS / MEASUREMENTS

EC, µS/cm	ORP, mV	DO, ppm	pH	Temp, °C
258	112.1	9.13	6.83	4.68

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
✓	DR-4-SW_201309	30	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
✓	DR-4-SW_201309		Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
✓	DR-4-SW_201309		Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
✓	DR-4-SW_201309		Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
✓	DR-4-SW_201309		Salinity	250 mL / HDPE / None
✓	DR-4-SW_201309		Cyanide	250 mL / HDPE / NaOH (GREEN)
✓	DR-4-SW_201309		Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
✓	DR-4-SW_201309		Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

Rico Water Sampling Form: *Station Information*

Sampling completed at this location [X]
(Do not check box until **ALL** items have been completed)

[X] Surface Water [ ] Groundwater [ ] Other

Sample Location: **DR-G**

Date(s) of Sample Collection: 9/11/13

Time(s) of Sample Collection: 10:25

Sampler's Identity: MC/TB

Picture taken of cross section? [ ] Yes

By whom?

***Email photo to mdefriez@andersoneng.com**

FIELD PARAMETERS / MEASUREMENTS

EC, µS/cm	ORP, mV	DO, ppm	pH	Temp, °C
242	-9	7.85	7.66	9.92

MC 9/11/13 22.9

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
✓	DR-G_201309		Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
✓	DR-G_201309		Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
✓	DR-G_201309		Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
✓	DR-G_201309		Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
✓	DR-G_201309		Salinity	250 mL / HDPE / None
✓	DR-G_201309		Cyanide	250 mL / HDPE / NaOH (GREEN)
✓	DR-G_201309		Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
✓	DR-G_201309		Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

Rico Water Sampling Form: *Station Information*

Sampling completed at this location ☐
(Do not check box until **ALL** items have been completed)

☒ Surface Water ☐ Groundwater ☐ Other

Sample Location: **DR-1 COMPOSITE**

Date(s) of Sample Collection:

Time(s) of Sample Collection:

Sampler's Identity:

Collected:
☐ East to West
☐ West to East

FIELD PARAMETERS / MEASUREMENTS

Compartment Number	Compartment Width, ft	EC, µS/cm	ORP, mV	DO, ppm	pH	Temp, °C
Total Composite	Total Width*:					

*Width here must match width on corresponding flow measurement sheet from Stream Flow Measurements Form

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
	DR-1 COMPOSITE_201309		Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
	DR-1 COMPOSITE_201309		Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
	DR-1 COMPOSITE_201309		Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
	DR-1 COMPOSITE_201309		Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
	DR-1 COMPOSITE_201309		Salinity	250 mL / HDPE / None
	DR-1 COMPOSITE_201309		Cyanide	250 mL / HDPE / NaOH (GREEN)
	DR-1 COMPOSITE_201309		Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
	DR-1 COMPOSITE_201309		Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

*Collect composite sample, grab sample, and flow measurements at the same time (not on different days).

Water depth + velocity too high to collect composite sample. velocities measured by floatation method (stick throwing)

Rico Water Sampling Form: *Station Information*

Sampling completed at this location ☒
(Do not check box until **ALL** items have been completed)

☒ Surface Water ☐ Groundwater ☐ Other

Sample Location: **DR-2 COMPOSITE**

Date(s) of Sample Collection: 9/30/13

Time(s) of Sample Collection: 1:35

Sampler's Identity: MLTB

Collected:
☒ East to West
☐ West to East

FIELD PARAMETERS / MEASUREMENTS

Compartment Number	Compartment Width, ft	EC, µS/cm	ORP, mV	DO, ppm	pH	Temp, °C
1	5.3	221	-16.9	8.21	7.94	8.53
2	5.3	218	-14.6	8.31	7.93	8.48
3	5.3	216	-12.1	8.41	7.91	8.47
4	5.3	217	-10.9	8.38	7.88	8.47
5	5.3	219	-10.5	8.31	7.87	8.49
6	5.3	245	-7.9	7.74	7.76	8.66
Total Composite	Total Width*: 32	219	-3.3	6.45	7.70	10.36

*Width here must match width on corresponding flow measurement sheet from Stream Flow Measurements Form

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
✓	DR-2 COMPOSITE_201309	30	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
✓	DR-2 COMPOSITE_201309		Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
✓	DR-2 COMPOSITE_201309		Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
✓	DR-2 COMPOSITE_201309		Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
✓	DR-2 COMPOSITE_201309		Salinity	250 mL / HDPE / None
✓	DR-2 COMPOSITE_201309		Cyanide	250 mL / HDPE / NaOH (GREEN)
✓	DR-2 COMPOSITE_201309		Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
✓	DR-2 COMPOSITE_201309		Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

*Collect composite sample, grab sample, and flow measurements at the same time (not on different days).

Rico Water Sampling Form: *Station Information*

Sampling completed at this location ☒
(Do not check box until **ALL** items have been completed)

☒ Surface Water ☐ Groundwater ☐ Other

Sample Location: **DR-7 COMPOSITE**

Date(s) of Sample Collection: 9/30/13

Time(s) of Sample Collection: 12:55

Sampler's Identity: MC/TB

Collected:
☒ East to West
☐ West to East

FIELD PARAMETERS / MEASUREMENTS

Compartment Number	Compartment Width, ft	EC, µS/cm	ORP, mV	DO, ppm	pH	Temp, °C
1	6	290	-25.2	8.77	7.63	6.76
2	6	264	-23.4	8.93	7.60	6.65
3	6	234	-21.2	8.85	7.60	6.54
4	6	228	-19.0	8.77	7.60	6.54
5	6	227	-17.2	8.89	7.56	6.58
6	6	233	-16.6	8.75	7.49	6.68
Total Composite	Total Width*: 30	242	17.2	8.70	7.70	8.79

*Width here must match width on corresponding flow measurement sheet from Stream Flow Measurements Form

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle	Analysis	Bottle size/Type/Preservative
✓	DR-7 COMPOSITE_201309 30	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
✓	DR-7 COMPOSITE_201309	Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
✓	DR-7 COMPOSITE_201309	Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
✓	DR-7 COMPOSITE_201309	Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
✓	DR-7 COMPOSITE_201309	Salinity	250 mL / HDPE / None
✓	DR-7 COMPOSITE_201309	Cyanide	250 mL / HDPE / NaOH (GREEN)
✓	DR-7 COMPOSITE_201309	Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
✓	DR-7 COMPOSITE_201309	Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

*Collect composite sample, grab sample, and flow measurements at the same time (not on different days).

Rico Water Sampling Form: *Station Information*

Sampling completed at this location ☒
(Do not check box until **ALL** items have been completed)

☒ Surface Water ☐ Groundwater ☐ Other

Sample Location: **DR-4-SW COMPOSITE**

Date(s) of Sample Collection: 9/30/13

Time(s) of Sample Collection: 11:25

Sampler's Identity: MC/TB

Collected:
☒ East to West
☐ West to East

FIELD PARAMETERS / MEASUREMENTS

Compartment Number	Compartment Width, ft	EC, µS/cm	ORP, mV	DO, ppm	pH	Temp, °C
1	6	258	113.6	9.01	6.77	4.69
2	6	256	114.1	9.04	6.76	4.69
3	6	255	113.6	9.05	6.77	4.72
4	6	255	113.5	9.06	6.78	4.77
5	6	255	113.3	9.00	6.74	4.86
6	6	256	113.6	8.96	6.72	4.98
Total Composite	Total Width*: 36	255	96.8	7.91	6.80	8.04

*Width here must match width on corresponding flow measurement sheet from Stream Flow Measurements Form

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
✓	DR-4-SW COMPOSITE_201309	30	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
✓	DR-4-SW COMPOSITE_201309		Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
✓	DR-4-SW COMPOSITE_201309		Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
✓	DR-4-SW COMPOSITE_201309		Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
✓	DR-4-SW COMPOSITE_201309		Salinity	250 mL / HDPE / None
✓	DR-4-SW COMPOSITE_201309		Cyanide	250 mL / HDPE / NaOH (GREEN)
✓	DR-4-SW COMPOSITE_201309		Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
✓	DR-4-SW COMPOSITE_201309		Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

*Collect composite sample, grab sample, and flow measurements at the same time (not on different days).

Rico Water Sampling Form: *Station Information*

Sampling completed at this location ☑
(Do not check box until **ALL** items have been completed)

☐ Surface Water ☐ Groundwater ☐ Other

Sample Location:	**DR-8**
Date(s) of Sample Collection:	9/11/13
Time(s) of Sample Collection:	10:30
Sampler's Identity:	MC/TB
***Duplicate sample of:**	DR-G

FIELD PARAMETERS / MEASUREMENTS

EC, µS/cm	ORP, mV	DO, ppm	pH	Temp, °C
223	229	7.05	7.04	9.960

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
✓	DR-8_201309		Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
✓	DR-8_201309		Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
✓	DR-8_201309		Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
✓	DR-8_201309		Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
✓	DR-8_201309		Salinity	250 mL / HDPE / None
✓	DR-8_201309		Cyanide	250 mL / HDPE / NaOH (GREEN)
✓	DR-8_201309		Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
✓	DR-8_201309		Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

*This sample is a Blind Duplicate Sample. Collect one blind duplicate sample for every 10 samples collected.

Rico Water Sampling Form: *Station Information*

Sampling completed at this location [X]
(Do not check box until **ALL** items have been completed)

[ ] Surface Water [ ] Groundwater [ ] Other

Sample Location:	**DR-9**
Date(s) of Sample Collection:	9/11/13
Time(s) of Sample Collection:	336
Sampler's Identity:	~~DR-3~~ TB M
***Duplicate sample of:**	DR-3

FIELD PARAMETERS / MEASUREMENTS

EC, µS/cm	ORP, mV	DO, ppm	pH	Temp, °C
1423	-20.9	4.70	6.54	20.10

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
✓	DR-9_201309		Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
✓	DR-9_201309		Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
✓	DR-9_201309		Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
✓	DR-9_201309		Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
✓	DR-9_201309		Salinity	250 mL / HDPE / None
✓	DR-9_201309		Cyanide	250 mL / HDPE / NaOH (GREEN)
✓	DR-9_201309		Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
✓	DR-9_201309		Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

*This sample is a Blind Duplicate Sample. Collect one blind duplicate sample for every 10 samples collected.

Rico Water Sampling Form: *Station Information*

Sampling completed at this location ☑
(Do not check box until **ALL** items have been completed)

☐ Surface Water ☐ Groundwater ☐ Other

Sample Location:	**DR-10**
Date(s) of Sample Collection:	9/12/13
Time(s) of Sample Collection:	3:20
Sampler's Identity:	MCL/TB
***Duplicate sample of:**	MW-403

FIELD PARAMETERS / MEASUREMENTS

EC, µS/cm	ORP, mV	DO, ppm	pH	Temp, °C
1770	-22.8	0.00	6.28	14.87

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
✓	DR-10_201309	12	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
✓	DR-10_201309		Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
✓	DR-10_201309		Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
✓	DR-10_201309		Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
✓	DR-10_201309		Salinity	250 mL / HDPE / None
✓	DR-10_201309		Cyanide	250 mL / HDPE / NaOH (GREEN)
✓	DR-10_201309		Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
✓	DR-10_201309		Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

*This sample is a Blind Duplicate Sample. Collect one blind duplicate sample for every 10 samples collected.

Rico Water Sampling Form: *Station Information*

Sampling completed at this location ☑
(Do not check box until **ALL** items have been completed)

☑ Surface Water ☐ Groundwater ☐ Other

Sample Location:	**DR-11**
Date(s) of Sample Collection:	9/27/18
Time(s) of Sample Collection:	1123
Sampler's Identity:	TB
***Duplicate sample of:**	DR-6

FIELD PARAMETERS / MEASUREMENTS

EC, µS/cm	ORP, mV	DO, ppm	pH	Temp, °C
1348	33.3	7.25	6.55	9.51

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
✓	DR-11_201305	27	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
✓	DR-11_201305	27	Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
✓	DR-11_201305	27	Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
✓	DR-11_201305	27	Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
✓	DR-11_201305	27	Salinity	250 mL / HDPE / None
✓	DR-11_201305	27	Cyanide	250 mL / HDPE / NaOH (GREEN)
✓	DR-11_201305	27	Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
✓	DR-11_201305	27	Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

*This sample is a Blind Duplicate Sample. Collect one blind duplicate sample for every 10 samples collected.

Rico Water Sampling Form: *Station Information*

Sampling completed at this location ☒
(Do not check box until **ALL** items have been completed)

☐ Surface Water ☐ Groundwater ☐ Other

Sample Location:	**DR-12**
Date(s) of Sample Collection:	9/30/13
Time(s) of Sample Collection:	3:10
Sampler's Identity:	MC/TB
***Duplicate sample of:**	PR-1

FIELD PARAMETERS / MEASUREMENTS

EC, µS/cm	ORP, mV	DO, ppm	pH	Temp, °C
206	-37.0	7.45	8.73	9.57

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
✓	DR-12_201305	30	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
✓	DR-12_201305		Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
✓	DR-12_201305		Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
✓	DR-12_201305		Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
✓	DR-12_201305		Salinity	250 mL / HDPE / None
✓	DR-12_201305		Cyanide	250 mL / HDPE / NaOH (GREEN)
✓	DR-12_201305		Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
✓	DR-12_201305		Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

*This sample is a Blind Duplicate Sample. Collect one blind duplicate sample for every 10 samples collected.

Rico Water Sampling Form: *Station Information*

☐ Surface Water ☒ Groundwater ☐ Other

Sample Location: **GW-1**

Date(s) of Sample Collection: 9/11/13

Time(s) of Sample Collection: 11:35

Sampler's Identity: MC/TB

Sampling completed at this location ☒
(Do not check box until **ALL** items have been completed)

FIELD PARAMETERS / MEASUREMENTS

Measured Depth to Water: 1.50 ft

# of Purge Volumes	Time	Cummulative Volume (gal)	EC, µS/cm	ORP, mV	DO, ppm	pH	Temp, °C
1	11:30	1.50	330	-56.2	0.73	8.45	11.48
2	11:32	3.00	333	-41.0	0.96	7.68	11.07
3	11:34	4.50	339	-22.3	1.11	7.46	10.94
		Collected Sample Parameters:	339	-16.5	1.31	7.36	10.85

Well purged dry? ☐ Yes ☒ No

If Yes, did well recover to 80% within 24 hours?** ☐ Yes ☐ No

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
✓	GW-1_201309	11	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
✓	GW-1_201309		Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
✓	GW-1_201309		Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
✓	GW-1_201309		Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
✓	GW-1_201309		Salinity	250 mL / HDPE / None
✓	GW-1_201309		Cyanide	250 mL / HDPE / NaOH (GREEN)
✓	GW-1_201309		Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
✓	GW-1_201309		Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

* If conditions significantly change, purge volume can be calculated as follows:

One purge volume = 0.174305 x (Measured Depth to Water - Depth to Well Bottom)

** If "No", well is declared dry for the sampling event.

Measured Depth to Water (ft)	Quantity (gal) to Purge X Volumes* 1	3
0.00	1.70	5.10
0.25	1.66	4.97
0.50	1.61	4.84
0.75	1.57	4.71
1.00	1.53	4.58
1.25	1.48	4.44
1.50	1.44	4.31
1.75	1.39	4.18
2.00	1.35	4.05
2.25	1.31	3.92
2.50	1.26	3.79
2.75	1.22	3.66
3.00	1.18	3.53
3.25	1.13	3.40
3.50	1.09	3.27
3.75	1.05	3.14
4.00	1.00	3.01
4.25	0.96	2.88
4.50	0.92	2.75
4.75	0.87	2.61
5.00	0.83	2.48
5.25	0.78	2.35
5.50	0.74	2.22
5.75	0.70	2.09
6.00	0.65	1.96
6.25	0.61	1.83
6.50	0.57	1.70
6.75	0.52	1.57
7.00	0.48	1.44
7.25	0.44	1.31
7.50	0.39	1.18
7.75	0.35	1.05
8.00	0.31	0.92
8.25	0.26	0.78
8.50	0.22	0.65
8.75	0.17	0.52
9.00	0.13	0.39
9.25	0.09	0.26
9.50	0.04	0.13

Rico Water Sampling Form: *Station Information*

Sampling completed at this location [✓]
(Do not check box until **ALL** items have been completed)

[ ] Surface Water [X] Groundwater [ ] Other

Sample Location: **GW-3**

Date(s) of Sample Collection: 9/11/13

Time(s) of Sample Collection: 11:50 ; 9/13/13, 9:40

Sampler's Identity: MC/TB

FIELD PARAMETERS / MEASUREMENTS

Measured Depth to Water: 12.91 ft

# of Purge Volumes	Time	Cummulative Volume (gal)	EC, µS/cm	ORP, mV	DO, ppm	pH	Temp, °C
1	11:50	0.50	905	-55.0	0.00	6.66	9.99
2							
3							
Collected Sample Parameters:			921	216.7	2.70	6.15	10.50

Well purged dry? [X] Yes [ ] No

If Yes, did well recover to 80% within 24 hours?** [X] Yes [ ] No

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
✓	GW-3_201309	11	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
✓	GW-3_201309		Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
✓	GW-3_201309		Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
✓	GW-3_201309		Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
✓	GW-3_201309		Salinity	250 mL / HDPE / None
✓	GW-3_201309		Cyanide	250 mL / HDPE / NaOH (GREEN)
✓	GW-3_201309		Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
✓	GW-3_201309		Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

* If conditions significantly change, purge volume can be calculated as follows:

One purge volume = 0.174305 x (Measured Depth to Water - Depth to Well Bottom)

** If "No", well is declared dry for the sampling event.

Measured Depth to Water (ft)	Quantity (gal) to Purge X Volumes* 1	3
5.75	1.66	4.99
6.00	1.62	4.86
6.25	1.58	4.73
6.50	1.53	4.60
6.75	1.49	4.47
7.00	1.45	4.34
7.25	1.40	4.21
7.50	1.36	4.08
7.75	1.32	3.95
8.00	1.27	3.82
8.25	1.23	3.69
8.50	1.19	3.56
8.75	1.14	3.43
9.00	1.10	3.29
9.25	1.05	3.16
9.50	1.01	3.03
9.75	0.97	2.90
10.00	0.92	2.77
10.25	0.88	2.64
10.50	0.84	2.51
10.75	0.79	2.38
11.00	0.75	2.25
11.25	0.71	2.12
11.50	0.66	1.99
11.75	0.62	1.86
12.00	0.58	1.73
12.25	0.53	1.59
12.50	0.49	1.46
12.75	0.44	1.33
13.00	0.40	1.20
13.25	0.36	1.07
13.50	0.31	0.94
13.75	0.27	0.81
14.00	0.23	0.68
14.25	0.18	0.55
14.50	0.14	0.42
14.75	0.10	0.29
15.00	0.05	0.16
15.25	0.01	0.03

Rico Water Sampling Form: *Station Information*

Sampling completed at this location ☑
(Do not check box until **ALL** items have been completed)

☐ Surface Water ☒ Groundwater ☐ Other

Sample Location: **GW-3**

Date(s) of Sample Collection: 9/11/13

Time(s) of Sample Collection: 11:50 ; 9/13/13 9:40

Sampler's Identity: MC/TB

FIELD PARAMETERS / MEASUREMENTS

Measured Depth to Water: 12.91 ft

# of Purge Volumes	Time	Cummulative Volume (gal)	EC, µS/cm	ORP, mV	DO, ppm	pH	Temp, °C
1	~~11:50~~	~~0.50~~	~~905~~	~~-55.0~~	~~0.00~~	~~6.66~~	~~9.99~~
2							
3							
Collected Sample Parameters			905	-55.0	0.00	6.66	9.99
			921	246.7	2.70	6.15	10.50

Well purged dry? ☒ Yes ☐ No

If Yes, did well recover to 80% within 24 hours?** ☒ Yes ☐ No

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
✓	GW-3_201309	//	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
✓	GW-3_201309	//	Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
✓	GW-3_201309	//	Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
✓	GW-3_201309	//	Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
✓	GW-3_201309	//	Salinity	250 mL / HDPE / None
	GW-3_201309	//	Cyanide	250 mL / HDPE / NaOH (GREEN)
	GW-3_201309	//	Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
	GW-3_201309	//	Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

* If conditions significantly change, purge volume can be calculated as follows:

One purge volume = 0.174305 x (Measured Depth to Water - Depth to Well Bottom)

** If "No", well is declared dry for the sampling event.

Measured Depth to Water (ft)	Quantity (gal) to Purge X Volumes* 1	3
5.75	1.66	4.99
6.00	1.62	4.86
6.25	1.58	4.73
6.50	1.53	4.60
6.75	1.49	4.47
7.00	1.45	4.34
7.25	1.40	4.21
7.50	1.36	4.08
7.75	1.32	3.95
8.00	1.27	3.82
8.25	1.23	3.69
8.50	1.19	3.56
8.75	1.14	3.43
9.00	1.10	3.29
9.25	1.05	3.16
9.50	1.01	3.03
9.75	0.97	2.90
10.00	0.92	2.77
10.25	0.88	2.64
10.50	0.84	2.51
10.75	0.79	2.38
11.00	0.75	2.25
11.25	0.71	2.12
11.50	0.66	1.99
11.75	0.62	1.86
12.00	0.58	1.73
12.25	0.53	1.59
12.50	0.49	1.46
12.75	0.44	1.33
13.00	0.40	1.20
13.25	0.36	1.07
13.50	0.31	0.94
13.75	0.27	0.81
14.00	0.23	0.68
14.25	0.18	0.55
14.50	0.14	0.42
14.75	0.10	0.29
15.00	0.05	0.16
15.25	0.01	0.03

Rico Water Sampling Form: *Station Information*

☐ Surface Water ☒ Groundwater ☐ Other

Sample Location: **GW-4**

Date(s) of Sample Collection: 9/27/13

Time(s) of Sample Collection: 1113

Sampler's Identity: TB TI

Sampling completed at this location ☑
(Do not check box until **ALL** items have been completed)

FIELD PARAMETERS / MEASUREMENTS

Measured Depth to Water: 9.53 ft

# of Purge Volumes	Time	Cummulative Volume (gal)	EC, µS/cm	ORP, mV	DO, ppm	pH	Temp, °C
1	11:06	1.	1395	7.5	0	6.12	10.61
2	11:08	2.	1411	11.0	.75	6.19	10.66
3	11:09	3.	1441	9.0	1.27	6.24	10.76
Collected Sample Parameters:			1443	7.7	1.02	6.25	10.99

Well purged dry? ☐ Yes ☑ No

If Yes, did well recover to 80% within 24 hours?** ☑ Yes ☐ No

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
X	GW-4_201309	27	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
X	GW-4_201309	27	Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
X	GW-4_201309	27	Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
X	GW-4_201309	27	Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
X	GW-4_201309	27	Salinity	250 mL / HDPE / None
X	GW-4_201309	27	Cyanide	250 mL / HDPE / NaOH (GREEN)
X	GW-4_201309	27	Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
X	GW-4_201309	27	Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

* If conditions significantly change, purge volume can be calculated as follows:

One purge volume = 0.174305 x (Measured Depth to Water - Depth to Well Bottom)

** If "No", well is declared dry for the sampling event.

Measured Depth to Water (ft)	Quantity (gal) to Purge X Volumes* 1	3
9.53		
5.50	1.68	5.05
5.75	1.64	4.92
6.00	1.59	4.78
6.25	1.55	4.65
6.50	1.51	4.52
6.75	1.46	4.39
7.00	1.42	4.26
7.25	1.38	4.13
7.50	1.33	4.00
7.75	1.29	3.87
8.00	1.25	3.74
8.25	1.20	3.61
8.50	1.16	3.48
8.75	1.12	3.35
9.00	1.07	3.22
9.25	1.03	3.09
9.50	0.98	2.95
9.75	0.94	2.82
10.00	0.90	2.69
10.25	0.85	2.56
10.50	0.81	2.43
10.75	0.77	2.30
11.00	0.72	2.17
11.25	0.68	2.04
11.50	0.64	1.91
11.75	0.59	1.78
12.00	0.55	1.65
12.25	0.51	1.52
12.50	0.46	1.39
12.75	0.42	1.25
13.00	0.37	1.12
13.25	0.33	0.99
13.50	0.29	0.86
13.75	0.24	0.73
14.00	0.20	0.60
14.25	0.16	0.47
14.50	0.11	0.34
14.75	0.07	0.21
15.00	0.03	0.08

Rico Water Sampling Form: *Station Information*

Sampling completed at this location ☒
(Do not check box until **ALL** items have been completed)

☐ Surface Water ☒ Groundwater ☐ Other

Sample Location: **GW-5**

Date(s) of Sample Collection: 9/11/13

Time(s) of Sample Collection: 12:40

Sampler's Identity: MC/TB

FIELD PARAMETERS / MEASUREMENTS

Measured Depth to Water: 21.83 ft

# of Purge Volumes	Time	Cummulative Volume (gal)	EC, µS/cm	ORP, mV	DO, ppm	pH	Temp, °C
1	12:27	0.50	2734	-35.5	.40	6.57	12.63
2	12:31	1.00	2735	-50.2	.07	7.40	11.18
3	12:35	1.50	2742	-46.2	0.00	6.92	10.93
Collected Sample Parameters:			2700	-33.3	0.90	6.61	10.95

Well purged dry? ☐ Yes ☒ No

If Yes, did well recover to 80% within 24 hours?** ☐ Yes ☐ No

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
✓	GW-5_201309	11	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
✓	GW-5_201309	1	Dissolved Metals (Field Filtered)[1]	250 mL / HDPE / HNO3 (RED)
✓	GW-5_201309	1	Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
✓	GW-5_201309	1	Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
✓	GW-5_201309	1	Salinity	250 mL / HDPE / None
✓	GW-5_201309	1	Cyanide	250 mL / HDPE / NaOH (GREEN)
✓	GW-5_201309	1	Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
✓	GW-5_201309		Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

* If conditions significantly change, purge volume can be calculated as follows:

One purge volume = 0.174305 x (Measured Depth to Water - Depth to Well Bottom)

** If "No", well is declared dry for the sampling event.

Measured Depth to Water (ft)	Quantity (gal) to Purge X Volumes* 1	3
15.00	1.66	4.97
15.25	1.61	4.84
15.50	1.57	4.71
15.75	1.53	4.58
16.00	1.48	4.44
16.25	1.44	4.31
16.50	1.39	4.18
16.75	1.35	4.05
17.00	1.31	3.92
17.25	1.26	3.79
17.50	1.22	3.66
17.75	1.18	3.53
18.00	1.13	3.40
18.25	1.09	3.27
18.50	1.05	3.14
18.75	1.00	3.01
19.00	0.96	2.88
19.25	0.92	2.75
19.50	0.87	2.61
19.75	0.83	2.48
20.00	0.78	2.35
20.25	0.74	2.22
20.50	0.70	2.09
20.75	0.65	1.96
21.00	0.61	1.83
21.25	0.57	1.70
21.50	0.52	1.57
21.75	0.48	1.44
22.00	0.44	1.31
22.25	0.39	1.18
22.50	0.35	1.05
22.75	0.31	0.92
23.00	0.26	0.78
23.25	0.22	0.65
23.50	0.17	0.52
23.75	0.13	0.39
24.00	0.09	0.26
24.25	0.04	0.13
24.50	0.00	0.00

Rico Water Sampling Form: *Station Information*

Sampling completed at this location ☒
(Do not check box until **ALL** items have been completed)

☐ Surface Water ☒ Groundwater ☐ Other

Sample Location: GW-6

Date(s) of Sample Collection: 9/12/13

Time(s) of Sample Collection: 1040

Sampler's Identity: TB mc

FIELD PARAMETERS / MEASUREMENTS

Measured Depth to Water: 21.13 ft

# of Purge Volumes	Time	Cummulative Volume (gal)	EC, µS/cm	ORP, mV	DO, ppm	pH	Temp, °C
1	1033	1.	654	-81.6	4.33	7.69	10.17
2	1036	2.	2166	-60.5	.01	6.78	9.64
3	1039	3	2076	-48.7	.64	6.55	9.55
Collected Sample Parameters:			2079	-46.9	.07	6.47	9.44

Well purged dry? ☐ Yes ☒ No

If Yes, did well recover to 80% within 24 hours?** ☒ Yes ☐ No

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
✓	GW-6_201309	12	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
✓	GW-6_201309		Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
✓	GW-6_201309		Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
✓	GW-6_201309		Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
✓	GW-6_201309		Salinity	250 mL / HDPE / None
✓	GW-6_201309		Cyanide	250 mL / HDPE / NaOH (GREEN)
✓	GW-6_201309		Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
	GW-6_201309		Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

* If conditions significantly change, purge volume can be calculated as follows:

One purge volume = 0.174305 x (Measured Depth to Water - Depth to Well Bottom)

** If "No", well is declared dry for the sampling event.

Measured Depth to Water (ft)	Quantity (gal) to Purge X Volumes* 1	3
17.25	1.68	5.03
17.50	1.63	4.89
17.75	1.59	4.76
18.00	1.54	4.63
18.25	1.50	4.50
18.50	1.46	4.37
18.75	1.41	4.24
19.00	1.37	4.11
19.25	1.33	3.98
19.50	1.28	3.85
19.75	1.24	3.72
20.00	1.20	3.59
20.25	1.15	3.46
20.50	1.11	3.33
20.75	1.07	3.20
21.00	1.02	3.06
21.25	0.98	2.93
21.50	0.93	2.80
21.75	0.89	2.67
22.00	0.85	2.54
22.25	0.80	2.41
22.50	0.76	2.28
22.75	0.72	2.15
23.00	0.67	2.02
23.25	0.63	1.89
23.50	0.59	1.76
23.75	0.54	1.63
24.00	0.50	1.50
24.25	0.45	1.36
24.50	0.41	1.23
24.75	0.37	1.10
25.00	0.32	0.97
25.25	0.28	0.84
25.50	0.24	0.71
25.75	0.19	0.58
26.00	0.15	0.45
26.25	0.11	0.32
26.50	0.06	0.19
26.75	0.02	0.06

Rico Water Sampling Form: *Station Information*

☐ Surface Water ☒ Groundwater ☐ Other

Sample Location: **GW-7**

Date(s) of Sample Collection: 9/27/13

Time(s) of Sample Collection: 10:01

Sampler's Identity: MC/TB

Sampling completed at this location ☒ (Do not check box until **ALL** items have been completed)

FIELD PARAMETERS / MEASUREMENTS

Measured Depth to Water: 22.67 ft

# of Purge Volumes	Time	Cummulative Volume (gal)	EC, µS/cm	ORP, mV	DO, ppm	pH	Temp, °C
1	9:46	0.50	925	-16.4	3.93	7.49	8.1
2	9:50	1.00	1509	9.1	3.71	6.71	9.2
3	9:56	1.50	1675	24.4	4.39	6.23	9.4
Collected Sample Parameters:			1828	28.7	3.65	6.01	9.6

Well purged dry? ☐ Yes ☒ No

If Yes, did well recover to 80% within 24 hours?** ☐ Yes ☐ No

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
✓	GW-7_201309	27	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
✓	GW-7_201309		Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
✓	GW-7_201309		Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
✓	GW-7_201309		Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
✓	GW-7_201309		Salinity	250 mL / HDPE / None
✓	GW-7_201309		Cyanide	250 mL / HDPE / NaOH (GREEN)
✓	GW-7_201309		Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
✓	GW-7_201309		Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Measured Depth to Water (ft)	Quantity (gal) to Purge X Volumes* 1	3
15.25	1.76	5.28
15.50	1.72	5.15
15.75	1.67	5.01
16.00	1.63	4.88
16.25	1.58	4.75
16.50	1.54	4.62
16.75	1.50	4.49
17.00	1.45	4.36
17.25	1.41	4.23
17.50	1.37	4.10
17.75	1.32	3.97
18.00	1.28	3.84
18.25	1.24	3.71
18.50	1.19	3.58
18.75	1.15	3.45
19.00	1.11	3.32
19.25	1.06	3.18
19.50	1.02	3.05
19.75	0.97	2.92
20.00	0.93	2.79
20.25	0.89	2.66
20.50	0.84	2.53
20.75	0.80	2.40
21.00	0.76	2.27
21.25	0.71	2.14
21.50	0.67	2.01
21.75	0.63	1.88
22.00	0.58	1.75
22.25	0.54	1.62
22.50	0.50	1.49
22.75	0.45	1.35
23.00	0.41	1.22
23.25	0.36	1.09
23.50	0.32	0.96
23.75	0.28	0.83
24.00	0.23	0.70
24.25	0.19	0.57
24.50	0.15	0.44
24.75	0.10	0.31

Notes:

* If conditions significantly change, purge volume can be calculated as follows:

One purge volume = 0.174305 x (Measured Depth to Water - Depth to Well Bottom)

** If "No", well is declared dry for the sampling event.

Well was Dirty, black Fine silty mud on the Bailer and Rope

Note: Well was in a hole and the on site contractor Filled in the hole with type A matereal and the Rain Water ~~wou~~ was and has been Running in the hole

Rico Water Sampling Form: *Station Information*

☐ Surface Water ☒ Groundwater ☐ Other

Sample Location: **EB-1**

Date(s) of Sample Collection: 9/11/13

Time(s) of Sample Collection: 11:30, 9/12/13

Sampler's Identity: MC/TB

Sampling completed at this location ☒
(Do not check box until **ALL** items have been completed)

FIELD PARAMETERS / MEASUREMENTS

Measured Depth to Water: 22.21 ft

# of Purge Volumes	Time	Cummulative Volume (gal)	EC, µS/cm	ORP, mV	DO, ppm	pH	Temp, °C
1	12:35	2.50	2205	-45.7	0.00	6.85	11.14
2							
3							
Collected Sample Parameters:			2015	-37.0	0.00	6.55	9.52

Well purged dry? ☒ Yes ☐ No

If Yes, did well recover to 80% within 24 hours?** ☒ Yes ☐ No

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
✓	EB-1_201309	12	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
✓	EB-1_201309		Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
✓	EB-1_201309		Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
✓	EB-1_201309		Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
✓	EB-1_201309		Salinity	250 mL / HDPE / None
✓	EB-1_201309		Cyanide	250 mL / HDPE / NaOH (GREEN)
✓	EB-1_201309		Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
✓	EB-1_201309		Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

* If conditions significantly change, purge volume can be calculated as follows:

One purge volume = 0.174305 x (Measured Depth to Water - Depth to Well Bottom)

** If "No", well is declared dry for the sampling event.

Measured Depth to Water (ft)	Quantity (gal) to Purge X Volumes* 1	3
19.00	2.85	8.55
19.25	2.81	8.42
19.50	2.76	8.29
19.75	2.72	8.16
20.00	2.68	8.03
20.25	2.63	7.90
20.50	2.59	7.77
20.75	2.54	7.63
21.00	2.50	7.50
21.25	2.46	7.37
21.50	2.41	7.24
21.75	2.37	7.11
22.00	2.33	6.98
22.25	2.28	6.85
22.50	2.24	6.72
22.75	2.20	6.59
23.00	2.15	6.46
23.25	2.11	6.33
23.50	2.07	6.20
23.75	2.02	6.07
24.00	1.98	5.94
24.25	1.93	5.80
24.50	1.89	5.67
24.75	1.85	5.54
25.00	1.80	5.41
25.25	1.76	5.28
25.50	1.72	5.15
25.75	1.67	5.02
26.00	1.63	4.89
26.25	1.59	4.76
26.50	1.54	4.63
26.75	1.50	4.50
27.00	1.46	4.37
27.25	1.41	4.24
27.50	1.37	4.10
27.75	1.32	3.97
28.00	1.28	3.84
28.25	1.24	3.71
28.50	1.19	3.58

Rico Water Sampling Form: *Station Information*

☐ Surface Water ☒ Groundwater ☐ Other

Sampling completed at this location ☒
(Do not check box until **ALL** items have been completed)

Sample Location: **EB-2**

Date(s) of Sample Collection: 9/11/13

Time(s) of Sample Collection: 10:00, 9/12/13

Sampler's Identity: MJ/TB

FIELD PARAMETERS / MEASUREMENTS

Measured Depth to Water: 16.67 ft

# of Purge Volumes	Time	Cummulative Volume (gal)	EC, µS/cm	ORP, mV	DO, ppm	pH	Temp, °C
1	141	1.75	3131	24.8	6.24	6.15	12.63
2							
3							
Collected Sample Parameters:			3041	-4.8	0.78	5.89	10.38

Well purged dry? ☒ Yes ☐ No

If Yes, did well recover to 80% within 24 hours?** ☒ Yes ☐ No

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
✓	EB-2_201309	12	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
✓	EB-2_201309		Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
✓	EB-2_201309		Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
✓	EB-2_201309		Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
✓	EB-2_201309		Salinity	250 mL / HDPE / None
✓	EB-2_201309		Cyanide	250 mL / HDPE / NaOH (GREEN)
✓	EB-2_201309		Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
✓	EB-2_201309		Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

* If conditions significantly change, purge volume can be calculated as follows:

One purge volume = 0.174305 x (Measured Depth to Water - Depth to Well Bottom)

** If "No", well is declared dry for the sampling event.

Measured Depth to Water (ft)	Quantity (gal) to Purge X Volumes* 1	3
14.00	2.18	6.54
14.25	2.14	6.41
14.50	2.09	6.27
14.75	2.05	6.14
15.00	2.00	6.01
15.25	1.96	5.88
15.50	1.92	5.75
15.75	1.87	5.62
16.00	1.83	5.49
~~16.25~~	~~1.79~~	~~5.36~~
16.50	1.74	5.23
16.75	1.70	5.10
17.00	1.66	4.97
17.25	1.61	4.84
17.50	1.57	4.71
17.75	1.53	4.58
18.00	1.48	4.44
18.25	1.44	4.31
18.50	1.39	4.18
18.75	1.35	4.05
19.00	1.31	3.92
19.25	1.26	3.79
19.50	1.22	3.66
19.75	1.18	3.53
20.00	1.13	3.40
20.25	1.09	3.27
20.50	1.05	3.14
20.75	1.00	3.01
21.00	0.96	2.88
21.25	0.92	2.75
21.50	0.87	2.61
21.75	0.83	2.48
22.00	0.78	2.35
22.25	0.74	2.22
22.50	0.70	2.09
22.75	0.65	1.96
23.00	0.61	1.83
23.25	0.57	1.70
23.50	0.52	1.57

Rico Water Sampling Form: *Station Information*

☐ Surface Water ☒ Groundwater ☐ Other

Sampling completed at this location ☒
(Do not check box until **ALL** items have been completed)

Sample Location: **MW-101**

Date(s) of Sample Collection: 9/27/13

Time(s) of Sample Collection: 1057

Sampler's Identity: TB TT

FIELD PARAMETERS / MEASUREMENTS

Measured Depth to Water: 25.95 ft

# of Purge Volumes	Time	Cummulative Volume (gal)	EC, µS/cm	ORP, mV	DO, ppm	pH	Temp, °C
1	10:50	2.02	1820	31.0	.26	5.90	10:32
2	1053	4.04	1777	25.0	0.62	5.90	10.84
3	1057	6.06	1797	22.4	2.05	5.89	10.78
Collected Sample Parameters:			1746	20.01	3.55	5.87	10.94

Well purged dry? ☐ Yes ☒ No

If Yes, did well recover to 80% within 24 hours?** ☐ Yes ☐ No

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
X	MW-101_201309	27	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
X	MW-101_201309	27	Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
X	MW-101_201309	27	Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
X	MW-101_201309	27	Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
X	MW-101_201309	27	Salinity	250 mL / HDPE / None
X	MW-101_201309	27	Cyanide	250 mL / HDPE / NaOH (GREEN)
X	MW-101_201309	27	Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
X	MW-101_201309	27	Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

* If conditions significantly change, purge volume can be calculated as follows:

One purge volume = 0.174305 x (Measured Depth to Water - Depth to Well Bottom)

** If "No", well is declared dry for the sampling event.

Measured Depth to Water (ft)	Quantity (gal) to Purge X Volumes* 1	3
23.00	2.55	7.64
23.25	2.50	7.51
23.50	2.46	7.38
23.75	2.42	7.25
24.00	2.37	7.12
24.25	2.33	6.98
24.50	2.28	6.85
24.75	2.24	6.72
25.00	2.20	6.59
25.25	2.15	6.46
25.50	2.11	6.33
25.75	2.07	6.20
26.00	2.02	6.07
26.25	1.98	5.94
26.50	1.94	5.81
26.75	1.89	5.68
27.00	1.85	5.55
27.25	1.81	5.42
27.50	1.76	5.29
27.75	1.72	5.15
28.00	1.67	5.02
28.25	1.63	4.89
28.50	1.59	4.76
28.75	1.54	4.63
29.00	1.50	4.50
29.25	1.46	4.37
29.50	1.41	4.24
29.75	1.37	4.11
30.00	1.33	3.98
30.25	1.28	3.85
30.50	1.24	3.72
30.75	1.20	3.59
31.00	1.15	3.45
31.25	1.11	3.32
31.50	1.06	3.19
31.75	1.02	3.06
32.00	0.98	2.93
32.25	0.93	2.80
32.50	0.89	2.67

Rico Water Sampling Form: *Station Information*

☐ Surface Water ☒ Groundwater ☐ Other

Sampling completed at this location ☑
(Do not check box until **ALL** items have been completed)

Sample Location: **MW-102**

Date(s) of Sample Collection: 9/22/13

Time(s) of Sample Collection: 1021

Sampler's Identity: TB ~~TBT~~

FIELD PARAMETERS / MEASUREMENTS

Measured Depth to Water: 22.49 ft

# of Purge Volumes	Time	Cummulative Volume (gal)	EC, µS/cm	ORP, mV	DO, ppm	pH	Temp, °C
1	1022	1.5	1329	-13.8	1.88	6.2	9.44
2	1025	3.0	1368	9.3	3.29	6.29	9.85
3	1029	4.5	1424	18.9	2.39	6.24	9.84
Collected Sample Parameters:			1435	22.1	3.08	6.28	9.49

Well purged dry? ☐ Yes ☒ No

If Yes, did well recover to 80% within 24 hours?** ☑ Yes ☐ No

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
X	MW-102_201309	27	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
X	MW-102_201309	27	Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
X	MW-102_201309	27	Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
X	MW-102_201309	27	Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
X	MW-102_201309	27	Salinity	250 mL / HDPE / None
X	MW-102_201309	27	Cyanide	250 mL / HDPE / NaOH (GREEN)
X	MW-102_201309	27	Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
X	MW-102_201309	27	Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

* If conditions significantly change, purge volume can be calculated as follows:

One purge volume = 0.174305 x (Measured Depth to Water - Depth to Well Bottom)

** If "No", well is declared dry for the sampling event.

Measured Depth to Water (ft)	Quantity (gal) to Purge X Volumes* 1	3
22.49		
21.50	1.66	4.99
21.75	1.62	4.86
22.00	1.58	4.73
22.25	1.53	4.60
22.50	1.49	4.47
22.75	1.45	4.34
23.00	1.40	4.21
23.25	1.36	4.08
23.50	1.31	3.94
23.75	1.27	3.81
24.00	1.23	3.68
24.25	1.18	3.55
24.50	1.14	3.42
24.75	1.10	3.29
25.00	1.05	3.16
25.25	1.01	3.03
25.50	0.97	2.90
25.75	0.92	2.77
26.00	0.88	2.64
26.25	0.84	2.51
26.50	0.79	2.38
26.75	0.75	2.25
27.00	0.70	2.11
27.25	0.66	1.98
27.50	0.62	1.85
27.75	0.57	1.72
28.00	0.53	1.59
28.25	0.49	1.46
28.50	0.44	1.33
28.75	0.40	1.20
29.00	0.36	1.07
29.25	0.31	0.94
29.50	0.27	0.81
29.75	0.23	0.68
30.00	0.18	0.55
30.25	0.14	0.42
30.50	0.09	0.28
30.75	0.05	0.15
31.00	0.01	0.02

Rico Water Sampling Form: *Station Information*

Sampling completed at this location ☒
(Do not check box until **ALL** items have been completed)

☐ Surface Water ☒ Groundwater ☐ Other

Sample Location: **MW-103**

Date(s) of Sample Collection: 9/12/13

Time(s) of Sample Collection: 3:17

Sampler's Identity: MC/KB

FIELD PARAMETERS / MEASUREMENTS

Measured Depth to Water: 6.51 ft

# of Purge Volumes	Time	Cummulative Volume (gal)	EC, µS/cm	ORP, mV	DO, ppm	pH	Temp, °C
1	3:07	2.50	1740	-55.7	0.48	7.70	15.52
2	3:12	5.00	1767	-38.2	1.27	6.74	14.78
3	3:15	7.50	1775	-25.6	0.30	6.38	14.602
Collected Sample Parameters:			1772	-23.1	0.83	6.29	14.76

Well purged dry? ☐ Yes ☒ No

If Yes, did well recover to 80% within 24 hours?** ☐ Yes ☐ No

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
✓	MW-103_201309	12	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
✓	MW-103_201309		Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
✓	MW-103_201309		Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
✓	MW-103_201309		Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
✓	MW-103_201309		Salinity	250 mL / HDPE / None
✓	MW-103_201309		Cyanide	250 mL / HDPE / NaOH (GREEN)
✓	MW-103_201309		Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
✓	MW-103_201309		Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

* If conditions significantly change, purge volume can be calculated as follows:

One purge volume = 0.174305 x (Measured Depth to Water - Depth to Well Bottom)

** If "No", well is declared dry for the sampling event.

Measured Depth to Water (ft)	Quantity (gal) to Purge X Volumes* 1	3
3.00	2.94	8.82
3.25	2.90	8.69
3.50	2.85	8.55
3.75	2.81	8.42
4.00	2.76	8.29
4.25	2.72	8.16
4.50	2.68	8.03
4.75	2.63	7.90
5.00	2.59	7.77
5.25	2.55	7.64
5.50	2.50	7.51
5.75	2.46	7.38
6.00	2.42	7.25
6.25	2.37	7.12
6.50	2.33	6.99
6.75	2.28	6.85
7.00	2.24	6.72
7.25	2.20	6.59
7.50	2.15	6.46
7.75	2.11	6.33
8.00	2.07	6.20
8.25	2.02	6.07
8.50	1.98	5.94
8.75	1.94	5.81
9.00	1.89	5.68
9.25	1.85	5.55
9.50	1.81	5.42
9.75	1.76	5.29
10.00	1.72	5.16
10.25	1.67	5.02
10.50	1.63	4.89
10.75	1.59	4.76
11.00	1.54	4.63
11.25	1.50	4.50
11.50	1.46	4.37
11.75	1.41	4.24
12.00	1.37	4.11
12.25	1.33	3.98
12.50	1.28	3.85

Rico Water Sampling Form: *Station Information*

☐ Surface Water ☒ Groundwater ☐ Other

Sampling completed at this location ☐
(Do not check box until **ALL** items have been completed)

Sample Location: **MW-104**
Date(s) of Sample Collection: 9/11/13
Time(s) of Sample Collection: 303
Sampler's Identity: TB MC

FIELD PARAMETERS / MEASUREMENTS

Measured Depth to Water: 3.51 ft

# of Purge Volumes	Time	Cummulative Volume (gal)	EC, µS/cm	ORP, mV	DO, ppm	pH	Temp, °C
1	250	2.5	1466	-29.25	1.31	7.26	17.26
2	254	5.0	1465	.03	1.29	6.64	17.44
3	301	7.5	1444	13.0	.89	6.66	18.61
Collected Sample Parameters:			1465	17.4	1.14	6.71	17.06

Well purged dry? ☐ Yes ☒ No
If Yes, did well recover to 80% within 24 hours?** ☒ Yes ☐ No

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
✓	MW-104_201309	11	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
✓	MW-104_201309		Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
✓	MW-104_201309		Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
✓	MW-104_201309		Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
✓	MW-104_201309		Salinity	250 mL / HDPE / None
✓	MW-104_201309		Cyanide	250 mL / HDPE / NaOH (GREEN)
✓	MW-104_201309		Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
✓	MW-104_201309		Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

* If conditions significantly change, purge volume can be calculated as follows:

One purge volume = 0.174305 x (Measured Depth to Water - Depth to Well Bottom)

** If "No", well is declared dry for the sampling event.

Measured Depth to Water (ft)	Quantity (gal) to Purge X Volumes* 1	3
0.00	3.11	9.34
0.25	3.07	9.21
0.50	3.03	9.08
0.75	2.98	8.95
1.00	2.94	8.82
1.25	2.89	8.68
1.50	2.85	8.55
1.75	2.81	8.42
2.00	2.76	8.29
2.25	2.72	8.16
2.50	2.68	8.03
2.75	2.63	7.90
3.00	2.59	7.77
3.25	2.55	7.64
3.50	2.50	7.51
3.75	2.46	7.38
4.00	2.42	7.25
4.25	2.37	7.12
4.50	2.33	6.99
4.75	2.28	6.85
5.00	2.24	6.72
5.25	2.20	6.59
5.50	2.15	6.46
5.75	2.11	6.33
6.00	2.07	6.20
6.25	2.02	6.07
6.50	1.98	5.94
6.75	1.94	5.81
7.00	1.89	5.68
7.25	1.85	5.55
7.50	1.81	5.42
7.75	1.76	5.29
8.00	1.72	5.15
8.25	1.67	5.02
8.50	1.63	4.89
8.75	1.59	4.76
9.00	1.54	4.63
9.25	1.50	4.50
9.50	1.46	4.37

Rico Water Sampling Form: *Station Information*

☐ Surface Water ☒ Groundwater ☐ Other

Sampling completed at this location ☐
(Do not check box until **ALL** items have been completed)

Sample Location: **MW-202**

Date(s) of Sample Collection: 9/30/13

Time(s) of Sample Collection: 15:00

Sampler's Identity: MC / TDS

FIELD PARAMETERS / MEASUREMENTS

Measured Depth to Water: 33.47 ft

Measured Depth to Water (ft)	Quantity (gal) to Purge X Volumes*	
	1	3

# of Purge Volumes	Time	Cummulative Volume (gal)	EC, µS/cm	ORP, mV	DO, ppm	pH	Temp, °C
1							
2							
3							
Collected Sample Parameters:							

Well purged dry? ☐ Yes ☐ No

If Yes, did well recover to 80% within 24 hours?** ☐ Yes ☐ No

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
	MW-202_201309		Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
	MW-202_201309		Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
	MW-202_201309		Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
	MW-202_201309		Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
	MW-202_201309		Salinity	250 mL / HDPE / None
	MW-202_201309		Cyanide	250 mL / HDPE / NaOH (GREEN)
	MW-202_201309		Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
	MW-202_201309		Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

* If conditions significantly change, purge volume can be calculated as follows:

One purge volume = 0.174305 x (Measured Depth to Water - Depth to Well Bottom)

** If "No", well is declared dry for the sampling event.

not enough water to sample or take parameters

Rico Water Sampling Form: *Station Information*

☐ Surface Water ☒ Groundwater ☐ Other

Sampling completed at this location ☒
(Do not check box until **ALL** items have been completed)

Sample Location: **MW-204**

Date(s) of Sample Collection: 9/26/13

Time(s) of Sample Collection: ~~3:40~~ 15:40

Sampler's Identity: ML/TB MC 9/26/13

FIELD PARAMETERS / MEASUREMENTS

Measured Depth to Water: 14.45 ft

# of Purge Volumes	Time	Cummulative Volume (gal)	EC, µS/cm	ORP, mV	DO, ppm	pH	Temp, °C
1							
2							
3							
Collected Sample Parameters:							

Well purged dry? ☐ Yes ☐ No

If Yes, did well recover to 80% within 24 hours?** ☐ Yes ☐ No

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
	MW-204_201309		Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
	MW-204_201309		Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
	MW-204_201309		Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
	MW-204_201309		Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
	MW-204_201309		Salinity	250 mL / HDPE / None
	MW-204_201309		Cyanide	250 mL / HDPE / NaOH (GREEN)
	MW-204_201309		Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
	MW-204_201309		Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

* If conditions significantly change, purge volume can be calculated as follows:

One purge volume = 0.174305 x (Measured Depth to Water - Depth to Well Bottom)

** If "No", well is declared dry for the sampling event.

broke pipe - cannot measure

Measured Depth to Water (ft)	Quantity (gal) to Purge X Volumes* 1	3
11.00	3.09	9.26
11.25	3.04	9.13
11.50	3.00	9.00
11.75	2.96	8.87
12.00	2.91	8.73
12.25	2.87	8.60
12.50	2.82	8.47
12.75	2.78	8.34
13.00	2.74	8.21
13.25	2.69	8.08
13.50	2.65	7.95
13.75	2.61	7.82
14.00	2.56	7.69
14.25	2.52	7.56
14.50	2.48	7.43
14.75	2.43	7.30
15.00	2.39	7.17
15.25	2.35	7.04
15.50	2.30	6.90
15.75	2.26	6.77
16.00	2.21	6.64
16.25	2.17	6.51
16.50	2.13	6.38
16.75	2.08	6.25
17.00	2.04	6.12
17.25	2.00	5.99
17.50	1.95	5.86
17.75	1.91	5.73
18.00	1.87	5.60
18.25	1.82	5.47
18.50	1.78	5.34
18.75	1.74	5.21
19.00	1.69	5.07
19.25	1.65	4.94
19.50	1.60	4.81
19.75	1.56	4.68
20.00	1.52	4.55
20.25	1.47	4.42
20.50	1.43	4.29

Rico Water Sampling Form: *Station Information*

☐ Surface Water ☒ Groundwater ☐ Other

Sample Location: **P13-102**

Date(s) of Sample Collection: 9/12/13

Time(s) of Sample Collection: 1:02

Sampler's Identity: MC/TB

Sampling completed at this location ☒
(Do not check box until **ALL** items have been completed)

FIELD PARAMETERS / MEASUREMENTS

Measured Depth to Water: 10.04 ft

# of Purge Volumes	Time	Cummulative Volume (gal)	EC, µS/cm	ORP, mV	DO, ppm	pH	Temp, °C
1	12:45	4.50	1785	-48.5	1.19	7.04	9.52
2	12:55	9.00	1796	-20.5	0.03	6.60	9.26
3	1:00	13.50	1805	-48.5	0.07	6.65	9.98
Collected Sample Parameters:			1827	-39.7	~~0.05~~ 0.47 MC 9/12/13	6.62	8.91

Well purged dry? ☐ Yes ☒ No

If Yes, did well recover to 80% within 24 hours?** ☐ Yes ☐ No

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
✓	P13-102_201309	12	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
✓	P13-102_201309		Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
✓	P13-102_201309		Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
✓	P13-102_201309		Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
✓	P13-102_201309		Salinity	250 mL / HDPE / None
✓	P13-102_201309		Cyanide	250 mL / HDPE / NaOH (GREEN)
✓	P13-102_201309		Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
	P13-102_201309		Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

* If conditions significantly change, purge volume can be calculated as follows:

One purge volume = 0.174305 x (Measured Depth to Water - Depth to Well Bottom)

** If "No", well is declared dry for the sampling event.

Measured Depth to Water (ft)	Quantity (gal) to Purge X Volumes* 1	3
6.00	5.13	15.38
6.25	5.08	15.25
6.50	5.04	15.12
6.75	5.00	14.99
7.00	4.95	14.86
7.25	4.91	14.73
7.50	4.87	14.60
7.75	4.82	14.47
8.00	4.78	14.33
8.25	4.73	14.20
8.50	4.69	14.07
8.75	4.65	13.94
9.00	4.60	13.81
9.25	4.56	13.68
9.50	4.52	13.55
9.75	4.47	13.42
10.00	4.43	13.29
10.25	4.39	13.16
10.50	4.34	13.03
10.75	4.30	12.90
11.00	4.26	12.77
11.25	4.21	12.64
11.50	4.17	12.50
11.75	4.12	12.37
12.00	4.08	12.24
12.25	4.04	12.11
12.50	3.99	11.98
12.75	3.95	11.85
13.00	3.91	11.72
13.25	3.86	11.59
13.50	3.82	11.46
13.75	3.78	11.33
14.00	3.73	11.20
14.25	3.69	11.07
14.50	3.65	10.94
14.75	3.60	10.80
15.00	3.56	10.67
15.25	3.51	10.54
15.50	3.47	10.41

Rico Water Sampling Form: *Station Information*

Sampling completed at this location ☐
(Do not check box until **ALL** items have been completed)

☐ Surface Water ☒ Groundwater ☐ Other

Sample Location: **P13-103**

Date(s) of Sample Collection: 9/12/13

Time(s) of Sample Collection: 12:42

Sampler's Identity: ML/DB

FIELD PARAMETERS / MEASUREMENTS

Measured Depth to Water: 9.09 ft

# of Purge Volumes	Time	Cummulative Volume (gal)	EC, µS/cm	ORP, mV	DO, ppm	pH	Temp, °C
1	12:30	2.00	1594	-78.7	0.67	6.57	10.21
2	12:35	4.00	1620	-71.4	0.68	6.48	9.80
3	12:40	6.00	1662	-42.2	2.36	6.51	9.63
Collected Sample Parameters:			1667	-64.6	0.62	6.46	9.59

Well purged dry? ☐ Yes ☒ No

If Yes, did well recover to 80% within 24 hours?** ☐ Yes ☐ No

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
✓	P13-103_201309	12	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
✓	P13-103_201309		Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
✓	P13-103_201309		Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
✓	P13-103_201309		Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
✓	P13-103_201309		Salinity	250 mL / HDPE / None
✓	P13-103_201309		Cyanide	250 mL / HDPE / NaOH (GREEN)
✓	P13-103_201309		Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
✓	P13-103_201309		Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

* If conditions significantly change, purge volume can be calculated as follows:

One purge volume = 0.174305 x (Measured Depth to Water - Depth to Well Bottom)

** If "No", well is declared dry for the sampling event.

Measured Depth to Water (ft)	Quantity (gal) to Purge X Volumes* 1	3
6.00	2.50	7.50
6.25	2.45	7.36
6.50	2.41	7.23
6.75	2.37	7.10
7.00	2.32	6.97
7.25	2.28	6.84
7.50	2.24	6.71
7.75	2.19	6.58
8.00	2.15	6.45
8.25	2.11	6.32
8.50	2.06	6.19
8.75	2.02	6.06
9.00	1.98	5.93
9.25	1.93	5.80
9.50	1.89	5.67
9.75	1.84	5.53
10.00	1.80	5.40
10.25	1.76	5.27
10.50	1.71	5.14
10.75	1.67	5.01
11.00	1.63	4.88
11.25	1.58	4.75
11.50	1.54	4.62
11.75	1.50	4.49
12.00	1.45	4.36
12.25	1.41	4.23
12.50	1.37	4.10
12.75	1.32	3.97
13.00	1.28	3.84
13.25	1.23	3.70
13.50	1.19	3.57
13.75	1.15	3.44
14.00	1.10	3.31
14.25	1.06	3.18
14.50	1.02	3.05
14.75	0.97	2.92
15.00	0.93	2.79
15.25	0.89	2.66
15.50	0.84	2.53

Rico Water Sampling Form: *Station Information*

Sampling completed at this location [X]
(Do not check box until **ALL** items have been completed)

☐ Surface Water ☒ Groundwater ☐ Other

Sample Location: **MW-1 DEEP**

Date(s) of Sample Collection: 9/12/13

Time(s) of Sample Collection: 12:20

Sampler's Identity: MC/TB

FIELD PARAMETERS / MEASUREMENTS

Measured Depth to Water: 8.91 ft

# of Purge Volumes	Time	Cummulative Volume (gal)	EC, µS/cm	ORP, mV	DO, ppm	pH	Temp, °C
1	1201	3	1354	6.4	.8	6.61	15.85
2	1210	6	1426	8.7	.59	6.59	15.45
3	1215	9	1418	5.5	.86	6.66	15.41
Collected Sample Parameters:			1410	12.3	1.74	6.72	15.18

Well purged dry? ☐ Yes ☒ No

If Yes, did well recover to 80% within 24 hours?** ☐ Yes ☐ No

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
✓	MW-1 DEEP_201309	12	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
✓	MW-1 DEEP_201309		Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
✓	MW-1 DEEP_201309		Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
✓	MW-1 DEEP_201309		Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
✓	MW-1 DEEP_201309		Salinity	250 mL / HDPE / None
✓	MW-1 DEEP_201309		Cyanide	250 mL / HDPE / NaOH (GREEN)
✓	MW-1 DEEP_201309		Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
✓	MW-1 DEEP_201309		Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

* If conditions significantly change, purge volume can be calculated as follows:

One purge volume = 0.174305 x (Measured Depth to Water - Depth to Well Bottom)

** If "No", well is declared dry for the sampling event.

Measured Depth to Water (ft)	Quantity (gal) to Purge X Volumes* 1	3
6.00	3.32	9.97
6.25	3.28	9.84
6.50	3.24	9.71
6.75	3.19	9.58
7.00	3.15	9.45
7.25	3.11	9.32
7.50	3.06	9.19
7.75	3.02	9.06
8.00	2.98	8.93
8.25	2.93	8.80
8.50	2.89	8.66
8.75	2.84	8.53
9.00	2.80	8.40
9.25	2.76	8.27
9.50	2.71	8.14
9.75	2.67	8.01
10.00	2.63	7.88
10.25	2.58	7.75
10.50	2.54	7.62
10.75	2.50	7.49
11.00	2.45	7.36
11.25	2.41	7.23
11.50	2.37	7.10
11.75	2.32	6.97
12.00	2.28	6.83
12.25	2.23	6.70
12.50	2.19	6.57
12.75	2.15	6.44
13.00	2.10	6.31
13.25	2.06	6.18
13.50	2.02	6.05
13.75	1.97	5.92
14.00	1.93	5.79
14.25	1.89	5.66
14.50	1.84	5.53
14.75	1.80	5.40
15.00	1.76	5.27
15.25	1.71	5.14
15.50	1.67	5.00

Rico Water Sampling Form: *Station Information*

☐ Surface Water ☒ Groundwater ☐ Other

Sampling completed at this location ☒
(Do not check box until **ALL** items have been completed)

Sample Location: **MW-1 SHALLOW**

Date(s) of Sample Collection: 9/12/13

Time(s) of Sample Collection: 12:15

Sampler's Identity: MC HB

FIELD PARAMETERS / MEASUREMENTS

Measured Depth to Water: 6.02 ft

# of Purge Volumes	Time	Cummulative Volume (gal)	EC, µS/cm	ORP, mV	DO, ppm	pH	Temp, °C
1	12:00	0.75	1354	12.0	1.04	6.54	15.45
2	12:05	1.50	1364	8.5	0.92	6.64	16.11
3	12:10	2.25	1360	11.8	1.11	6.68	15.79
Collected Sample Parameters:			1372	~~11.3~~ 7.6	0.69	6.78	15.12

Well purged dry? ☐ Yes ☒ No

If Yes, did well recover to 80% within 24 hours?** ☐ Yes ☐ No

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
✓	MW-1 SHALLOW_201309	12	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
✓	MW-1 SHALLOW_201309		Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
✓	MW-1 SHALLOW_201309		Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
✓	MW-1 SHALLOW_201309		Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
✓	MW-1 SHALLOW_201309		Salinity	250 mL / HDPE / None
✓	MW-1 SHALLOW_201309		Cyanide	250 mL / HDPE / NaOH (GREEN)
✓	MW-1 SHALLOW_201309		Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
✓	MW-1 SHALLOW_201309		Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

* If conditions significantly change, purge volume can be calculated as follows:

One purge volume = 0.174305 x (Measured Depth to Water - Depth to Well Bottom)

** If "No", well is declared dry for the sampling event.

Measured Depth to Water (ft)	Quantity (gal) to Purge X Volumes* 1	3
0.75	1.66	4.99
1.00	1.62	4.86
1.25	1.58	4.73
1.50	1.53	4.60
1.75	1.49	4.47
2.00	1.44	4.33
2.25	1.40	4.20
2.50	1.36	4.07
2.75	1.31	3.94
3.00	1.27	3.81
3.25	1.23	3.68
3.50	1.18	3.55
3.75	1.14	3.42
4.00	1.10	3.29
4.25	1.05	3.16
4.50	1.01	3.03
4.75	0.97	2.90
5.00	0.92	2.77
5.25	0.88	2.64
5.50	0.83	2.50
5.75	0.79	2.37
6.00	0.75	2.24
6.25	0.70	2.11
6.50	0.66	1.98
6.75	0.62	1.85
7.00	0.57	1.72
7.25	0.53	1.59
7.50	0.49	1.46
7.75	0.44	1.33
8.00	0.40	1.20
8.25	0.36	1.07
8.50	0.31	0.94
8.75	0.27	0.81
9.00	0.22	0.67
9.25	0.18	0.54
9.50	0.14	0.41
9.75	0.09	0.28
10.00	0.05	0.15
10.25	0.01	0.02

Rico Water Sampling Form: *Station Information*

☐ Surface Water ☒ Groundwater ☐ Other

Sample Location: **MW-2 DEEP**

Date(s) of Sample Collection: 9/12/13

Time(s) of Sample Collection: 3:37

Sampler's Identity: MC/TB

Sampling completed at this location ☒
(Do not check box until **ALL** items have been completed)

FIELD PARAMETERS / MEASUREMENTS

Measured Depth to Water: 9.64 ft

# of Purge Volumes	Time	Cummulative Volume (gal)	EC, µS/cm	ORP, mV	DO, ppm	pH	Temp, °C
1	3:26	2.50	1438	-46.9	0.86	7.44	14.63
2	3:31	5.0	1448	-11.0	1.02	6.83	14.37
3	3:35	7.0	1450	-2.1	0.60	6.76	14.18
Collected Sample Parameters:			1452	4.4	.90	6.76	14.16

Well purged dry? ☐ Yes ☒ No

If Yes, did well recover to 80% within 24 hours?** ☒ Yes ☐ No

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
✓	MW-2 DEEP_201309	12	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
✓	MW-2 DEEP_201309		Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
✓	MW-2 DEEP_201309		Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
✓	MW-2 DEEP_201309		Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
✓	MW-2 DEEP_201309		Salinity	250 mL / HDPE / None
✓	MW-2 DEEP_201309		Cyanide	250 mL / HDPE / NaOH (GREEN)
✓	MW-2 DEEP_201309		Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
✓	MW-2 DEEP_201309		Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

* If conditions significantly change, purge volume can be calculated as follows:

One purge volume = 0.174305 x (Measured Depth to Water - Depth to Well Bottom)

** If "No", well is declared dry for the sampling event.

Measured Depth to Water (ft)	Quantity (gal) to Purge X Volumes* 1	3
6.00	2.97	8.92
6.25	2.93	8.78
6.50	2.88	8.65
6.75	2.84	8.52
7.00	2.80	8.39
7.25	2.75	8.26
7.50	2.71	8.13
7.75	2.67	8.00
8.00	2.62	7.87
8.25	2.58	7.74
8.50	2.54	7.61
8.75	2.49	7.48
9.00	2.45	7.35
9.25	2.41	7.22
9.50	2.36	7.09
9.75	2.32	6.95
10.00	2.27	6.82
10.25	2.23	6.69
10.50	2.19	6.56
10.75	2.14	6.43
11.00	2.10	6.30
11.25	2.06	6.17
11.50	2.01	6.04
11.75	1.97	5.91
12.00	1.93	5.78
12.25	1.88	5.65
12.50	1.84	5.52
12.75	1.80	5.39
13.00	1.75	5.26
13.25	1.71	5.12
13.50	1.66	4.99
13.75	1.62	4.86
14.00	1.58	4.73
14.25	1.53	4.60
14.50	1.49	4.47
14.75	1.45	4.34
15.00	1.40	4.21
15.25	1.36	4.08
15.50	1.32	3.95

Rico Water Sampling Form: *Station Information*

Sampling completed at this location ☐
(Do not check box until **ALL** items have been completed)

☐ Surface Water ☒ Groundwater ☐ Other

Sample Location: **MW-2 SHALLOW**

Date(s) of Sample Collection: 9/12/13

Time(s) of Sample Collection: 3:40

Sampler's Identity: MC/TB

Measured Depth to Water (ft)	Quantity (gal) to Purge X Volumes*	
	1	3

FIELD PARAMETERS / MEASUREMENTS

Measured Depth to Water: 9.87 ft

depth to bottom: 10.14

# of Purge Volumes	Time	Cummulative Volume (gal)	EC, µS/cm	ORP, mV	DO, ppm	pH	Temp, °C
1							
2							
3							
Collected Sample Parameters:							

Well purged dry? ☐ Yes ☐ No

If Yes, did well recover to 80% within 24 hours?** ☐ Yes ☐ No

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
	MW-2 SHALLOW_201309		Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
	MW-2 SHALLOW_201309		Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
	MW-2 SHALLOW_201309		Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
	MW-2 SHALLOW_201309		Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
	MW-2 SHALLOW_201309		Salinity	250 mL / HDPE / None
	MW-2 SHALLOW_201309		Cyanide	250 mL / HDPE / NaOH (GREEN)
	MW-2 SHALLOW_201309		Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
	MW-2 SHALLOW_201309		Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

* If conditions significantly change, purge volume can be calculated as follows:

One purge volume = 0.174305 x (Measured Depth to Water - Depth to Well Bottom)

** If "No", well is declared dry for the sampling event.

could not sample - not enough water

Rico Water Sampling Form: *Station Information*

☐ Surface Water ☒ Groundwater ☐ Other

Sample Location: **MW-3 DEEP**

Date(s) of Sample Collection: 9/12/13

Time(s) of Sample Collection: 4:00

Sampler's Identity: MC/TB

Sampling completed at this location ☒
(Do not check box until **ALL** items have been completed)

FIELD PARAMETERS / MEASUREMENTS

Measured Depth to Water: 9.66 ft

# of Purge Volumes	Time	Cummulative Volume (gal)	EC, µS/cm	ORP, mV	DO, ppm	pH	Temp, °C
1	3:50	2.50	1453	-20.5	0.93	6.71	15.53
2	3:55	5.00	1440	-35.3	1.14	6.70	15.72
3	3:58	7.50	1446	-37.7	0.85	6.71	15.67
Collected Sample Parameters:			1448	-42.0	0.71	6.67	15.54

Well purged dry? ☐ Yes ☒ No

If Yes, did well recover to 80% within 24 hours?** ☐ Yes ☐ No

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
✓	MW-3 DEEP_201309	12	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
✓	MW-3 DEEP_201309		Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
✓	MW-3 DEEP_201309		Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
✓	MW-3 DEEP_201309		Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
✓	MW-3 DEEP_201309		Salinity	250 mL / HDPE / None
✓	MW-3 DEEP_201309		Cyanide	250 mL / HDPE / NaOH (GREEN)
✓	MW-3 DEEP_201309		Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
✓	MW-3 DEEP_201309		Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

* If conditions significantly change, purge volume can be calculated as follows:

One purge volume = 0.174305 x (Measured Depth to Water - Depth to Well Bottom)

** If "No", well is declared dry for the sampling event.

Measured Depth to Water (ft)	Quantity (gal) to Purge X Volumes* 1	3
6.00	3.01	9.04
6.25	2.97	8.91
6.50	2.93	8.78
6.75	2.88	8.65
7.00	2.84	8.52
7.25	2.80	8.39
7.50	2.75	8.26
7.75	2.71	8.13
8.00	2.67	8.00
8.25	2.62	7.86
8.50	2.58	7.73
8.75	2.53	7.60
9.00	2.49	7.47
9.25	2.45	7.34
9.50	2.40	7.21
9.75	2.36	7.08
10.00	2.32	6.95
10.25	2.27	6.82
10.50	2.23	6.69
10.75	2.19	6.56
11.00	2.14	6.43
11.25	2.10	6.30
11.50	2.06	6.17
11.75	2.01	6.03
12.00	1.97	5.90
12.25	1.92	5.77
12.50	1.88	5.64
12.75	1.84	5.51
13.00	1.79	5.38
13.25	1.75	5.25
13.50	1.71	5.12
13.75	1.66	4.99
14.00	1.62	4.86
14.25	1.58	4.73
14.50	1.53	4.60
14.75	1.49	4.47
15.00	1.44	4.33
15.25	1.40	4.20
15.50	1.36	4.07

Rico Water Sampling Form: *Station Information*

☐ Surface Water ☒ Groundwater ☐ Other

Sampling completed at this location ☐
(Do not check box until **ALL** items have been completed)

Sample Location: **MW-3 SHALLOW**

Date(s) of Sample Collection: 9/12/13

Time(s) of Sample Collection: 4:02

Sampler's Identity: MC/TB

FIELD PARAMETERS / MEASUREMENTS

Measured Depth to Water: _____ ft

# of Purge Volumes	Time	Cummulative Volume (gal)	EC, µS/cm	ORP, mV	DO, ppm	pH	Temp, °C
1							
2							
3							
Collected Sample Parameters:							

Measured Depth to Water (ft)	Quantity (gal) to Purge X Volumes*	
	1	3

Well purged dry? ☐ Yes ☐ No

If Yes, did well recover to 80% within 24 hours?** ☐ Yes ☐ No

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
	MW-3 SHALLOW_201309		Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
	MW-3 SHALLOW_201309		Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
	MW-3 SHALLOW_201309		Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
	MW-3 SHALLOW_201309		Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
	MW-3 SHALLOW_201309		Salinity	250 mL / HDPE / None
	MW-3 SHALLOW_201309		Cyanide	250 mL / HDPE / NaOH (GREEN)
	MW-3 SHALLOW_201309		Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
	MW-3 SHALLOW_201309		Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

* If conditions significantly change, purge volume can be calculated as follows:

One purge volume = 0.174305 x (Measured Depth to Water - Depth to Well Bottom)

** If "No", well is declared dry for the sampling event.

not enough water to measure or sample

Rico Water Sampling Form: *Station Information*

☐ Surface Water ☒ Groundwater ☐ Other

Sample Location: **MW-4 DEEP**

Date(s) of Sample Collection: 9/11/13

Time(s) of Sample Collection: 2:30

Sampler's Identity: MC/TB

Sampling completed at this location ☒
(Do not check box until **ALL** items have been completed)

FIELD PARAMETERS / MEASUREMENTS

Measured Depth to Water: 16.56 ft

# of Purge Volumes	Time	Cummulative Volume (gal)	EC, µS/cm	ORP, mV	DO, ppm	pH	Temp, °C
1	2:15	2.75	1658	22.4	0.93	6.09	13.01
2	2:20	5.50	1660	27.3	1.01	6.38	14.23
3	2:25	8.25	1672	27.9	.61	6.18	14.44
Collected Sample Parameters:			1671	42.8	1.07	6.08	13.66

Well purged dry? ☐ Yes ☒ No

If Yes, did well recover to 80% within 24 hours?** ☐ Yes ☐ No

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
✓	MW-4 DEEP_201309	11	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
✓	MW-4 DEEP_201309		Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
✓	MW-4 DEEP_201309		Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
✓	MW-4 DEEP_201309		Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
✓	MW-4 DEEP_201309		Salinity	250 mL / HDPE / None
✓	MW-4 DEEP_201309		Cyanide	250 mL / HDPE / NaOH (GREEN)
✓	MW-4 DEEP_201309		Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
✓	MW-4 DEEP_201309		Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

* If conditions significantly change, purge volume can be calculated as follows:

One purge volume = 0.174305 x (Measured Depth to Water - Depth to Well Bottom)

** If "No", well is declared dry for the sampling event.

9/20/13 14.19 1st sample sent on 9/12 was misplaced by lab. 2nd sample is as follows:

934 3. 1339 34.1 3.08 6.12 11.99

940 6. 1338 38.3 3.41 6.20 12.64

946 9. 1341 40.8 3.08 6.23 11.98

~~948~~

Measured Depth to Water (ft)	Quantity (gal) to Purge X Volumes* 1	3
13.00	3.18	9.54
13.25	3.14	9.41
13.50	3.09	9.28
13.75	3.05	9.15
14.00	3.01	9.02
14.25	2.96	8.88
14.50	2.92	8.75
14.75	2.87	8.62
15.00	2.83	8.49
15.25	2.79	8.36
15.50	2.74	8.23
15.75	2.70	8.10
16.00	2.66	7.97
16.25	2.61	7.84
16.50	2.57	7.71
16.75	2.53	7.58
17.00	2.48	7.45
17.25	2.44	7.32
17.50	2.39	7.18
17.75	2.35	7.05
18.00	2.31	6.92
18.25	2.26	6.79
18.50	2.22	6.66
18.75	2.18	6.53
19.00	2.13	6.40
19.25	2.09	6.27
19.50	2.05	6.14
19.75	2.00	6.01
20.00	1.96	5.88
20.25	1.92	5.75
20.50	1.87	5.62
20.75	1.83	5.49
21.00	1.78	5.35
21.25	1.74	5.22
21.50	1.70	5.09
21.75	1.65	4.96
22.00	1.61	4.83
22.25	1.57	4.70
22.50	1.52	4.57

Rico Water Sampling Form: *Station Information*

☐ Surface Water ☒ Groundwater ☐ Other

Sample Location: **MW-4 DEEP**

Date(s) of Sample Collection: 9/27/13

Time(s) of Sample Collection:

Sampler's Identity: MC/TB

Sampling completed at this location ☐
(Do not check box until **ALL** items have been completed)

FIELD PARAMETERS / MEASUREMENTS

Measured Depth to Water: 14.19 ft

# of Purge Volumes	Time	Cummulative Volume (gal)	EC, µS/cm	ORP, mV	DO, ppm	pH	Temp, °C
1	9:34	3.00	1339	34.1	3.08	6.12	11.99
2	9:40	6.00	1338	38.3	3.41	6.20	12.64
3	9:46	9.00	1341	40.8	3.08	6.23	11.98
Collected Sample Parameters:							

Well purged dry? ☐ Yes ☒ No

If Yes, did well recover to 80% within 24 hours?** ☐ Yes ☐ No

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
	MW-4 DEEP_201309		Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
	MW-4 DEEP_201309		Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
	MW-4 DEEP_201309		Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
	MW-4 DEEP_201309		Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
	MW-4 DEEP_201309		Salinity	250 mL / HDPE / None
	MW-4 DEEP_201309		Cyanide	250 mL / HDPE / NaOH (GREEN)
	MW-4 DEEP_201309		Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
	MW-4 DEEP_201309		Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

* If conditions significantly change, purge volume can be calculated as follows:

One purge volume = 0.174305 x (Measured Depth to Water - Depth to Well Bottom)

** If "No", well is declared dry for the sampling event.

Measured Depth to Water (ft)	Quantity (gal) to Purge X Volumes* 1	3
13.00	3.18	9.54
13.25	3.14	9.41
13.50	3.09	9.28
13.75	3.05	9.15
14.00	3.01	9.02
14.25	2.96	8.88
14.50	2.92	8.75
14.75	2.87	8.62
15.00	2.83	8.49
15.25	2.79	8.36
15.50	2.74	8.23
15.75	2.70	8.10
16.00	2.66	7.97
16.25	2.61	7.84
16.50	2.57	7.71
16.75	2.53	7.58
17.00	2.48	7.45
17.25	2.44	7.32
17.50	2.39	7.18
17.75	2.35	7.05
18.00	2.31	6.92
18.25	2.26	6.79
18.50	2.22	6.66
18.75	2.18	6.53
19.00	2.13	6.40
19.25	2.09	6.27
19.50	2.05	6.14
19.75	2.00	6.01
20.00	1.96	5.88
20.25	1.92	5.75
20.50	1.87	5.62
20.75	1.83	5.49
21.00	1.78	5.35
21.25	1.74	5.22
21.50	1.70	5.09
21.75	1.65	4.96
22.00	1.61	4.83
22.25	1.57	4.70
22.50	1.52	4.57

Rico Water Sampling Form: *Station Information*

☐ Surface Water ☒ Groundwater ☐ Other

Sample Location: **MW-4 SHALLOW**

Date(s) of Sample Collection: 9/11/13

Time(s) of Sample Collection: 11:40 → 11/12/13

Sampler's Identity: MC/TB

Sampling completed at this location ☒
(Do not check box until **ALL** items have been completed)

FIELD PARAMETERS / MEASUREMENTS

Measured Depth to Water: 10.61 ft

# of Purge Volumes	Time	Cummulative Volume (gal)	EC, µS/cm	ORP, mV	DO, ppm	pH	Temp, °C
1	2:10	0.50	1601	4.3	1.27	6.12	13.68
2							
3							
Collected Sample Parameters:			1558	10.4	1.00	6.53	12.77

Well purged dry? ☒ Yes ☐ No

If Yes, did well recover to 80% within 24 hours?** ☒ Yes ☐ No

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
✓	MW-4 SHALLOW_201309	12	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
✓	MW-4 SHALLOW_201309		Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
✓	MW-4 SHALLOW_201309		Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
✓	MW-4 SHALLOW_201309		Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
✓	MW-4 SHALLOW_201309		Salinity	250 mL / HDPE / None
✓	MW-4 SHALLOW_201309		Cyanide	250 mL / HDPE / NaOH (GREEN)
✓	MW-4 SHALLOW_201309		Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
✓	MW-4 SHALLOW_201309		Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

* If conditions significantly change, purge volume can be calculated as follows:

One purge volume = 0.174305 x (Measured Depth to Water - Depth to Well Bottom)

** If "No", well is declared dry for the sampling event.

Measured Depth to Water (ft)	Quantity (gal) to Purge X Volumes* 1	3
8.75	1.68	5.04
9.00	1.64	4.91
9.25	1.59	4.78
9.50	1.55	4.65
9.75	1.51	4.52
10.00	1.46	4.39
10.25	1.42	4.26
10.50	1.38	4.13
10.75	1.33	4.00
11.00	1.29	3.86
11.25	1.24	3.73
11.50	1.20	3.60
11.75	1.16	3.47
12.00	1.11	3.34
12.25	1.07	3.21
12.50	1.03	3.08
12.75	0.98	2.95
13.00	0.94	2.82
13.25	0.90	2.69
13.50	0.85	2.56
13.75	0.81	2.43
14.00	0.77	2.30
14.25	0.72	2.16
14.50	0.68	2.03
14.75	0.63	1.90
15.00	0.59	1.77
15.25	0.55	1.64
15.50	0.50	1.51
15.75	0.46	1.38
16.00	0.42	1.25
16.25	0.37	1.12
~~16.50~~	~~0.33~~	~~0.99~~
16.75	0.29	0.86
17.00	0.24	0.73
17.25	0.20	0.60
17.50	0.16	0.47
17.75	0.11	0.33
18.00	0.07	0.20
18.25	0.02	0.07

Rico Water Sampling Form: *Station Information*

☐ Surface Water ☒ Groundwater ☐ Other

Sampling completed at this location ☒
(Do not check box until **ALL** items have been completed)

Sample Location: **MW-5 DEEP**

Date(s) of Sample Collection: 9/11/13

Time(s) of Sample Collection: 1:30

Sampler's Identity: MC/TB

FIELD PARAMETERS / MEASUREMENTS

Measured Depth to Water: 17.14 ft

-124 MC 9/11/13

# of Purge Volumes	Time	Cummulative Volume (gal)	EC, µS/cm	ORP, mV	DO, ppm	pH	Temp, °C
1	1:10	3.0	2440	29	0.52	5.57	10.50
2	1:15	6.0	2214	-10.8	0.39	5.96	10.59
3	1:21	9.0	2103	4.4	0.28	5.77	10.77
Collected Sample Parameters:			2006	-34.6	1.11	6.14	11.30

Well purged dry? ☐ Yes ☒ No

If Yes, did well recover to 80% within 24 hours?** ☐ Yes ☐ No

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
✓	MW-5 DEEP_201309	11	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
✓	MW-5 DEEP_201309		Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
✓	MW-5 DEEP_201309		Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
✓	MW-5 DEEP_201309		Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
✓	MW-5 DEEP_201309		Salinity	250 mL / HDPE / None
✓	MW-5 DEEP_201309		Cyanide	250 mL / HDPE / NaOH (GREEN)
✓	MW-5 DEEP_201309		Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
✓	MW-5 DEEP_201309		Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

* If conditions significantly change, purge volume can be calculated as follows:

One purge volume = 0.174305 x (Measured Depth to Water - Depth to Well Bottom)

** If "No", well is declared dry for the sampling event.

Measured Depth to Water (ft)	Quantity (gal) to Purge X Volumes* 1	3
14.00	3.52	10.56
14.25	3.48	10.43
14.50	3.43	10.30
14.75	3.39	10.17
15.00	3.35	10.04
15.25	3.30	9.91
15.50	3.26	9.78
15.75	3.22	9.65
16.00	3.17	9.52
16.25	3.13	9.39
16.50	3.09	9.26
16.75	3.04	9.12
17.00	3.00	8.99
17.25	2.95	8.86
17.50	2.91	8.73
17.75	2.87	8.60
18.00	2.82	8.47
18.25	2.78	8.34
18.50	2.74	8.21
18.75	2.69	8.08
19.00	2.65	7.95
19.25	2.61	7.82
19.50	2.56	7.69
19.75	2.52	7.56
20.00	2.48	7.43
20.25	2.43	7.29
20.50	2.39	7.16
20.75	2.34	7.03
21.00	2.30	6.90
21.25	2.26	6.77
21.50	2.21	6.64
21.75	2.17	6.51
22.00	2.13	6.38
22.25	2.08	6.25
22.50	2.04	6.12
22.75	2.00	5.99
23.00	1.95	5.86
23.25	1.91	5.73
23.50	1.87	5.60

Rico Water Sampling Form: *Station Information*

☐ Surface Water ☒ Groundwater ☐ Other

Sample Location: **MW-5 SHALLOW**

Date(s) of Sample Collection: 9/11/13

Time(s) of Sample Collection: 1:25

Sampler's Identity: MCHB

Sampling completed at this location ☒
(Do not check box until **ALL** items have been completed)

FIELD PARAMETERS / MEASUREMENTS

Measured Depth to Water: 15.87 ft

# of Purge Volumes	Time	Cummulative Volume (gal)	EC, µS/cm	ORP, mV	DO, ppm	pH	Temp, °C
1	1:07	1.00	3509	163.8	0.48	4.08	11.47
2	1:15	2.00	3860	110.7	0.56	4.47	12.15
3	1:20	3.00	3669	135.7	0.55	4.28	10.99
Collected Sample Parameters:			3469	178.9	0.33	3.91	10.62

Well purged dry? ☐ Yes ☒ No

If Yes, did well recover to 80% within 24 hours?** ☐ Yes ☐ No

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
✓	MW-5 SHALLOW_201309	11	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
✓	MW-5 SHALLOW_201309		Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
✓	MW-5 SHALLOW_201309		Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
✓	MW-5 SHALLOW_201309		Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
✓	MW-5 SHALLOW_201309		Salinity	250 mL / HDPE / None
✓	MW-5 SHALLOW_201309		Cyanide	250 mL / HDPE / NaOH (GREEN)
✓	MW-5 SHALLOW_201309		Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
✓	MW-5 SHALLOW_201309		Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

* If conditions significantly change, purge volume can be calculated as follows:

One purge volume = 0.174305 x (Measured Depth to Water - Depth to Well Bottom)

** If "No", well is declared dry for the sampling event.

Measured Depth to Water (ft)	Quantity (gal) to Purge X Volumes* 1	3
11.50	1.66	4.98
11.75	1.62	4.85
12.00	1.57	4.72
12.25	1.53	4.59
12.50	1.49	4.46
12.75	1.44	4.32
13.00	1.40	4.19
13.25	1.35	4.06
13.50	1.31	3.93
13.75	1.27	3.80
14.00	1.22	3.67
14.25	1.18	3.54
14.50	1.14	3.41
14.75	1.09	3.28
15.00	1.05	3.15
15.25	1.01	3.02
15.50	0.96	2.89
15.75	0.92	2.76
16.00	0.88	2.63
16.25	0.83	2.49
16.50	0.79	2.36
16.75	0.74	2.23
17.00	0.70	2.10
17.25	0.66	1.97
17.50	0.61	1.84
17.75	0.57	1.71
18.00	0.53	1.58
18.25	0.48	1.45
18.50	0.44	1.32
18.75	0.40	1.19
19.00	0.35	1.06
19.25	0.31	0.93
19.50	0.26	0.79
19.75	0.22	0.66
20.00	0.18	0.53
20.25	0.13	0.40
20.50	0.09	0.27
20.75	0.05	0.14
21.00	0.00	0.01

Rico Water Sampling Form: *Station Information*

Sampling completed at this location ☑
(Do not check box until **ALL** items have been completed)

☐ Surface Water ☒ Groundwater ☐ Other

Sample Location: **MW-6 DEEP**

Date(s) of Sample Collection: 9-27-13

Time(s) of Sample Collection: 1009

Sampler's Identity: TB TT

FIELD PARAMETERS / MEASUREMENTS

Measured Depth to Water: 21.17 ft

# of Purge Volumes	Time	Cummulative Volume (gal)	EC, µS/cm	ORP, mV	DO, ppm	pH	Temp, °C
1	952	3.3	1903	-28.1	1.23	5.98	9.19
2	1002	9.6	1865	-315	1.91	6.04	9.59
3	1009	12.9	1899	-305	1.22	6.02	9.54
* Collected Sample Parameters:			1853	-323	.84	6.02	9.72

Well purged dry? ☐ Yes ☑ No

If Yes, did well recover to 80% within 24 hours?** ☐ Yes ☐ No

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
X	MW-6 DEEP_201309	27	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
X	MW-6 DEEP_201309	27	Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
X	MW-6 DEEP_201309	27	Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
X	MW-6 DEEP_201309	27	Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
X	MW-6 DEEP_201309	27	Salinity	250 mL / HDPE / None
X	MW-6 DEEP_201309	27	Cyanide	250 mL / HDPE / NaOH (GREEN)
X	MW-6 DEEP_201309	27	Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
X	MW-6 DEEP_201309	27	Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

* If conditions significantly change, purge volume can be calculated as follows:

One purge volume = 0.174305 x (Measured Depth to Water - Depth to Well Bottom)

** If "No", well is declared dry for the sampling event.

Measured Depth to Water (ft)	Quantity (gal) to Purge X Volumes* 1	3
21.17		
19.00	3.71	11.14
19.25	3.67	11.01
19.50	3.63	10.88
19.75	3.58	10.75
20.00	3.54	10.62
20.25	3.49	10.48
20.50	3.45	10.35
20.75	3.41	10.22
21.00	3.36	10.09
21.25	3.32	9.96
21.50	3.28	9.83
21.75	3.23	9.70
22.00	3.19	9.57
22.25	3.15	9.44
22.50	3.10	9.31
22.75	3.06	9.18
23.00	3.02	9.05
23.25	2.97	8.92
23.50	2.93	8.78
23.75	2.88	8.65
24.00	2.84	8.52
24.25	2.80	8.39
24.50	2.75	8.26
24.75	2.71	8.13
25.00	2.67	8.00
25.25	2.62	7.87
25.50	2.58	7.74
25.75	2.54	7.61
26.00	2.49	7.48
26.25	2.45	7.35
26.50	2.41	7.22
26.75	2.36	7.09
27.00	2.32	6.95
27.25	2.27	6.82
27.50	2.23	6.69
27.75	2.19	6.56
28.00	2.14	6.43
28.25	2.10	6.30
28.50	2.06	6.17

Rico Water Sampling Form: *Station Information*

☐ Surface Water ☒ Groundwater ☐ Other

Sample Location: **MW-6 SHALLOW**

Date(s) of Sample Collection: 9/27/13

Time(s) of Sample Collection: 1006

Sampler's Identity: TB TT

Sampling completed at this location ☑
(Do not check box until **ALL** items have been completed)

FIELD PARAMETERS / MEASUREMENTS

Measured Depth to Water: 21.30 ft

# of Purge Volumes	Time	Cummulative Volume (gal)	EC, µS/cm	ORP, mV	DO, ppm	pH	Temp, °C
1	955	1.25	2179	-34.2	.6	5.93	9.62
2	959	2.5	2247	-33.3	.64	591	9.73
3	1006	3.75	2273	-34.9	.51	593	9.07
Collected Sample Parameters:			2277	-30.	1.22	5.95	9.54

Well purged dry? ☐ Yes ☑ No

If Yes, did well recover to 80% within 24 hours?** ☐ Yes ☐ No

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
✓	MW-6 SHALLOW_201309	27	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
✓	MW-6 SHALLOW_201309	27	Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
✓	MW-6 SHALLOW_201309	27	Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
✓	MW-6 SHALLOW_201309	27	Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
✓	MW-6 SHALLOW_201309	27	Salinity	250 mL / HDPE / None
✓	MW-6 SHALLOW_201309	27	Cyanide	250 mL / HDPE / NaOH (GREEN)
✓	MW-6 SHALLOW_201309	27	Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
✓	MW-6 SHALLOW_201309	27	Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

* If conditions significantly change, purge volume can be calculated as follows:

One purge volume = 0.174305 x (Measured Depth to Water - Depth to Well Bottom)

** If "No", well is declared dry for the sampling event.

Measured Depth to Water (ft)	Quantity (gal) to Purge X Volumes* 1	3
21.30		
17.50	1.70	5.09
17.75	1.65	4.96
18.00	1.61	4.83
18.25	1.57	4.70
18.50	1.52	4.57
18.75	1.48	4.44
19.00	1.44	4.31
19.25	1.39	4.18
19.50	1.35	4.05
19.75	1.31	3.92
20.00	1.26	3.79
20.25	1.22	3.66
20.50	1.17	3.52
20.75	1.13	3.39
21.00	1.09	3.26
21.25	1.04	3.13
21.50	1.00	3.00
21.75	0.96	2.87
22.00	0.91	2.74
22.25	0.87	2.61
22.50	0.83	2.48
22.75	0.78	2.35
23.00	0.74	2.22
23.25	0.70	2.09
23.50	0.65	1.96
23.75	0.61	1.82
24.00	0.56	1.69
24.25	0.52	1.56
24.50	0.48	1.43
24.75	0.43	1.30
25.00	0.39	1.17
25.25	0.35	1.04
25.50	0.30	0.91
25.75	0.26	0.78
26.00	0.22	0.65
26.25	0.17	0.52
26.50	0.13	0.39
26.75	0.09	0.26
27.00	0.04	0.13

Rico Water Sampling Form: *Station Information*

☐ Surface Water ☒ Groundwater ☐ Other

Sample Location: **CHV-101 S**

Date(s) of Sample Collection: 9/26/13

Time(s) of Sample Collection: 4:15

Sampler's Identity: MC/TB

Sampling completed at this location ☐
(Do not check box until **ALL** items have been completed)

FIELD PARAMETERS / MEASUREMENTS

Measured Depth to Water: 39.22 ft

# of Purge Volumes	Time	Cummulative Volume (gal)	EC, µS/cm	ORP, mV	DO, ppm	pH	Temp, °C
1	3:55	5.0	1365	39.2	3.56	6.16	15.51
2	4:05	10.0	1374	38.6	3.38	6.21	15.43
3	4:10	15.0	1380	40.0	3.17	6.11	15.46
Collected Sample Parameters:			1379	41.3	3.48	6.16	15.41

Well purged dry? ☐ Yes ☒ No

If Yes, did well recover to 80% within 24 hours?** ☐ Yes ☐ No

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
✓	CHV-101 S_201309	26	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
✓	CHV-101 S_201309		Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
✓	CHV-101 S_201309		Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
✓	CHV-101 S_201309		Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
✓	CHV-101 S_201309		Salinity	250 mL / HDPE / None
✓	CHV-101 S_201309		Cyanide	250 mL / HDPE / NaOH (GREEN)
✓	CHV-101 S_201309		Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
✓	CHV-101 S_201309		Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

* If conditions significantly change, purge volume can be calculated as follows:

One purge volume = 0.174305 x (Measured Depth to Water - Depth to Well Bottom)

** If "No", well is declared dry for the sampling event.

Measured Depth to Water (ft)	Quantity (gal) to Purge X Volumes* 1	3
33.00	5.25	15.74
33.25	5.16	15.48
33.50	5.07	15.22
33.75	4.99	14.96
34.00	4.90	14.69
34.25	4.81	14.43
34.50	4.72	14.17
34.75	4.64	13.91
35.00	4.55	13.65
35.25	4.46	13.39
35.50	4.38	13.13
35.75	4.29	12.86
36.00	4.20	12.60
36.25	4.11	12.34
36.50	4.03	12.08
36.75	3.94	11.82
37.00	3.85	11.56
37.25	3.76	11.29
37.50	3.68	11.03
37.75	3.59	10.77
38.00	3.50	10.51
38.25	3.42	10.25
38.50	3.33	9.99
38.75	3.24	9.73
39.00	3.15	9.46
39.25	3.07	9.20
39.50	2.98	8.94
39.75	2.89	8.68
40.00	2.81	8.42
40.25	2.72	8.16
40.50	2.63	7.90
40.75	2.54	7.63
41.00	2.46	7.37
41.25	2.37	7.11
41.50	2.28	6.85
41.75	2.20	6.59
42.00	2.11	6.33
42.25	2.02	6.07
42.50	1.93	5.80

Rico Water Sampling Form: *Station Information*

Sampling completed at this location [X]
(Do not check box until **ALL** items have been completed)

[X] Surface Water [ ] Groundwater [ ] Other

Sample Location:	**AT-2**
Date(s) of Sample Collection:	9/26/13
Time(s) of Sample Collection:	15:35
Sampler's Identity:	ME/TB

FIELD PARAMETERS / MEASUREMENTS

EC, µS/cm	ORP, mV	DO, ppm	pH	Temp, °C	Depth along angle from casing invert (ft)
68	-63.0	0.00	7.82	17.68	11.09 *

Data downloaded from transducer? [ ] Yes [X] No
Has transducer been cleaned and recalibrated? [ ] Yes [X] No

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle			Analysis	Bottle size/Type/Preservative
✓	AT-2_201309	ME		Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
✓	AT-2_201309			Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
✓	AT-2_201309			Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
✓	AT-2_201309			Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
✓	AT-2_201309			Salinity	250 mL / HDPE / None
✓	AT-2_201309			Cyanide	250 mL / HDPE / NaOH (GREEN)
✓	AT-2_201309			Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
✓	AT-2_201309			Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:
* New tape measure used

Rico Water Sampling Form: *Station Information*

Sampling completed at this location ☒
(Do not check box until **ALL** items have been completed)

☒ Surface Water ☐ Groundwater ☐ Other

Sample Location:	**BAH-01**
Date(s) of Sample Collection:	9/26/13
Time(s) of Sample Collection:	15:20
Sampler's Identity:	MC/TB

FIELD PARAMETERS / MEASUREMENTS

EC, µS/cm	ORP, mV	DO, ppm	pH	Temp, °C	Depth along angle from casing invert (ft)
1335	~~-24 mV~~ -60.2	0.00	5.91	17.48	191 ft

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
✓	BAH-01_201309	26	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
✓	BAH-01_201309		Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
✓	BAH-01_201309		Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
✓	BAH-01_201309		Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
✓	BAH-01_201309		Salinity	250 mL / HDPE / None
✓	BAH-01_201309		Cyanide	250 mL / HDPE / NaOH (GREEN)
✓	BAH-01_201309		Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
✓	BAH-01_201309		Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

Rico Water Sampling Form: *Station Information*

Sampling completed at this location ☐
(Do not check box until **ALL** items have been completed)

☐ Surface Water ☐ Groundwater ☒ Other

Sample Location:	**FB-LAB**
Date of Sample Collection:	9/11/13
Time of Sample Collection:	420
Sampler's Identity:	TB mc

FIELD PARAMETERS / MEASUREMENTS

EC, µS/cm	ORP, mV	DO, ppm	pH	Temp, °C
6	-49.1	3.39	8.04	18.22

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
✓	FB-LAB_201305		Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
✓	FB-LAB_201305		Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
✓	FB-LAB_201305		Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
✓	FB-LAB_201305		Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
✓	FB-LAB_201305		Salinity	250 mL / HDPE / None
✓	FB-LAB_201305		Cyanide	250 mL / HDPE / NaOH (GREEN)
✓	FB-LAB_201305		Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
✓	FB-LAB_201305		Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:
*Sample is a Field Blank. Run distilled water through all standard sampling procedures

Rico Water Sampling Form: *Station Information*

Sampling completed at this location ☒
(Do not check box until **ALL** items have been completed)

☐ Surface Water ☐ Groundwater ☒ Other

Sample Location:	**FB-FIELD**
Date of Sample Collection:	9/26/13
Time of Sample Collection:	3:45
Sampler's Identity:	MCI TB

FIELD PARAMETERS / MEASUREMENTS

EC, µS/cm	ORP, mV	DO, ppm	pH	Temp, °C
3	-25.2	5.10	7.45	15.10

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
✓	FB-FIELD_201305	20	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
✓	FB-FIELD_201305		Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
✓	FB-FIELD_201305		Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
✓	FB-FIELD_201305		Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
✓	FB-FIELD_201305		Salinity	250 mL / HDPE / None
✓	FB-FIELD_201305		Cyanide	250 mL / HDPE / NaOH (GREEN)
✓	FB-FIELD_201305		Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
✓	FB-FIELD_201305		Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:
*Sample is a Field Blank. Run distilled water through all standard sampling procedures

Rico Water Sampling Form: *Stream Flow Measurements*

9/30/13

Location: ~~DR-1~~ MC 9/30/13 DR-1A		Location: DR-2		Location: DR-7	
Benchmark Elevation: 6.63		Benchmark Elevation: 4.82		Benchmark Elevation: 7.45	
River Water Elevation: 8.49		River Water Elevation: 10.22		River Water Elevation: 11.06	
☐ East to West		☒ East to West		☒ East to West	
☐ West to East		☐ West to East		☐ West to East	
Velocity (ft/sec)	Depth (ft)	Velocity (ft/sec)	Depth (ft)	Velocity (ft/sec)	Depth (ft)
0	0.15	~~0.2~~	~~0.03~~ MC 9/30/13	0.18	0
0.31	0.3	~~0.5~~ MC 9/30/13	~~0.01~~ MC 9/30/13	0.83	0.5
0.54	0.9	~~1.0~~	~~0.04~~	1.39	0.2
1.36	1.3	0.15	0.2	1.33	0.8
2.11	1.4	0.01	0.2	0.63	0.9
1.62	1.5	0.01	0.5	1.71	1.0
2.34	1.2	0.15	1.0	1.92	1.1
1.54	1.4	0.72	1.0	1.51	1.2
2.08	1.8	0.57	1.5	1.65	0.9
3.69	1.8	1.26	0.16	2.25	0.9
4.44	1.6	1.53	0.05	2.42	1.2
2.39	1.6	2.17	1.4	3.26	1.4
3.9	1.2	1.34	1.8	3.29	1.4
3.22	1.4	1.68	2.5	1.32	1.4
3.59	1.2	1.79	2.0	2.98	0.12
3.11	1.2	2.3	2.0	2.46	1.2
2.2	1.0	1.7	2.0	2.77	1.0
1.91	1.4	3.32	2.2	3.45	1.2
0.83	1.1	3.24	2.4	3.02	1.4
2.56	1.1	2.25	2.5	3.09	1.5
2.65	0.8	0.94	2.2	2.76	1.2
3.03	1.3	1.79	2.4	3.41	0.8
2.26	1.2	2.27	2.2	0.51	0.8
2.74	1.2	2.72	2.0	2.51	0.6
2.6	1.4	3.04	1.5	1.15	1.0
2.68	1.2	2.53	1.5	1.15	1.0
1.86	1.3	1.57	1.5	2.91	1.0
1.11	1.0	1.50	1.5	2.64	1.3
1.63	0.5	1.31	1.3	3.46	1.2
0.94	0.5	1.0	1.0	3.57	1.2
0.0	0.25	0.38	0.7	2.7	1.0
0.0	0.1	0.5	MC 9/30/13 ~~3.5~~ .35	2.72	1.0
		0.29	0.1	2.02	1.2
		0	0.1	0.39	1.3
		0	0	0.33	1.0
				0.2	0.4

NOTE: Each velocity reading must have a corresponding depth reading with matching cell number. Each cell represents a 1-foot subsection. Measurements are to be taken every foot.

Rico Water Sampling Form: *Stream Flow Measurements*

Location:	DR-4-SW			Location:	DR-G			Location:			
Benchmark Elevation:	2.60			Benchmark Elevation:	5 32 / 8 76			Benchmark Elevation:			
River Water Elevation:	4.76			River Water Elevation:				River Water Elevation:			
[X] East to West				[X] East to West				[ ] East to West			
[ ] West to East				[ ] West to East				[ ] West to East			
Velocity (ft/sec)		Depth (ft)		Velocity (ft/sec)		Depth (ft)		Velocity (ft/sec)		Depth (ft)	
0	0	0.1	0.3	0	0.07	0	0.3				
0.06		0.4		0	0	0.5	0.1				
1.45		0.6		0.04		0.2					
0.1		0.4		0.95		0.25					
0.17		0.7		1.38		0.4					
2.36		0.7		2.22		0.3					
3.71		1.1		0.60		0.7					
2.09		0.9		2.53		0.7					
0.96		1.0		2.08		1.0					
2.42		1.0		1.67		0.5					
2.89		1.2		2.47		1.3					
3.35		1.0		2.42		1.4					
2.93		1.2		3.20		1.4					
3.89		1.0		3.23		1.0					
4.44		0.8		2.04		1.5					
3.65		1.6		3.01		1.5					
1.78		1.6		4.31		1.4					
4.23		1.8		4.41		1.4					
3.61		2.2		2.81		1.5					
2.23		1.6		4.24		~~1.5~~ 2.0					
3.26		1.7		4.51		1.8					
1.99		1.5		4.14		2.0					
2.06		1.6		4.10		1.7					
3.56		1.5		4.64		2.0					
3.3		1.5		3.28		1.9					
3.04		1.5		4.08		1.8					
3.15		1.5		4.27		1.8					
2.86		1.8		4.31		1.8					
1.37		0.6		3.04		1.8					
2.75		0.6		4.70		1.5					
2.88		1.2		3.59		1.5					
1.09		0.6		3.50		1.5					
1.10		0.4		3.50		1.0					
0		0.2		1.72		1.3					
0.5		0.3		1.82		0.6					

NOTE: Each velocity reading must have a corresponding depth reading with matching cell number. Each cell represents a 1-foot subsection. Measurements are to be taken every foot.

Rico Water Sampling Form: *Stream Flow Measurements*

Location: ~~DR-1A~~ DR-1				Location: DR-2A				Location: DR-3A			
Benchmark Elevation: ~~5.76~~ MC 9/30/13				Benchmark Elevation: 4.06				Benchmark Elevation: 3.85			
River Water Elevation: 8.13				River Water Elevation: 8.56				River Water Elevation: 8.55			
☐ East to West				☒ East to West				☒ East to West			
☐ West to East				☐ West to East				☐ West to East			
~~Velocity (ft/sec)~~ Time		Depth (ft)		Velocity (ft/sec)		Depth (ft)		Velocity (ft/sec)		Depth (ft) MC 9/13/13	
2.84				0.11	1.35	1.0	0.25	0		0.15	
8.93				0.207	1.69	0.8	0.25	0.16		0.4	
3.30				2.62	1.87	1.3	0.2	1.26		0.3	
				2.64	0.23	1.0	0.3	2.26		0.6	
3.42				2.76	0.38	1.0	0.2	2.42		0.8	
2.39				2.08		1.0		2.53		0.6	
2.96				2.45		0.8		2.31		1.0	
				0.47		0.3		2.52		1.0	
4.02				0.55		0.2		1.31		1.1	
3.33				0.62		0.2		3.43		1.3	
4.72				1.2		0.3		2.57		1.1	
				0.74		0.6		1.93		1.2	
				0.87		0.3		2.27		1.2	
				1.96		0.5		3.95		1.2	
				1.45		0.6		3.29		1.5	
				0.57		0.5		3.79		1.7	
				2.33		0.8		2.26		1.5	
				2.51		0.8		4.37		1.5	
				2.14		0.7		2.96		1.5	
				3.41		0.4		2.98		1.5	
				4.11		1.1		2.08		1.5	
				3.14		1.0		1.96		1.5	
				1.5		1.0		3.78		1.3	
				3.88		1.0		1.52		1.3	
				1.47		1.0		2.99		1.4	
				3.62		1.5		3.05		1.2	
				3.51		1.3		2.08		1.2	
				3.69		MC 9/13/13 ~~0.5~~ 1.5		0.51		1.0	
				1.42		1.3		1.95		0.6	
				1.13		1.3		2.6		0.7	
				1.82		1.0		0.93		0.4	
				3.65		1.5		0.32		0.2	
				2.17		1.2					
				1.59		0.8					
				1.96		0.6					

NOTE: Each velocity reading must have a corresponding depth reading with matching cell number. Each cell represents a 1-foot subsection. Measurements are to be taken every foot.

Appendix I

North Flume OTT PLS Data with Flowrates

OTT PLS Data at North Flume, September 2013

Date, Time	Depth Reading (ft)	Flowrate (cfs)	Flowrate (gpm)
9/1/2013 0:00	0.55	1.24	558.0
9/1/2013 0:10	0.55	1.24	558.0
9/1/2013 0:20	0.55	1.24	558.0
9/1/2013 0:30	0.55	1.24	558.0
9/1/2013 0:40	0.55	1.24	558.0
9/1/2013 0:50	0.55	1.24	558.0
9/1/2013 1:00	0.55	1.24	558.0
9/1/2013 1:10	0.55	1.24	558.0
9/1/2013 1:20	0.55	1.24	558.0
9/1/2013 1:30	0.55	1.24	558.0
9/1/2013 1:40	0.55	1.24	558.0
9/1/2013 1:50	0.55	1.24	558.0
9/1/2013 2:00	0.55	1.24	558.0
9/1/2013 2:10	0.55	1.24	558.0
9/1/2013 2:20	0.55	1.24	558.0
9/1/2013 2:30	0.55	1.24	558.0
9/1/2013 2:40	0.55	1.24	558.0
9/1/2013 2:50	0.55	1.24	558.0
9/1/2013 3:00	0.55	1.24	558.0
9/1/2013 3:10	0.55	1.24	558.0
9/1/2013 3:20	0.55	1.24	558.0
9/1/2013 3:30	0.55	1.24	558.0
9/1/2013 3:40	0.55	1.24	558.0
9/1/2013 3:50	0.55	1.24	558.0
9/1/2013 4:00	0.55	1.24	558.0
9/1/2013 4:10	0.55	1.24	558.0
9/1/2013 4:20	0.55	1.24	558.0
9/1/2013 4:30	0.55	1.24	558.0
9/1/2013 4:40	0.55	1.24	558.0
9/1/2013 4:50	0.55	1.24	558.0
9/1/2013 5:00	0.55	1.24	558.0
9/1/2013 5:10	0.55	1.24	558.0
9/1/2013 5:20	0.55	1.24	558.0
9/1/2013 5:30	0.55	1.24	558.0
9/1/2013 5:40	0.55	1.24	558.0
9/1/2013 5:50	0.55	1.24	558.0
9/1/2013 6:00	0.55	1.24	558.0
9/1/2013 6:10	0.55	1.24	558.0
9/1/2013 6:20	0.55	1.24	558.0
9/1/2013 6:30	0.55	1.24	558.0
9/1/2013 6:40	0.55	1.24	558.0
9/1/2013 6:50	0.55	1.24	558.0

9/1/2013 7:00	0.55	1.24	558.0
9/1/2013 7:10	0.55	1.24	558.0
9/1/2013 7:20	0.55	1.24	558.0
9/1/2013 7:30	0.55	1.24	558.0
9/1/2013 7:40	0.55	1.24	558.0
9/1/2013 7:50	0.55	1.24	558.0
9/1/2013 8:00	0.55	1.24	558.0
9/1/2013 8:10	0.55	1.24	558.0
9/1/2013 8:20	0.55	1.24	558.0
9/1/2013 8:30	0.55	1.24	558.0
9/1/2013 8:40	0.55	1.24	558.0
9/1/2013 8:50	0.55	1.24	558.0
9/1/2013 9:00	0.55	1.24	558.0
9/1/2013 9:10	0.55	1.24	558.0
9/1/2013 9:20	0.55	1.24	558.0
9/1/2013 9:30	0.55	1.24	558.0
9/1/2013 9:40	0.55	1.24	558.0
9/1/2013 9:50	0.55	1.24	558.0
9/1/2013 10:00	0.55	1.24	558.0
9/1/2013 10:10	0.55	1.24	558.0
9/1/2013 10:20	0.55	1.24	558.0
9/1/2013 10:30	0.55	1.24	558.0
9/1/2013 10:40	0.55	1.24	558.0
9/1/2013 10:50	0.55	1.24	558.0
9/1/2013 11:00	0.55	1.24	558.0
9/1/2013 11:10	0.55	1.24	558.0
9/1/2013 11:20	0.55	1.24	558.0
9/1/2013 11:30	0.55	1.24	558.0
9/1/2013 11:40	0.55	1.24	558.0
9/1/2013 11:50	0.55	1.24	558.0
9/1/2013 12:00	0.55	1.24	558.0
9/1/2013 12:10	0.55	1.24	558.0
9/1/2013 12:20	0.55	1.24	558.0
9/1/2013 12:30	0.55	1.24	558.0
9/1/2013 12:40	0.55	1.24	558.0
9/1/2013 12:50	0.55	1.24	558.0
9/1/2013 13:00	0.55	1.24	558.0
9/1/2013 13:10	0.55	1.24	558.0
9/1/2013 13:20	0.55	1.24	558.0
9/1/2013 13:30	0.55	1.24	558.0
9/1/2013 13:40	0.55	1.24	558.0
9/1/2013 13:50	0.55	1.24	558.0
9/1/2013 14:00	0.55	1.24	558.0
9/1/2013 14:10	0.55	1.24	558.0
9/1/2013 14:20	0.55	1.24	558.0
9/1/2013 14:30	0.55	1.24	558.0
9/1/2013 14:40	0.55	1.24	558.0

9/1/2013 14:50	0.55	1.24	558.0
9/1/2013 15:00	0.55	1.24	558.0
9/1/2013 15:10	0.55	1.24	558.0
9/1/2013 15:20	0.55	1.24	558.0
9/1/2013 15:30	0.55	1.24	558.0
9/1/2013 15:40	0.55	1.24	558.0
9/1/2013 15:50	0.55	1.24	558.0
9/1/2013 16:00	0.55	1.24	558.0
9/1/2013 16:10	0.55	1.24	558.0
9/1/2013 16:20	0.55	1.24	558.0
9/1/2013 16:30	0.55	1.24	558.0
9/1/2013 16:40	0.55	1.24	558.0
9/1/2013 16:50	0.55	1.24	558.0
9/1/2013 17:00	0.55	1.24	558.0
9/1/2013 17:10	0.55	1.24	558.0
9/1/2013 17:20	0.55	1.24	558.0
9/1/2013 17:30	0.55	1.24	558.0
9/1/2013 17:40	0.55	1.24	558.0
9/1/2013 17:50	0.55	1.24	558.0
9/1/2013 18:00	0.55	1.24	558.0
9/1/2013 18:10	0.55	1.24	558.0
9/1/2013 18:20	0.55	1.24	558.0
9/1/2013 18:30	0.55	1.24	558.0
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9/1/2013 23:50	0.55	1.24	558.0
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9/9/2013 13:00	0.55	1.24	558.0
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9/9/2013 18:30	0.55	1.24	558.0

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9/12/2013 0:20	0.55	1.24	558.0
9/12/2013 0:30	0.55	1.24	558.0
9/12/2013 0:40	0.55	1.24	558.0
9/12/2013 0:50	0.55	1.24	558.0
9/12/2013 1:00	0.55	1.24	558.0
9/12/2013 1:10	0.55	1.24	558.0
9/12/2013 1:20	0.55	1.24	558.0

9/12/2013 1:30	0.55	1.24	558.0
9/12/2013 1:40	0.55	1.24	558.0
9/12/2013 1:50	0.55	1.24	558.0
9/12/2013 2:00	0.55	1.24	558.0
9/12/2013 2:10	0.55	1.24	558.0
9/12/2013 2:20	0.55	1.24	558.0
9/12/2013 2:30	0.55	1.24	558.0
9/12/2013 2:40	0.55	1.24	558.0
9/12/2013 2:50	0.55	1.24	558.0
9/12/2013 3:00	0.55	1.24	558.0
9/12/2013 3:10	0.55	1.24	558.0
9/12/2013 3:20	0.55	1.24	558.0
9/12/2013 3:30	0.55	1.24	558.0
9/12/2013 3:40	0.55	1.24	558.0
9/12/2013 3:50	0.55	1.24	558.0
9/12/2013 4:00	0.55	1.24	558.0
9/12/2013 4:10	0.55	1.24	558.0
9/12/2013 4:20	0.55	1.24	558.0
9/12/2013 4:30	0.55	1.24	558.0
9/12/2013 4:40	0.55	1.24	558.0
9/12/2013 4:50	0.55	1.24	558.0
9/12/2013 5:00	0.55	1.24	558.0
9/12/2013 5:10	0.55	1.24	558.0
9/12/2013 5:20	0.55	1.24	558.0
9/12/2013 5:30	0.55	1.24	558.0
9/12/2013 5:40	0.55	1.24	558.0
9/12/2013 5:50	0.55	1.24	558.0
9/12/2013 6:00	0.55	1.24	558.0
9/12/2013 6:10	0.55	1.24	558.0
9/12/2013 6:20	0.55	1.24	558.0
9/12/2013 6:30	0.55	1.24	558.0
9/12/2013 6:40	0.55	1.24	558.0
9/12/2013 6:50	0.55	1.24	558.0
9/12/2013 7:00	0.55	1.24	558.0
9/12/2013 7:10	0.55	1.24	558.0
9/12/2013 7:20	0.55	1.24	558.0
9/12/2013 7:30	0.55	1.24	558.0
9/12/2013 7:40	0.55	1.24	558.0
9/12/2013 7:50	0.55	1.24	558.0
9/12/2013 8:00	0.55	1.24	558.0
9/12/2013 8:10	0.55	1.24	558.0
9/12/2013 8:20	0.55	1.24	558.0
9/12/2013 8:30	0.55	1.24	558.0
9/12/2013 8:40	0.55	1.24	558.0
9/12/2013 8:50	0.55	1.24	558.0
9/12/2013 9:00	0.55	1.24	558.0
9/12/2013 9:10	0.55	1.24	558.0

9/12/2013 9:20	0.55	1.24	558.0
9/12/2013 9:30	0.55	1.24	558.0
9/12/2013 9:40	0.56	1.28	573.4
9/12/2013 9:50	0.55	1.24	558.0
9/12/2013 10:00	0.55	1.24	558.0
9/12/2013 10:10	0.55	1.24	558.0
9/12/2013 10:20	0.55	1.24	558.0
9/12/2013 10:30	0.55	1.24	558.0
9/12/2013 10:40	0.55	1.24	558.0
9/12/2013 10:50	0.55	1.24	558.0
9/12/2013 11:00	0.55	1.24	558.0
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9/12/2013 11:30	0.55	1.24	558.0
9/12/2013 11:40	0.55	1.24	558.0
9/12/2013 11:50	0.55	1.24	558.0
9/12/2013 12:00	0.55	1.24	558.0
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9/12/2013 12:40	0.55	1.24	558.0
9/12/2013 12:50	0.55	1.24	558.0
9/12/2013 13:00	0.55	1.24	558.0
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9/12/2013 13:30	0.55	1.24	558.0
9/12/2013 13:40	0.55	1.24	558.0
9/12/2013 13:50	0.55	1.24	558.0
9/12/2013 14:00	0.55	1.24	558.0
9/12/2013 14:10	0.55	1.24	558.0
9/12/2013 14:20	0.55	1.24	558.0
9/12/2013 14:30	0.55	1.24	558.0
9/12/2013 14:40	0.55	1.24	558.0
9/12/2013 14:50	0.55	1.24	558.0
9/12/2013 15:00	0.55	1.24	558.0
9/12/2013 15:10	0.55	1.24	558.0
9/12/2013 15:20	0.55	1.24	558.0
9/12/2013 15:30	0.55	1.24	558.0
9/12/2013 15:40	0.55	1.24	558.0
9/12/2013 15:50	0.55	1.24	558.0
9/12/2013 16:00	0.55	1.24	558.0
9/12/2013 16:10	0.55	1.24	558.0
9/12/2013 16:20	0.55	1.24	558.0
9/12/2013 16:30	0.55	1.24	558.0
9/12/2013 16:40	0.55	1.24	558.0
9/12/2013 16:50	0.55	1.24	558.0
9/12/2013 17:00	0.55	1.24	558.0

9/12/2013 17:10	0.55	1.24	558.0
9/12/2013 17:20	0.55	1.24	558.0
9/12/2013 17:30	0.55	1.24	558.0
9/12/2013 17:40	0.56	1.28	573.4
9/12/2013 17:50	0.56	1.28	573.4
9/12/2013 18:00	0.56	1.28	573.4
9/12/2013 18:10	0.56	1.28	573.4
9/12/2013 18:20	0.55	1.24	558.0
9/12/2013 18:30	0.56	1.28	573.4
9/12/2013 18:40	0.56	1.28	573.4
9/12/2013 18:50	0.56	1.28	573.4
9/12/2013 19:00	0.55	1.24	558.0
9/12/2013 19:10	0.56	1.28	573.4
9/12/2013 19:20	0.56	1.28	573.4
9/12/2013 19:30	0.56	1.28	573.4
9/12/2013 19:40	0.56	1.28	573.4
9/12/2013 19:50	0.55	1.24	558.0
9/12/2013 20:00	0.56	1.28	573.4
9/12/2013 20:10	0.55	1.24	558.0
9/12/2013 20:20	0.55	1.24	558.0
9/12/2013 20:30	0.56	1.28	573.4
9/12/2013 20:40	0.55	1.24	558.0
9/12/2013 20:50	0.55	1.24	558.0
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9/12/2013 21:10	0.55	1.24	558.0
9/12/2013 21:20	0.55	1.24	558.0
9/12/2013 21:30	0.55	1.24	558.0
9/12/2013 21:40	0.55	1.24	558.0
9/12/2013 21:50	0.56	1.28	573.4
9/12/2013 22:00	0.56	1.28	573.4
9/12/2013 22:10	0.56	1.28	573.4
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9/12/2013 22:30	0.56	1.28	573.4
9/12/2013 22:40	0.56	1.28	573.4
9/12/2013 22:50	0.56	1.28	573.4
9/12/2013 23:00	0.56	1.28	573.4
9/12/2013 23:10	0.56	1.28	573.4
9/12/2013 23:20	0.56	1.28	573.4
9/12/2013 23:30	0.56	1.28	573.4
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9/13/2013 0:10	0.56	1.28	573.4
9/13/2013 0:20	0.55	1.24	558.0
9/13/2013 0:30	0.55	1.24	558.0
9/13/2013 0:40	0.55	1.24	558.0
9/13/2013 0:50	0.56	1.28	573.4

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9/13/2013 1:10	0.55	1.24	558.0
9/13/2013 1:20	0.55	1.24	558.0
9/13/2013 1:30	0.55	1.24	558.0
9/13/2013 1:40	0.55	1.24	558.0
9/13/2013 1:50	0.55	1.24	558.0
9/13/2013 2:00	0.55	1.24	558.0
9/13/2013 2:10	0.56	1.28	573.4
9/13/2013 2:20	0.55	1.24	558.0
9/13/2013 2:30	0.55	1.24	558.0
9/13/2013 2:40	0.55	1.24	558.0
9/13/2013 2:50	0.55	1.24	558.0
9/13/2013 3:00	0.55	1.24	558.0
9/13/2013 3:10	0.55	1.24	558.0
9/13/2013 3:20	0.56	1.28	573.4
9/13/2013 3:30	0.55	1.24	558.0
9/13/2013 3:40	0.55	1.24	558.0
9/13/2013 3:50	0.55	1.24	558.0
9/13/2013 4:00	0.55	1.24	558.0
9/13/2013 4:10	0.55	1.24	558.0
9/13/2013 4:20	0.55	1.24	558.0
9/13/2013 4:30	0.55	1.24	558.0
9/13/2013 4:40	0.55	1.24	558.0
9/13/2013 4:50	0.55	1.24	558.0
9/13/2013 5:00	0.55	1.24	558.0
9/13/2013 5:10	0.56	1.28	573.4
9/13/2013 5:20	0.56	1.28	573.4
9/13/2013 5:30	0.56	1.28	573.4
9/13/2013 5:40	0.56	1.28	573.4
9/13/2013 5:50	0.56	1.28	573.4
9/13/2013 6:00	0.56	1.28	573.4
9/13/2013 6:10	0.56	1.28	573.4
9/13/2013 6:20	0.56	1.28	573.4
9/13/2013 6:30	0.56	1.28	573.4
9/13/2013 6:40	0.55	1.24	558.0
9/13/2013 6:50	0.56	1.28	573.4
9/13/2013 7:00	0.56	1.28	573.4
9/13/2013 7:10	0.55	1.24	558.0
9/13/2013 7:20	0.56	1.28	573.4
9/13/2013 7:30	0.56	1.28	573.4
9/13/2013 7:40	0.56	1.28	573.4
9/13/2013 7:50	0.55	1.24	558.0
9/13/2013 8:00	0.55	1.24	558.0
9/13/2013 8:10	0.54	1.21	542.7
9/13/2013 8:20	0.55	1.24	558.0
9/13/2013 8:30	0.55	1.24	558.0
9/13/2013 8:40	0.55	1.24	558.0

9/13/2013 8:50	0.55	1.24	558.0
9/13/2013 9:00	0.56	1.28	573.4
9/13/2013 9:10	0.56	1.28	573.4
9/13/2013 9:20	0.56	1.28	573.4
9/13/2013 9:30	0.56	1.28	573.4
9/13/2013 9:40	0.6	1.42	636.4
9/13/2013 9:50	0.56	1.28	573.4
9/13/2013 10:00	0.55	1.24	558.0
9/13/2013 10:10	0.55	1.24	558.0
9/13/2013 10:20	0.55	1.24	558.0
9/13/2013 10:30	0.55	1.24	558.0
9/13/2013 10:40	0.55	1.24	558.0
9/13/2013 10:50	0.55	1.24	558.0
9/13/2013 11:00	0.55	1.24	558.0
9/13/2013 11:10	0.55	1.24	558.0
9/13/2013 11:20	0.55	1.24	558.0
9/13/2013 11:30	0.55	1.24	558.0
9/13/2013 11:40	0.55	1.24	558.0
9/13/2013 11:50	0.55	1.24	558.0
9/13/2013 12:00	0.55	1.24	558.0
9/13/2013 12:10	0.55	1.24	558.0
9/13/2013 12:20	0.55	1.24	558.0
9/13/2013 12:30	0.55	1.24	558.0
9/13/2013 12:40	0.55	1.24	558.0
9/13/2013 12:50	0.55	1.24	558.0
9/13/2013 13:00	0.55	1.24	558.0
9/13/2013 13:10	0.55	1.24	558.0
9/13/2013 13:20	0.55	1.24	558.0
9/13/2013 13:30	0.55	1.24	558.0
9/13/2013 13:40	0.55	1.24	558.0
9/13/2013 13:50	0.55	1.24	558.0
9/13/2013 14:00	0.55	1.24	558.0
9/13/2013 14:10	0.55	1.24	558.0
9/13/2013 14:20	0.55	1.24	558.0
9/13/2013 14:30	0.55	1.24	558.0
9/13/2013 14:40	0.55	1.24	558.0
9/13/2013 14:50	0.55	1.24	558.0
9/13/2013 15:00	0.55	1.24	558.0
9/13/2013 15:10	0.55	1.24	558.0
9/13/2013 15:20	0.55	1.24	558.0
9/13/2013 15:30	0.55	1.24	558.0
9/13/2013 15:40	0.55	1.24	558.0
9/13/2013 15:50	0.55	1.24	558.0
9/13/2013 16:00	0.55	1.24	558.0
9/13/2013 16:10	0.55	1.24	558.0
9/13/2013 16:20	0.55	1.24	558.0
9/13/2013 16:30	0.55	1.24	558.0

9/13/2013 16:40	0.55	1.24	558.0
9/13/2013 16:50	0.55	1.24	558.0
9/13/2013 17:00	0.55	1.24	558.0
9/13/2013 17:10	0.55	1.24	558.0
9/13/2013 17:20	0.55	1.24	558.0
9/13/2013 17:30	0.55	1.24	558.0
9/13/2013 17:40	0.55	1.24	558.0
9/13/2013 17:50	0.55	1.24	558.0
9/13/2013 18:00	0.55	1.24	558.0
9/13/2013 18:10	0.55	1.24	558.0
9/13/2013 18:20	0.55	1.24	558.0
9/13/2013 18:30	0.55	1.24	558.0
9/13/2013 18:40	0.55	1.24	558.0
9/13/2013 18:50	0.55	1.24	558.0
9/13/2013 19:00	0.55	1.24	558.0
9/13/2013 19:10	0.55	1.24	558.0
9/13/2013 19:20	0.55	1.24	558.0
9/13/2013 19:30	0.55	1.24	558.0
9/13/2013 19:40	0.55	1.24	558.0
9/13/2013 19:50	0.55	1.24	558.0
9/13/2013 20:00	0.55	1.24	558.0
9/13/2013 20:10	0.55	1.24	558.0
9/13/2013 20:20	0.55	1.24	558.0
9/13/2013 20:30	0.55	1.24	558.0
9/13/2013 20:40	0.55	1.24	558.0
9/13/2013 20:50	0.55	1.24	558.0
9/13/2013 21:00	0.55	1.24	558.0
9/13/2013 21:10	0.55	1.24	558.0
9/13/2013 21:20	0.55	1.24	558.0
9/13/2013 21:30	0.55	1.24	558.0
9/13/2013 21:40	0.55	1.24	558.0
9/13/2013 21:50	0.55	1.24	558.0
9/13/2013 22:00	0.55	1.24	558.0
9/13/2013 22:10	0.55	1.24	558.0
9/13/2013 22:20	0.55	1.24	558.0
9/13/2013 22:30	0.55	1.24	558.0
9/13/2013 22:40	0.55	1.24	558.0
9/13/2013 22:50	0.55	1.24	558.0
9/13/2013 23:00	0.55	1.24	558.0
9/13/2013 23:10	0.55	1.24	558.0
9/13/2013 23:20	0.55	1.24	558.0
9/13/2013 23:30	0.55	1.24	558.0
9/13/2013 23:40	0.55	1.24	558.0
9/13/2013 23:50	0.55	1.24	558.0
9/14/2013 0:00	0.55	1.24	558.0
9/14/2013 0:10	0.55	1.24	558.0
9/14/2013 0:20	0.55	1.24	558.0

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9/14/2013 0:40	0.55	1.24	558.0
9/14/2013 0:50	0.55	1.24	558.0
9/14/2013 1:00	0.55	1.24	558.0
9/14/2013 1:10	0.55	1.24	558.0
9/14/2013 1:20	0.55	1.24	558.0
9/14/2013 1:30	0.55	1.24	558.0
9/14/2013 1:40	0.55	1.24	558.0
9/14/2013 1:50	0.55	1.24	558.0
9/14/2013 2:00	0.55	1.24	558.0
9/14/2013 2:10	0.55	1.24	558.0
9/14/2013 2:20	0.55	1.24	558.0
9/14/2013 2:30	0.55	1.24	558.0
9/14/2013 2:40	0.55	1.24	558.0
9/14/2013 2:50	0.55	1.24	558.0
9/14/2013 3:00	0.55	1.24	558.0
9/14/2013 3:10	0.55	1.24	558.0
9/14/2013 3:20	0.55	1.24	558.0
9/14/2013 3:30	0.55	1.24	558.0
9/14/2013 3:40	0.55	1.24	558.0
9/14/2013 3:50	0.55	1.24	558.0
9/14/2013 4:00	0.55	1.24	558.0
9/14/2013 4:10	0.55	1.24	558.0
9/14/2013 4:20	0.55	1.24	558.0
9/14/2013 4:30	0.55	1.24	558.0
9/14/2013 4:40	0.55	1.24	558.0
9/14/2013 4:50	0.55	1.24	558.0
9/14/2013 5:00	0.55	1.24	558.0
9/14/2013 5:10	0.55	1.24	558.0
9/14/2013 5:20	0.55	1.24	558.0
9/14/2013 5:30	0.55	1.24	558.0
9/14/2013 5:40	0.55	1.24	558.0
9/14/2013 5:50	0.55	1.24	558.0
9/14/2013 6:00	0.55	1.24	558.0
9/14/2013 6:10	0.55	1.24	558.0
9/14/2013 6:20	0.56	1.28	573.4
9/14/2013 6:30	0.55	1.24	558.0
9/14/2013 6:40	0.55	1.24	558.0
9/14/2013 6:50	0.55	1.24	558.0
9/14/2013 7:00	0.55	1.24	558.0
9/14/2013 7:10	0.55	1.24	558.0
9/14/2013 7:20	0.55	1.24	558.0
9/14/2013 7:30	0.55	1.24	558.0
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9/14/2013 7:50	0.55	1.24	558.0
9/14/2013 8:00	0.55	1.24	558.0
9/14/2013 8:10	0.55	1.24	558.0

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9/14/2013 8:50	0.55	1.24	558.0
9/14/2013 9:00	0.55	1.24	558.0
9/14/2013 9:10	0.55	1.24	558.0
9/14/2013 9:20	0.55	1.24	558.0
9/14/2013 9:30	0.55	1.24	558.0
9/14/2013 9:40	0.55	1.24	558.0
9/14/2013 9:50	0.55	1.24	558.0
9/14/2013 10:00	0.55	1.24	558.0
9/14/2013 10:10	0.55	1.24	558.0
9/14/2013 10:20	0.55	1.24	558.0
9/14/2013 10:30	0.55	1.24	558.0
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9/14/2013 10:50	0.55	1.24	558.0
9/14/2013 11:00	0.55	1.24	558.0
9/14/2013 11:10	0.55	1.24	558.0
9/14/2013 11:20	0.55	1.24	558.0
9/14/2013 11:30	0.55	1.24	558.0
9/14/2013 11:40	0.55	1.24	558.0
9/14/2013 11:50	0.56	1.28	573.4
9/14/2013 12:00	0.55	1.24	558.0
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9/14/2013 12:20	0.55	1.24	558.0
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9/14/2013 12:50	0.55	1.24	558.0
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9/14/2013 13:10	0.56	1.28	573.4
9/14/2013 13:20	0.56	1.28	573.4
9/14/2013 13:30	0.55	1.24	558.0
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9/14/2013 13:50	0.55	1.24	558.0
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9/14/2013 14:10	0.55	1.24	558.0
9/14/2013 14:20	0.56	1.28	573.4
9/14/2013 14:30	0.55	1.24	558.0
9/14/2013 14:40	0.56	1.28	573.4
9/14/2013 14:50	0.56	1.28	573.4
9/14/2013 15:00	0.56	1.28	573.4
9/14/2013 15:10	0.56	1.28	573.4
9/14/2013 15:20	0.56	1.28	573.4
9/14/2013 15:30	0.56	1.28	573.4
9/14/2013 15:40	0.56	1.28	573.4
9/14/2013 15:50	0.56	1.28	573.4
9/14/2013 16:00	0.56	1.28	573.4

9/14/2013 16:10	0.56	1.28	573.4
9/14/2013 16:20	0.56	1.28	573.4
9/14/2013 16:30	0.56	1.28	573.4
9/14/2013 16:40	0.56	1.28	573.4
9/14/2013 16:50	0.56	1.28	573.4
9/14/2013 17:00	0.56	1.28	573.4
9/14/2013 17:10	0.55	1.24	558.0
9/14/2013 17:20	0.56	1.28	573.4
9/14/2013 17:30	0.56	1.28	573.4
9/14/2013 17:40	0.56	1.28	573.4
9/14/2013 17:50	0.56	1.28	573.4
9/14/2013 18:00	0.56	1.28	573.4
9/14/2013 18:10	0.56	1.28	573.4
9/14/2013 18:20	0.56	1.28	573.4
9/14/2013 18:30	0.56	1.28	573.4
9/14/2013 18:40	0.56	1.28	573.4
9/14/2013 18:50	0.56	1.28	573.4
9/14/2013 19:00	0.56	1.28	573.4
9/14/2013 19:10	0.56	1.28	573.4
9/14/2013 19:20	0.56	1.28	573.4
9/14/2013 19:30	0.57	1.31	588.9
9/14/2013 19:40	0.56	1.28	573.4
9/14/2013 19:50	0.55	1.24	558.0
9/14/2013 20:00	0.55	1.24	558.0
9/14/2013 20:10	0.55	1.24	558.0
9/14/2013 20:20	0.55	1.24	558.0
9/14/2013 20:30	0.55	1.24	558.0
9/14/2013 20:40	0.55	1.24	558.0
9/14/2013 20:50	0.55	1.24	558.0
9/14/2013 21:00	0.55	1.24	558.0
9/14/2013 21:10	0.55	1.24	558.0
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9/14/2013 21:30	0.55	1.24	558.0
9/14/2013 21:40	0.55	1.24	558.0
9/14/2013 21:50	0.55	1.24	558.0
9/14/2013 22:00	0.55	1.24	558.0
9/14/2013 22:10	0.55	1.24	558.0
9/14/2013 22:20	0.55	1.24	558.0
9/14/2013 22:30	0.55	1.24	558.0
9/14/2013 22:40	0.55	1.24	558.0
9/14/2013 22:50	0.55	1.24	558.0
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9/14/2013 23:10	0.55	1.24	558.0
9/14/2013 23:20	0.55	1.24	558.0
9/14/2013 23:30	0.55	1.24	558.0
9/14/2013 23:40	0.55	1.24	558.0
9/14/2013 23:50	0.55	1.24	558.0

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9/15/2013 0:20	0.54	1.21	542.7
9/15/2013 0:30	0.55	1.24	558.0
9/15/2013 0:40	0.54	1.21	542.7
9/15/2013 0:50	0.54	1.21	542.7
9/15/2013 1:00	0.54	1.21	542.7
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9/15/2013 1:20	0.54	1.21	542.7
9/15/2013 1:30	0.54	1.21	542.7
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9/15/2013 1:50	0.54	1.21	542.7
9/15/2013 2:00	0.54	1.21	542.7
9/15/2013 2:10	0.54	1.21	542.7
9/15/2013 2:20	0.55	1.24	558.0
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9/15/2013 2:40	0.54	1.21	542.7
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9/15/2013 3:00	0.54	1.21	542.7
9/15/2013 3:10	0.54	1.21	542.7
9/15/2013 3:20	0.54	1.21	542.7
9/15/2013 3:30	0.55	1.24	558.0
9/15/2013 3:40	0.54	1.21	542.7
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9/15/2013 4:00	0.54	1.21	542.7
9/15/2013 4:10	0.54	1.21	542.7
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9/15/2013 4:30	0.54	1.21	542.7
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9/15/2013 4:50	0.54	1.21	542.7
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9/15/2013 7:00	0.54	1.21	542.7
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9/15/2013 7:20	0.54	1.21	542.7
9/15/2013 7:30	0.56	1.28	573.4
9/15/2013 7:40	0.56	1.28	573.4

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9/16/2013 17:20	0.57	1.31	588.9
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9/16/2013 18:50	0.57	1.31	588.9
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9/16/2013 21:20	0.57	1.31	588.9
9/16/2013 21:30	0.57	1.31	588.9
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9/16/2013 21:50	0.56	1.28	573.4
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9/16/2013 22:30	0.56	1.28	573.4
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9/16/2013 22:50	0.56	1.28	573.4

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9/16/2013 23:20	0.56	1.28	573.4
9/16/2013 23:30	0.55	1.24	558.0
9/16/2013 23:40	0.55	1.24	558.0
9/16/2013 23:50	0.55	1.24	558.0
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9/17/2013 0:10	0.55	1.24	558.0
9/17/2013 0:20	0.55	1.24	558.0
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9/17/2013 0:40	0.55	1.24	558.0
9/17/2013 0:50	0.55	1.24	558.0
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9/17/2013 2:10	0.55	1.24	558.0
9/17/2013 2:20	0.55	1.24	558.0
9/17/2013 2:30	0.55	1.24	558.0
9/17/2013 2:40	0.55	1.24	558.0
9/17/2013 2:50	0.55	1.24	558.0
9/17/2013 3:00	0.55	1.24	558.0
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9/17/2013 3:20	0.55	1.24	558.0
9/17/2013 3:30	0.55	1.24	558.0
9/17/2013 3:40	0.55	1.24	558.0
9/17/2013 3:50	0.55	1.24	558.0
9/17/2013 4:00	0.55	1.24	558.0
9/17/2013 4:10	0.55	1.24	558.0
9/17/2013 4:20	0.55	1.24	558.0
9/17/2013 4:30	0.55	1.24	558.0
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9/19/2013 15:10	0.55	1.24	558.0
9/19/2013 15:20	0.55	1.24	558.0
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9/19/2013 15:40	0.59	1.38	620.4
9/19/2013 15:50	0.81	2.23	1001.4
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9/19/2013 17:10	0.55	1.24	558.0
9/19/2013 17:20	0.55	1.24	558.0
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9/19/2013 17:50	0.55	1.24	558.0
9/19/2013 18:00	0.55	1.24	558.0
9/19/2013 18:10	0.55	1.24	558.0
9/19/2013 18:20	0.55	1.24	558.0
9/19/2013 18:30	0.55	1.24	558.0
9/19/2013 18:40	0.55	1.24	558.0
9/19/2013 18:50	0.55	1.24	558.0
9/19/2013 19:00	0.55	1.24	558.0
9/19/2013 19:10	0.55	1.24	558.0
9/19/2013 19:20	0.55	1.24	558.0
9/19/2013 19:30	0.55	1.24	558.0
9/19/2013 19:40	0.55	1.24	558.0
9/19/2013 19:50	0.55	1.24	558.0
9/19/2013 20:00	0.55	1.24	558.0
9/19/2013 20:10	0.55	1.24	558.0
9/19/2013 20:20	0.55	1.24	558.0
9/19/2013 20:30	0.55	1.24	558.0
9/19/2013 20:40	0.55	1.24	558.0
9/19/2013 20:50	0.55	1.24	558.0
9/19/2013 21:00	0.55	1.24	558.0
9/19/2013 21:10	0.55	1.24	558.0
9/19/2013 21:20	0.55	1.24	558.0

9/19/2013 21:30	0.55	1.24	558.0
9/19/2013 21:40	0.55	1.24	558.0
9/19/2013 21:50	0.55	1.24	558.0
9/19/2013 22:00	0.55	1.24	558.0
9/19/2013 22:10	0.55	1.24	558.0
9/19/2013 22:20	0.55	1.24	558.0
9/19/2013 22:30	0.55	1.24	558.0
9/19/2013 22:40	0.55	1.24	558.0
9/19/2013 22:50	0.55	1.24	558.0
9/19/2013 23:00	0.55	1.24	558.0
9/19/2013 23:10	0.55	1.24	558.0
9/19/2013 23:20	0.55	1.24	558.0
9/19/2013 23:30	0.55	1.24	558.0
9/19/2013 23:40	0.55	1.24	558.0
9/19/2013 23:50	0.55	1.24	558.0
9/20/2013 0:00	0.55	1.24	558.0
9/20/2013 0:10	0.55	1.24	558.0
9/20/2013 0:20	0.55	1.24	558.0
9/20/2013 0:30	0.55	1.24	558.0
9/20/2013 0:40	0.55	1.24	558.0
9/20/2013 0:50	0.55	1.24	558.0
9/20/2013 1:00	0.55	1.24	558.0
9/20/2013 1:10	0.55	1.24	558.0
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9/20/2013 1:30	0.55	1.24	558.0
9/20/2013 1:40	0.55	1.24	558.0
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9/20/2013 2:00	0.55	1.24	558.0
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9/20/2013 2:20	0.55	1.24	558.0
9/20/2013 2:30	0.55	1.24	558.0
9/20/2013 2:40	0.55	1.24	558.0
9/20/2013 2:50	0.55	1.24	558.0
9/20/2013 3:00	0.55	1.24	558.0
9/20/2013 3:10	0.55	1.24	558.0
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9/20/2013 3:40	0.55	1.24	558.0
9/20/2013 3:50	0.55	1.24	558.0
9/20/2013 4:00	0.55	1.24	558.0
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9/20/2013 4:30	0.55	1.24	558.0
9/20/2013 4:40	0.55	1.24	558.0
9/20/2013 4:50	0.55	1.24	558.0
9/20/2013 5:00	0.55	1.24	558.0
9/20/2013 5:10	0.55	1.24	558.0

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9/20/2013 5:30	0.55	1.24	558.0
9/20/2013 5:40	0.55	1.24	558.0
9/20/2013 5:50	0.55	1.24	558.0
9/20/2013 6:00	0.55	1.24	558.0
9/20/2013 6:10	0.55	1.24	558.0
9/20/2013 6:20	0.55	1.24	558.0
9/20/2013 6:30	0.55	1.24	558.0
9/20/2013 6:40	0.55	1.24	558.0
9/20/2013 6:50	0.55	1.24	558.0
9/20/2013 7:00	0.55	1.24	558.0
9/20/2013 7:10	0.55	1.24	558.0
9/20/2013 7:20	0.55	1.24	558.0
9/20/2013 7:30	0.55	1.24	558.0
9/20/2013 7:40	0.55	1.24	558.0
9/20/2013 7:50	0.55	1.24	558.0
9/20/2013 8:00	0.55	1.24	558.0
9/20/2013 8:10	0.55	1.24	558.0
9/20/2013 8:20	0.55	1.24	558.0
9/20/2013 8:30	0.55	1.24	558.0
9/20/2013 8:40	0.55	1.24	558.0
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9/20/2013 9:57	0.52	1.14	512.6
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9/20/2013 10:20	0.52	1.14	512.6
9/20/2013 10:30	0.52	1.14	512.6
9/20/2013 10:40	0.52	1.14	512.6
9/20/2013 10:50	0.52	1.14	512.6
9/20/2013 11:00	0.52	1.14	512.6
9/20/2013 11:10	0.52	1.14	512.6
9/20/2013 11:20	0.52	1.14	512.6
9/20/2013 11:30	0.52	1.14	512.6
9/20/2013 11:40	0.52	1.14	512.6
9/20/2013 11:50	0.52	1.14	512.6
9/20/2013 12:00	0.52	1.14	512.6
9/20/2013 12:10	0.52	1.14	512.6
9/20/2013 12:20	0.52	1.14	512.6
9/20/2013 12:30	0.52	1.14	512.6
9/20/2013 12:40	0.52	1.14	512.6
9/20/2013 12:50	0.52	1.14	512.6
9/20/2013 13:00	0.52	1.14	512.6

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9/20/2013 13:20	0.52	1.14	512.6
9/20/2013 13:30	0.52	1.14	512.6
9/20/2013 13:40	0.52	1.14	512.6
9/20/2013 13:50	0.52	1.14	512.6
9/20/2013 14:00	0.52	1.14	512.6
9/20/2013 14:10	0.52	1.14	512.6
9/20/2013 14:20	0.52	1.14	512.6
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9/20/2013 14:40	0.52	1.14	512.6
9/20/2013 14:50	0.52	1.14	512.6
9/20/2013 15:00	0.52	1.14	512.6
9/20/2013 15:10	0.52	1.14	512.6
9/20/2013 15:20	0.52	1.14	512.6
9/20/2013 15:30	0.52	1.14	512.6
9/20/2013 15:40	0.52	1.14	512.6
9/20/2013 15:50	0.52	1.14	512.6
9/20/2013 16:00	0.52	1.14	512.6
9/20/2013 16:10	0.52	1.14	512.6
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9/20/2013 16:30	0.52	1.14	512.6
9/20/2013 16:40	0.52	1.14	512.6
9/20/2013 16:50	0.52	1.14	512.6
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9/20/2013 19:50	0.52	1.14	512.6
9/20/2013 20:00	0.52	1.14	512.6
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9/20/2013 20:20	0.52	1.14	512.6
9/20/2013 20:30	0.52	1.14	512.6
9/20/2013 20:40	0.52	1.14	512.6
9/20/2013 20:50	0.52	1.14	512.6

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9/20/2013 21:10	0.52	1.14	512.6
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9/20/2013 21:30	0.52	1.14	512.6
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9/20/2013 21:50	0.52	1.14	512.6
9/20/2013 22:00	0.52	1.14	512.6
9/20/2013 22:10	0.52	1.14	512.6
9/20/2013 22:20	0.52	1.14	512.6
9/20/2013 22:30	0.52	1.14	512.6
9/20/2013 22:40	0.52	1.14	512.6
9/20/2013 22:50	0.52	1.14	512.6
9/20/2013 23:00	0.52	1.14	512.6
9/20/2013 23:10	0.52	1.14	512.6
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9/20/2013 23:30	0.52	1.14	512.6
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9/20/2013 23:50	0.52	1.14	512.6
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9/21/2013 0:30	0.52	1.14	512.6
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9/21/2013 0:50	0.52	1.14	512.6
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9/21/2013 1:50	0.52	1.14	512.6
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9/21/2013 2:10	0.52	1.14	512.6
9/21/2013 2:20	0.52	1.14	512.6
9/21/2013 2:30	0.52	1.14	512.6
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9/21/2013 2:50	0.52	1.14	512.6
9/21/2013 3:00	0.52	1.14	512.6
9/21/2013 3:10	0.52	1.14	512.6
9/21/2013 3:20	0.52	1.14	512.6
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9/21/2013 4:00	0.52	1.14	512.6
9/21/2013 4:10	0.52	1.14	512.6
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9/21/2013 4:30	0.52	1.14	512.6
9/21/2013 4:40	0.52	1.14	512.6

9/21/2013 4:50	0.52	1.14	512.6
9/21/2013 5:00	0.52	1.14	512.6
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9/21/2013 5:20	0.52	1.14	512.6
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9/21/2013 6:00	0.52	1.14	512.6
9/21/2013 6:10	0.52	1.14	512.6
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9/21/2013 6:30	0.52	1.14	512.6
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9/21/2013 6:50	0.52	1.14	512.6
9/21/2013 7:00	0.52	1.14	512.6
9/21/2013 7:10	0.52	1.14	512.6
9/21/2013 7:20	0.52	1.14	512.6
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9/21/2013 7:50	0.52	1.14	512.6
9/21/2013 8:00	0.52	1.14	512.6
9/21/2013 8:10	0.52	1.14	512.6
9/21/2013 8:20	0.52	1.14	512.6
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9/21/2013 8:40	0.52	1.14	512.6
9/21/2013 8:50	0.52	1.14	512.6
9/21/2013 9:00	0.52	1.14	512.6
9/21/2013 9:10	0.52	1.14	512.6
9/21/2013 9:20	0.52	1.14	512.6
9/21/2013 9:30	0.52	1.14	512.6
9/21/2013 9:40	0.52	1.14	512.6
9/21/2013 9:50	0.52	1.14	512.6
9/21/2013 10:00	0.52	1.14	512.6
9/21/2013 10:10	0.52	1.14	512.6
9/21/2013 10:20	0.52	1.14	512.6
9/21/2013 10:30	0.52	1.14	512.6
9/21/2013 10:40	0.52	1.14	512.6
9/21/2013 10:50	0.52	1.14	512.6
9/21/2013 11:00	0.52	1.14	512.6
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9/21/2013 12:00	0.52	1.14	512.6
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9/21/2013 12:20	0.52	1.14	512.6
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9/21/2013 13:20	0.52	1.14	512.6
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9/21/2013 13:40	0.52	1.14	512.6
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9/21/2013 14:00	0.52	1.14	512.6
9/21/2013 14:10	0.52	1.14	512.6
9/21/2013 14:20	0.52	1.14	512.6
9/21/2013 14:30	0.52	1.14	512.6
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9/21/2013 14:50	0.52	1.14	512.6
9/21/2013 15:00	0.52	1.14	512.6
9/21/2013 15:10	0.52	1.14	512.6
9/21/2013 15:20	0.52	1.14	512.6
9/21/2013 15:30	0.52	1.14	512.6
9/21/2013 15:40	0.52	1.14	512.6
9/21/2013 15:50	0.52	1.14	512.6
9/21/2013 16:00	0.52	1.14	512.6
9/21/2013 16:10	0.52	1.14	512.6
9/21/2013 16:20	0.52	1.14	512.6
9/21/2013 16:30	0.52	1.14	512.6
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9/21/2013 16:50	0.52	1.14	512.6
9/21/2013 17:00	0.52	1.14	512.6
9/21/2013 17:10	0.52	1.14	512.6
9/21/2013 17:20	0.52	1.14	512.6
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9/21/2013 17:50	0.52	1.14	512.6
9/21/2013 18:00	0.52	1.14	512.6
9/21/2013 18:10	0.52	1.14	512.6
9/21/2013 18:20	0.52	1.14	512.6
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9/21/2013 19:00	0.52	1.14	512.6
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9/21/2013 21:50	0.52	1.14	512.6
9/21/2013 22:00	0.52	1.14	512.6
9/21/2013 22:10	0.52	1.14	512.6
9/21/2013 22:20	0.52	1.14	512.6
9/21/2013 22:30	0.52	1.14	512.6
9/21/2013 22:40	0.52	1.14	512.6
9/21/2013 22:50	0.52	1.14	512.6
9/21/2013 23:00	0.52	1.14	512.6
9/21/2013 23:10	0.52	1.14	512.6
9/21/2013 23:20	0.52	1.14	512.6
9/21/2013 23:30	0.52	1.14	512.6
9/21/2013 23:40	0.52	1.14	512.6
9/21/2013 23:50	0.52	1.14	512.6
9/22/2013 0:00	0.52	1.14	512.6
9/22/2013 0:10	0.52	1.14	512.6
9/22/2013 0:20	0.52	1.14	512.6
9/22/2013 0:30	0.52	1.14	512.6
9/22/2013 0:40	0.52	1.14	512.6
9/22/2013 0:50	0.52	1.14	512.6
9/22/2013 1:00	0.52	1.14	512.6
9/22/2013 1:10	0.52	1.14	512.6
9/22/2013 1:20	0.52	1.14	512.6
9/22/2013 1:30	0.52	1.14	512.6
9/22/2013 1:40	0.52	1.14	512.6
9/22/2013 1:50	0.52	1.14	512.6
9/22/2013 2:00	0.52	1.14	512.6
9/22/2013 2:10	0.52	1.14	512.6
9/22/2013 2:20	0.52	1.14	512.6
9/22/2013 2:30	0.52	1.14	512.6
9/22/2013 2:40	0.52	1.14	512.6
9/22/2013 2:50	0.52	1.14	512.6
9/22/2013 3:00	0.52	1.14	512.6
9/22/2013 3:10	0.52	1.14	512.6
9/22/2013 3:20	0.52	1.14	512.6
9/22/2013 3:30	0.52	1.14	512.6
9/22/2013 3:40	0.52	1.14	512.6
9/22/2013 3:50	0.52	1.14	512.6
9/22/2013 4:00	0.52	1.14	512.6
9/22/2013 4:10	0.52	1.14	512.6

9/22/2013 4:20	0.52	1.14	512.6
9/22/2013 4:30	0.52	1.14	512.6
9/22/2013 4:40	0.52	1.14	512.6
9/22/2013 4:50	0.52	1.14	512.6
9/22/2013 5:00	0.52	1.14	512.6
9/22/2013 5:10	0.53	1.18	527.6
9/22/2013 5:20	0.53	1.18	527.6
9/22/2013 5:30	0.53	1.18	527.6
9/22/2013 5:40	0.53	1.18	527.6
9/22/2013 5:50	0.52	1.14	512.6
9/22/2013 6:00	0.52	1.14	512.6
9/22/2013 6:10	0.52	1.14	512.6
9/22/2013 6:20	0.52	1.14	512.6
9/22/2013 6:30	0.52	1.14	512.6
9/22/2013 6:40	0.52	1.14	512.6
9/22/2013 6:50	0.52	1.14	512.6
9/22/2013 7:00	0.52	1.14	512.6
9/22/2013 7:10	0.52	1.14	512.6
9/22/2013 7:20	0.52	1.14	512.6
9/22/2013 7:30	0.52	1.14	512.6
9/22/2013 7:40	0.52	1.14	512.6
9/22/2013 7:50	0.52	1.14	512.6
9/22/2013 8:00	0.52	1.14	512.6
9/22/2013 8:10	0.52	1.14	512.6
9/22/2013 8:20	0.52	1.14	512.6
9/22/2013 8:30	0.52	1.14	512.6
9/22/2013 8:40	0.52	1.14	512.6
9/22/2013 8:50	0.52	1.14	512.6
9/22/2013 9:00	0.52	1.14	512.6
9/22/2013 9:10	0.52	1.14	512.6
9/22/2013 9:20	0.52	1.14	512.6
9/22/2013 9:30	0.52	1.14	512.6
9/22/2013 9:40	0.52	1.14	512.6
9/22/2013 9:50	0.52	1.14	512.6
9/22/2013 10:00	0.52	1.14	512.6
9/22/2013 10:10	0.52	1.14	512.6
9/22/2013 10:20	0.52	1.14	512.6
9/22/2013 10:30	0.52	1.14	512.6
9/22/2013 10:40	0.52	1.14	512.6
9/22/2013 10:50	0.52	1.14	512.6
9/22/2013 11:00	0.52	1.14	512.6
9/22/2013 11:10	0.52	1.14	512.6
9/22/2013 11:20	0.52	1.14	512.6
9/22/2013 11:30	0.52	1.14	512.6
9/22/2013 11:40	0.52	1.14	512.6
9/22/2013 11:50	0.52	1.14	512.6
9/22/2013 12:00	0.52	1.14	512.6

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9/22/2013 12:20	0.52	1.14	512.6
9/22/2013 12:30	0.52	1.14	512.6
9/22/2013 12:40	0.52	1.14	512.6
9/22/2013 12:50	0.52	1.14	512.6
9/22/2013 13:00	0.52	1.14	512.6
9/22/2013 13:10	0.52	1.14	512.6
9/22/2013 13:20	0.52	1.14	512.6
9/22/2013 13:30	0.52	1.14	512.6
9/22/2013 13:40	0.52	1.14	512.6
9/22/2013 13:50	0.52	1.14	512.6
9/22/2013 14:00	0.52	1.14	512.6
9/22/2013 14:10	0.52	1.14	512.6
9/22/2013 14:20	0.52	1.14	512.6
9/22/2013 14:30	0.53	1.18	527.6
9/22/2013 14:40	0.52	1.14	512.6
9/22/2013 14:50	0.52	1.14	512.6
9/22/2013 15:00	0.53	1.18	527.6
9/22/2013 15:10	0.53	1.18	527.6
9/22/2013 15:20	0.53	1.18	527.6
9/22/2013 15:30	0.52	1.14	512.6
9/22/2013 15:40	0.53	1.18	527.6
9/22/2013 15:50	0.53	1.18	527.6
9/22/2013 16:00	0.53	1.18	527.6
9/22/2013 16:10	0.53	1.18	527.6
9/22/2013 16:20	0.53	1.18	527.6
9/22/2013 16:30	0.53	1.18	527.6
9/22/2013 16:40	0.53	1.18	527.6
9/22/2013 16:50	0.54	1.21	542.7
9/22/2013 17:00	0.54	1.21	542.7
9/22/2013 17:10	0.54	1.21	542.7
9/22/2013 17:20	0.54	1.21	542.7
9/22/2013 17:30	0.54	1.21	542.7
9/22/2013 17:40	0.53	1.18	527.6
9/22/2013 17:50	0.53	1.18	527.6
9/22/2013 18:00	0.52	1.14	512.6
9/22/2013 18:10	0.52	1.14	512.6
9/22/2013 18:20	0.52	1.14	512.6
9/22/2013 18:30	0.52	1.14	512.6
9/22/2013 18:40	0.52	1.14	512.6
9/22/2013 18:50	0.52	1.14	512.6
9/22/2013 19:00	0.52	1.14	512.6
9/22/2013 19:10	0.52	1.14	512.6
9/22/2013 19:20	0.52	1.14	512.6
9/22/2013 19:30	0.52	1.14	512.6
9/22/2013 19:40	0.52	1.14	512.6
9/22/2013 19:50	0.52	1.14	512.6

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9/22/2013 20:10	0.52	1.14	512.6
9/22/2013 20:20	0.52	1.14	512.6
9/22/2013 20:30	0.52	1.14	512.6
9/22/2013 20:40	0.52	1.14	512.6
9/22/2013 20:50	0.52	1.14	512.6
9/22/2013 21:00	0.52	1.14	512.6
9/22/2013 21:10	0.52	1.14	512.6
9/22/2013 21:20	0.52	1.14	512.6
9/22/2013 21:30	0.52	1.14	512.6
9/22/2013 21:40	0.52	1.14	512.6
9/22/2013 21:50	0.52	1.14	512.6
9/22/2013 22:00	0.52	1.14	512.6
9/22/2013 22:10	0.52	1.14	512.6
9/22/2013 22:20	0.52	1.14	512.6
9/22/2013 22:30	0.52	1.14	512.6
9/22/2013 22:40	0.52	1.14	512.6
9/22/2013 22:50	0.52	1.14	512.6
9/22/2013 23:00	0.52	1.14	512.6
9/22/2013 23:10	0.52	1.14	512.6
9/22/2013 23:20	0.52	1.14	512.6
9/22/2013 23:30	0.52	1.14	512.6
9/22/2013 23:40	0.52	1.14	512.6
9/22/2013 23:50	0.52	1.14	512.6
9/23/2013 0:00	0.52	1.14	512.6
9/23/2013 0:10	0.52	1.14	512.6
9/23/2013 0:20	0.52	1.14	512.6
9/23/2013 0:30	0.52	1.14	512.6
9/23/2013 0:40	0.52	1.14	512.6
9/23/2013 0:50	0.52	1.14	512.6
9/23/2013 1:00	0.52	1.14	512.6
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9/23/2013 1:20	0.52	1.14	512.6
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9/23/2013 1:40	0.52	1.14	512.6
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9/23/2013 2:00	0.52	1.14	512.6
9/23/2013 2:10	0.52	1.14	512.6
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9/23/2013 2:30	0.52	1.14	512.6
9/23/2013 2:40	0.52	1.14	512.6
9/23/2013 2:50	0.52	1.14	512.6
9/23/2013 3:00	0.52	1.14	512.6
9/23/2013 3:10	0.52	1.14	512.6
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9/23/2013 11:00	0.52	1.14	512.6
9/23/2013 11:10	0.52	1.14	512.6
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9/23/2013 11:30	0.52	1.14	512.6

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9/23/2013 11:50	0.52	1.14	512.6
9/23/2013 12:00	0.52	1.14	512.6
9/23/2013 12:10	0.52	1.14	512.6
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9/23/2013 14:00	0.52	1.14	512.6
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9/23/2013 14:20	0.52	1.14	512.6
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9/23/2013 21:50	0.52	1.14	512.6
9/23/2013 22:00	0.52	1.14	512.6
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9/23/2013 22:20	0.52	1.14	512.6
9/23/2013 22:30	0.52	1.14	512.6
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9/23/2013 22:50	0.52	1.14	512.6
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9/24/2013 5:00	0.52	1.14	512.6
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9/24/2013 8:50	0.52	1.14	512.6
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9/24/2013 9:50	0.52	1.14	512.6
9/24/2013 10:00	0.52	1.14	512.6
9/24/2013 10:10	0.52	1.14	512.6
9/24/2013 10:20	0.52	1.14	512.6
9/24/2013 10:30	0.52	1.14	512.6
9/24/2013 10:40	0.52	1.14	512.6
9/24/2013 10:50	0.52	1.14	512.6
9/24/2013 11:00	0.52	1.14	512.6

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9/24/2013 13:50	0.52	1.14	512.6
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9/24/2013 14:50	0.52	1.14	512.6
9/24/2013 15:00	0.52	1.14	512.6
9/24/2013 15:10	0.52	1.14	512.6
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9/24/2013 15:50	0.52	1.14	512.6
9/24/2013 16:00	0.52	1.14	512.6
9/24/2013 16:10	0.52	1.14	512.6
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9/24/2013 16:50	0.52	1.14	512.6
9/24/2013 17:00	0.52	1.14	512.6
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9/24/2013 17:50	0.52	1.14	512.6
9/24/2013 18:00	0.52	1.14	512.6
9/24/2013 18:10	0.52	1.14	512.6
9/24/2013 18:20	0.52	1.14	512.6
9/24/2013 18:30	0.52	1.14	512.6
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9/24/2013 18:50	0.52	1.14	512.6

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9/24/2013 19:10	0.52	1.14	512.6
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9/24/2013 19:50	0.52	1.14	512.6
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9/24/2013 21:00	0.52	1.14	512.6
9/24/2013 21:10	0.52	1.14	512.6
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9/30/2013 0:40	0.52	1.14	512.6
9/30/2013 0:50	0.52	1.14	512.6
9/30/2013 1:00	0.52	1.14	512.6
9/30/2013 1:10	0.51	1.11	497.8
9/30/2013 1:20	0.52	1.14	512.6
9/30/2013 1:30	0.52	1.14	512.6
9/30/2013 1:40	0.52	1.14	512.6
9/30/2013 1:50	0.52	1.14	512.6
9/30/2013 2:00	0.52	1.14	512.6
9/30/2013 2:10	0.52	1.14	512.6
9/30/2013 2:20	0.52	1.14	512.6
9/30/2013 2:30	0.52	1.14	512.6
9/30/2013 2:40	0.52	1.14	512.6
9/30/2013 2:50	0.51	1.11	497.8
9/30/2013 3:00	0.52	1.14	512.6
9/30/2013 3:10	0.52	1.14	512.6
9/30/2013 3:20	0.52	1.14	512.6
9/30/2013 3:30	0.52	1.14	512.6
9/30/2013 3:40	0.52	1.14	512.6
9/30/2013 3:50	0.51	1.11	497.8
9/30/2013 4:00	0.52	1.14	512.6
9/30/2013 4:10	0.52	1.14	512.6
9/30/2013 4:20	0.52	1.14	512.6
9/30/2013 4:30	0.52	1.14	512.6
9/30/2013 4:40	0.52	1.14	512.6
9/30/2013 4:50	0.52	1.14	512.6
9/30/2013 5:00	0.52	1.14	512.6
9/30/2013 5:10	0.52	1.14	512.6
9/30/2013 5:20	0.52	1.14	512.6
9/30/2013 5:30	0.52	1.14	512.6
9/30/2013 5:40	0.52	1.14	512.6
9/30/2013 5:50	0.52	1.14	512.6
9/30/2013 6:00	0.52	1.14	512.6
9/30/2013 6:10	0.52	1.14	512.6
9/30/2013 6:20	0.52	1.14	512.6
9/30/2013 6:30	0.52	1.14	512.6
9/30/2013 6:40	0.52	1.14	512.6
9/30/2013 6:50	0.52	1.14	512.6
9/30/2013 7:00	0.52	1.14	512.6
9/30/2013 7:10	0.52	1.14	512.6
9/30/2013 7:20	0.52	1.14	512.6
9/30/2013 7:30	0.52	1.14	512.6
9/30/2013 7:40	0.52	1.14	512.6
9/30/2013 7:50	0.52	1.14	512.6
9/30/2013 8:00	0.52	1.14	512.6

9/30/2013 8:10	0.52	1.14	512.6
9/30/2013 8:20	0.52	1.14	512.6
9/30/2013 8:30	0.51	1.11	497.8
9/30/2013 8:40	0.52	1.14	512.6
9/30/2013 8:50	0.52	1.14	512.6
9/30/2013 9:00	0.52	1.14	512.6
9/30/2013 9:10	0.52	1.14	512.6
9/30/2013 9:20	0.52	1.14	512.6
9/30/2013 9:30	0.52	1.14	512.6
9/30/2013 9:40	0.52	1.14	512.6
9/30/2013 9:50	0.52	1.14	512.6
9/30/2013 10:00	0.52	1.14	512.6
9/30/2013 10:10	0.52	1.14	512.6
9/30/2013 10:20	0.52	1.14	512.6
9/30/2013 10:30	0.52	1.14	512.6
9/30/2013 10:40	0.52	1.14	512.6
9/30/2013 10:50	0.52	1.14	512.6
9/30/2013 11:00	0.52	1.14	512.6
9/30/2013 11:10	0.52	1.14	512.6
9/30/2013 11:20	0.52	1.14	512.6
9/30/2013 11:30	0.52	1.14	512.6
9/30/2013 11:40	0.52	1.14	512.6
9/30/2013 11:50	0.52	1.14	512.6
9/30/2013 12:00	0.52	1.14	512.6
9/30/2013 12:10	0.52	1.14	512.6
9/30/2013 12:20	0.52	1.14	512.6
9/30/2013 12:30	0.52	1.14	512.6
9/30/2013 12:40	0.52	1.14	512.6
9/30/2013 12:50	0.52	1.14	512.6
9/30/2013 13:00	0.52	1.14	512.6
9/30/2013 13:10	0.52	1.14	512.6
9/30/2013 13:20	0.52	1.14	512.6
9/30/2013 13:30	0.52	1.14	512.6
9/30/2013 13:40	0.52	1.14	512.6
9/30/2013 13:50	0.52	1.14	512.6
9/30/2013 14:00	0.52	1.14	512.6
9/30/2013 14:10	0.52	1.14	512.6
9/30/2013 14:20	0.52	1.14	512.6
9/30/2013 14:30	0.52	1.14	512.6
9/30/2013 14:40	0.52	1.14	512.6
9/30/2013 14:50	0.52	1.14	512.6
9/30/2013 15:00	0.52	1.14	512.6
9/30/2013 15:10	0.52	1.14	512.6
9/30/2013 15:20	0.52	1.14	512.6
9/30/2013 15:30	0.52	1.14	512.6
9/30/2013 15:40	0.52	1.14	512.6
9/30/2013 15:50	0.52	1.14	512.6

9/30/2013 16:00	0.51	1.11	497.8
9/30/2013 16:10	0.52	1.14	512.6
9/30/2013 16:20	0.52	1.14	512.6
9/30/2013 16:30	0.52	1.14	512.6
9/30/2013 16:40	0.52	1.14	512.6
9/30/2013 16:50	0.52	1.14	512.6
9/30/2013 17:00	0.52	1.14	512.6
9/30/2013 17:10	0.52	1.14	512.6
9/30/2013 17:20	0.52	1.14	512.6
9/30/2013 17:30	0.52	1.14	512.6
9/30/2013 17:40	0.52	1.14	512.6
9/30/2013 17:50	0.52	1.14	512.6
9/30/2013 18:00	0.52	1.14	512.6
9/30/2013 18:10	0.52	1.14	512.6
9/30/2013 18:20	0.52	1.14	512.6
9/30/2013 18:30	0.52	1.14	512.6
9/30/2013 18:40	0.52	1.14	512.6
9/30/2013 18:50	0.52	1.14	512.6
9/30/2013 19:00	0.52	1.14	512.6
9/30/2013 19:10	0.52	1.14	512.6
9/30/2013 19:20	0.52	1.14	512.6
9/30/2013 19:30	0.52	1.14	512.6
9/30/2013 19:40	0.52	1.14	512.6
9/30/2013 19:50	0.51	1.11	497.8
9/30/2013 20:00	0.52	1.14	512.6
9/30/2013 20:10	0.52	1.14	512.6
9/30/2013 20:20	0.52	1.14	512.6
9/30/2013 20:30	0.52	1.14	512.6
9/30/2013 20:40	0.52	1.14	512.6
9/30/2013 20:50	0.52	1.14	512.6
9/30/2013 21:00	0.52	1.14	512.6
9/30/2013 21:10	0.52	1.14	512.6
9/30/2013 21:20	0.52	1.14	512.6
9/30/2013 21:30	0.52	1.14	512.6
9/30/2013 21:40	0.52	1.14	512.6
9/30/2013 21:50	0.51	1.11	497.8
9/30/2013 22:00	0.52	1.14	512.6
9/30/2013 22:10	0.52	1.14	512.6
9/30/2013 22:20	0.52	1.14	512.6
9/30/2013 22:30	0.52	1.14	512.6
9/30/2013 22:40	0.52	1.14	512.6
9/30/2013 22:50	0.52	1.14	512.6
9/30/2013 23:00	0.52	1.14	512.6
9/30/2013 23:10	0.52	1.14	512.6
9/30/2013 23:20	0.52	1.14	512.6
9/30/2013 23:30	0.52	1.14	512.6
9/30/2013 23:40	0.52	1.14	512.6

9/30/2013 23:50	0.52	1.14	512.6

Appendix J

North Flume Ultrasonic Sensor Data with Flowrates

Ultrasonic Sensor Data at North Flume, September 2013

Date, Time	Depth of Flow (ft)	Depth of Flow (in)	Flowrate (cfs)	Flowrate (gpm)
9/1/2013 0:00	0.55	6.6	1.23	552.0
9/1/2013 0:15	0.55	6.6	1.23	552.0
9/1/2013 0:30	0.54	6.48	1.20	536.7
9/1/2013 0:45	0.55	6.6	1.23	552.0
9/1/2013 1:00	0.55	6.6	1.23	552.0
9/1/2013 1:15	0.55	6.6	1.23	552.0
9/1/2013 1:30	0.55	6.6	1.23	552.0
9/1/2013 1:45	0.55	6.6	1.23	552.0
9/1/2013 2:00	0.55	6.6	1.23	552.0
9/1/2013 2:15	0.54	6.48	1.20	536.7
9/1/2013 2:30	0.55	6.6	1.23	552.0
9/1/2013 2:45	0.54	6.48	1.20	536.7
9/1/2013 3:00	0.55	6.6	1.23	552.0
9/1/2013 3:15	0.55	6.6	1.23	552.0
9/1/2013 3:30	0.55	6.6	1.23	552.0
9/1/2013 3:45	0.55	6.6	1.23	552.0
9/1/2013 4:00	0.55	6.6	1.23	552.0
9/1/2013 4:15	0.55	6.6	1.23	552.0
9/1/2013 4:30	0.54	6.48	1.20	536.7
9/1/2013 4:45	0.55	6.6	1.23	552.0
9/1/2013 5:00	0.55	6.6	1.23	552.0
9/1/2013 5:15	0.55	6.6	1.23	552.0
9/1/2013 5:30	0.55	6.6	1.23	552.0
9/1/2013 5:45	0.55	6.6	1.23	552.0
9/1/2013 6:00	0.55	6.6	1.23	552.0
9/1/2013 6:15	0.54	6.48	1.20	536.7
9/1/2013 6:30	0.55	6.6	1.23	552.0
9/1/2013 6:45	0.55	6.6	1.23	552.0
9/1/2013 7:00	0.55	6.6	1.23	552.0
9/1/2013 7:15	0.55	6.6	1.23	552.0
9/1/2013 7:30	0.55	6.6	1.23	552.0
9/1/2013 7:45	0.55	6.6	1.23	552.0
9/1/2013 8:00	0.55	6.6	1.23	552.0
9/1/2013 8:15	0.55	6.6	1.23	552.0
9/1/2013 8:30	0.55	6.6	1.23	552.0
9/1/2013 8:45	0.54	6.48	1.20	536.7
9/1/2013 9:00	0.55	6.6	1.23	552.0
9/1/2013 9:15	0.55	6.6	1.23	552.0
9/1/2013 9:30	0.55	6.6	1.23	552.0
9/1/2013 9:45	0.55	6.6	1.23	552.0
9/1/2013 10:00	0.55	6.6	1.23	552.0
9/1/2013 10:15	0.55	6.6	1.23	552.0
9/1/2013 10:30	0.55	6.6	1.23	552.0

9/1/2013 10:45	0.55	6.6	1.23	552.0
9/1/2013 11:00	0.55	6.6	1.23	552.0
9/1/2013 11:15	0.55	6.6	1.23	552.0
9/1/2013 11:30	0.54	6.48	1.20	536.7
9/1/2013 11:45	0.55	6.6	1.23	552.0
9/1/2013 12:00	0.55	6.6	1.23	552.0
9/1/2013 12:15	0.55	6.6	1.23	552.0
9/1/2013 12:30	0.55	6.6	1.23	552.0
9/1/2013 12:45	0.55	6.6	1.23	552.0
9/1/2013 13:00	0.55	6.6	1.23	552.0
9/1/2013 13:15	0.55	6.6	1.23	552.0
9/1/2013 13:30	0.55	6.6	1.23	552.0
9/1/2013 13:45	0.55	6.6	1.23	552.0
9/1/2013 14:00	0.55	6.6	1.23	552.0
9/1/2013 14:15	0.55	6.6	1.23	552.0
9/1/2013 14:30	0.55	6.6	1.23	552.0
9/1/2013 14:45	0.55	6.6	1.23	552.0
9/1/2013 15:00	0.54	6.48	1.20	536.7
9/1/2013 15:15	0.55	6.6	1.23	552.0
9/1/2013 15:30	0.54	6.48	1.20	536.7
9/1/2013 15:45	0.54	6.48	1.20	536.7
9/1/2013 16:00	0.55	6.6	1.23	552.0
9/1/2013 16:15	0.55	6.6	1.23	552.0
9/1/2013 16:30	0.55	6.6	1.23	552.0
9/1/2013 16:45	0.55	6.6	1.23	552.0
9/1/2013 17:00	0.54	6.48	1.20	536.7
9/1/2013 17:15	0.54	6.48	1.20	536.7
9/1/2013 17:30	0.55	6.6	1.23	552.0
9/1/2013 17:45	0.54	6.48	1.20	536.7
9/1/2013 18:00	0.55	6.6	1.23	552.0
9/1/2013 18:15	0.55	6.6	1.23	552.0
9/1/2013 18:30	0.55	6.6	1.23	552.0
9/1/2013 18:45	0.55	6.6	1.23	552.0
9/1/2013 19:00	0.55	6.6	1.23	552.0
9/1/2013 19:15	0.55	6.6	1.23	552.0
9/1/2013 19:30	0.55	6.6	1.23	552.0
9/1/2013 19:45	0.55	6.6	1.23	552.0
9/1/2013 20:00	0.55	6.6	1.23	552.0
9/1/2013 20:15	0.55	6.6	1.23	552.0
9/1/2013 20:30	0.55	6.6	1.23	552.0
9/1/2013 20:45	0.55	6.6	1.23	552.0
9/1/2013 21:00	0.55	6.6	1.23	552.0
9/1/2013 21:15	0.54	6.48	1.20	536.7
9/1/2013 21:30	0.55	6.6	1.23	552.0
9/1/2013 21:45	0.55	6.6	1.23	552.0
9/1/2013 22:00	0.55	6.6	1.23	552.0
9/1/2013 22:15	0.55	6.6	1.23	552.0

9/1/2013 22:30	0.55	6.6	1.23	552.0
9/1/2013 22:45	0.55	6.6	1.23	552.0
9/1/2013 23:00	0.55	6.6	1.23	552.0
9/1/2013 23:15	0.55	6.6	1.23	552.0
9/1/2013 23:30	0.55	6.6	1.23	552.0
9/1/2013 23:45	0.55	6.6	1.23	552.0
9/2/2013 0:00	0.55	6.6	1.23	552.0
9/2/2013 0:15	0.55	6.6	1.23	552.0
9/2/2013 0:30	0.55	6.6	1.23	552.0
9/2/2013 0:45	0.55	6.6	1.23	552.0
9/2/2013 1:00	0.55	6.6	1.23	552.0
9/2/2013 1:15	0.54	6.48	1.20	536.7
9/2/2013 1:30	0.55	6.6	1.23	552.0
9/2/2013 1:45	0.55	6.6	1.23	552.0
9/2/2013 2:00	0.55	6.6	1.23	552.0
9/2/2013 2:15	0.55	6.6	1.23	552.0
9/2/2013 2:30	0.55	6.6	1.23	552.0
9/2/2013 2:45	0.55	6.6	1.23	552.0
9/2/2013 3:00	0.54	6.48	1.20	536.7
9/2/2013 3:15	0.55	6.6	1.23	552.0
9/2/2013 3:30	0.55	6.6	1.23	552.0
9/2/2013 3:45	0.55	6.6	1.23	552.0
9/2/2013 4:00	0.55	6.6	1.23	552.0
9/2/2013 4:15	0.55	6.6	1.23	552.0
9/2/2013 4:30	0.55	6.6	1.23	552.0
9/2/2013 4:45	0.54	6.48	1.20	536.7
9/2/2013 5:00	0.54	6.48	1.20	536.7
9/2/2013 5:15	0.54	6.48	1.20	536.7
9/2/2013 5:30	0.55	6.6	1.23	552.0
9/2/2013 5:45	0.55	6.6	1.23	552.0
9/2/2013 6:00	0.55	6.6	1.23	552.0
9/2/2013 6:15	0.55	6.6	1.23	552.0
9/2/2013 6:30	0.55	6.6	1.23	552.0
9/2/2013 6:45	0.55	6.6	1.23	552.0
9/2/2013 7:00	0.55	6.6	1.23	552.0
9/2/2013 7:15	0.55	6.6	1.23	552.0
9/2/2013 7:30	0.55	6.6	1.23	552.0
9/2/2013 7:45	0.55	6.6	1.23	552.0
9/2/2013 8:00	0.55	6.6	1.23	552.0
9/2/2013 8:15	0.55	6.6	1.23	552.0
9/2/2013 8:30	0.55	6.6	1.23	552.0
9/2/2013 8:45	0.55	6.6	1.23	552.0
9/2/2013 9:00	0.55	6.6	1.23	552.0
9/2/2013 9:15	0.55	6.6	1.23	552.0
9/2/2013 9:30	0.55	6.6	1.23	552.0
9/2/2013 9:45	0.55	6.6	1.23	552.0
9/2/2013 10:00	0.55	6.6	1.23	552.0

9/2/2013 10:15	0.54	6.48	1.20	536.7
9/2/2013 10:30	0.55	6.6	1.23	552.0
9/2/2013 10:45	0.55	6.6	1.23	552.0
9/2/2013 11:00	0.54	6.48	1.20	536.7
9/2/2013 11:15	0.55	6.6	1.23	552.0
9/2/2013 11:30	0.55	6.6	1.23	552.0
9/2/2013 11:45	0.55	6.6	1.23	552.0
9/2/2013 12:00	0.55	6.6	1.23	552.0
9/2/2013 12:15	0.55	6.6	1.23	552.0
9/2/2013 12:30	0.54	6.48	1.20	536.7
9/2/2013 12:45	0.55	6.6	1.23	552.0
9/2/2013 13:00	0.55	6.6	1.23	552.0
9/2/2013 13:15	0.55	6.6	1.23	552.0
9/2/2013 13:30	0.55	6.6	1.23	552.0
9/2/2013 13:45	0.55	6.6	1.23	552.0
9/2/2013 14:00	0.55	6.6	1.23	552.0
9/2/2013 14:15	0.54	6.48	1.20	536.7
9/2/2013 14:30	0.55	6.6	1.23	552.0
9/2/2013 14:45	0.54	6.48	1.20	536.7
9/2/2013 15:00	0.55	6.6	1.23	552.0
9/2/2013 15:15	0.54	6.48	1.20	536.7
9/2/2013 15:30	0.55	6.6	1.23	552.0
9/2/2013 15:45	0.55	6.6	1.23	552.0
9/2/2013 16:00	0.55	6.6	1.23	552.0
9/2/2013 16:15	0.55	6.6	1.23	552.0
9/2/2013 16:30	0.54	6.48	1.20	536.7
9/2/2013 16:45	0.55	6.6	1.23	552.0
9/2/2013 17:00	0.55	6.6	1.23	552.0
9/2/2013 17:15	0.55	6.6	1.23	552.0
9/2/2013 17:30	0.54	6.48	1.20	536.7
9/2/2013 17:45	0.55	6.6	1.23	552.0
9/2/2013 18:00	0.55	6.6	1.23	552.0
9/2/2013 18:15	0.55	6.6	1.23	552.0
9/2/2013 18:30	0.55	6.6	1.23	552.0
9/2/2013 18:45	0.55	6.6	1.23	552.0
9/2/2013 19:00	0.55	6.6	1.23	552.0
9/2/2013 19:15	0.55	6.6	1.23	552.0
9/2/2013 19:30	0.55	6.6	1.23	552.0
9/2/2013 19:45	0.55	6.6	1.23	552.0
9/2/2013 20:00	0.55	6.6	1.23	552.0
9/2/2013 20:15	0.54	6.48	1.20	536.7
9/2/2013 20:30	0.55	6.6	1.23	552.0
9/2/2013 20:45	0.55	6.6	1.23	552.0
9/2/2013 21:00	0.55	6.6	1.23	552.0
9/2/2013 21:15	0.55	6.6	1.23	552.0
9/2/2013 21:30	0.54	6.48	1.20	536.7
9/2/2013 21:45	0.55	6.6	1.23	552.0

9/2/2013 22:00	0.55	6.6	1.23	552.0
9/2/2013 22:15	0.55	6.6	1.23	552.0
9/2/2013 22:30	0.55	6.6	1.23	552.0
9/2/2013 22:45	0.55	6.6	1.23	552.0
9/2/2013 23:00	0.55	6.6	1.23	552.0
9/2/2013 23:15	0.54	6.48	1.20	536.7
9/2/2013 23:30	0.55	6.6	1.23	552.0
9/2/2013 23:45	0.55	6.6	1.23	552.0
9/3/2013 0:00	0.54	6.48	1.20	536.7
9/3/2013 0:15	0.55	6.6	1.23	552.0
9/3/2013 0:30	0.55	6.6	1.23	552.0
9/3/2013 0:45	0.55	6.6	1.23	552.0
9/3/2013 1:00	0.54	6.48	1.20	536.7
9/3/2013 1:15	0.54	6.48	1.20	536.7
9/3/2013 1:30	0.55	6.6	1.23	552.0
9/3/2013 1:45	0.54	6.48	1.20	536.7
9/3/2013 2:00	0.55	6.6	1.23	552.0
9/3/2013 2:15	0.55	6.6	1.23	552.0
9/3/2013 2:30	0.55	6.6	1.23	552.0
9/3/2013 2:45	0.55	6.6	1.23	552.0
9/3/2013 3:00	0.55	6.6	1.23	552.0
9/3/2013 3:15	0.55	6.6	1.23	552.0
9/3/2013 3:30	0.55	6.6	1.23	552.0
9/3/2013 3:45	0.55	6.6	1.23	552.0
9/3/2013 4:00	0.54	6.48	1.20	536.7
9/3/2013 4:15	0.55	6.6	1.23	552.0
9/3/2013 4:30	0.55	6.6	1.23	552.0
9/3/2013 4:45	0.55	6.6	1.23	552.0
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9/3/2013 5:45	0.55	6.6	1.23	552.0
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9/3/2013 6:15	0.55	6.6	1.23	552.0
9/3/2013 6:30	0.55	6.6	1.23	552.0
9/3/2013 6:45	0.54	6.48	1.20	536.7
9/3/2013 7:00	0.55	6.6	1.23	552.0
9/3/2013 7:15	0.54	6.48	1.20	536.7
9/3/2013 7:30	0.55	6.6	1.23	552.0
9/3/2013 7:45	0.54	6.48	1.20	536.7
9/3/2013 8:00	0.55	6.6	1.23	552.0
9/3/2013 8:15	0.55	6.6	1.23	552.0
9/3/2013 8:30	0.55	6.6	1.23	552.0
9/3/2013 8:45	0.54	6.48	1.20	536.7
9/3/2013 9:00	0.54	6.48	1.20	536.7
9/3/2013 9:15	0.55	6.6	1.23	552.0
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9/3/2013 13:45	0.54	6.48	1.20	536.7
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9/6/2013 6:30	0.55	6.6	1.23	552.0
9/6/2013 6:45	0.55	6.6	1.23	552.0
9/6/2013 7:00	0.55	6.6	1.23	552.0
9/6/2013 7:15	0.55	6.6	1.23	552.0
9/6/2013 7:30	0.55	6.6	1.23	552.0
9/6/2013 7:45	0.55	6.6	1.23	552.0
9/6/2013 8:00	0.55	6.6	1.23	552.0

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9/6/2013 8:30	0.55	6.6	1.23	552.0
9/6/2013 8:45	0.55	6.6	1.23	552.0
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9/6/2013 9:15	0.55	6.6	1.23	552.0
9/6/2013 9:30	0.54	6.48	1.20	536.7
9/6/2013 9:45	0.55	6.6	1.23	552.0
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9/6/2013 10:30	0.55	6.6	1.23	552.0
9/6/2013 10:45	0.54	6.48	1.20	536.7
9/6/2013 11:00	0.54	6.48	1.20	536.7
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9/6/2013 11:30	0.55	6.6	1.23	552.0
9/6/2013 11:45	0.55	6.6	1.23	552.0
9/6/2013 12:00	0.55	6.6	1.23	552.0
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9/6/2013 13:45	0.55	6.6	1.23	552.0
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9/6/2013 14:30	0.54	6.48	1.20	536.7
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9/9/2013 12:45	0.55	6.6	1.23	552.0
9/9/2013 13:00	0.54	6.48	1.20	536.7
9/9/2013 13:15	0.55	6.6	1.23	552.0
9/9/2013 13:30	0.55	6.6	1.23	552.0
9/9/2013 13:45	0.55	6.6	1.23	552.0
9/9/2013 14:00	0.55	6.6	1.23	552.0
9/9/2013 14:15	0.55	6.6	1.23	552.0
9/9/2013 14:30	0.55	6.6	1.23	552.0
9/9/2013 14:45	0.55	6.6	1.23	552.0
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9/9/2013 16:45	0.55	6.6	1.23	552.0
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9/12/2013 19:00	0.55	6.6	1.23	552.0
9/12/2013 19:15	0.55	6.6	1.23	552.0
9/12/2013 19:30	0.55	6.6	1.23	552.0
9/12/2013 19:45	0.55	6.6	1.23	552.0
9/12/2013 20:00	0.55	6.6	1.23	552.0
9/12/2013 20:15	0.55	6.6	1.23	552.0
9/12/2013 20:30	0.54	6.48	1.20	536.7
9/12/2013 20:45	0.55	6.6	1.23	552.0
9/12/2013 21:00	0.55	6.6	1.23	552.0
9/12/2013 21:15	0.55	6.6	1.23	552.0
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9/12/2013 21:45	0.55	6.6	1.23	552.0
9/12/2013 22:00	0.55	6.6	1.23	552.0
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9/13/2013 2:45	0.55	6.6	1.23	552.0
9/13/2013 3:00	0.54	6.48	1.20	536.7
9/13/2013 3:15	0.55	6.6	1.23	552.0
9/13/2013 3:30	0.55	6.6	1.23	552.0
9/13/2013 3:45	0.54	6.48	1.20	536.7
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9/13/2013 14:45	0.55	6.6	1.23	552.0
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9/13/2013 16:00	0.55	6.6	1.23	552.0
9/13/2013 16:15	0.54	6.48	1.20	536.7

9/13/2013 16:30	0.55	6.6	1.23	552.0
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9/16/2013 1:15	0.54	6.48	1.20	536.7
9/16/2013 1:30	0.55	6.6	1.23	552.0
9/16/2013 1:45	0.55	6.6	1.23	552.0
9/16/2013 2:00	0.55	6.6	1.23	552.0
9/16/2013 2:15	0.55	6.6	1.23	552.0
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9/16/2013 2:45	0.55	6.6	1.23	552.0
9/16/2013 3:00	0.55	6.6	1.23	552.0

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9/16/2013 3:45	0.55	6.6	1.23	552.0
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9/16/2013 4:30	0.55	6.6	1.23	552.0
9/16/2013 4:45	0.54	6.48	1.20	536.7
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9/16/2013 6:30	0.54	6.48	1.20	536.7
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9/16/2013 7:00	0.55	6.6	1.23	552.0
9/16/2013 7:15	0.54	6.48	1.20	536.7
9/16/2013 7:30	0.55	6.6	1.23	552.0
9/16/2013 7:45	0.55	6.6	1.23	552.0
9/16/2013 8:00	0.54	6.48	1.20	536.7
9/16/2013 8:15	0.55	6.6	1.23	552.0
9/16/2013 8:30	0.54	6.48	1.20	536.7
9/16/2013 8:45	0.55	6.6	1.23	552.0
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9/16/2013 9:15	0.54	6.48	1.20	536.7
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9/16/2013 10:30	0.55	6.6	1.23	552.0
9/16/2013 10:45	0.54	6.48	1.20	536.7
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9/19/2013 8:45	0.55	6.6	1.23	552.0
9/19/2013 9:00	0.55	6.6	1.23	552.0
9/19/2013 9:15	0.55	6.6	1.23	552.0
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9/22/2013 13:45	0.55	6.6	1.23	552.0
9/22/2013 14:00	0.54	6.48	1.20	536.7
9/22/2013 14:15	0.55	6.6	1.23	552.0
9/22/2013 14:30	0.55	6.6	1.23	552.0
9/22/2013 14:45	0.55	6.6	1.23	552.0
9/22/2013 15:00	0.55	6.6	1.23	552.0
9/22/2013 15:15	0.54	6.48	1.20	536.7
9/22/2013 15:30	0.55	6.6	1.23	552.0
9/22/2013 15:45	0.55	6.6	1.23	552.0
9/22/2013 16:00	0.55	6.6	1.23	552.0
9/22/2013 16:15	0.54	6.48	1.20	536.7
9/22/2013 16:30	0.54	6.48	1.20	536.7
9/22/2013 16:45	0.55	6.6	1.23	552.0
9/22/2013 17:00	0.55	6.6	1.23	552.0
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9/22/2013 17:45	0.54	6.48	1.20	536.7
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9/22/2013 18:45	0.55	6.6	1.23	552.0
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9/22/2013 19:45	0.54	6.48	1.20	536.7
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9/23/2013 7:45	0.55	6.6	1.23	552.0
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9/23/2013 11:00	0.55	6.6	1.23	552.0
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9/25/2013 19:30	0.55	6.6	1.23	552.0
9/25/2013 19:45	0.55	6.6	1.23	552.0
9/25/2013 20:00	0.55	6.6	1.23	552.0
9/25/2013 20:15	0.55	6.6	1.23	552.0
9/25/2013 20:30	0.54	6.48	1.20	536.7
9/25/2013 20:45	0.55	6.6	1.23	552.0
9/25/2013 21:00	0.55	6.6	1.23	552.0
9/25/2013 21:15	0.55	6.6	1.23	552.0
9/25/2013 21:30	0.55	6.6	1.23	552.0
9/25/2013 21:45	0.55	6.6	1.23	552.0
9/25/2013 22:00	0.54	6.48	1.20	536.7

9/25/2013 22:15	0.55	6.6	1.23	552.0
9/25/2013 22:30	0.55	6.6	1.23	552.0
9/25/2013 22:45	0.55	6.6	1.23	552.0
9/25/2013 23:00	0.54	6.48	1.20	536.7
9/25/2013 23:15	0.55	6.6	1.23	552.0
9/25/2013 23:30	0.55	6.6	1.23	552.0
9/25/2013 23:45	0.55	6.6	1.23	552.0
9/26/2013 0:00	0.55	6.6	1.23	552.0
9/26/2013 0:15	0.55	6.6	1.23	552.0
9/26/2013 0:30	0.55	6.6	1.23	552.0
9/26/2013 0:45	0.55	6.6	1.23	552.0
9/26/2013 1:00	0.55	6.6	1.23	552.0
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9/26/2013 1:30	0.55	6.6	1.23	552.0
9/26/2013 1:45	0.55	6.6	1.23	552.0
9/26/2013 2:00	0.55	6.6	1.23	552.0
9/26/2013 2:15	0.54	6.48	1.20	536.7
9/26/2013 2:30	0.55	6.6	1.23	552.0
9/26/2013 2:45	0.55	6.6	1.23	552.0
9/26/2013 3:00	0.55	6.6	1.23	552.0
9/26/2013 3:15	0.55	6.6	1.23	552.0
9/26/2013 3:30	0.55	6.6	1.23	552.0
9/26/2013 3:45	0.55	6.6	1.23	552.0
9/26/2013 4:00	0.55	6.6	1.23	552.0
9/26/2013 4:15	0.54	6.48	1.20	536.7
9/26/2013 4:30	0.54	6.48	1.20	536.7
9/26/2013 4:45	0.55	6.6	1.23	552.0
9/26/2013 5:00	0.55	6.6	1.23	552.0
9/26/2013 5:15	0.55	6.6	1.23	552.0
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9/26/2013 5:45	0.55	6.6	1.23	552.0
9/26/2013 6:00	0.55	6.6	1.23	552.0
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9/26/2013 6:30	0.55	6.6	1.23	552.0
9/26/2013 6:45	0.55	6.6	1.23	552.0
9/26/2013 7:00	0.55	6.6	1.23	552.0
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9/26/2013 7:45	0.55	6.6	1.23	552.0
9/26/2013 8:00	0.55	6.6	1.23	552.0
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9/26/2013 8:45	0.55	6.6	1.23	552.0
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9/26/2013 9:30	0.55	6.6	1.23	552.0
9/26/2013 9:45	0.54	6.48	1.20	536.7

9/26/2013 10:00	0.55	6.6	1.23	552.0
9/26/2013 10:15	0.55	6.6	1.23	552.0
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9/26/2013 10:45	0.54	6.48	1.20	536.7
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9/26/2013 11:45	0.54	6.48	1.20	536.7
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9/26/2013 12:45	0.55	6.6	1.23	552.0
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9/26/2013 13:45	0.54	6.48	1.20	536.7
9/26/2013 14:00	0.55	6.6	1.23	552.0
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9/26/2013 17:00	0.55	6.6	1.23	552.0
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9/26/2013 17:30	0.55	6.6	1.23	552.0
9/26/2013 17:45	0.55	6.6	1.23	552.0
9/26/2013 18:00	0.55	6.6	1.23	552.0
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9/26/2013 18:45	0.55	6.6	1.23	552.0
9/26/2013 19:00	0.55	6.6	1.23	552.0
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9/26/2013 21:30	0.54	6.48	1.20	536.7

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9/28/2013 2:45	0.55	6.6	1.23	552.0
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9/28/2013 3:30	0.55	6.6	1.23	552.0
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9/29/2013 1:45	0.55	6.6	1.23	552.0
9/29/2013 2:00	0.55	6.6	1.23	552.0
9/29/2013 2:15	0.55	6.6	1.23	552.0
9/29/2013 2:30	0.54	6.48	1.20	536.7
9/29/2013 2:45	0.55	6.6	1.23	552.0
9/29/2013 3:00	0.55	6.6	1.23	552.0
9/29/2013 3:15	0.55	6.6	1.23	552.0
9/29/2013 3:30	0.55	6.6	1.23	552.0
9/29/2013 3:45	0.55	6.6	1.23	552.0
9/29/2013 4:00	0.55	6.6	1.23	552.0
9/29/2013 4:15	0.55	6.6	1.23	552.0
9/29/2013 4:30	0.54	6.48	1.20	536.7
9/29/2013 4:45	0.54	6.48	1.20	536.7
9/29/2013 5:00	0.55	6.6	1.23	552.0
9/29/2013 5:15	0.55	6.6	1.23	552.0
9/29/2013 5:30	0.55	6.6	1.23	552.0
9/29/2013 5:45	0.55	6.6	1.23	552.0
9/29/2013 6:00	0.55	6.6	1.23	552.0
9/29/2013 6:15	0.55	6.6	1.23	552.0
9/29/2013 6:30	0.55	6.6	1.23	552.0
9/29/2013 6:45	0.55	6.6	1.23	552.0
9/29/2013 7:00	0.55	6.6	1.23	552.0
9/29/2013 7:15	0.55	6.6	1.23	552.0
9/29/2013 7:30	0.55	6.6	1.23	552.0
9/29/2013 7:45	0.55	6.6	1.23	552.0
9/29/2013 8:00	0.55	6.6	1.23	552.0
9/29/2013 8:15	0.55	6.6	1.23	552.0

9/29/2013 8:30	0.55	6.6	1.23	552.0
9/29/2013 8:45	0.55	6.6	1.23	552.0
9/29/2013 9:00	0.55	6.6	1.23	552.0
9/29/2013 9:15	0.55	6.6	1.23	552.0
9/29/2013 9:30	0.55	6.6	1.23	552.0
9/29/2013 9:45	0.54	6.48	1.20	536.7
9/29/2013 10:00	0.54	6.48	1.20	536.7
9/29/2013 10:15	0.55	6.6	1.23	552.0
9/29/2013 10:30	0.55	6.6	1.23	552.0
9/29/2013 10:45	0.54	6.48	1.20	536.7
9/29/2013 11:00	0.54	6.48	1.20	536.7
9/29/2013 11:15	0.55	6.6	1.23	552.0
9/29/2013 11:30	0.55	6.6	1.23	552.0
9/29/2013 11:45	0.55	6.6	1.23	552.0
9/29/2013 12:00	0.55	6.6	1.23	552.0
9/29/2013 12:15	0.55	6.6	1.23	552.0
9/29/2013 12:30	0.55	6.6	1.23	552.0
9/29/2013 12:45	0.55	6.6	1.23	552.0
9/29/2013 13:00	0.54	6.48	1.20	536.7
9/29/2013 13:15	0.54	6.48	1.20	536.7
9/29/2013 13:30	0.55	6.6	1.23	552.0
9/29/2013 13:45	0.55	6.6	1.23	552.0
9/29/2013 14:00	0.55	6.6	1.23	552.0
9/29/2013 14:15	0.55	6.6	1.23	552.0
9/29/2013 14:30	0.55	6.6	1.23	552.0
9/29/2013 14:45	0.55	6.6	1.23	552.0
9/29/2013 15:00	0.54	6.48	1.20	536.7
9/29/2013 15:15	0.55	6.6	1.23	552.0
9/29/2013 15:30	0.54	6.48	1.20	536.7
9/29/2013 15:45	0.54	6.48	1.20	536.7
9/29/2013 16:00	0.55	6.6	1.23	552.0
9/29/2013 16:15	0.54	6.48	1.20	536.7
9/29/2013 16:30	0.55	6.6	1.23	552.0
9/29/2013 16:45	0.55	6.6	1.23	552.0
9/29/2013 17:00	0.55	6.6	1.23	552.0
9/29/2013 17:15	0.54	6.48	1.20	536.7
9/29/2013 17:30	0.54	6.48	1.20	536.7
9/29/2013 17:45	0.55	6.6	1.23	552.0
9/29/2013 18:00	0.55	6.6	1.23	552.0
9/29/2013 18:15	0.55	6.6	1.23	552.0
9/29/2013 18:30	0.55	6.6	1.23	552.0
9/29/2013 18:45	0.55	6.6	1.23	552.0
9/29/2013 19:00	0.54	6.48	1.20	536.7
9/29/2013 19:15	0.55	6.6	1.23	552.0
9/29/2013 19:30	0.55	6.6	1.23	552.0
9/29/2013 19:45	0.55	6.6	1.23	552.0
9/29/2013 20:00	0.55	6.6	1.23	552.0

9/29/2013 20:15	0.55	6.6	1.23	552.0
9/29/2013 20:30	0.55	6.6	1.23	552.0
9/29/2013 20:45	0.55	6.6	1.23	552.0
9/29/2013 21:00	0.55	6.6	1.23	552.0
9/29/2013 21:15	0.54	6.48	1.20	536.7
9/29/2013 21:30	0.55	6.6	1.23	552.0
9/29/2013 21:45	0.55	6.6	1.23	552.0
9/29/2013 22:00	0.55	6.6	1.23	552.0
9/29/2013 22:15	0.55	6.6	1.23	552.0
9/29/2013 22:30	0.55	6.6	1.23	552.0
9/29/2013 22:45	0.54	6.48	1.20	536.7
9/29/2013 23:00	0.55	6.6	1.23	552.0
9/29/2013 23:15	0.55	6.6	1.23	552.0
9/29/2013 23:30	0.54	6.48	1.20	536.7
9/29/2013 23:45	0.55	6.6	1.23	552.0
9/30/2013 0:00	0.55	6.6	1.23	552.0
9/30/2013 0:15	0.55	6.6	1.23	552.0
9/30/2013 0:30	0.55	6.6	1.23	552.0
9/30/2013 0:45	0.54	6.48	1.20	536.7
9/30/2013 1:00	0.55	6.6	1.23	552.0
9/30/2013 1:15	0.55	6.6	1.23	552.0
9/30/2013 1:30	0.55	6.6	1.23	552.0
9/30/2013 1:45	0.55	6.6	1.23	552.0
9/30/2013 2:00	0.55	6.6	1.23	552.0
9/30/2013 2:15	0.55	6.6	1.23	552.0
9/30/2013 2:30	0.55	6.6	1.23	552.0
9/30/2013 2:45	0.55	6.6	1.23	552.0
9/30/2013 3:00	0.55	6.6	1.23	552.0
9/30/2013 3:15	0.55	6.6	1.23	552.0
9/30/2013 3:30	0.54	6.48	1.20	536.7
9/30/2013 3:45	0.55	6.6	1.23	552.0
9/30/2013 4:00	0.55	6.6	1.23	552.0
9/30/2013 4:15	0.55	6.6	1.23	552.0
9/30/2013 4:30	0.55	6.6	1.23	552.0
9/30/2013 4:45	0.55	6.6	1.23	552.0
9/30/2013 5:00	0.55	6.6	1.23	552.0
9/30/2013 5:15	0.54	6.48	1.20	536.7
9/30/2013 5:30	0.55	6.6	1.23	552.0
9/30/2013 5:45	0.55	6.6	1.23	552.0
9/30/2013 6:00	0.55	6.6	1.23	552.0
9/30/2013 6:15	0.54	6.48	1.20	536.7
9/30/2013 6:30	0.55	6.6	1.23	552.0
9/30/2013 6:45	0.55	6.6	1.23	552.0
9/30/2013 7:00	0.55	6.6	1.23	552.0
9/30/2013 7:15	0.55	6.6	1.23	552.0
9/30/2013 7:30	0.55	6.6	1.23	552.0
9/30/2013 7:45	0.54	6.48	1.20	536.7

9/30/2013 8:00	0.55	6.6	1.23	552.0
9/30/2013 8:15	0.55	6.6	1.23	552.0
9/30/2013 8:30	0.55	6.6	1.23	552.0
9/30/2013 8:45	0.55	6.6	1.23	552.0
9/30/2013 9:00	0.55	6.6	1.23	552.0
9/30/2013 9:15	0.55	6.6	1.23	552.0
9/30/2013 9:30	0.54	6.48	1.20	536.7
9/30/2013 9:45	0.55	6.6	1.23	552.0
9/30/2013 10:00	0.55	6.6	1.23	552.0
9/30/2013 10:15	0.55	6.6	1.23	552.0
9/30/2013 10:30	0.54	6.48	1.20	536.7
9/30/2013 10:45	0.55	6.6	1.23	552.0
9/30/2013 11:00	0.55	6.6	1.23	552.0
9/30/2013 11:15	0.55	6.6	1.23	552.0
9/30/2013 11:30	0.55	6.6	1.23	552.0
9/30/2013 11:45	0.54	6.48	1.20	536.7
9/30/2013 12:00	0.55	6.6	1.23	552.0
9/30/2013 12:15	0.54	6.48	1.20	536.7
9/30/2013 12:30	0.55	6.6	1.23	552.0
9/30/2013 12:45	0.54	6.48	1.20	536.7
9/30/2013 13:00	0.54	6.48	1.20	536.7
9/30/2013 13:15	0.55	6.6	1.23	552.0
9/30/2013 13:30	0.55	6.6	1.23	552.0
9/30/2013 13:45	0.54	6.48	1.20	536.7
9/30/2013 14:00	0.55	6.6	1.23	552.0
9/30/2013 14:15	0.55	6.6	1.23	552.0
9/30/2013 14:30	0.54	6.48	1.20	536.7
9/30/2013 14:45	0.55	6.6	1.23	552.0
9/30/2013 15:00	0.55	6.6	1.23	552.0
9/30/2013 15:15	0.55	6.6	1.23	552.0
9/30/2013 15:30	0.54	6.48	1.20	536.7
9/30/2013 15:45	0.55	6.6	1.23	552.0
9/30/2013 16:00	0.55	6.6	1.23	552.0
9/30/2013 16:15	0.55	6.6	1.23	552.0
9/30/2013 16:30	0.55	6.6	1.23	552.0
9/30/2013 16:45	0.55	6.6	1.23	552.0
9/30/2013 17:00	0.55	6.6	1.23	552.0
9/30/2013 17:15	0.55	6.6	1.23	552.0
9/30/2013 17:30	0.55	6.6	1.23	552.0
9/30/2013 17:45	0.55	6.6	1.23	552.0
9/30/2013 18:00	0.55	6.6	1.23	552.0
9/30/2013 18:15	0.55	6.6	1.23	552.0
9/30/2013 18:30	0.55	6.6	1.23	552.0
9/30/2013 18:45	0.55	6.6	1.23	552.0
9/30/2013 19:00	0.55	6.6	1.23	552.0
9/30/2013 19:15	0.55	6.6	1.23	552.0
9/30/2013 19:30	0.55	6.6	1.23	552.0

9/30/2013 19:45	0.55	6.6	1.23	552.0
9/30/2013 20:00	0.55	6.6	1.23	552.0
9/30/2013 20:15	0.55	6.6	1.23	552.0
9/30/2013 20:30	0.54	6.48	1.20	536.7
9/30/2013 20:45	0.55	6.6	1.23	552.0
9/30/2013 21:00	0.55	6.6	1.23	552.0
9/30/2013 21:15	0.55	6.6	1.23	552.0
9/30/2013 21:30	0.55	6.6	1.23	552.0
9/30/2013 21:45	0.55	6.6	1.23	552.0
9/30/2013 22:00	0.55	6.6	1.23	552.0
9/30/2013 22:15	0.55	6.6	1.23	552.0
9/30/2013 22:30	0.55	6.6	1.23	552.0
9/30/2013 22:45	0.55	6.6	1.23	552.0
9/30/2013 23:00	0.55	6.6	1.23	552.0
9/30/2013 23:15	0.55	6.6	1.23	552.0
9/30/2013 23:30	0.55	6.6	1.23	552.0
9/30/2013 23:45	0.55	6.6	1.23	552.0

Appendix K

South Flume Orpheus Mini Data with Flowrates

OTT Opheus Mini Data at South Flume, September 2013

Date	Time	Depth from top of flume to water (ft)	Depth of Flume Total (ft)	Depth of Flow (ft)	Flowrate (cfs)	Flowrate (gpm)
09/01/2013	12:00:00 AM	2.01	2.5	0.49	1.03	462.6
09/01/2013	1:00:00 AM	2.02	2.5	0.48	1.00	448.2
09/01/2013	2:00:00 AM	2.02	2.5	0.48	1.00	448.2
09/01/2013	3:00:00 AM	2.03	2.5	0.47	0.97	434.0
09/01/2013	4:00:00 AM	2.05	2.5	0.45	0.90	406.1
09/01/2013	5:00:00 AM	2.05	2.5	0.45	0.90	406.1
09/01/2013	6:00:00 AM	2.06	2.5	0.44	0.87	392.4
09/01/2013	7:00:00 AM	2.07	2.5	0.43	0.84	378.8
09/01/2013	8:00:00 AM	2.07	2.5	0.43	0.84	378.8
09/01/2013	9:00:00 AM	2.08	2.5	0.42	0.81	365.4
09/01/2013	10:00:00 AM	2.09	2.5	0.41	0.78	352.2
09/01/2013	11:00:00 AM	2.09	2.5	0.41	0.78	352.2
09/01/2013	12:00:00 PM	2.1	2.5	0.40	0.76	339.1
09/01/2013	1:00:00 PM	2.1	2.5	0.40	0.76	339.1
09/01/2013	2:00:00 PM	2.1	2.5	0.40	0.76	339.1
09/01/2013	3:00:00 PM	2.12	2.5	0.38	0.70	313.5
09/01/2013	4:00:00 PM	2.12	2.5	0.38	0.70	313.5
09/01/2013	5:00:00 PM	2.12	2.5	0.38	0.70	313.5
09/01/2013	6:00:00 PM	2.12	2.5	0.38	0.70	313.5
09/01/2013	7:00:00 PM	2.12	2.5	0.38	0.70	313.5
09/01/2013	8:00:00 PM	2.12	2.5	0.38	0.70	313.5
09/01/2013	9:00:00 PM	2.13	2.5	0.37	0.67	301.0
09/01/2013	10:00:00 PM	2.13	2.5	0.37	0.67	301.0
09/01/2013	11:00:00 PM	2.12	2.5	0.38	0.70	313.5
09/02/2013	12:00:00 AM	2.11	2.5	0.39	0.73	326.2
09/02/2013	1:00:00 AM	2.11	2.5	0.39	0.73	326.2
09/02/2013	2:00:00 AM	2.11	2.5	0.39	0.73	326.2
09/02/2013	3:00:00 AM	2.12	2.5	0.38	0.70	313.5
09/02/2013	4:00:00 AM	2.12	2.5	0.38	0.70	313.5
09/02/2013	5:00:00 AM	2.12	2.5	0.38	0.70	313.5
09/02/2013	6:00:00 AM	2.12	2.5	0.38	0.70	313.5
09/02/2013	7:00:00 AM	2.12	2.5	0.38	0.70	313.5
09/02/2013	8:00:00 AM	2.12	2.5	0.38	0.70	313.5
09/02/2013	9:00:00 AM	2.12	2.5	0.38	0.70	313.5
09/02/2013	10:00:00 AM	2.12	2.5	0.38	0.70	313.5
09/02/2013	11:00:00 AM	2.13	2.5	0.37	0.67	301.0
09/02/2013	12:00:00 PM	2.13	2.5	0.37	0.67	301.0
09/02/2013	1:00:00 PM	2.13	2.5	0.37	0.67	301.0
09/02/2013	2:00:00 PM	2.14	2.5	0.36	0.64	288.6
09/02/2013	3:00:00 PM	2.13	2.5	0.37	0.67	301.0
09/02/2013	4:00:00 PM	2.14	2.5	0.36	0.64	288.6
09/02/2013	5:00:00 PM	2.14	2.5	0.36	0.64	288.6
09/02/2013	6:00:00 PM	2.14	2.5	0.36	0.64	288.6

09/02/2013	7:00:00 PM	2.14	2.5	0.36	0.64	288.6
09/02/2013	8:00:00 PM	2.14	2.5	0.36	0.64	288.6
09/02/2013	9:00:00 PM	2.14	2.5	0.36	0.64	288.6
09/02/2013	10:00:00 PM	2.14	2.5	0.36	0.64	288.6
09/02/2013	11:00:00 PM	2.14	2.5	0.36	0.64	288.6
09/03/2013	12:00:00 AM	2.15	2.5	0.35	0.62	276.4
09/03/2013	1:00:00 AM	2.17	2.5	0.33	0.56	252.6
09/03/2013	2:00:00 AM	2.15	2.5	0.35	0.62	276.4
09/03/2013	3:00:00 AM	2.15	2.5	0.35	0.62	276.4
09/03/2013	4:00:00 AM	2.13	2.5	0.37	0.67	301.0
09/03/2013	5:00:00 AM	2.13	2.5	0.37	0.67	301.0
09/03/2013	6:00:00 AM	2.14	2.5	0.36	0.64	288.6
09/03/2013	7:00:00 AM	2.14	2.5	0.36	0.64	288.6
09/03/2013	8:00:00 AM	2.14	2.5	0.36	0.64	288.6
09/03/2013	9:00:00 AM	2.14	2.5	0.36	0.64	288.6
09/03/2013	10:00:00 AM	2.14	2.5	0.36	0.64	288.6
09/03/2013	11:00:00 AM	2.14	2.5	0.36	0.64	288.6
09/03/2013	12:00:00 PM	2.14	2.5	0.36	0.64	288.6
09/03/2013	1:00:00 PM	2.14	2.5	0.36	0.64	288.6
09/03/2013	2:00:00 PM	2.14	2.5	0.36	0.64	288.6
09/03/2013	3:00:00 PM	2.14	2.5	0.36	0.64	288.6
09/03/2013	4:00:00 PM	2.14	2.5	0.36	0.64	288.6
09/03/2013	5:00:00 PM	2.14	2.5	0.36	0.64	288.6
09/03/2013	6:00:00 PM	2.13	2.5	0.37	0.67	301.0
09/03/2013	7:00:00 PM	2.13	2.5	0.37	0.67	301.0
09/03/2013	8:00:00 PM	2.13	2.5	0.37	0.67	301.0
09/03/2013	9:00:00 PM	2.13	2.5	0.37	0.67	301.0
09/03/2013	10:00:00 PM	2.13	2.5	0.37	0.67	301.0
09/03/2013	11:00:00 PM	2.14	2.5	0.36	0.64	288.6
09/04/2013	12:00:00 AM	2.13	2.5	0.37	0.67	301.0
09/04/2013	1:00:00 AM	2.14	2.5	0.36	0.64	288.6
09/04/2013	2:00:00 AM	2.14	2.5	0.36	0.64	288.6
09/04/2013	3:00:00 AM	2.13	2.5	0.37	0.67	301.0
09/04/2013	4:00:00 AM	2.13	2.5	0.37	0.67	301.0
09/04/2013	5:00:00 AM	2.13	2.5	0.37	0.67	301.0
09/04/2013	6:00:00 AM	2.13	2.5	0.37	0.67	301.0
09/04/2013	7:00:00 AM	2.13	2.5	0.37	0.67	301.0
09/04/2013	8:00:00 AM	2.13	2.5	0.37	0.67	301.0
09/04/2013	9:00:00 AM	2.13	2.5	0.37	0.67	301.0
09/04/2013	10:00:00 AM	2.13	2.5	0.37	0.67	301.0
09/04/2013	11:00:00 AM	2.13	2.5	0.37	0.67	301.0
09/04/2013	12:00:00 PM	2.14	2.5	0.36	0.64	288.6
09/04/2013	1:00:00 PM	2.14	2.5	0.36	0.64	288.6
09/04/2013	2:00:00 PM	2.14	2.5	0.36	0.64	288.6
09/04/2013	3:00:00 PM	2.14	2.5	0.36	0.64	288.6
09/04/2013	4:00:00 PM	2.15	2.5	0.35	0.62	276.4
09/04/2013	5:00:00 PM	2.16	2.5	0.34	0.59	264.5

09/04/2013	6:00:00 PM	2.17	2.5	0.33	0.56	252.6
09/04/2013	7:00:00 PM	2.18	2.5	0.32	0.54	241.0
09/04/2013	8:00:00 PM	2.19	2.5	0.31	0.51	229.6
09/04/2013	9:00:00 PM	2.2	2.5	0.30	0.49	218.4
09/04/2013	10:00:00 PM	2.2	2.5	0.30	0.49	218.4
09/04/2013	11:00:00 PM	2.2	2.5	0.30	0.49	218.4
09/05/2013	12:00:00 AM	2.19	2.5	0.31	0.51	229.6
09/05/2013	1:00:00 AM	2.19	2.5	0.31	0.51	229.6
09/05/2013	2:00:00 AM	2.19	2.5	0.31	0.51	229.6
09/05/2013	3:00:00 AM	2.19	2.5	0.31	0.51	229.6
09/05/2013	4:00:00 AM	2.18	2.5	0.32	0.54	241.0
09/05/2013	5:00:00 AM	2.18	2.5	0.32	0.54	241.0
09/05/2013	6:00:00 AM	2.17	2.5	0.33	0.56	252.6
09/05/2013	7:00:00 AM	2.17	2.5	0.33	0.56	252.6
09/05/2013	8:00:00 AM	2.16	2.5	0.34	0.59	264.5
09/05/2013	9:00:00 AM	2.16	2.5	0.34	0.59	264.5
09/05/2013	10:00:00 AM	2.15	2.5	0.35	0.62	276.4
09/05/2013	11:00:00 AM	2.15	2.5	0.35	0.62	276.4
09/05/2013	12:00:00 PM	2.14	2.5	0.36	0.64	288.6
09/05/2013	1:00:00 PM	2.14	2.5	0.36	0.64	288.6
09/05/2013	2:00:00 PM	2.14	2.5	0.36	0.64	288.6
09/05/2013	3:00:00 PM	2.14	2.5	0.36	0.64	288.6
09/05/2013	4:00:00 PM	2.15	2.5	0.35	0.62	276.4
09/05/2013	5:00:00 PM	2.15	2.5	0.35	0.62	276.4
09/05/2013	6:00:00 PM	2.16	2.5	0.34	0.59	264.5
09/05/2013	7:00:00 PM	2.18	2.5	0.32	0.54	241.0
09/05/2013	8:00:00 PM	2.19	2.5	0.31	0.51	229.6
09/05/2013	9:00:00 PM	2.2	2.5	0.30	0.49	218.4
09/05/2013	10:00:00 PM	2.2	2.5	0.30	0.49	218.4
09/05/2013	11:00:00 PM	2.2	2.5	0.30	0.49	218.4
09/06/2013	12:00:00 AM	2.2	2.5	0.30	0.49	218.4
09/06/2013	1:00:00 AM	2.2	2.5	0.30	0.49	218.4
09/06/2013	2:00:00 AM	2.19	2.5	0.31	0.51	229.6
09/06/2013	3:00:00 AM	2.19	2.5	0.31	0.51	229.6
09/06/2013	4:00:00 AM	2.18	2.5	0.32	0.54	241.0
09/06/2013	5:00:00 AM	2.17	2.5	0.33	0.56	252.6
09/06/2013	6:00:00 AM	2.16	2.5	0.34	0.59	264.5
09/06/2013	7:00:00 AM	2.16	2.5	0.34	0.59	264.5
09/06/2013	8:00:00 AM	2.15	2.5	0.35	0.62	276.4
09/06/2013	9:00:00 AM	2.15	2.5	0.35	0.62	276.4
09/06/2013	10:00:00 AM	2.14	2.5	0.36	0.64	288.6
09/06/2013	11:00:00 AM	2.14	2.5	0.36	0.64	288.6
09/06/2013	12:00:00 PM	2.14	2.5	0.36	0.64	288.6
09/06/2013	1:00:00 PM	2.14	2.5	0.36	0.64	288.6
09/06/2013	2:00:00 PM	2.15	2.5	0.35	0.62	276.4
09/06/2013	3:00:00 PM	2.16	2.5	0.34	0.59	264.5
09/06/2013	4:00:00 PM	2.19	2.5	0.31	0.51	229.6

09/06/2013	5:00:00 PM	2.19	2.5	0.31	0.51	229.6
09/06/2013	6:00:00 PM	2.2	2.5	0.30	0.49	218.4
09/06/2013	7:00:00 PM	2.19	2.5	0.31	0.51	229.6
09/06/2013	8:00:00 PM	2.08	2.5	0.42	0.81	365.4
09/06/2013	9:00:00 PM	2.12	2.5	0.38	0.70	313.5
09/06/2013	10:00:00 PM	2.13	2.5	0.37	0.67	301.0
09/06/2013	11:00:00 PM	2.14	2.5	0.36	0.64	288.6
09/07/2013	12:00:00 AM	2.15	2.5	0.35	0.62	276.4
09/07/2013	1:00:00 AM	2.15	2.5	0.35	0.62	276.4
09/07/2013	2:00:00 AM	2.15	2.5	0.35	0.62	276.4
09/07/2013	3:00:00 AM	2.14	2.5	0.36	0.64	288.6
09/07/2013	4:00:00 AM	2.14	2.5	0.36	0.64	288.6
09/07/2013	5:00:00 AM	2.14	2.5	0.36	0.64	288.6
09/07/2013	6:00:00 AM	2.14	2.5	0.36	0.64	288.6
09/07/2013	7:00:00 AM	2.14	2.5	0.36	0.64	288.6
09/07/2013	8:00:00 AM	2.13	2.5	0.37	0.67	301.0
09/07/2013	9:00:00 AM	2.13	2.5	0.37	0.67	301.0
09/07/2013	10:00:00 AM	2.13	2.5	0.37	0.67	301.0
09/07/2013	11:00:00 AM	2.13	2.5	0.37	0.67	301.0
09/07/2013	12:00:00 PM	2.13	2.5	0.37	0.67	301.0
09/07/2013	1:00:00 PM	2.13	2.5	0.37	0.67	301.0
09/07/2013	2:00:00 PM	2.13	2.5	0.37	0.67	301.0
09/07/2013	3:00:00 PM	2.13	2.5	0.37	0.67	301.0
09/07/2013	4:00:00 PM	2.14	2.5	0.36	0.64	288.6
09/07/2013	5:00:00 PM	2.13	2.5	0.37	0.67	301.0
09/07/2013	6:00:00 PM	2.13	2.5	0.37	0.67	301.0
09/07/2013	7:00:00 PM	2.13	2.5	0.37	0.67	301.0
09/07/2013	8:00:00 PM	2.13	2.5	0.37	0.67	301.0
09/07/2013	9:00:00 PM	2.13	2.5	0.37	0.67	301.0
09/07/2013	10:00:00 PM	2.13	2.5	0.37	0.67	301.0
09/07/2013	11:00:00 PM	2.13	2.5	0.37	0.67	301.0
09/08/2013	12:00:00 AM	2.13	2.5	0.37	0.67	301.0
09/08/2013	1:00:00 AM	2.13	2.5	0.37	0.67	301.0
09/08/2013	2:00:00 AM	2.13	2.5	0.37	0.67	301.0
09/08/2013	3:00:00 AM	2.13	2.5	0.37	0.67	301.0
09/08/2013	4:00:00 AM	2.13	2.5	0.37	0.67	301.0
09/08/2013	5:00:00 AM	2.13	2.5	0.37	0.67	301.0
09/08/2013	6:00:00 AM	2.13	2.5	0.37	0.67	301.0
09/08/2013	7:00:00 AM	2.13	2.5	0.37	0.67	301.0
09/08/2013	8:00:00 AM	2.13	2.5	0.37	0.67	301.0
09/08/2013	9:00:00 AM	2.13	2.5	0.37	0.67	301.0
09/08/2013	10:00:00 AM	2.13	2.5	0.37	0.67	301.0
09/08/2013	11:00:00 AM	2.13	2.5	0.37	0.67	301.0
09/08/2013	12:00:00 PM	2.13	2.5	0.37	0.67	301.0
09/08/2013	1:00:00 PM	2.14	2.5	0.36	0.64	288.6
09/08/2013	2:00:00 PM	2.14	2.5	0.36	0.64	288.6
09/08/2013	3:00:00 PM	2.14	2.5	0.36	0.64	288.6

09/08/2013	4:00:00 PM	2.14	2.5	0.36	0.64	288.6
09/08/2013	5:00:00 PM	2.14	2.5	0.36	0.64	288.6
09/08/2013	6:00:00 PM	2.15	2.5	0.35	0.62	276.4
09/08/2013	7:00:00 PM	2.14	2.5	0.36	0.64	288.6
09/08/2013	8:00:00 PM	2.14	2.5	0.36	0.64	288.6
09/08/2013	9:00:00 PM	2.14	2.5	0.36	0.64	288.6
09/08/2013	10:00:00 PM	2.15	2.5	0.35	0.62	276.4
09/08/2013	11:00:00 PM	2.14	2.5	0.36	0.64	288.6
09/09/2013	12:00:00 AM	2.14	2.5	0.36	0.64	288.6
09/09/2013	1:00:00 AM	2.14	2.5	0.36	0.64	288.6
09/09/2013	2:00:00 AM	2.14	2.5	0.36	0.64	288.6
09/09/2013	3:00:00 AM	2.14	2.5	0.36	0.64	288.6
09/09/2013	4:00:00 AM	2.14	2.5	0.36	0.64	288.6
09/09/2013	5:00:00 AM	2.14	2.5	0.36	0.64	288.6
09/09/2013	6:00:00 AM	2.14	2.5	0.36	0.64	288.6
09/09/2013	7:00:00 AM	2.14	2.5	0.36	0.64	288.6
09/09/2013	8:00:00 AM	2.13	2.5	0.37	0.67	301.0
09/09/2013	9:00:00 AM	2.13	2.5	0.37	0.67	301.0
09/09/2013	10:00:00 AM	2.13	2.5	0.37	0.67	301.0
09/09/2013	11:00:00 AM	2.12	2.5	0.38	0.70	313.5
09/09/2013	12:00:00 PM	2.12	2.5	0.38	0.70	313.5
09/09/2013	1:00:00 PM	2.12	2.5	0.38	0.70	313.5
09/09/2013	2:00:00 PM	2.12	2.5	0.38	0.70	313.5
09/09/2013	3:00:00 PM	2.12	2.5	0.38	0.70	313.5
09/09/2013	4:00:00 PM	2.12	2.5	0.38	0.70	313.5
09/09/2013	5:00:00 PM	2.12	2.5	0.38	0.70	313.5
09/09/2013	6:00:00 PM	2.11	2.5	0.39	0.73	326.2
09/09/2013	7:00:00 PM	2.09	2.5	0.41	0.78	352.2
09/09/2013	8:00:00 PM	2.09	2.5	0.41	0.78	352.2
09/09/2013	9:00:00 PM	2.08	2.5	0.42	0.81	365.4
09/09/2013	10:00:00 PM	2.08	2.5	0.42	0.81	365.4
09/09/2013	11:00:00 PM	2.08	2.5	0.42	0.81	365.4
09/10/2013	12:00:00 AM	2.09	2.5	0.41	0.78	352.2
09/10/2013	1:00:00 AM	2.09	2.5	0.41	0.78	352.2
09/10/2013	2:00:00 AM	2.09	2.5	0.41	0.78	352.2
09/10/2013	3:00:00 AM	2.1	2.5	0.40	0.76	339.1
09/10/2013	4:00:00 AM	2.1	2.5	0.40	0.76	339.1
09/10/2013	5:00:00 AM	2.11	2.5	0.39	0.73	326.2
09/10/2013	6:00:00 AM	2.11	2.5	0.39	0.73	326.2
09/10/2013	7:00:00 AM	2.11	2.5	0.39	0.73	326.2
09/10/2013	8:00:00 AM	2.11	2.5	0.39	0.73	326.2
09/10/2013	9:00:00 AM	2.11	2.5	0.39	0.73	326.2
09/10/2013	10:00:00 AM	2.11	2.5	0.39	0.73	326.2
09/10/2013	11:00:00 AM	2.11	2.5	0.39	0.73	326.2
09/10/2013	12:00:00 PM	2.12	2.5	0.38	0.70	313.5
09/10/2013	1:00:00 PM	2.12	2.5	0.38	0.70	313.5
09/10/2013	2:00:00 PM	2.11	2.5	0.39	0.73	326.2

09/10/2013	3:00:00 PM	2.11	2.5	0.39	0.73	326.2
09/10/2013	4:00:00 PM	2.11	2.5	0.39	0.73	326.2
09/10/2013	5:00:00 PM	2.11	2.5	0.39	0.73	326.2
09/10/2013	6:00:00 PM	2.12	2.5	0.38	0.70	313.5
09/10/2013	7:00:00 PM	2.12	2.5	0.38	0.70	313.5
09/10/2013	8:00:00 PM	2.12	2.5	0.38	0.70	313.5
09/10/2013	9:00:00 PM	2.12	2.5	0.38	0.70	313.5
09/10/2013	10:00:00 PM	2.12	2.5	0.38	0.70	313.5
09/10/2013	11:00:00 PM	2.13	2.5	0.37	0.67	301.0
09/11/2013	12:00:00 AM	2.13	2.5	0.37	0.67	301.0
09/11/2013	1:00:00 AM	2.13	2.5	0.37	0.67	301.0
09/11/2013	2:00:00 AM	2.12	2.5	0.38	0.70	313.5
09/11/2013	3:00:00 AM	2.12	2.5	0.38	0.70	313.5
09/11/2013	4:00:00 AM	2.12	2.5	0.38	0.70	313.5
09/11/2013	5:00:00 AM	2.11	2.5	0.39	0.73	326.2
09/11/2013	6:00:00 AM	2.1	2.5	0.40	0.76	339.1
09/11/2013	7:00:00 AM	2.09	2.5	0.41	0.78	352.2
09/11/2013	8:00:00 AM	2.08	2.5	0.42	0.81	365.4
09/11/2013	9:00:00 AM	2.06	2.5	0.44	0.87	392.4
09/11/2013	10:00:00 AM	2.06	2.5	0.44	0.87	392.4
09/11/2013	11:00:00 AM	2.07	2.5	0.43	0.84	378.8
09/11/2013	12:00:00 PM	2.08	2.5	0.42	0.81	365.4
09/11/2013	1:00:00 PM	2.11	2.5	0.39	0.73	326.2
09/11/2013	2:00:00 PM	2.13	2.5	0.37	0.67	301.0
09/11/2013	3:00:00 PM	2.15	2.5	0.35	0.62	276.4
09/11/2013	4:00:00 PM	2.17	2.5	0.33	0.56	252.6
09/11/2013	5:00:00 PM	2.19	2.5	0.31	0.51	229.6
09/11/2013	6:00:00 PM	2.2	2.5	0.30	0.49	218.4
09/11/2013	7:00:00 PM	2.21	2.5	0.29	0.46	207.3
09/11/2013	8:00:00 PM	2.21	2.5	0.29	0.46	207.3
09/11/2013	9:00:00 PM	2.21	2.5	0.29	0.46	207.3
09/11/2013	10:00:00 PM	2.21	2.5	0.29	0.46	207.3
09/11/2013	11:00:00 PM	2.21	2.5	0.29	0.46	207.3
09/12/2013	12:00:00 AM	2.21	2.5	0.29	0.46	207.3
09/12/2013	1:00:00 AM	2.21	2.5	0.29	0.46	207.3
09/12/2013	2:00:00 AM	2.22	2.5	0.28	0.44	196.5
09/12/2013	3:00:00 AM	2.21	2.5	0.29	0.46	207.3
09/12/2013	4:00:00 AM	2.21	2.5	0.29	0.46	207.3
09/12/2013	5:00:00 AM	2.21	2.5	0.29	0.46	207.3
09/12/2013	6:00:00 AM	2.2	2.5	0.30	0.49	218.4
09/12/2013	7:00:00 AM	2.2	2.5	0.30	0.49	218.4
09/12/2013	8:00:00 AM	2.19	2.5	0.31	0.51	229.6
09/12/2013	9:00:00 AM	2.18	2.5	0.32	0.54	241.0
09/12/2013	10:00:00 AM	2.17	2.5	0.33	0.56	252.6
09/12/2013	11:00:00 AM	2.14	2.5	0.36	0.64	288.6
09/12/2013	12:00:00 PM	2.12	2.5	0.38	0.70	313.5
09/12/2013	1:00:00 PM	2.1	2.5	0.40	0.76	339.1

09/12/2013	2:00:00 PM	2.1	2.5	0.40	0.76	339.1
09/12/2013	3:00:00 PM	2.11	2.5	0.39	0.73	326.2
09/12/2013	4:00:00 PM	2.11	2.5	0.39	0.73	326.2
09/12/2013	5:00:00 PM	2.13	2.5	0.37	0.67	301.0
09/12/2013	6:00:00 PM	2.11	2.5	0.39	0.73	326.2
09/12/2013	7:00:00 PM	2.11	2.5	0.39	0.73	326.2
09/12/2013	8:00:00 PM	2.09	2.5	0.41	0.78	352.2
09/12/2013	9:00:00 PM	2.1	2.5	0.40	0.76	339.1
09/12/2013	10:00:00 PM	2.11	2.5	0.39	0.73	326.2
09/12/2013	11:00:00 PM	2.08	2.5	0.42	0.81	365.4
09/13/2013	12:00:00 AM	2.07	2.5	0.43	0.84	378.8
09/13/2013	1:00:00 AM	2.09	2.5	0.41	0.78	352.2
09/13/2013	2:00:00 AM	2.11	2.5	0.39	0.73	326.2
09/13/2013	3:00:00 AM	2.13	2.5	0.37	0.67	301.0
09/13/2013	4:00:00 AM	2.15	2.5	0.35	0.62	276.4
09/13/2013	5:00:00 AM	2.17	2.5	0.33	0.56	252.6
09/13/2013	6:00:00 AM	2.19	2.5	0.31	0.51	229.6
09/13/2013	7:00:00 AM	2.2	2.5	0.30	0.49	218.4
09/13/2013	8:00:00 AM	2.21	2.5	0.29	0.46	207.3
09/13/2013	9:00:00 AM	2.21	2.5	0.29	0.46	207.3
09/13/2013	10:00:00 AM	2.22	2.5	0.28	0.44	196.5
09/13/2013	11:00:00 AM	2.22	2.5	0.28	0.44	196.5
09/13/2013	12:00:00 PM	2.22	2.5	0.28	0.44	196.5
09/13/2013	1:00:00 PM	2.23	2.5	0.27	0.41	185.9
09/13/2013	2:00:00 PM	2.24	2.5	0.26	0.39	175.4
09/13/2013	3:00:00 PM	2.25	2.5	0.25	0.37	165.2
09/13/2013	4:00:00 PM	2.26	2.5	0.24	0.35	155.2
09/13/2013	5:00:00 PM	2.27	2.5	0.23	0.32	145.4
09/13/2013	6:00:00 PM	2.28	2.5	0.22	0.30	135.9
09/13/2013	7:00:00 PM	2.28	2.5	0.22	0.30	135.9
09/13/2013	8:00:00 PM	2.26	2.5	0.24	0.35	155.2
09/13/2013	9:00:00 PM	2.23	2.5	0.27	0.41	185.9
09/13/2013	10:00:00 PM	2.18	2.5	0.32	0.54	241.0
09/13/2013	11:00:00 PM	2.12	2.5	0.38	0.70	313.5
09/14/2013	12:00:00 AM	2.07	2.5	0.43	0.84	378.8
09/14/2013	1:00:00 AM	2.04	2.5	0.46	0.94	420.0
09/14/2013	2:00:00 AM	2.03	2.5	0.47	0.97	434.0
09/14/2013	3:00:00 AM	2.03	2.5	0.47	0.97	434.0
09/14/2013	4:00:00 AM	2.04	2.5	0.46	0.94	420.0
09/14/2013	5:00:00 AM	2.05	2.5	0.45	0.90	406.1
09/14/2013	6:00:00 AM	2.05	2.5	0.45	0.90	406.1
09/14/2013	7:00:00 AM	2.04	2.5	0.46	0.94	420.0
09/14/2013	8:00:00 AM	2.04	2.5	0.46	0.94	420.0
09/14/2013	9:00:00 AM	2.05	2.5	0.45	0.90	406.1
09/14/2013	10:00:00 AM	2.04	2.5	0.46	0.94	420.0
09/14/2013	11:00:00 AM	2.05	2.5	0.45	0.90	406.1
09/14/2013	12:00:00 PM	2.05	2.5	0.45	0.90	406.1

09/14/2013	1:00:00 PM	2.06	2.5	0.44	0.87	392.4
09/14/2013	2:00:00 PM	2.07	2.5	0.43	0.84	378.8
09/14/2013	3:00:00 PM	1.83	2.5	0.67	1.66	746.6
09/14/2013	4:00:00 PM	1.68	2.5	0.82	2.27	1017.0
09/14/2013	5:00:00 PM	1.53	2.5	0.97	2.93	1315.1
09/14/2013	6:00:00 PM	1.47	2.5	1.03	3.21	1441.6
09/14/2013	7:00:00 PM	1.46	2.5	1.04	3.26	1463.0
09/14/2013	8:00:00 PM	1.44	2.5	1.06	3.36	1506.3
09/14/2013	9:00:00 PM	1.45	2.5	1.05	3.31	1484.6
09/14/2013	10:00:00 PM	1.44	2.5	1.06	3.36	1506.3
09/14/2013	11:00:00 PM	1.44	2.5	1.06	3.36	1506.3
09/15/2013	12:00:00 AM	1.44	2.5	1.06	3.36	1506.3
09/15/2013	1:00:00 AM	1.44	2.5	1.06	3.36	1506.3
09/15/2013	2:00:00 AM	1.44	2.5	1.06	3.36	1506.3
09/15/2013	3:00:00 AM	1.43	2.5	1.07	3.40	1528.1
09/15/2013	4:00:00 AM	1.44	2.5	1.06	3.36	1506.3
09/15/2013	5:00:00 AM	1.43	2.5	1.07	3.40	1528.1
09/15/2013	6:00:00 AM	1.43	2.5	1.07	3.40	1528.1
09/15/2013	7:00:00 AM	1.43	2.5	1.07	3.40	1528.1
09/15/2013	8:00:00 AM	1.43	2.5	1.07	3.40	1528.1
09/15/2013	9:00:00 AM	1.44	2.5	1.06	3.36	1506.3
09/15/2013	10:00:00 AM	1.44	2.5	1.06	3.36	1506.3
09/15/2013	11:00:00 AM	1.45	2.5	1.05	3.31	1484.6
09/15/2013	12:00:00 PM	1.45	2.5	1.05	3.31	1484.6
09/15/2013	1:00:00 PM	1.45	2.5	1.05	3.31	1484.6
09/15/2013	2:00:00 PM	1.45	2.5	1.05	3.31	1484.6
09/15/2013	3:00:00 PM	1.44	2.5	1.06	3.36	1506.3
09/15/2013	4:00:00 PM	1.43	2.5	1.07	3.40	1528.1
09/15/2013	5:00:00 PM	1.44	2.5	1.06	3.36	1506.3
09/15/2013	6:00:00 PM	1.44	2.5	1.06	3.36	1506.3
09/15/2013	7:00:00 PM	1.44	2.5	1.06	3.36	1506.3
09/15/2013	8:00:00 PM	1.44	2.5	1.06	3.36	1506.3
09/15/2013	9:00:00 PM	1.44	2.5	1.06	3.36	1506.3
09/15/2013	10:00:00 PM	1.44	2.5	1.06	3.36	1506.3
09/15/2013	11:00:00 PM	1.44	2.5	1.06	3.36	1506.3
09/16/2013	12:00:00 AM	1.43	2.5	1.07	3.40	1528.1
09/16/2013	1:00:00 AM	1.44	2.5	1.06	3.36	1506.3
09/16/2013	2:00:00 AM	1.44	2.5	1.06	3.36	1506.3
09/16/2013	3:00:00 AM	1.43	2.5	1.07	3.40	1528.1
09/16/2013	4:00:00 AM	1.44	2.5	1.06	3.36	1506.3
09/16/2013	5:00:00 AM	1.43	2.5	1.07	3.40	1528.1
09/16/2013	6:00:00 AM	1.43	2.5	1.07	3.40	1528.1
09/16/2013	7:00:00 AM	1.44	2.5	1.06	3.36	1506.3
09/16/2013	8:00:00 AM	1.43	2.5	1.07	3.40	1528.1
09/16/2013	9:00:00 AM	1.44	2.5	1.06	3.36	1506.3
09/16/2013	10:00:00 AM	1.44	2.5	1.06	3.36	1506.3
09/16/2013	11:00:00 AM	1.45	2.5	1.05	3.31	1484.6

09/16/2013	12:00:00 PM	1.44	2.5	1.06	3.36	1506.3
09/16/2013	1:00:00 PM	1.44	2.5	1.06	3.36	1506.3
09/16/2013	2:00:00 PM	1.44	2.5	1.06	3.36	1506.3
09/16/2013	3:00:00 PM	1.45	2.5	1.05	3.31	1484.6
09/16/2013	4:00:00 PM	1.69	2.5	0.81	2.22	998.1
09/16/2013	5:00:00 PM	1.92	2.5	0.58	1.33	598.7
09/16/2013	6:00:00 PM	2.04	2.5	0.46	0.94	420.0
09/16/2013	7:00:00 PM	2.11	2.5	0.39	0.73	326.2
09/16/2013	8:00:00 PM	2.16	2.5	0.34	0.59	264.5
09/16/2013	9:00:00 PM	2.18	2.5	0.32	0.54	241.0
09/16/2013	10:00:00 PM	2.19	2.5	0.31	0.51	229.6
09/16/2013	11:00:00 PM	2.19	2.5	0.31	0.51	229.6
09/17/2013	12:00:00 AM	2.17	2.5	0.33	0.56	252.6
09/17/2013	1:00:00 AM	2.15	2.5	0.35	0.62	276.4
09/17/2013	2:00:00 AM	2.13	2.5	0.37	0.67	301.0
09/17/2013	3:00:00 AM	2.11	2.5	0.39	0.73	326.2
09/17/2013	4:00:00 AM	2.1	2.5	0.40	0.76	339.1
09/17/2013	5:00:00 AM	2.08	2.5	0.42	0.81	365.4
09/17/2013	6:00:00 AM	2.08	2.5	0.42	0.81	365.4
09/17/2013	7:00:00 AM	2.07	2.5	0.43	0.84	378.8
09/17/2013	8:00:00 AM	2.07	2.5	0.43	0.84	378.8
09/17/2013	9:00:00 AM	2.07	2.5	0.43	0.84	378.8
09/17/2013	10:00:00 AM	2.08	2.5	0.42	0.81	365.4
09/17/2013	11:00:00 AM	2.09	2.5	0.41	0.78	352.2
09/17/2013	12:00:00 PM	2.1	2.5	0.40	0.76	339.1
09/17/2013	1:00:00 PM	2.12	2.5	0.38	0.70	313.5
09/17/2013	2:00:00 PM	2.14	2.5	0.36	0.64	288.6
09/17/2013	3:00:00 PM	2.15	2.5	0.35	0.62	276.4
09/17/2013	4:00:00 PM	2.17	2.5	0.33	0.56	252.6
09/17/2013	5:00:00 PM	2.18	2.5	0.32	0.54	241.0
09/17/2013	6:00:00 PM	2.18	2.5	0.32	0.54	241.0
09/17/2013	7:00:00 PM	2.17	2.5	0.33	0.56	252.6
09/17/2013	8:00:00 PM	2.16	2.5	0.34	0.59	264.5
09/17/2013	9:00:00 PM	2.14	2.5	0.36	0.64	288.6
09/17/2013	10:00:00 PM	2.13	2.5	0.37	0.67	301.0
09/17/2013	11:00:00 PM	2.12	2.5	0.38	0.70	313.5
09/18/2013	12:00:00 AM	2.1	2.5	0.40	0.76	339.1
09/18/2013	1:00:00 AM	2.09	2.5	0.41	0.78	352.2
09/18/2013	2:00:00 AM	2.09	2.5	0.41	0.78	352.2
09/18/2013	3:00:00 AM	2.09	2.5	0.41	0.78	352.2
09/18/2013	4:00:00 AM	2.09	2.5	0.41	0.78	352.2
09/18/2013	5:00:00 AM	2.08	2.5	0.42	0.81	365.4
09/18/2013	6:00:00 AM	2.09	2.5	0.41	0.78	352.2
09/18/2013	7:00:00 AM	2.09	2.5	0.41	0.78	352.2
09/18/2013	8:00:00 AM	2.09	2.5	0.41	0.78	352.2
09/18/2013	9:00:00 AM	2.09	2.5	0.41	0.78	352.2
09/18/2013	10:00:00 AM	Instrument settings changed at this		0.53	1.16	521.6

09/18/2013	11:00:00 AM	point to report water level directly.	0.53	1.16	521.6
09/18/2013	12:00:00 PM		0.52	1.13	506.6
09/18/2013	1:00:00 PM		0.52	1.13	506.6
09/18/2013	2:00:00 PM		0.52	1.13	506.6
09/18/2013	3:00:00 PM		0.51	1.10	491.8
09/18/2013	4:00:00 PM		0.53	1.16	521.6
09/18/2013	5:00:00 PM		0.63	1.51	679.5
09/18/2013	6:00:00 PM		0.66	1.63	729.6
09/18/2013	7:00:00 PM		0.63	1.51	679.5
09/18/2013	8:00:00 PM		0.6	1.41	630.6
09/18/2013	9:00:00 PM		0.58	1.33	598.7
09/18/2013	10:00:00 PM		0.55	1.23	552.0
09/18/2013	11:00:00 PM		0.52	1.13	506.6
09/19/2013	12:00:00 AM		0.5	1.06	477.1
09/19/2013	1:00:00 AM		0.48	1.00	448.2
09/19/2013	2:00:00 AM		0.46	0.94	420.0
09/19/2013	3:00:00 AM		0.44	0.87	392.4
09/19/2013	4:00:00 AM		0.43	0.84	378.8
09/19/2013	5:00:00 AM		0.41	0.78	352.2
09/19/2013	6:00:00 AM		0.4	0.76	339.1
09/19/2013	7:00:00 AM		0.39	0.73	326.2
09/19/2013	8:00:00 AM		0.38	0.70	313.5
09/19/2013	9:00:00 AM		0.36	0.64	288.6
09/19/2013	10:00:00 AM		0.35	0.62	276.4
09/19/2013	11:00:00 AM		0.34	0.59	264.5
09/19/2013	12:00:00 PM		0.33	0.56	252.6
09/19/2013	1:00:00 PM		0.32	0.54	241.0
09/19/2013	2:00:00 PM		0.31	0.51	229.6
09/19/2013	3:00:00 PM		0.3	0.49	218.4
09/19/2013	4:00:00 PM		0.29	0.46	207.3
09/19/2013	5:00:00 PM		0.28	0.44	196.5
09/19/2013	6:00:00 PM		0.28	0.44	196.5
09/19/2013	7:00:00 PM		0.27	0.41	185.9
09/19/2013	8:00:00 PM		0.26	0.39	175.4
09/19/2013	9:00:00 PM		0.26	0.39	175.4
09/19/2013	10:00:00 PM		0.26	0.39	175.4
09/19/2013	11:00:00 PM		0.26	0.39	175.4
09/20/2013	12:00:00 AM		0.26	0.39	175.4
09/20/2013	1:00:00 AM		0.26	0.39	175.4
09/20/2013	2:00:00 AM		0.27	0.41	185.9
09/20/2013	3:00:00 AM		0.27	0.41	185.9
09/20/2013	4:00:00 AM		0.27	0.41	185.9
09/20/2013	5:00:00 AM		0.28	0.44	196.5
09/20/2013	6:00:00 AM		0.28	0.44	196.5
09/20/2013	7:00:00 AM		0.28	0.44	196.5
09/20/2013	8:00:00 AM		0.28	0.44	196.5
09/20/2013	9:00:00 AM		0.28	0.44	196.5

09/20/2013	10:00:00 AM		0.28	0.44	196.5
09/20/2013	11:00:00 AM		0.28	0.44	196.5
09/20/2013	12:00:00 PM		0.27	0.41	185.9
09/20/2013	1:00:00 PM		0.26	0.39	175.4
09/20/2013	2:00:00 PM		0.26	0.39	175.4
09/20/2013	3:00:00 PM		0.25	0.37	165.2
09/20/2013	4:00:00 PM		0.24	0.35	155.2
09/20/2013	5:00:00 PM		0.24	0.35	155.2
09/20/2013	6:00:00 PM		0.23	0.32	145.4
09/20/2013	7:00:00 PM		0.23	0.32	145.4
09/20/2013	8:00:00 PM		0.22	0.30	135.9
09/20/2013	9:00:00 PM		0.22	0.30	135.9
09/20/2013	10:00:00 PM		0.21	0.28	126.5
09/20/2013	11:00:00 PM		0.21	0.28	126.5
09/21/2013	12:00:00 AM		0.2	0.26	117.4
09/21/2013	1:00:00 AM		0.2	0.26	117.4
09/21/2013	2:00:00 AM		0.2	0.26	117.4
09/21/2013	3:00:00 AM		0.2	0.26	117.4
09/21/2013	4:00:00 AM		0.21	0.28	126.5
09/21/2013	5:00:00 AM		0.23	0.32	145.4
09/21/2013	6:00:00 AM		0.27	0.41	185.9
09/21/2013	7:00:00 AM		0.31	0.51	229.6
09/21/2013	8:00:00 AM		0.35	0.62	276.4
09/21/2013	9:00:00 AM		0.38	0.70	313.5
09/21/2013	10:00:00 AM		0.4	0.76	339.1
09/21/2013	11:00:00 AM	Instrument maintainence ======>	---	---	---
09/21/2013	12:00:00 PM		0.4	0.76	339.1
09/21/2013	1:00:00 PM		0.39	0.73	326.2
09/21/2013	2:00:00 PM		0.38	0.70	313.5
09/21/2013	3:00:00 PM		0.36	0.64	288.6
09/21/2013	4:00:00 PM		0.34	0.59	264.5
09/21/2013	5:00:00 PM		0.33	0.56	252.6
09/21/2013	6:00:00 PM		0.31	0.51	229.6
09/21/2013	7:00:00 PM		0.31	0.51	229.6
09/21/2013	8:00:00 PM		0.32	0.54	241.0
09/21/2013	9:00:00 PM		0.35	0.62	276.4
09/21/2013	10:00:00 PM		0.38	0.70	313.5
09/21/2013	11:00:00 PM		0.42	0.81	365.4
09/22/2013	12:00:00 AM		0.45	0.90	406.1
09/22/2013	1:00:00 AM		0.47	0.97	434.0
09/22/2013	2:00:00 AM		0.48	1.00	448.2
09/22/2013	3:00:00 AM		0.49	1.03	462.6
09/22/2013	4:00:00 AM		0.5	1.06	477.1
09/22/2013	5:00:00 AM		0.52	1.13	506.6
09/22/2013	6:00:00 AM		0.55	1.23	552.0
09/22/2013	7:00:00 AM		0.58	1.33	598.7
09/22/2013	8:00:00 AM		0.59	1.37	614.6

09/22/2013	9:00:00 AM	0.58	1.33	598.7
09/22/2013	10:00:00 AM	0.58	1.33	598.7
09/22/2013	11:00:00 AM	0.57	1.30	583.0
09/22/2013	12:00:00 PM	0.56	1.26	567.4
09/22/2013	1:00:00 PM	0.56	1.26	567.4
09/22/2013	2:00:00 PM	0.55	1.23	552.0
09/22/2013	3:00:00 PM	0.55	1.23	552.0
09/22/2013	4:00:00 PM	0.58	1.33	598.7
09/22/2013	5:00:00 PM	0.61	1.44	646.8
09/22/2013	6:00:00 PM	0.67	1.66	746.6
09/22/2013	7:00:00 PM	0.74	1.94	869.2
09/22/2013	8:00:00 PM	0.73	1.90	851.3
09/22/2013	9:00:00 PM	0.72	1.86	833.5
09/22/2013	10:00:00 PM	0.7	1.78	798.3
09/22/2013	11:00:00 PM	0.7	1.78	798.3
09/23/2013	12:00:00 AM	0.7	1.78	798.3
09/23/2013	1:00:00 AM	0.69	1.74	781.0
09/23/2013	2:00:00 AM	0.68	1.70	763.7
09/23/2013	3:00:00 AM	0.67	1.66	746.6
09/23/2013	4:00:00 AM	0.66	1.63	729.6
09/23/2013	5:00:00 AM	0.64	1.55	696.1
09/23/2013	6:00:00 AM	0.63	1.51	679.5
09/23/2013	7:00:00 AM	0.62	1.48	663.1
09/23/2013	8:00:00 AM	0.61	1.44	646.8
09/23/2013	9:00:00 AM	0.59	1.37	614.6
09/23/2013	10:00:00 AM	0.59	1.37	614.6
09/23/2013	11:00:00 AM	0.58	1.33	598.7
09/23/2013	12:00:00 PM	0.56	1.26	567.4
09/23/2013	1:00:00 PM	0.53	1.16	521.6
09/23/2013	2:00:00 PM	0.48	1.00	448.2
09/23/2013	3:00:00 PM	0.45	0.90	406.1
09/23/2013	4:00:00 PM	0.42	0.81	365.4
09/23/2013	5:00:00 PM	0.39	0.73	326.2
09/23/2013	6:00:00 PM	0.37	0.67	301.0
09/23/2013	7:00:00 PM	0.35	0.62	276.4
09/23/2013	8:00:00 PM	0.34	0.59	264.5
09/23/2013	9:00:00 PM	0.32	0.54	241.0
09/23/2013	10:00:00 PM	0.32	0.54	241.0
09/23/2013	11:00:00 PM	0.32	0.54	241.0
09/24/2013	12:00:00 AM	0.33	0.56	252.6
09/24/2013	1:00:00 AM	0.35	0.62	276.4
09/24/2013	2:00:00 AM	0.39	0.73	326.2
09/24/2013	3:00:00 AM	0.42	0.81	365.4
09/24/2013	4:00:00 AM	0.45	0.90	406.1
09/24/2013	5:00:00 AM	0.47	0.97	434.0
09/24/2013	6:00:00 AM	0.49	1.03	462.6
09/24/2013	7:00:00 AM	0.5	1.06	477.1

09/24/2013	8:00:00 AM	0.5	1.06	477.1
09/24/2013	9:00:00 AM	0.52	1.13	506.6
09/24/2013	10:00:00 AM	0.51	1.10	491.8
09/24/2013	11:00:00 AM	0.5	1.06	477.1
09/24/2013	12:00:00 PM	0.48	1.00	448.2
09/24/2013	1:00:00 PM	0.46	0.94	420.0
09/24/2013	2:00:00 PM	0.43	0.84	378.8
09/24/2013	3:00:00 PM	0.4	0.76	339.1
09/24/2013	4:00:00 PM	0.38	0.70	313.5
09/24/2013	5:00:00 PM	0.36	0.64	288.6
09/24/2013	6:00:00 PM	0.34	0.59	264.5
09/24/2013	7:00:00 PM	0.34	0.59	264.5
09/24/2013	8:00:00 PM	0.37	0.67	301.0
09/24/2013	9:00:00 PM	0.42	0.81	365.4
09/24/2013	10:00:00 PM	0.47	0.97	434.0
09/24/2013	11:00:00 PM	0.5	1.06	477.1
09/25/2013	12:00:00 AM	0.52	1.13	506.6
09/25/2013	1:00:00 AM	0.53	1.16	521.6
09/25/2013	2:00:00 AM	0.53	1.16	521.6
09/25/2013	3:00:00 AM	0.53	1.16	521.6
09/25/2013	4:00:00 AM	0.53	1.16	521.6
09/25/2013	5:00:00 AM	0.53	1.16	521.6
09/25/2013	6:00:00 AM	0.53	1.16	521.6
09/25/2013	7:00:00 AM	0.53	1.16	521.6
09/25/2013	8:00:00 AM	0.53	1.16	521.6
09/25/2013	9:00:00 AM	0.52	1.13	506.6
09/25/2013	10:00:00 AM	0.52	1.13	506.6
09/25/2013	11:00:00 AM	0.52	1.13	506.6
09/25/2013	12:00:00 PM	0.52	1.13	506.6
09/25/2013	1:00:00 PM	0.52	1.13	506.6
09/25/2013	2:00:00 PM	0.52	1.13	506.6
09/25/2013	3:00:00 PM	0.52	1.13	506.6
09/25/2013	4:00:00 PM	0.51	1.10	491.8
09/25/2013	5:00:00 PM	0.51	1.10	491.8
09/25/2013	6:00:00 PM	0.5	1.06	477.1
09/25/2013	7:00:00 PM	0.5	1.06	477.1
09/25/2013	8:00:00 PM	0.5	1.06	477.1
09/25/2013	9:00:00 PM	0.5	1.06	477.1
09/25/2013	10:00:00 PM	0.5	1.06	477.1
09/25/2013	11:00:00 PM	0.5	1.06	477.1
09/26/2013	12:00:00 AM	0.51	1.10	491.8
09/26/2013	1:00:00 AM	0.51	1.10	491.8
09/26/2013	2:00:00 AM	0.51	1.10	491.8
09/26/2013	3:00:00 AM	0.51	1.10	491.8
09/26/2013	4:00:00 AM	0.51	1.10	491.8
09/26/2013	5:00:00 AM	0.51	1.10	491.8
09/26/2013	6:00:00 AM	0.51	1.10	491.8

09/26/2013	7:00:00 AM	0.51	1.10	491.8
09/26/2013	8:00:00 AM	0.52	1.13	506.6
09/26/2013	9:00:00 AM	0.52	1.13	506.6
09/26/2013	10:00:00 AM	0.51	1.10	491.8
09/26/2013	11:00:00 AM	0.51	1.10	491.8
09/26/2013	12:00:00 PM	0.51	1.10	491.8
09/26/2013	1:00:00 PM	0.52	1.13	506.6
09/26/2013	2:00:00 PM	0.51	1.10	491.8
09/26/2013	3:00:00 PM	0.51	1.10	491.8
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09/26/2013	5:00:00 PM	0.5	1.06	477.1
09/26/2013	6:00:00 PM	0.5	1.06	477.1
09/26/2013	7:00:00 PM	0.5	1.06	477.1
09/26/2013	8:00:00 PM	0.49	1.03	462.6
09/26/2013	9:00:00 PM	0.5	1.06	477.1
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09/27/2013	11:00:00 AM	0.56	1.26	567.4
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09/29/2013	3:00:00 AM	0.5	1.06	477.1
09/29/2013	4:00:00 AM	0.49	1.03	462.6
09/29/2013	5:00:00 AM	0.48	1.00	448.2
09/29/2013	6:00:00 AM	0.48	1.00	448.2
09/29/2013	7:00:00 AM	0.48	1.00	448.2
09/29/2013	8:00:00 AM	0.48	1.00	448.2
09/29/2013	9:00:00 AM	0.49	1.03	462.6
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09/30/2013	12:00:00 AM	0.49	1.03	462.6
09/30/2013	1:00:00 AM	0.49	1.03	462.6
09/30/2013	2:00:00 AM	0.49	1.03	462.6
09/30/2013	3:00:00 AM	0.49	1.03	462.6
09/30/2013	4:00:00 AM	0.49	1.03	462.6

09/30/2013	5:00:00 AM	0.49	1.03	462.6
09/30/2013	6:00:00 AM	0.5	1.06	477.1
09/30/2013	7:00:00 AM	0.5	1.06	477.1
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09/30/2013	2:00:00 PM	0.5	1.06	477.1
09/30/2013	3:00:00 PM	0.49	1.03	462.6
09/30/2013	4:00:00 PM	0.49	1.03	462.6
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09/30/2013	7:00:00 PM	0.5	1.06	477.1
09/30/2013	8:00:00 PM	0.49	1.03	462.6
09/30/2013	9:00:00 PM	0.49	1.03	462.6
09/30/2013	10:00:00 PM	0.48	1.00	448.2
09/30/2013	11:00:00 PM	0.48	1.00	448.2

Appendix L

Technical Standard Operating Procedure – Collection of Cross-Channel Surface Water Samples

TABLE OF CONTENTS

1.0 PURPOSE ..... Page 2

2.0 SCOPE ..... Page 2

3.0 REQUIREMENTS ..... Page 2

3.1 Health and Safety ..... Page 2

4.0 REFERENCES ..... Page 2

5.0 DEFINITIONS ..... Page 3

6.0 RESPONSIBILITIES ..... Page 3

7.0 EQUIPMENT ..... Page 3

8.0 PROCEDURE ..... Page 3

8.1 General Procedures for Collection of Cross-Channel Water Samples ..... Page 3

8.2 Collection of Independent Samples in each Compartment ..... Page 4

8.3 Collection of a Composite Sample ..... Page 5

8.4 Dividing a Sample to Individual Analyte Bottles ..... Page 6

9.0 DOCUMENTATION/VERIFICATION ..... Page 6

Figure 1 ..... Page 7

1.0 PURPOSE

This standard operating procedure (SOP) describes the requirements and process for collecting surface water samples from multiple locations across the channel of a wadeable stream. Collecting multiple samples along a transect perpendicular to the stream flow will provide information on the homogeneity of water chemistry across the channel (if samples are analyzed independently) or will provide a representative sample of stream water chemistry (if individual samples are composited before analysis). This procedure can be used wherever it is possible to wade completely across the channel. Where the water is too deep for wading, these procedures maybe modified to be used from a stable boat. Samples collected using this method may be analyzed on-site or transported to a laboratory. Proper preservation techniques may vary depending on the target analytes. Site-specific deviations from this SOP must be approved by the AECI Project Manager or the Client Project Manager prior to initiation of the sampling activity.

2.0 SCOPE

Surface water sampling is applicable to most study sites with surface drainages directly on the site or that are located hydraulically downgradient from such drainages.

3.0 REQUIREMENTS

Factors that may affect the ability to collect cross-channel samples include channel width, water depth, water velocity, channel bed stability and composition of the substrata. For successful completion of this procedure, a site must be safely accessible by sampling personnel access to the entire width of the stream channel must be possible. Ultra clean methods shall be followed for sampling activities.

3.1 Health and Safety

Stream substrata, or bed material, can be highly variable, even within a small stream section, and may pose a risk to those working in the stream. Large rocks with significant algal growth can be slick and those pose a fall risk. Rocks and sand can shift when weight is applied to them. Sharp rocks, sticks and artificial debris (broken bottles, metals, barbed wire) can puncture boots and skin. Before wading into a new area of the stream, examine the area visually, if possible, and use one foot to gently probe and stream bottom for suitable footing. If necessary, use a wading staff for stability.

PPE: Waders, nitrile or similar gloves.

Operational or safety issues associated with this procedure shall be reported to the on-site supervisor, AECI Project Manager, SH&E Coordinator, or their designees for resolution. Employees and contractors are required to stop work when they believe work conditions are unsafe.

4.0 REFERENCES

USGS. 1999. *National Field Manual for the Collection of Water-Quality Data, Chapter A4. Collection of Water Samples*.

USEPA. *Water: Monitoring and Assessment*. Chapter 5 Water Quality Conditions. (website)

USEPA. 1999. Rapid *Bioassessment Protocols for use in Wadeable Streams and Rivers*. EPA 841-B-99-002.

USEPA. 1996. *Sampling Ambient Water for Trace Metals at EPA Water Quality Criteria Levels.* EPA Method 1669. Office of Water, Engineering and Analysis Division, Washington, DC.
USGS. 1985. *Study and Interpretation of the Chemical Characteristics of Natural Water*. USGS Water Supply Paper 2254.

5.0 DEFINITIONS

Environmental Sample – Low concentration sample typically collected offsite and not requiring DOT hazardous waste labeling as a high hazard sample.

Clean Hands – All operations involving contact with the sample bottle and transfer of the sample from the sample collection device to the sample bottle are handled by the individual designated as "clean hands."

Dirty Hands – All operations involving preparation of the sampler (except the sample container itself), operation of any machinery and all other activities that do not involve direct contact with the sample, shall be performed by the individual designated as "dirty hands."

6.0 RESPONSIBILITIES

Project Manager

The Project Manager (PM) is responsible for the selection of the appropriate methodology, technique and field procedure for conducting the sampling.

Field Project Leader

The Field Project Leader (FPL) may be an AECI employee or contractor who is responsible for overseeing the sampling activities. The FPL is also responsible for making on-site decisions as to slight shifts in the cross-channel sampling location in order to ensure a safe working environment and that representative samples will be collected. The FPL provides oversight for all work performed and verification that the activity satisfies the requirements of this SOP and the Project Plan.

7.0 EQUIPMENT

1. Sampling bottles (certified clean and pre-treated with preservatives, if necessary)
2. Large (~2 L to 5 gallon) mixing bottles (e.g., a clean cubitainer)
3. Decontamination equipment and supplies
4. Nitrile gloves
5. Shoulder-length gloves
6. Peristaltic sump, clean tubing and 0.45 µm inline filters, or
7. 60 cc syringes and 0.45 µm syringe filters
8. Labels
9. Sharpies® or other indelible markers
10. 100-foot tape measure or rope with accurately-marked intervals
11. ≥ 3 foot rebar or wooden stakes
12. Orange plastic flagging
13. Hammer

8.0 PROCEDURE

8.1 General Procedures for Collection of Cross-Channel Water Samples

- Determine whether the multiple samples collected across the channel will be composited into a single sample, or analyzed independently. If the latter, then sufficient volume must be collected at each site for all analyses.
- Acquire the necessary number and type of sample containers for all samples. A "sample" (composite or multiple individual samples) will consist of five (5) bottles, including two 250-mL acidified (to ≤ 2 pH with nitric acid) high density polyethylene (HDPE) bottles (one non-filtered for total metals and hardness analysis, and one filtered (0.45 µm) for dissolved metals analysis), one 250-mL HPDE bottle with NaOH (for cyanide analysis), one 250-mL HDPE bottle (unpreserved) for salinity, and one 500-mL HDPE bottle (unpreserved) for the remaining inorganic analyses.
- Upon arrival at the site, one member of the sampling shall be designated as "dirty hands" and a second member shall be designated as "clean hands."
- The cross-channel samples shall follow the general USGS procedure of equal-width-increment (EWI) sampling. Each stream section to be sampled will be of approximately equal width.
- If samples are to be collected at multiple transects, begin work at the furthest downstream location.
- Select the sampling transect location. One person shall stand at the edge of one bank of the stream holding the tape or rope and a second person shall carry the end of the tape or rope across the stream. As much as possible, minimize disturbance of the stream bottom and limit the area of travel to a narrow corridor. Samples shall always be collected upstream of the disturbed area.
- With the tape or rope as taut as possible, secure the tape/rope to stakes on each bank.
- Determine the number of sampling compartments (sections). See Figure 1 of this SOP and follow this general guidance:
    - Small stream (≤25 ft in width): 4-6 compartments
    - Intermediate stream (>25 – 50 ft in width): 6-12 compartments
    - Large stream (>50 ft in width): ≥ 12 compartments
- Stream features should also be used in determining the number of compartments. IT may be appropriate to place different features (pools, runs, ripples, eddies) into separate compartments. A seemingly homogenous reach (e.g., a consistent run) will probably require fewer compartments.
- Using the hammer, drive a stake into the stream bed marking the center of the compartment. Tie an orange flag at the top of each stake to make them more visible.

8.2 Collection of Independent Samples in each Compartment

- One of the unpreserved sample bottles may be used to collect water from the stream at each staked location, or a separate container may be used. As 1500 mL are needed for all analyses, a 2 L collection bottle would be adequate for collecting the individual compartment samples (new bottle for each compartment).
- Don clean gloves. Nitrile gloves are acceptable, however, for deeper water wear clean, shoulder-length gloves.
- Approach the location from the downstream side. Once in position, wait approximately 30 seconds (or longer if needed) for any disturbed fine sediment to be carried downstream.

- At the midpoint of the compartment, where the stake is located, rinse the bottle three times with stream water. Just upstream of the stake, place the sampling bottle into the water, gently lowering it through the water column. The mouth of the bottle should be facing generally upstream, but the bottle should be angled upward at ~20-45° to allow air to escape as the bottle fills. Do not touch the bottom of the stream, as that may disturb sediment. Raise the bottle slowly back up through the water column. The bottle should be full when it is lifted from the water.
- Securely replace the bottle cap and hand the filled bottle to another staff member (or place it on a rock or other location where it will not be carried downstream). Each bottle should be appropriately marked with the correct compartment number.
- Go to the next compartment, again approaching from the downstream side, and repeat the collection process.
- Divide the sample into the appropriate preserved and unpreserved bottles (see Section 8.4 of this SOP).

8.3 Collection of a Composite Sample

- Before collecting samples for analysis, determine in which compartment a sample bottle will fill the fastest when lowered and raised through the water column (e.g., 1 minute, 30 seconds, etc.). This will be the Transit time. Use this same Transit time at all compartments, even if a bottle is not completely filled when brought back to the surface.
- As 1500 mL are needed for all analyses, a 1 L collection bottle should be adequate for collecting the individual compartment samples, which will be mixed as a composite sample before being subdivided for analyses. Use a new bottle for each compartment.
- Don clean gloves. Nitrile gloves are acceptable, however, for deeper water wear clean, shoulder-length gloves.
- Approach the location from the downstream side. Once in position, wait approximately 30 seconds (or longer if needed) for any disturbed fine sediment to be carried downstream.
- At the midpoint of the compartment, where the stake is located, rinse the bottle three times with stream water. Just upstream of the stake, gently lower and raise the sampling bottle into the water within the pre-determined Transit time. The mouth of the bottle should be facing generally upstream, but the bottle should be angled upward at ~20-45° to allow air to escape as the bottle fills. Do not touch the bottom of the stream, as that may disturb sediment. The bottle may not be completely full when it is lifted from the water.
- Securely replace the bottle cap and hand the filled bottle to another staff member (or place it on a rock or other location where it will not be carried downstream). Each bottle should be appropriately marked with the correct compartment number.
- Go to the next compartment, again approaching from the downstream side, and repeat the collection process.

- When all compartment samples have been collected, mix each by vigorously inverting them no less than three times, and immediately emptying them into the large mixing bottle. Make sure the mixing bottle is large enough to contain the water collected.
- Cap the mixing bottle and homogenize the composite sample by vigorously and repeatedly swirling and inverting the bottle for no less than one minute.
- Divide the sample into the appropriate preserved and unpreserved bottles (see Section 8.4 of this SOP). Some sample may remain in the mixing bottle.

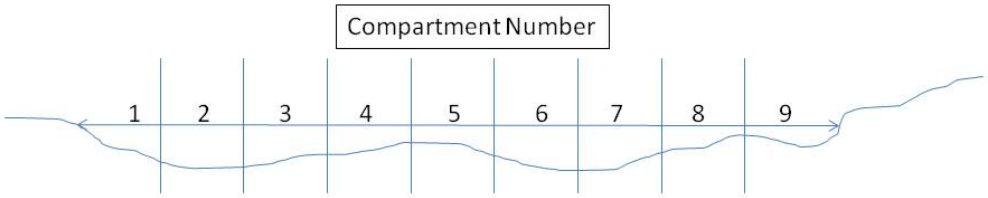
8.4 Dividing a Sample to Individual Analyte Bottles

- Fill all containers, <u>except</u> the one for dissolved metals, with the raw water sample, either the individual compartment samples, or the composite.
- <u>Do not</u> overfill the bottles that already contain preservative.
- For the dissolved metals sample, filter 250 mL of the raw water sample using a 1) peristaltic pump equipped with new, disposable tubing and a new, 0.45 µm filter, or 2) new, 60 cc syringe and 0.45 µm filter syringes.
- If using a pump, tubing and filter, place the intake tube into the raw sample and the outlet tube into the 250 mL sample bottle with preservative. Activate the pump and filter enough water to fill the sample bottle, without overfilling.
- If using a syringe and syringe filters, draw approximately 60 cc of the raw water sample into the syringe <u>before</u> the filter is attached. Attach the filter and depress the plunger while holding the syringe filter outlet over the preserved sample bottle. It may be necessary to stop and replace the filter if the raw water contains a high level of solids.
- Make sure all sample bottles are securely capped and labeled.

9.0 DOCUMENTATION/VERIFICATION

A record of field activities, including the number and type of samples collected, shall be recorded on field data sheets or in a field log. The log shall be reviewed by the FPL to verify the accuracy of the data.

Figure 1. Example of the general placement of the cross-channel sampling compartments for the equal-width-increment (EWI) sampling procedure.



Appendix M

EPA Guidelines on Surface Flow Measurement

United States Environmental Protection Agency

Water: Monitoring & Assessment

You are here: Water » Our Waters » Rivers & Streams » Monitoring & Assessment » 5.1 Stream Flow

5.1 Stream Flow

What is stream flow and why is it important?

Stream flow, or discharge, is the volume of water that moves over a designated point over a fixed period of time. It is often expressed as cubic feet per second (ft^3/sec).

The flow of a stream is directly related to the amount of water moving off the watershed into the stream channel. It is affected by weather, increasing during rainstorms and decreasing during dry periods. It also changes during different seasons of the year, decreasing during the summer months when evaporation rates are high and shoreline vegetation is actively growing and removing water from the ground. August and September are usually the months of lowest flow for most streams and rivers in most of the country.

Water withdrawals for irrigation purposes can seriously deplete water flow, as can industrial water withdrawals. Dams used for electric power generation, particularly facilities designed to produce power during periods of peak need, often block the flow of a stream and later release it in a surge.

Flow is a function of water volume and velocity. It is important because of its impact on water quality and on the living organisms and habitats in the stream. Large, swiftly flowing rivers can receive pollution discharges and be little affected, whereas small streams have less capacity to dilute and degrade wastes.

Stream velocity, which increases as the volume of the water in the stream increases, determines the kinds of organisms that can live in the stream (some need fast-flowing areas; others need quiet pools). It also affects the amount of silt and sediment carried by the stream. Sediment introduced to quiet, slow-flowing streams will settle quickly to the stream bottom. Fast moving streams will keep sediment suspended longer in the water column. Lastly, fast-moving streams generally have higher levels of dissolved oxygen than slow streams because they are better aerated.

This section describes one method for estimating flow in a specific area or reach of a stream. It is adapted from techniques used by several volunteer monitoring programs and uses a float (an object such as an orange, ping-pong ball, pine cone, etc.) to measure stream velocity. Calculating flow involves solving an equation that examines the relationship among several variables including stream cross-sectional area, stream length, and water velocity. One way to measure flow is to solve the following equation:

$$Flow = ALC / T$$

Where:

A =Average cross-sectional area of the stream (stream width multiplied by average water depth).

L =Length of the stream reach measured (usually 20 ft.)

C=A coefficient or correction factor (0.8 for rocky-bottom streams or 0.9 for muddy-bottom streams). This allows you to correct for the fact that water at the surface travels faster than near the stream bottom due to resistance from gravel, cobble, etc. Multiplying the surface velocity by a correction coefficient decreases the value and gives a better measure of the stream's overall velocity.

T =Time, in seconds, for the float to travel the length of L

How to Measure and Calculate Stream Flow

Task 1 Prepare before leaving for the sampling site

Refer to section 2.3 - Safety Considerations for details on confirming sampling date and time, safety considerations, checking supplies, and checking weather and directions. In addition to the standard sampling equipment and apparel, when measuring and calculating flow, include the following equipment:

- Ball of heavy-duty string, four stakes, and a hammer to drive the stakes into the ground. The string will be stretched across the width of the stream perpendicular to shore at two locations. The stakes are to anchor the string on each bank to form a transect line.
- Tape measure (at least 20 feet)
- Waterproof yardstick or other implement to measure water depth
- Twist ties (to mark off intervals on the string of the transect line)
- An orange and a fishing net (to scoop the orange out of the stream)
- Stopwatch (or watch with a second hand)
- Calculator (optional)

Task 2 Select a stretch of stream

The stream stretch chosen for the measurement of discharge should be straight (no bends), at least 6 inches deep, and should not contain an area of slow water such as a pool. Unobstructed riffles or runs are ideal. The length that you select will be equal to *L* in solving the flow equation. Twenty feet is a standard length used by many programs. Measure your length and mark the upper and lower end by running a transect line across the stream perpendicular to the shore using the string and stakes (Fig. 5.4). The string should be taut and near the water surface. The upstream transect is Transect #1 and the downstream one is Transect #2.

Task 3 Calculate the average cross-sectional area

Cross-sectional area (A in the formula) is the product of stream width multiplied by average water depth. To calculate the average cross-sectional area for the study stream reach, volunteers should determine the cross-sectional area for each transect, add the results together, and then divide by 2 to determine the average cross-sectional area for the stream reach.

To measure cross-sectional area:

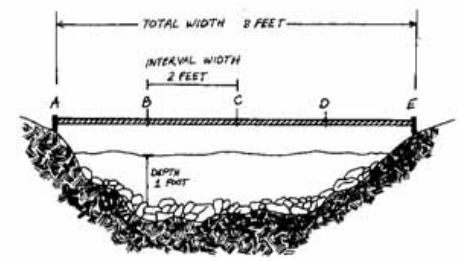


Figure 5.5

A cross section view to measure stream width and depth

2. Determine the average depth along the transect by marking off equal intervals along the string with the twist ties. The intervals can be one-fourth, one-half, and three-fourths of the distance across the stream. Measure the water's depth at each interval point (Fig. 5.5). To calculate average depth for each transect, divide the total of the three depth measurements by 4. (You divide by 4 instead of 3 because you need to account for the 0 depths that occur at the shores.) In the example shown in Figure 5.6, the average depth of Transect #1 is 0.575 feet and the average depth of Transect #2 is 0.625 feet.
3. Determine the width of each transect by measuring the distance from shoreline to shoreline. Simply add together all the interval widths for each transect to determine its width. In the Figure 5.6 example, the width of Transect #1 is 8 feet and the width of Transect #2 is 10 feet.
4. Calculate the cross-sectional area of each transect by multiplying width times average depth. The example given in Figure 5.6 shows that the average cross-sectional area of Transect #1 is 4.60 square feet and the average cross-sectional area of Transect #2 is 6.25 square feet.
5. To determine the average cross-sectional area of the entire stream reach (A in the formula), add together the average cross-sectional area of each transect and then divide by 2. The average cross-sectional area for the stream reach in Figure 5.6 is 5.42 square feet.

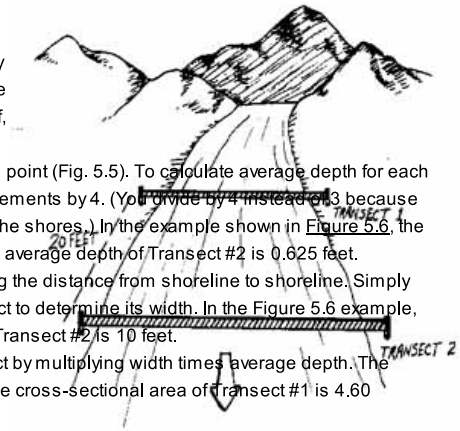


Figure 5.4

A diagram of a 20-foot transect

Task 4 Measure travel time

Volunteers should time with a stopwatch how long it takes for an orange (or some other object) to float from the upstream to the downstream transect. An orange is a good object to use because it has enough buoyancy to float just below the water surface. It is at this position that maximum velocity typically occurs.

The volunteer who lets the orange go at the upstream transect should position it so it flows into the fastest current. The clock stops when the orange passes fully under the downstream transect line. Once under the transect line, the orange can be scooped out of the water with the fishing net. This "time of travel" measurement should be conducted at least three times and the results averaged--the more trials you do, the more accurate your results will be. The averaged results are equal to *T* in the formula. It is a good idea to float the orange at different distances from the bank to get various velocity estimates. You should discard any float trials if the object gets hung up in the stream (by cobbles, roots, debris, etc.)

Task 5 Calculate flow

Recall that flow can be calculated using the equation:

$$\text{Flow} = ALC / T$$

Continuing the example in Fig. 5.6. say the average time of travel for the orange between Transect #1 and #2 is 15 seconds and the stream had a rocky bottom. The calculation of flow would be:

Where:

A	=	5.42 ft2
L	=	20 ft
C	=	0.8 (coefficient for a rocky-bottom stream)
T	=	15 seconds

$$\text{Flow} = 15 \text{ seconds } (5.42 \text{ ft}^2)\ (20 \text{ ft})\ (0.8) / 15 \text{ sec.}$$
$$\text{Flow} = 86.72 \text{ ft}^3 / 15 \text{ sec.}$$
$$\text{Flow} = 5.78 \text{ ft3/sec.}$$

Task 6 Record flow on the data form

On the following page is a form volunteers can use to calculate flow of a stream.

References

Adopt-A-Stream Foundation. *Field Guide: Watershed Inventory and Stream Monitoring Methods,* by Tom Murdoch and Martha Cheo. 1996. Everett, WA.

Mitchell, M.K., and W. Stapp. *Field Manual for Water Quality Monitoring.* 5th Edition. Thompson Shore Printers.

Missouri Stream Teams. *Volunteer Water Quality Monitoring.* Missouri Department of Natural Resources, P.O. Box 176, Jefferson City, MO 65102.

Data Form for Calculating Flow (PDF, 82.8 KB)

You will need Adobe Acrobat Reader to view the Adobe PDF files on this page. See EPA's PDF page for more information about getting and using the free Acrobat Reader.

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