1290070

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

Prepared for:
Atlantic Richfield Company
4 Centerpointe Drive
La Palma, CA 90623

Prepared by:

ANDERSON
ENGINEERING COMPANY INC.

977 West 2100 South
Salt Lake City, UT 84119
(801) 972-6222

September 2012

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 Descriptions 4
2.4 Simultaneous Operations 5
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 St. Louis Ponds Sampling Locations
Figure 1a Sampling Locations South of Rico
Figure 2 Locations of Monitoring Wells
Figure 3 Dolores River Cross Section at Sampling Station DR-1
Figure 4 Pond 8 Embankment Cross Section at Sampling Station DR-5
Figure 5 Dolores River Cross Section at Sampling Station DR-2
Figure 6 Dolores River Cross Section at Sampling Station DR-7
Figure 7 Dolores River Cross Section at Sampling Station DR-4-SW
Figure 8 Dolores River Cross Section at Sampling Station DR-G

List of Tables

Table 1 Sampling Location Summary
Table 2 Analytical Procedures Summary
Table 3A Sampling Field Data and Station Information Summary, September 2012
Table 3B DR-1 Cross-Section Transect Sampling Field Data and Flow Information Summary, September 2012
Table 3C DR-2 Cross-Section Transect Sampling Field Data and Flow Information Summary, September 2012
Table 3D DR-7 Cross-Section Transect Sampling Field Data and Flow Information Summary, September 2012
Table 3E DR-4-SW Cross-Section Transect Sampling Field Data and Flow Information Summary, September 2012
Table 4A Surface Water Sampling Analytical Sampling Results Summary
Table 4B Groundwater Sampling Analytical Sampling Results Summary
Table 4C Dolores River Transect Sampling Analytical Results Summary
Table 5 Duplicate of DR-3, Relative Percent Difference (RPD)

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 South Flume OTT Orpheus Mini Data with Flowrates
Appendix K Technical Standard Operating Procedure – SOP for Collection of Cross Channel Water Samples

Rico, Colorado
Surface Water Sampling Report
September 2012 Sampling Event

1.0 Introduction

In accordance with the Rico Sampling and Analysis Plan for Supplemental Surface Water Quality Monitoring at Rico, CO prepared by AECOM, dated November 2010, the surface water sampling event was completed on September 10th – 14th, 2012. 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 water 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. Figure 1 and Figure 1a (see Appendix A) illustrate the location of the various surface water sampling stations along the Dolores River and in the St. Louis pond system. Figure 2 in Appendix A illustrates the locations of the twenty monitoring wells sampled monthly. 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 2012. Sampling will be performed on a monthly basis until at least December of 2012.

2.2 Water Quality and Flow Measurement Sampling Locations

Surface water samples were collected from the locations described on Table 1 and shown on Figure 1 and Figure 1a 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. Additionally, eight (8) historic groundwater wells are sampled every month. Figure 2 in Appendix A illustrates the locations of all groundwater wells sampled monthly, and they are described in Table 1.

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 Summary

SITE ID	SITE DESCRIPTION
DR-4-SW	Dolores River below Silver Swan
DR-1	Dolores River above St. Louis settling pond system

DR-2	Dolores River immediately above the St. Louis settling pond system outfall
DR-3	St. Louis tunnel discharge at adit
DR-4	Discharge of Pond 15
DR-5	Discharge of Pond 8
DR-6	St. Louis settling pond system outfall to the Dolores River
DR-7	Dolores River below St. Louis settling pond system outfall
DR-G	Dolores River at USGS gaging station #09165000
GW-1	Located on the north end of the site, approximately a quarter mile north of the northern edge of Pond 18.
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

2.3 Sampling Station Descriptions

The sampling requirements and stations are described in detail below, as well as the conditions at each station for this sampling period:

DR-1. Dolores River above St. Louis settling ponds system. The sampling/flow measurement location is on the Dolores River approximately 50 feet upstream of the Rico Ranger Station. Flow measurement was collected by flowmeter.

DR-2. Dolores River immediately above the St. Louis settling pond system outfall. Sampling/flow measurement location is on the Dolores just above the 002 discharge outfall, and upstream of the hot tub discharge. The site is located directly adjacent to the thermal discharge which supplies the hot tub. Flow measurement was collected by flowmeter.

DR-3. St. Louis tunnel discharge at adit entrance. Sampling location is at the inlet of the flume, just before the throat. Flow measurement by an installed 9" flume and water level measurement devices at the sampling location.

DR-4. Discharge of Pond 15. Flow measurement was collected by flowmeter.

DR-5. Discharge of Pond 8. Due to the shallow water and multiple paths, accurate flow measurements could not be determined for this sampling location and period. Leakage was estimated by water balance. Flows estimated by water balance and water level reading.

DR-6. St. Louis settling ponds system outfall to the Dolores River (Outfall 002). Flow measurement by installed 9" 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 from a large bend in the river that first brings the Dolores adjacent to the entrance road. Flow measurements were collected by flowmeter.

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. Flow measurements were collected by flowmeter.

DR-G. Located at the USGS gauging station #09165000. 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. Depth measurements were also taken at this time. For the September 2012 sampling period, MW-2 Shallow and MW-3 Shallow was dry.

2.4 Simultaneous Operations

During the month of September 2012, several other projects were occurring simultaneously at the St. Louis Ponds site.

- Dredging of accumulated solids material from Pond 15 continued through the duration of the sampling. A floating suction dredge pumped water from Pond 15 into Pond 13 in order to settle out solids. After solids had settled out, the decant water was then pumped back into Pond 14. Adequate pond system retention time had been maintained and dredging

should not have had any noticeable effects on the quality of the water samples collected. However, flow from Pond 15 to 14 was partially dammed in order to perform the dredging. As a result, there was insufficient flow exiting the Pond to obtain flow readings.

- Construction of the pilot scale wetland test was occurring during the sampling period. This construction should have had little to no effect on the water quality in the Ponds.
- The 517 Injection test was underway during the sampling period. Alkaline solution of potassium carbonate was being injected into the 517 shaft. Due to this project, the water quality at the St. Louis adit discharge (DR-3) and other pond system sample may have been affected.

3.0 Sampling and Analysis Parameters and Methods

All samples were collected as grab samples. The transect samples were collected as grab samples from the each compartment on the river cross section. Samples were collected from well-mixed locations, which are representative of conditions within the flow stream or compartment. 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 and one field blank were included with the water samples being submitted to the laboratory for analysis.

Lab-certified plastic bottles were used to collect all water samples. Sample water was first collected in clean plastic jugs, and within 10 minutes, placed in the sampling bottles. 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 results were logged in the field log book. Results of field measurements for all samples collected on site can be found in Appendix B. Weather parameters including temperature and precipitation were obtained and documented in the Daily Toolbox Meeting Record.

During the September 2012 water sampling event, discrete transect samples were collected at Dolores River cross sections DR-1, DR-2, DR-7, and DR-4-SW. The sample was collected in accordance with the procedures outlined in Section 8.2 of the Collection of Cross-Channel Surface Water Samples SOP, found in Appendix K. Each cross section was divided up into several compartments as determined by on-site sampling technicians. Field parameters and flowrates were collected at each compartment. An individual sample was also collected at each compartment per protocols identified in the Sampling and Analysis Plan (SAP). A summary of the field parameters and flowrates for the transect samples can be found in Tables 3B, 3C, 3D, and 3E of Appendix B.

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 Table 4A, Table 4B, and Table 4C in Appendix B of this report.

TABLE 2 - Analytical Procedures Summary

PARAMETER	DETECTION LIMIT (MDL)	METHOD
FIELD PARAMETERS		
Dissolved Oxygen (ppm)	+/- 2% Full Scale	SM 4500-OG
Electrical Conductivity (mS/cm)	+/- 2% full scale	EPA 120.1
Temperature (°C)	+/- 1° C	Standard Method 2550
ORP (Oxidation Reduction Potential, mV)	+/- 1.0 mV	Ag/AgCl Probe
pH (Standard pH Units)	+/- 0.01 pH	EPA 150.2
NON-METALS		
Alkalinity (mg/L as $CaCO_3$)	RL – 20 mg/L	SM 2320B
Chloride (mg/L)	RL – 1.0 mg/L	EPA 300.0
Cyanide (μg/L as CN)	RL – 0.005 mg/L	SM 4500-CN-E
Hardness (mg/L as $CaCO_3$)	RL – 0.5 mg/L	SM 2340B
Nitrate (mg/L)	RL – 0.25 mg/L	EPA 353.2
Salinity (mg/L as dissolved solids)	RL – 6 mg/L	SM 2510B (calculated)
Silica	0.1 mg/L	EPA 200.8
Sulfate (mg/L as SO4)	RL – 1 mg/L	EPA 300.0
Sulfides (mg/L)	0.05 mg/L	4500-S-2 D
Total Dissolved Solids (mg/L as TDS)	RL – 5.0 mg/L	SM 2540C
Total Organic Carbon (mg/L)	0.5 mg/L	SM 5310C
Total Suspended Solids (mg/L as TSS)	RL – 5.0 mg/L	SM 2540D
TOTAL, DISSOLVED, AND POTENTIALLY DISSOLVED METALS		
Aluminum (μg/L as Al)	2 μg/L	EPA 200.8
Antimony (μg/L as Sb)	0.07 μg/L	EPA 200.8
Arsenic (μg/L as As)	0.09 μg/L	EPA 200.8
Barium (μg/L as Ba)	0.08 μg/L	EPA 200.8
Beryllium (μg/L as Be)	0.02 μg/L	EPA 200.8
Cadmium (μg/L as Cd)	0.03 μg/L	EPA 200.8
Calcium (μg/L as Ca)	10 μg/L	EPA 200.8
Chromium (ug/l as Cr)	0.10 ug/L	EPA 200.8
Cobalt (ug/l as Co)	0.25 ug/L	EPA 200.8
Copper (μg/L as Cu)	0.07 μg/L	EPA 200.8
Iron (μg/L as Fe)	4.67 μg/L	EPA 200.8
Lead (μg/L as Pb)	0.05 μg/L	EPA 200.8
Magnesium (μg/L as Mg)	2.5 μg/L	EPA 200.8
Manganese (μg/L as Mn)	0.17 μg/L	EPA 200.8
Mercury (μg/L as Hg)	0.049 μg/L	EPA 245.1
Molybdenum (μg/L as Mo)	0.12 ug/L	EPA 200.8
Nickel (μg/L as Ni)	0.07 μg/L	EPA 200.8
Potassium (μg/L as K)	10 μg/L	EPA 200.8
Selenium (ug/l as Se)	0.22 ug/L	EPA 200.8
Silver (ug/L as Ag)	0.25 ug/L	EPA 200.8
Sodium (μg/L as Na)	25 μg/L	EPA 200.8
Thallium (μg/L as Tl)	0.05 ug/L	EPA 200.8
Vanadium (μg/L as V)	0.05 ug/L	EPA 200.8
Zinc (μg/L as Zn)	2.5 μg/L	EPA 200.8

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. Flowrates were measured for sampling locations DR-1, DR-2, DR-3, DR-6, DR-7, DR-4-SW, and DR-G. Refer to Figures 3 through 8 in Appendix E for Dolores River cross sections. The flowrates are presented on Table 3 in Appendix B.

Flow velocity measurements collected during this sampling event were taken by use of a Global Water Flow Probe FP211 portable flow meter at stations DR-1, DR-2, 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 vertical section using the Global Water Flow Probe FP211. The flow meter was set to the 3 second fixed period average mode. A minimum of three velocity readings were recorded at each vertical section. Flows were calculated for each stream section using the water depth, horizontal distance, and averaged velocity data.

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 and the OTT Orpheus Mini for the month of September, 2012 is given in Appendix I and Appendix J, respectively.

During the month of September 2012, the data at DR-6 (south flume) experienced several unusual fluctuations and was not consistent. This was primary due to the beaver activity at the south flume. Beaver dams were partially

constructed during the evening hours on several days and temporarily elevated the water level in the flume. This produced inaccurate results. Daily flume inspections continued throughout the month to ensure the flume stays clear and the data accurate.

5.0 Analytical Results

The results of the laboratory analysis are summarized on Table 4A and Table 4B in Appendix B. The data is organized by sample location. Additionally, table 4C includes the results from the discrete transect samples collected at locations DR-1, DR-2, DR-7, and DR-4-SW. The Pace lab reports for these results are contained in Appendix C.

6.0 Quality Control

In addition to the standard laboratory Quality Control (QC), field QC samples for this sampling event included a field duplicate and a Field Blank (FB).

6.1 Field QC

A field duplicate water sample was collected from sample location DR-3. During sample collection, the duplicate sample bottles were filled simultaneously from the discharge stream of water. The duplicate sample was submitted to the analytical laboratory with the label of DR-8, so as to serve as a "blind duplicate."

Table 5 compares the analytical results for total metals portion from DR-3 and DR-8 and presents the Relative Percent Difference (RPD). The RPD for aqueous samples should be +/- 20%. All comparative values were within +/-20% with the exception of calcium, lead, nickel, hardness, and TSS.

TABLE 5 – Relative Percent Difference (RPD) of Total Metals Portion Between DR-3 and Duplicate Sample DR-8

Analyte (Total)	DR-3 (µg/L)	DR-8 (µg/L) Duplicate of DR-3	RPD (%)
Aluminum	311	280	-10.49
Antimony	<0.50	<0.50	-
Arsenic	<0.50	<0.50	-
Barium	21.3	21.5	0.93
Beryllium	0.56	0.56	0.00
Cadmium	21.8	22.0	0.91
Calcium	246000	184000	-28.84
Chromium	<0.50	<0.50	-
Cobalt	3.1	3.2	3.17
Copper	41.7	39.1	-6.44
Iron	3670	3590	-2.20
Lead	5.9	4.8	-20.56
Magnesium	18600	18600	0.00
Manganese	2110	2080	-1.43
Mercury	<0.20	<0.20	-
Molybdenum	14.0	12.9	-8.18
Nickel	5.3	9.7	58.67
Potassium	1620	1550	-4.42

Selenium	<0.50	<0.50	-
Silver	<0.50	<0.50	-
Sodium	10500	9860	-6.29
Thallium	<0.10	<0.10	-
Vanadium	0.21	0.18	-15.38
Zinc	4340	4040	-7.16
Alkalinity (mg/L)	88.3	90.1	2.02
Chloride (mg/L)	<1.0	<1.0	-
Cyanide	<0.0050	<0.0050	-
Hardness	690000	537000	-24.94
Nitrate (mg/L)	<0.10	<0.10	-
Salinity (mg/L)	756	761	0.66
Silica	17900	18300	2.21
Sulfate (mg/L)	589	595	1.01
Sulfide (mg/L)	<0.050	<0.050	-
TDS (mg/L)	1010	1010	0.00
TOC (mg/L)	<1.0	<1.0	-
TSS (mg/L)	5.0	8.0	46.15

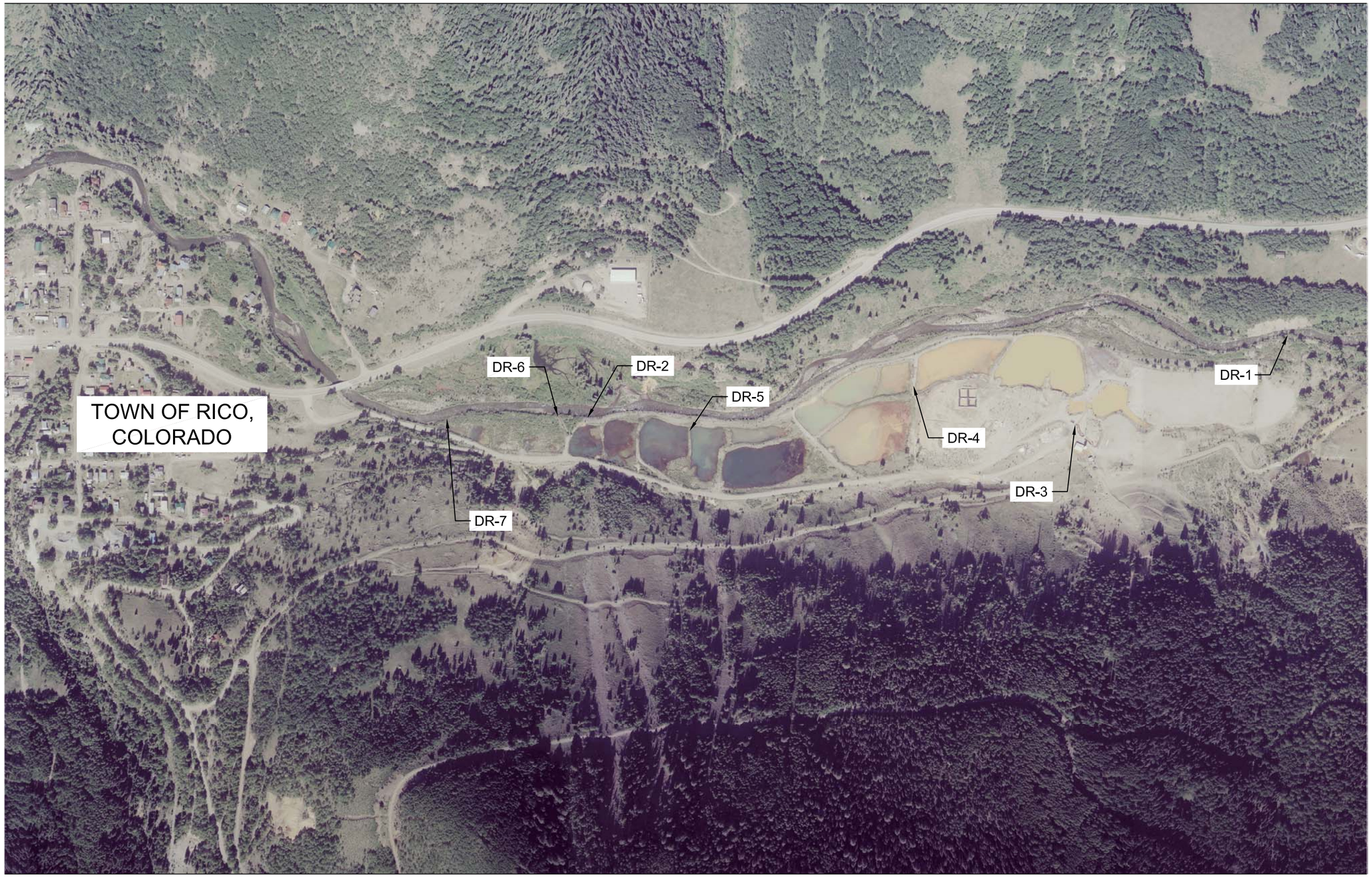
A Field Blank (FB) was collected by analyzing a bottle of distilled water in the field in the same manner as any other sample. The FB was analyzed for the same constituents as the other samples. The FB had concentrations below the reporting limit for all metals except for a small number of total, dissolved, and potentially dissolved metals. The pH was slightly above neutral, the Electrical Conductivity (EC) was very low, it showed a non-detectable level of alkalinity, and a non-detectable level of TDS.

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



01 **ST LOUIS PONDS SAMPLING LOCAITONS**

SCALE - 1" = 500'

THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF ANDERSON ENGINEERING COMPANY, INC., 977 WEST 2100 SOUTH, SALT LAKE CITY, UTAH, 84119 AND SHALL NOT BE COPIED, REDUCED, OR REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.

General Notes

SCALE IN FEET
0 250 500

No.	Revision/Issue	Date

BP / ARCO

ANDERSON
ENGINEERING COMPANY, INC.
977 WEST 2100 SOUTH
SALT LAKE CITY, UTAH 84119
(801) 972-6222

RICO SURFACE WATER SAMOPLING

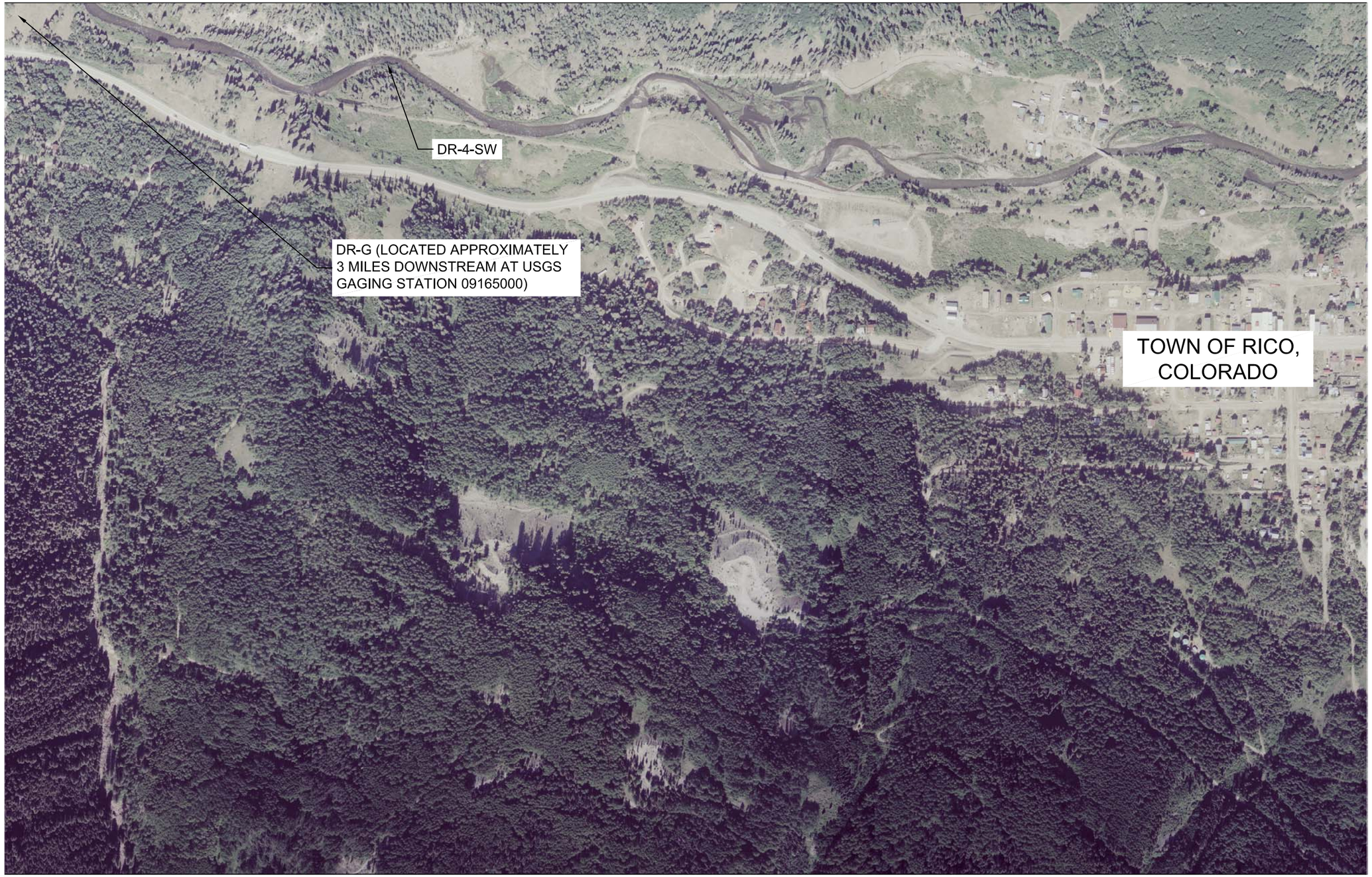
ST. LOIUS PONDS AREA SAMPLING LOCATIONS

RICO, COLORADO

DRAWN BY:	MAD
ENGINEER:	MAD
APPROVED:	CES

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

C:\Users\Mark\Documents\RICO\Surface Water Sampling\Sample Collection sites.dwg



1a **SAMPLING LOCATION SOUTH OF RICO, CO**

SCALE - 1" = 500'

THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF ANDERSON ENGINEERING COMPANY, INC., 977 WEST 2100 SOUTH, SALT LAKE CITY, UTAH, 84119 AND SHALL NOT BE COPIED, REDUCED, OR REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.

General Notes

SCALE IN FEET
0 250 500

No.	Revision/Issue	Date

BP / ARCO

ANDERSON
ENGINEERING COMPANY, INC.
977 WEST 2100 SOUTH
SALT LAKE CITY, UTAH 84119
(801) 972-6222

RICO SURFACE WATER SAMOPLING

SAMPLING LOCATIONS SOUTH OF RICO, CO

RICO, COLORADO

DRAWN BY:	MAD
ENGINEER:	MAD
APPROVED:	CES

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

C:\Users\Mark\Documents\RICO\Surface Water Sampling\Sample Collection sites.dwg

02 MONITORING WELL LOCATIONS

SCALE - 1" = 200'

THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF ANDERSON ENGINEERING COMPANY, INC., 977 WEST 2100 SOUTH, SALT LAKE CITY, UTAH, 84119 AND SHALL NOT BE COPIED, REDUCED, OR REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.

General Notes

SCALE IN FEET
0 100 200

No.	Revision/Issue	Date

BP / ARCO

ANDERSON
ENGINEERING COMPANY, INC.
977 WEST 2100 SOUTH
SALT LAKE CITY, UTAH 84119
(801) 972-6222

RICO GW WELL MONITORING

MONITORING WELL LOCATIONS

RICO
COLORADO

DRAWN BY:	MAD
ENGINEER:	MAD
APPROVED:	CES

Project	Sheet
Date 11-Jun-12	2
Scale 1" = 200'	

C:\Users\ARCI-AED\Documents\RICO\GW well locations\All Current monitoring wells.dwg

Appendix B

Data Tables

TABLE 3A - Sampling Field Data and Station Information Summary, September 2012

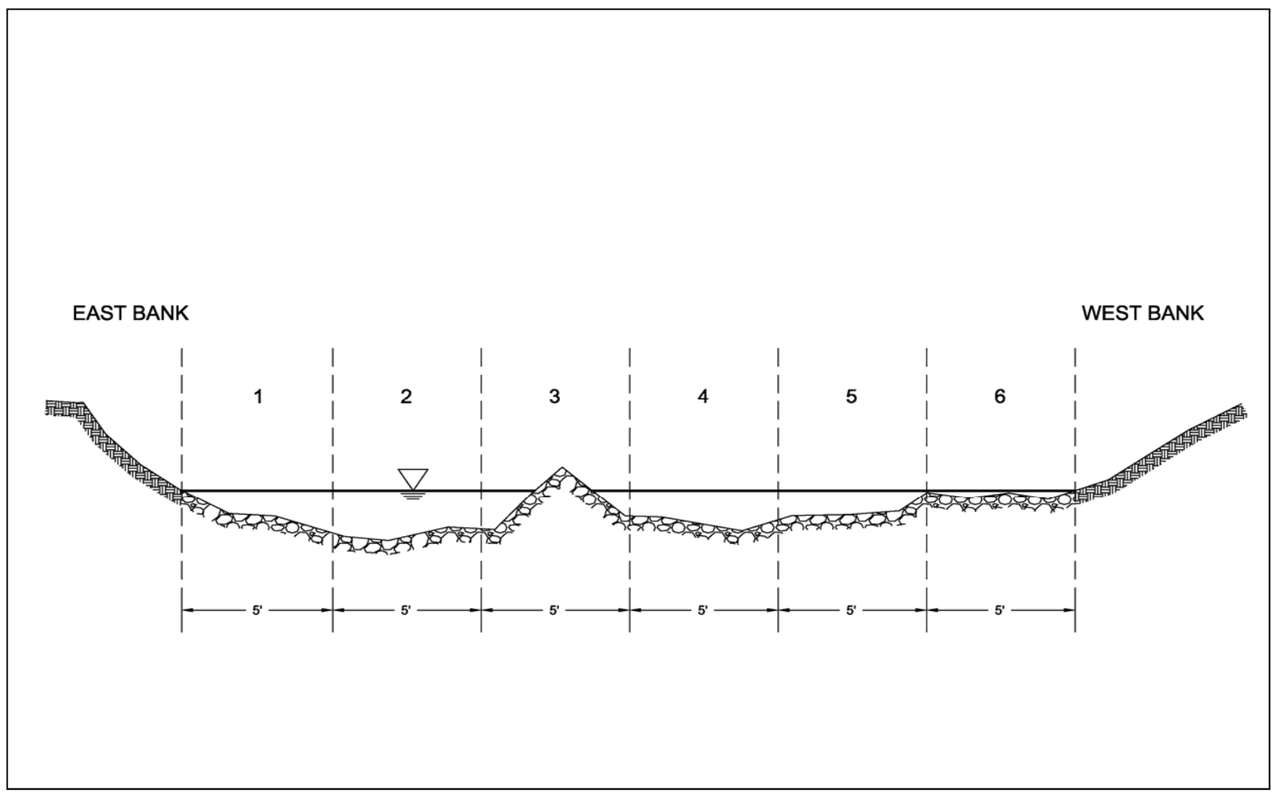
			Field Measurements							GPS Location (Colorado State Plane NAD83)		Flow Data			Comments
Sample Location	Date of Sample Collection	Field Technicians	pH	Temp (°C)	EC (mS/cm)	Dissolved Oxygen (ppm)	Oxydation Reduction Potential (ORP, mV)	Well Casing Elevation (ft)	Well Water Elevation (ft)	Northing	Easting	Stream Cross section area (ft^2)	Flowrate cfs	/ gpm	
DR-1	9/11/2012	Tim Barbee, Ben Loomis	8.25	12.60	0.314	6.44	54.7	NA	NA	1389970.4600	2267573.6490	18.1	22.0	9851	Cross section on the Dolores River above St. Louis settling pond system (approximately 800 ft north of the northern edge of Pond 18). Flow measurement by flowmeter.
DR-2	9/13/2012	Tim Barbee, Ben Loomis	7.99	7.52	0.362	5.65	60.4	NA	NA	1386660.9610	2267971.4630	30.3	21.9	9847	Cross section on the Dolores River, approximately 150 ft north of system outfall. Flow measurement by flowmeter.
DR-3	9/11/2012	Tim Barbee, Ben Loomis	7.02	19.26	1.361	4.41	9.30	NA	NA	1388963.0808	2268004.6974	NA	1.42	637	St Louis adit discharge. Flow measurement by installed Parshall Flume. Water level by installed STI Ultrasonic IRU-5180 water level meter and an OTT PLS submersible pressure transducer.
DR-4	9/11/2012	Tim Barbee, Ben Loomis	7.64	19.68	1.343	2.92	67.7	NA	NA	1388153.6284	2267799.1579	NA	CNO	-	Pond 15 discharge. Dredging activities in Pond 15 prevented accurate flow data from being collected at this location during this time period.
DR-5	9/13/2012	Tim Barbee, Ben Loomis	7.89	11.80	1.292	4.55	66.6	NA	NA	1387273.4503	2268024.8524	NA	1.20	539	Pond 8 was discharging at multiple small locations as well as the spillway. Due to the shallow water and multiple paths, accurate flow measurements could not be determined for this sampling location and period. Leakage was estimated by water balance. Flows estimated by water balance and water level reading.
DR-6	9/13/2012	Tim Barbee, Ben Loomis	7.29	12.76	1.395	3.48	64.3	NA	NA	1386431.4984	2267964.5711	NA	1.07	480	Outfall to Dolores River. Flow measurement by installed Parshall Flume. Water level by OTT Orpheus Mini submersible pressure transducer.
DR-7	9/13/2012	Tim Barbee, Ben Loomis	7.28	9.44	0.715	5.74	51.5	NA	NA	1385880.1050	2267983.4510	22.7	28.1	12625	Cross section on the Dolores River, approximately 500 ft below St. Louis settling pond system outfall. Flow measurement by flowmeter.
DR-8	9/11/2012	Tim Barbee, Ben Loomis	7.02	19.26	1.361	4.41	9.30	NA	NA	1388963.0808	2268004.6974	NA	NA	NA	DR-8 is a duplicate sample of DR-3 (or a location of sampler's choosing). See comments for DR-3.
DR-4-SW	9/13/2012	Tim Barbee, Ben Loomis	7.68	10.33	0.472	5.57	60.5	NA	NA	1379176.1190	2266285.0850	21.6	33.2	14909	Cross section on the Dolores River approximately 100 below the Silver Swan site. Flow measurement by flowmeter.
DR-G	9/13/2012	Tim Barbee, Ben Loomis	8.40	8.98	0.432	5.62	55.8	NA	NA	1364029.7850	2258752.9060	16.4	17.7	7953	Cross section on the Dolores River at USGS gauging station #09165000, approximately 3.5 miles downstream of the Silver Swan site. Flow measurement by flowmeter.
FB	9/13/2012	Tim Barbee, Ben Loomis	8.59	13.81	0.002	5.41	13.4	NA	NA	NA	NA	NA	NA	NA	Field blank
GW-1	9/11/2012	Tim Barbee, Ben Loomis	7.40	13.01	0.342	0.88	76.4	8840.13	8837.47	1390006.0210	2267642.6870	NA	NA	NA	Located on the north end of the site, approximately a quarter mile north of the northern edge of Pond 18.
GW-3	9/13/2012	Tim Barbee, Ben Loomis	6.29	6.30	0.846	3.63	70.7	8836.68	8822.88	1389221.9930	2267708.3940	NA	NA	NA	Located approximately 200 feet north of the northern edge of pond 18, and approximately 60 feet west of the main access road.
GW-4	9/11/2012	Tim Barbee, Ben Loomis	7.02	13.54	0.898	0.37	-22.1	8826.79	11.01	1388790.0720	2267553.5420	NA	NA	NA	Located on the western flood dike of Pond 18, approximately midway along the dike.
GW-5	9/11/2012	Tim Barbee, Ben Loomis	7.02	12.10	2.183	0.72	-40.5	8839.52	8817.28	1388802.0650	2267911.8020	NA	NA	NA	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	9/11/2012	Tim Barbee, Ben Loomis	6.62	14.12	2.523	0.53	-57.0	8837.45	8815.72	1388589.3950	2267922.5090	NA	NA	NA	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. Could not obtain sample due to obstruction near bottom of well.
GW-7	9/11/2012	Tim Barbee, Ben Loomis	6.58	13.17	1.459	0.86	62.5	8840.00	8816.91	1388611.4370	2268158.0170	NA	NA	NA	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	9/11/2012	Tim Barbee, Ben Loomis	6.97	12.55	2.271	0.82	-33.6	8839.86	8817.21	1388792.4420	2267916.9080	NA	NA	NA	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	9/11/2012	Tim Barbee, Ben Loomis	6.21	13.36	3.521	1.49	-33.6	8829.84	8812.84	1388306.1480	2267920.2500	NA	NA	NA	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	9/13/2012	Tim Barbee, Ben Loomis	7.10	14.77	1.321	1.61	71.3	8810.87	8804.93	1387826.7470	2267944.5160	NA	NA	NA	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	9/13/2012	Tim Barbee, Ben Loomis	7.49	14.59	0.891	2.1	65.3	8810.85	8802.44	1387829.4070	2267940.5680	NA	NA	NA	
MW-2 SHALLOW	NA	Tim Barbee, Ben Loomis	DRY WELL					8810.23	NA	1387829.7580	2267759.0810	NA	NA	NA	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 had less than one inch of water.
MW-2 DEEP	9/13/2012	Tim Barbee, Ben Loomis	7.26	13.13	1.364	1.43	46.8	8810.21	8800.08	1387836.0950	2267756.0910	NA	NA	NA	
MW-3 SHALLOW	NA	Tim Barbee, Ben Loomis	DRY WELL					8819.57	NA	1388308.0910	2267603.5420	NA	NA	NA	Bothe 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.
MW-3 DEEP	9/11/2012	Tim Barbee, Ben Loomis	7.14	15.64	1.377	0.61	-13.7	8819.72	8809.41	1388313.2060	2267601.6050	NA	NA	NA	
MW-4 SHALLOW	9/13/2012	Tim Barbee, Ben Loomis	6.69	10.77	`15.66	1.2	76.9	8816.83	8799.76	1387836.9670	2268221.9370	NA	NA	NA	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-4 DEEP	9/11/2012	Tim Barbee, Ben Loomis	6.81	13.08	16.260	0.91	40.7	8816.77	8799.76	1387839.1320	2268224.8950	NA	NA	NA	
MW-5 SHALLOW	9/11/2012	Tim Barbee, Ben Loomis	4.18	12.56	3.307	0.41	199.8	8830.95	8814.57	1388369.7050	2267814.3980	NA	NA	NA	Both wells are located about 4 feet apart on the western dike of drying cell 3 (refer to Figure 2).
MW-5 DEEP	9/11/2012	Tim Barbee, Ben Loomis	6.54	11.72	2.369	0.48	-42.1	8830.73	8813.16	1388374.5740	2267813.8150	NA	NA	NA	
MW-6 SHALLOW	9/11/2012	Tim Barbee, Ben Loomis	6.50	11.16	2.114	0.66	-26.9	8830.58	8807.20	1388166.1000	2268148.1000	NA	NA	NA	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	9/11/2012	Tim Barbee, Ben Loomis	6.69	11.51	1.422	0.67	-6.0	8830.11	8806.80	1388165.5290	2268153.3270	NA	NA	NA	

ANDERSON
ENGINEERING COMPANY INC.

Table 3B - DR-1 Cross Section Transect Sampling Field Data and Flow Information Summary, September 2012

			Field Measurements					GPS Location (Colorado State Plane NAD83)		Flow Data			
Sample Location	Date of Sample Collection	Field Technicians	pH	Temp (°C)	EC (mS/cm)	Dissolved Oxygen (ppm)	Oxydation Reduction Potential (ORP, mV)	Northing*	Easting*	Compartment Geometry		Average Flowrate	
										Width (ft)	Area (ft^2)	cfs	gpm
DR-1_SEC1	9/12/2012	Tim Barbee, Ted Barbee	8.59	13.12	0.283	7.10	42.0	1389969.1709	2267566.7148	5	1.15	1.27	570
DR-1_SEC2	9/12/2012	Tim Barbee, Ted Barbee	8.56	13.11	0.283	7.00	50.9	1389968.1501	2267561.7787	5	4.45	9.08	4075
DR-1_SEC3	9/12/2012	Tim Barbee, Ted Barbee	8.58	13.11	0.283	6.79	54.6	1389967.1375	2267556.8823	5	5.30	7.72	3465
DR-1_SEC4	9/12/2012	Tim Barbee, Ted Barbee	8.55	13.13	0.283	6.95	59.2	1389966.1249	2267551.9859	5	3.30	3.12	1400
DR-1_SEC5	9/12/2012	Tim Barbee, Ted Barbee	8.58	13.14	0.283	6.33	60.2	1389965.1124	2267547.0895	5	3.40	0.68	305
DR-1_SEC6	9/12/2012	Tim Barbee, Ted Barbee	8.56	13.12	0.181	6.31	61.0	1389964.0998	2267542.1931	5	0.50	0.08	36

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

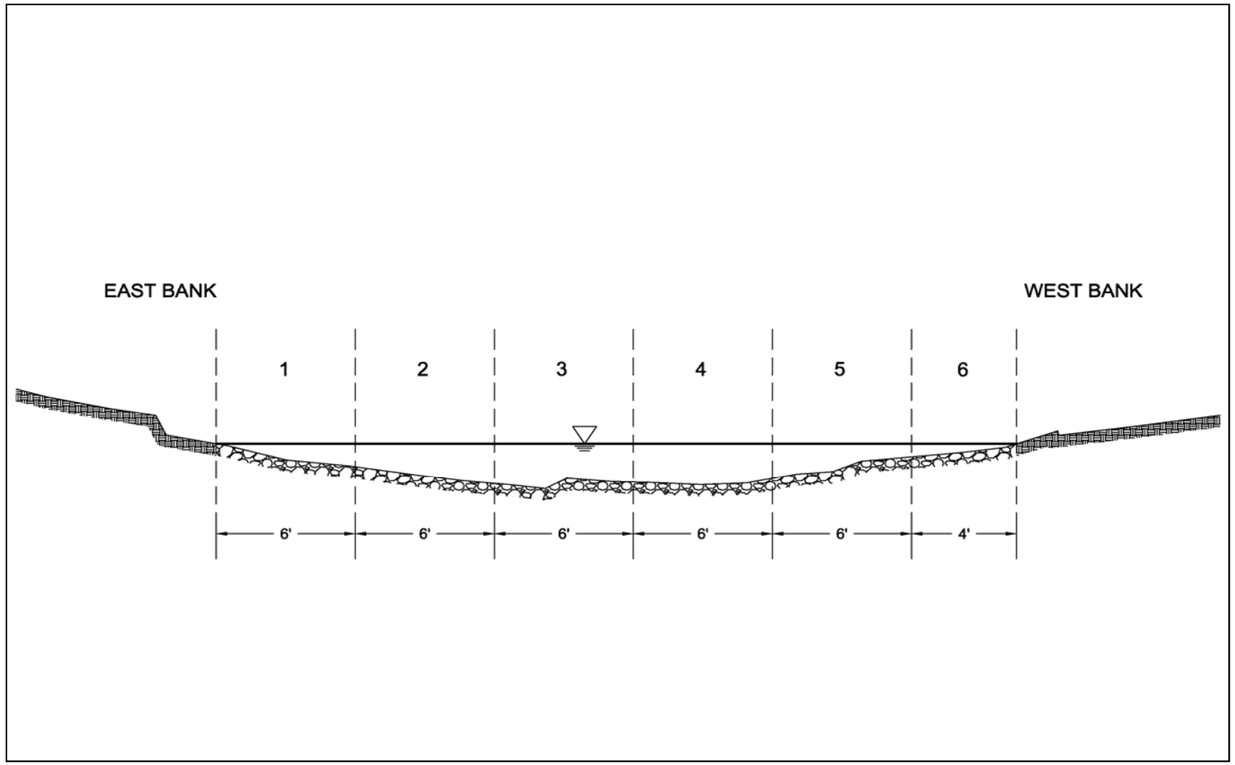


ANDERSON
ENGINEERING COMPANY INC.

Table 3C - DR-2 Cross Section Transect Sampling Field Data and Flow Information Summary, September 2012

			Field Measurements					GPS Location (Colorado State Plane NAD83)		Flow Data			
Sample Location	Date of Sample Collection	Field Technicians	pH	Temp (°C)	EC (mS/cm)	Dissolved Oxygen (ppm)	Oxydation Reduction Potential (ORP, mV)	Northing*	Easting*	Compartment Geometry		Average Flowrate	
										Width (ft)	Area (ft^2)	cfs	gpm
DR-2_SEC1	9/12/2012	Tim Barbee, Ted Barbee	8.21	12.91	0.336	6.88	71.7	1386655.5632	2267950.0533	6	2.70	0.16	72
DR-2_SEC2	9/12/2012	Tim Barbee, Ted Barbee	8.22	12.91	0.323	6.81	72.8	1386654.1493	2267944.4283	6	6.80	3.22	1445
DR-2_SEC3	9/12/2012	Tim Barbee, Ted Barbee	8.15	12.93	0.325	6.99	77.5	1386652.7354	2267938.8033	6	7.10	10.54	4730
DR-2_SEC4	9/12/2012	Tim Barbee, Ted Barbee	8.03	12.99	0.341	6.77	77.6	1386651.3214	2267933.1783	6	8.45	6.98	3133
DR-2_SEC5	9/12/2012	Tim Barbee, Ted Barbee	7.83	13.10	0.376	6.20	55.7	1386649.9075	2267927.5532	6	4.45	0.84	377
DR-2_SEC6	9/12/2012	Tim Barbee, Ted Barbee	7.62	13.17	0.401	6.15	37.7	1386648.6658	2267922.6133	4	0.80	0.20	90

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

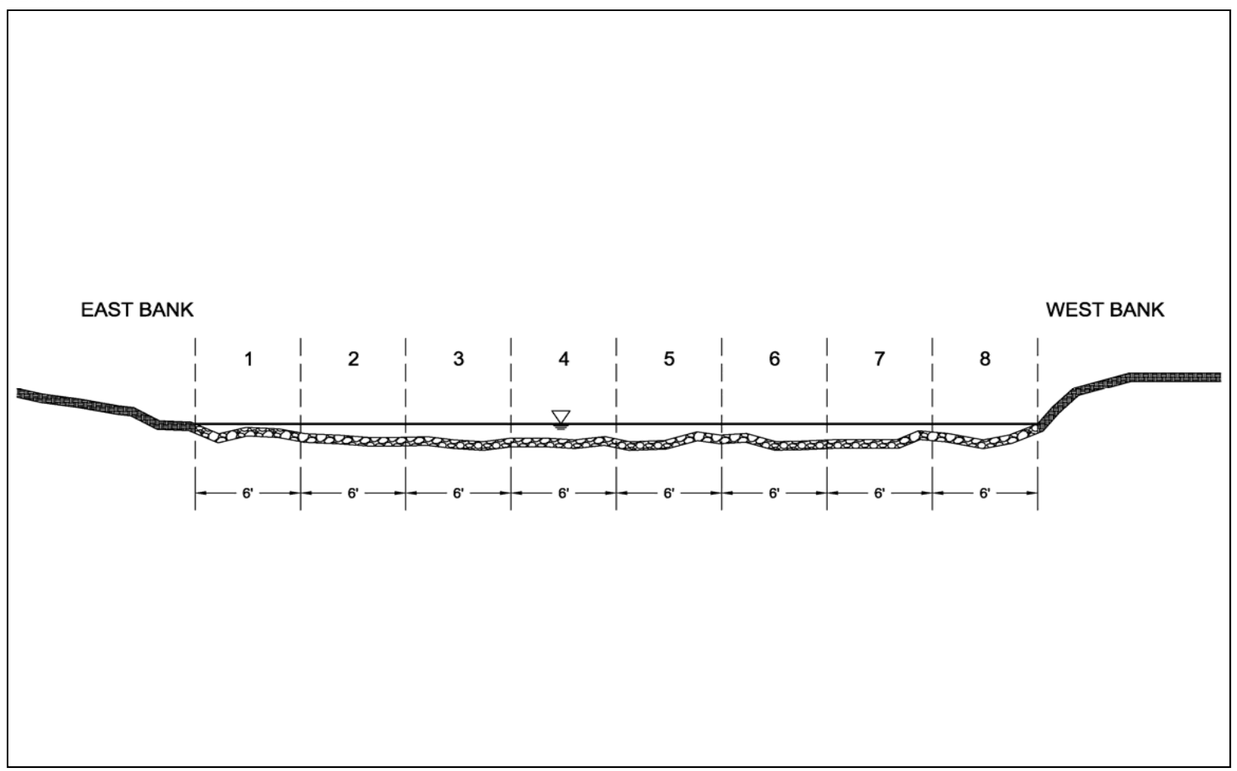


ANDERSON
ENGINEERING COMPANY INC.

Table 3D - DR-7 Cross Section Transect Sampling Field Data and Flow Information Summary, September 2012

			Field Measurements					GPS Location (Colorado State Plane NAD83)		Flow Data			
Sample Location	Date of Sample Collection	Field Technicians	pH	Temp (°C)	EC (mS/cm)	Dissolved Oxygen (ppm)	Oxydation Reduction Potential (ORP, mV)	Northing*	Easting*	Compartment Geometry		Average Flowrate	
										Width (ft)	Area (ft^2)	cfs	gpm
DR-7_SEC1	9/12/2012	Tim Barbee, Ted Barbee	7.23	12.41	0.558	6.95	54.4	1385879.2450	2267955.1422	6	1.55	0.48	215
DR-7_SEC2	9/12/2012	Tim Barbee, Ted Barbee	7.30	12.27	0.527	7.02	54.1	1385877.4620	2267949.4133	6	3.15	3.03	1360
DR-7_SEC3	9/12/2012	Tim Barbee, Ted Barbee	7.41	12.13	0.489	7.08	60.8	1385875.6790	2267943.6843	6	3.90	5.08	2280
DR-7_SEC4	9/12/2012	Tim Barbee, Ted Barbee	7.54	11.94	0.427	7.21	60.1	1385873.8961	2267937.9553	6	3.90	7.42	3330
DR-7_SEC5	9/12/2012	Tim Barbee, Ted Barbee	7.56	11.88	0.398	7.15	62.8	1385872.1131	2267932.2264	6	2.80	3.96	1777
DR-7_SEC6	9/12/2012	Tim Barbee, Ted Barbee	7.51	11.89	0.388	7.08	60.6	1385870.3302	2267926.4974	6	2.20	2.94	1319
DR-7_SEC7	9/12/2012	Tim Barbee, Ted Barbee	7.44	11.95	0.385	7.13	55.8	1385868.5472	2267920.7684	6	3.00	4.60	2064
DR-7_SEC8	9/12/2012	Tim Barbee, Ted Barbee	7.29	12.24	0.400	6.99	47.0	1385866.7643	2267915.0395	6	2.20	0.80	359

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

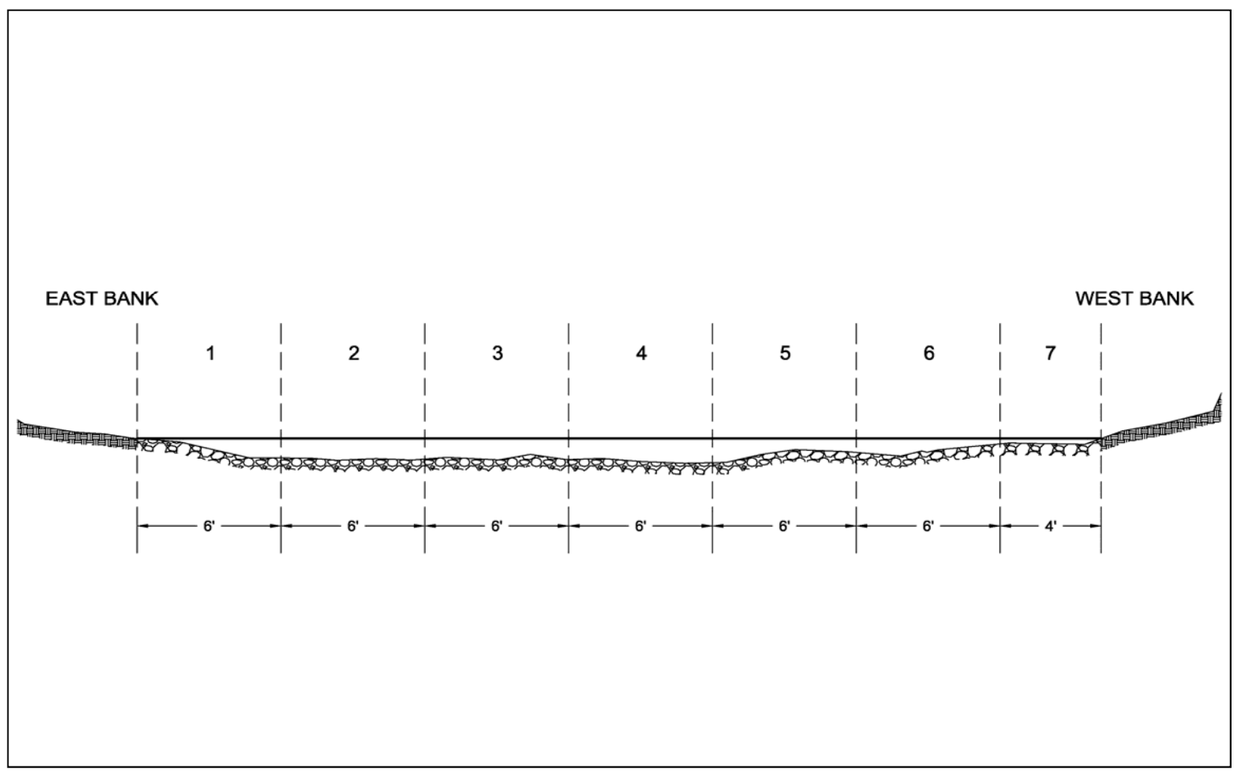


ANDERSON
ENGINEERING COMPANY INC.

Table 3E - DR-4-SW Cross Section Transect Sampling Field Data and Flow Information Summary, September 2012

			Field Measurements					GPS Location (Colorado State Plane NAD83)		Flow Data			
Sample Location	Date of Sample Collection	Field Technicians	pH	Temp (°C)	EC (mS/cm)	Dissolved Oxygen (ppm)	Oxydation Reduction Potential (ORP, mV)	Northing*	Easting*	Compartment Geometry		Average Flowrate	
										Width (ft)	Area (ft^2)	cfs	gpm
DR-4-SW_SEC1	9/12/2012	Tim Barbee, Ted Barbee	7.68	11.31	0.425	7.75	55.7	1379181.812	2266272.51	6	3.05	3.89	1746
DR-4-SW_SEC2	9/12/2012	Tim Barbee, Ted Barbee	7.65	11.41	0.424	7.60	59.0	1379184.260	2266267.03	6	4.55	9.54	4282
DR-4-SW_SEC3	9/12/2012	Tim Barbee, Ted Barbee	7.66	11.55	0.424	7.61	60.5	1379186.709	2266261.55	6	5.50	9.34	4192
DR-4-SW_SEC4	9/12/2012	Tim Barbee, Ted Barbee	7.68	11.76	0.423	7.53	60.2	1379189.157	2266256.08	6	4.00	5.42	2432
DR-4-SW_SEC5	9/12/2012	Tim Barbee, Ted Barbee	7.69	11.91	0.423	7.60	57.9	1379191.606	2266250.60	6	2.65	3.91	1755
DR-4-SW_SEC6	9/12/2012	Tim Barbee, Ted Barbee	7.66	12.17	0.424	7.49	58.9	1379194.054	2266245.12	6	1.45	1.00	449
DR-4-SW_SEC7	9/12/2012	Tim Barbee, Ted Barbee	7.58	12.41	0.428	6.69	59.4	1379196.095	2266240.56	4	0.40	0.12	54

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



ANDERSON
ENGINEERING COMPANY INC.

TABLE 4A - Surface Water Analytical Sampling Results Summary, September 2012

			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	Chloride	Cyanide	Hardness (µg/L as CaCO3)	Nitrate	Salinity	Silica	Sulfate	Sulfide	TDS	TOC	TSS
DR-1	9/11/12	Total	20.7	<0.50	<0.50	77.8	<0.20	<0.080	45700	0.54	<0.50	0.77	50.5	0.13	6210	11.8	<0.20	1.0	<0.50	731	<0.50	<0.50	2570	<0.10	0.20	<5.0	89.6	1.1	<0.0050	140000	<0.10	183	6410	49.9	<0.050	167	<1.0	<5.0
		Dissolved	6.8	<0.50	<0.50	80.0	<0.20	<0.080	46600	1.2	<0.50	<0.50	<50.0	<0.10	6680	8.9	<0.20	1.1	<0.50	763	<0.50	<0.50	2820	<0.10	0.12	<5.0												
		Potentially Dissolved	<250	<5.0	0.21J	72.2	<0.50	<0.50	43500	0.68J	<1.0	0.86J	79.4	0.34J	6510	10.9	<0.20	1.1	<1.0	708	<1.0	<0.50	2700	0.26J	<1.0	5.2J												
DR-2	9/13/12	Total	76.2	<0.50	<0.50	69.0	<0.20	<0.080	54200	<0.50	<0.50	2.6	168	0.22	7350	136	<0.20	1.2	<0.50	829	<0.50	<0.50	2880	<0.10	0.29	50.9	88.8	1.1	<0.0050	165000	<0.10	221	7120	71.9	<0.050	220	<1.0	6.0
		Dissolved	6.3	<0.50	<0.50	69.3	<0.20	<0.080	50300	<0.50	<0.50	1.3	<50.0	<0.10	6960	132	<0.20	1.3	2.3	836	<0.50	<0.50	3140	<0.10	0.11	9.3												
		Potentially Dissolved	35.3J	<5.0	0.19J	65.2	<0.50	<0.50	52200	0.62J	0.066J	0.86J	78.6	0.30J	7130	127	<0.20	1.2	<1.0	810	0.37J	<0.50	3040	<5.0	<1.0	10.7												
DR-3	9/11/12	Total	311	<0.50	<0.50	21.3	0.56	21.8	246000	<0.50	3.1	41.7	3670	5.9	18600	2110	<0.20	14.0	5.3	1620	<0.50	<0.50	10500	<0.10	0.21	4340	88.3	<1.0	<0.0050	690000	<0.10	756	17900	589	<0.050	1010	<1.0	5.0
		Dissolved	48.4	<0.50	<0.50	20.6	0.37	21.3	255000	<0.50	3.2	9.2	1020	0.39	19300	3000	<0.20	13.9	6.5	1640	<0.50	<0.50	11000	<0.10	<0.10	3980												
		Potentially Dissolved	282	0.24J	0.33J	19.7	0.51	20.6	229000	1.3	2.8	38.6	3470	6.0	20200	1940	<0.20	13.0	3.7	1630	<1.0	<0.50	9040	<5.0	<1.0	3910												
DR-4	9/11/12	Total	142	<0.50	<0.50	20.9	0.33	20.5	250000	<0.50	3.0	27.3	2240	1.8	19000	2040	<0.20	13.8	5.4	1620	<0.50	<0.50	10700	<0.10	<0.10	3980	90.8	<1.0	<0.0050	703000	<0.10	740	17600	578	<0.050	1010	<1.0	<5.0
		Dissolved	9.1	<0.50	<0.50	20.5	<0.20	18.5	255000	<0.50	3.1	1.8	<50.0	<0.10	19700	2890	<0.20	14.0	5.4	1590	<0.50	<0.50	10600	<0.10	<0.10	4740												
		Potentially Dissolved	158J	0.23J	0.26J	18.7	0.32J	19.6	224000	0.86J	2.7	25.0	2150	1.7J	19600	1890	<0.20	13.0	3.1	1570	<1.0	<0.50	8990	<5.0	<1.0	3650												
DR-5	9/13/12	Total	62.9	<0.50	<0.50	19.9	<0.20	17.5	247000	<0.50	2.5	12.4	983	0.68	19300	1820	<0.20	13.0	4.9	1770	<0.50	<0.50	10700	<0.10	<0.10	3300	95.8	<1.0	<0.0050	696000	<0.10	798	17200	578	<0.050	1020	<1.0	6.0
		Dissolved	13.3	<0.50	<0.50	20.1	<0.20	16.3	257000	1.3	2.7	2.0	<50.0	<0.10	20100	2630	<0.20	13.4	6.0	1790	<0.50	<0.50	10800	<0.10	<0.10	4420												
		Potentially Dissolved	66.9J	0.18J	0.16J	17.7	0.21J	16.7	226000	0.78J	2.4	11.7	960	0.66J	20200	1710	<0.20	12.1	2.8	1770	<1.0	<0.50	8950	<5.0	<1.0	3080												
DR-6	9/13/12	Total	27.2	<0.50	<0.50	19.9	<0.20	11.4	190000	<0.50	1.8	5.2	489	0.90	21200	1520	<0.20	12.1	4.3	2610	<0.50	<0.50	12800	<0.10	<0.10	2360	123	<1.0	<0.0050	562000	<0.10	800	16500	607	<0.050	1080	<1.0	<5.0
		Dissolved	4.4	<0.50	<0.50	19.9	<0.20	11.4	271000	<0.50	1.9	2.5	<50.0	<0.10	35000	2250	<0.20	12.6	5.9	2660	<0.50	<0.50	13000	<0.10	<0.10	3570												
		Potentially Dissolved	32.6J	0.18J	0.26J	17.9	0.14J	10.9	235000	1.6	1.7	5.1	482	0.98J	22700	1440	<0.20	11.2	2.4	2630	<1.0	<0.50	11200	<5.0	<1.0	2310												
DR-7	9/13/12	Total	69.9	<0.50	1.3	61.1	<0.20	3.2	115000	<0.50	0.66	3.9	482	1.2	12400	535	<0.20	4.1	1.5	1960	<0.50	<0.50	6910	<0.10	0.19	639	116	1.4	<0.0050	338000	<0.10	436	13700	211	<0.050	470	<1.0	8.0
		Dissolved	6.0	<0.50	0.99	60.4	<0.20	2.3	119000	0.58	0.55	0.94	92.6	<0.10	12800	728	<0.20	4.2	1.6	1960	<0.50	<0.50	7320	<0.10	<0.10	578												
		Potentially Dissolved	59.2J	<5.0	0.92J	54.4	0.13J	3.0	103000	0.81J	0.69J	5.2	547	1.9J	12400	504	<0.20	3.8	0.87J	1820	<1.0	<0.50	5400	<5.0	<1.0	601												
DR-8	9/11/12	Total	280	<0.50	<0.50	21.5	0.56	22.0	184000	<0.50	3.2	39.1	3590	4.8	18600	2080	<0.20	12.9	9.7	1550	<0.50	<0.50	9860	<0.10	0.18	4040	90.1	<1.0	<0.0050	537000	<0.10	761	18300	595	<0.050	1010	<1.0	8.0
		Dissolved	34.7	<0.50	<0.50	20.4	0.41	21.2	232000	<0.50	3.2	6.9	800	<0.10	19700	1960	<0.20	13.6	5.8	1620	<0.50	<0.50	11100	<0.10	<0.10	3940												
		Potentially Dissolved	272	0.22J	0.33J	19.7	0.53	21.6	229000	0.72J	3.0	40.2	3580	5.6	20100	2000	<0.20	13.3	3.5	1620	<1.0	<0.50	9050	<5.0	<1.0	4040												
DR-4-SW	9/13/12	Total	47.3	<0.50	0.52	67.7	<0.20	0.67	69600	<0.50	<0.50	1.1	166	0.44	9150	203	<0.20	1.5	0.61	1230	<0.50	<0.50	3920	<0.10	0.18	153	113	1.6	<0.0050	211000	<0.10	279	9230	96.0	<0.050	285	<1.0	7.0
		Dissolved	7.0	<0.50	<0.50	69.0	<0.20	0.61	68200	<0.50	<0.50	1.2	<50.0	<0.10	9140	202	<0.20	1.6	1.3	1280	<0.50	<0.50	4210	<0.10	<0.10	131												
		Potentially Dissolved	27.0J	<5.0	0.42J	64.0	<0.50	0.63	65600	0.74J	0.27J	1.2	136	0.40J	8820	196	<0.20	1.6	<1.0	1210	<1.0	<0.50	3020	<5.0	<1.0	134												
DR-G	9/13/12	Total	46.9	<0.50	<0.50	75.1	<0.20	0.45	64500	<0.50	<0.50	0.82	106	0.30	8700	66.7	<0.20	1.1	<0.50	1100	<0.50	<0.50	3600	<0.10	0.25	82.1	118	1.6	<0.0050	197000	<0.10	258	8430	78.1	<0.050	257	<1.0	<5.0
		Dissolved	12.3	<0.50	0.57	77.4	<0.20	0.35	63400	<0.50	<0.50	1.1	<50.0	<0.10	8750	60.5	<0.20	1.3	0.64	1180	<0.50	<0.50	3960	<0.10	0.16	74.8												
		Potentially Dissolved	<250	<5.0	0.32J	73.4	<0.50	0.44J	63400	0.67J	0.065J	1.2	74.1	0.26J	8680	66.2	<0.20	1.3	<1.0	1130	<1.0	<0.50	2890	<5.0	0.71J	86.7												
FB	9/13/12	Total	<4.0	<0.50	<0.50	<0.30	<0.20	<0.080	<20.0	<0.50	<0.50	<0.50	<50.0	<0.10	5.8	<0.50	<0.20	<0.50	<0.50	<20.0	<0.50	<0.50	278	<0.10	<0.10	<5.0	<20.0	<1.0	<0.0050	<71.0	<0.10	<6.0	<53.5	<1.0	<0.050	<5.0	<1.0	<5.0
		Dissolved	<4.0	<0.50	<0.50	<0.30	<0.20	<0.080	34.0	<0.50	<0.50	0.70	<50.0	<0.10	9.1	0.68	<0.20	<0.50	0.82	26.6	<0.50	<0.50	357	<0.10	<0.10	<5.0												
		Potentially Dissolved	<50.0	<1.0	<1.0	0.24J	<0.50	<0.50	66.5J	0.71J	<1.0	<1.0	6.1J	0.078J	<250	0.52J	<0.20	<1.0	<1.0	<500	<1.0	<0.50	366J	<1.0	<1.0	3.9J												

ANDERSON
ENGINEERING COMPANY INC.

TABLE 4B - Groundwater Analytical Sampling Results Summary, September 2012

			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	Chloride	Cyanide	Hardness (µg/L as CaCO3)	Nitrate	Salinity	Silica	Sulfate	Sulfide	TDS	TOC	TSS
GW-1	9/11/12	Total	6140	<0.50	9.2	174	0.45	0.83	54500	6.4	6.2	37.9	10600	34.4	8610	1160	<0.20	3.6	9.8	2380	0.73	<0.50	2460	0.19	13.2	98.2	106	1.3	<0.0050	172000	<0.10	207	28700	52.0	<0.050	192	1.0	596
		Dissolved	4.3	<0.50	<0.50	70.1	<0.20	<0.080	56000	<0.50	<0.50	1.2	<50.0	<0.10	6220	1.6	<0.20	1.6	2.0	807	<0.50	<0.50	2390	<0.10	<0.10	<5.0												
		Potentially Dissolved	1620	0.20J	2.3	183	0.35J	1.1	53600	2.9	4.2	28.0	3250	26.7	6700	910	<0.20	0.26J	7.2	974	0.53J	0.55	2420	<5.0	4.4	74.5												
GW-3	9/13/12	Total	4960	<0.50	8.1	108	0.28	2.0	121000	6.7	3.6	40.8	8490	81.8	19200	1060	<0.20	1.5	6.0	3830	2.2	0.62	3180	0.16	10.8	277	206	1.9	<0.0050	382000	<0.10	508	31200	207	<0.050	550	1.5	273
		Dissolved	25.3	<0.50	<0.50	21.3	<0.20	0.78	156000	<0.50	<0.50	5.4	<50.0	0.38	17700	111	<0.20	0.59	2.8	3120	0.92	<0.50	3170	<0.10	<0.10	76.5												
		Potentially Dissolved	1820	0.29J	3.8	61.0	0.20J	2.3	139000	3.4	2.9	40.1	3820	53.7	18600	1050	<0.20	0.20J	2.8	3200	1.0	0.45J	3310	<5.0	3.8	307												
GW-4	9/11/12	Total	21400	0.55	12.4	370	1.4	11.7	140000	31.2	12.1	91.5	34300	95.0	29000	1080	<0.20	13.9	23.8	5400	1.8	1.5	5060	0.52	47.2	790	190	1.8	<0.0050	469000	<0.10	530	81100	248	<0.050	559	1.6	1420
		Dissolved	1720	<0.50	2.2	60.5	<0.20	0.80	161000	2.4	1.4	7.3	3690	6.6	18200	852	<0.20	10.7	5.0	2070	<0.50	<0.50	4660	<0.10	3.5	75.4												
		Potentially Dissolved	5240	<5.0	4.0	90.8	0.76	8.8	156000	10	5.4	55.8	11300	62.2	20500	803	<0.20	5.0	8.1	2320	0.45J	<0.50	3770	0.17J	14.1	552												
GW-5	9/11/12	Total	7690	<2.5	273	61.4	1.1	91.2	377000	7.6	26.1	1100	53300	11800	50600	14100	<0.20	18.2	34.7	5660	2.7	50.5	5440	1.5	11.9	22000	12.1	<1.0	<0.0050	1150000	<0.10	1290	65500	1120	0.37	1800	<1.0	876
		Dissolved	9.4	<0.50	56.9	12.7	<0.20	0.21	434000	<0.50	10.2	0.96	11000	7.4	75200	11100	<0.20	7.0	13.4	4570	<0.50	<0.50	5660	<0.10	<0.10	6480												
		Potentially Dissolved	6430	1.3J	269	7.6	0.86	82.9	408000	6.3	19.4	721	39700	5380	51600	13200	<0.20	7.5	24.6	3300	0.64J	<0.50	4780	0.84J	10.9	25200												
GW-6	9/11/12	Total	20200	2.6	348	214	2.8	39.0	453000	17.1	16.6	430	393000	5800	85400	22900	<0.20	18.4	27.4	24400	3.6	19.9	4190	0.84	39.5	11300	<20.0	<1.0	<0.0050	1480000	<0.10	1420	108000	1530	<0.050	2210	1.2	1130
		Dissolved	300	<0.50	166	27.0	0.85	0.69	422000	<0.50	2.1	5.0	218000	63.8	123000	18500	<0.20	10.7	3.4	34000	<0.50	<0.50	4260	<0.10	0.34	7210												
		Potentially Dissolved	5080	0.79J	259	29.9	1.6	11.4	388000	6.7	6.4	158	168000	2660	83400	20700	<0.20	5.6	8.0	19400	0.52J	0.093J	3630	0.28J	12.9	7100												
GW-7	9/11/12	Total	5510	<0.50	7.2	27.0	0.66	5.0	227000	7.8	2.5	79.6	13300	316	28600	109	<0.20	2.6	7.4	3220	4.6	1.2	7030	<2.0	6.3	501	246	<1.0	<0.0050	685000	0.50	840	23800	534	<0.050	1080	<1.0	368
		Dissolved	65.8	<0.50	<0.50	13.0	<0.20	3.7	299000	<0.50	0.79	6.7	<50.0	4.4	40200	24.2	<0.20	1.1	2.8	2620	1.6	<0.50	7420	<0.10	<0.10	187												
		Potentially Dissolved	4790	<5.0	4.4	17.2	0.73	4.4	271000	5.9	2.5J	113	11400	437	27900	65.5	<0.20	0.69J	4.9	2870	2.5	0.53	6380	0.18J	0.88J	513												
EB-1	9/11/12	Total	677	<0.50	6.7	21.0	0.23	1.5	395000	0.78	6.5	31.0	9470	193	31700	5050	<0.20	13.4	6.6	6010	<0.50	1.0	6630	<0.10	1.1	1800	189	<1.0	<0.0050	1120000	<0.10	1370	25400	1120	0.091	1950	<1.0	41.0
		Dissolved	22.8	<0.50	2.7	14.7	<0.20	0.088	534000	<0.50	5.8	1.3	6680	3.3	47200	7190	<0.20	13.9	7.4	6250	<0.50	<0.50	7040	<0.10	<0.10	2280												
		Potentially Dissolved	391	<5.0	5.6	16.1	0.21J	1.3	480000	1.6J	6.2	26.2	7850	178	32200	4820	<0.20	12.7	3.2	4390	<1.0	0.069J	6260	<5.0	0.63J	1720												
EB-2	9/11/12	Total	18200	<2.5	186	12.8	8.2	1.3	365000	<2.5	83.5	16.2	630000	128	154000	33300	<0.20	3.4	117	14300	<2.5	<2.5	5800	<0.50	0.50	58200	<20.0	4.7	<0.0050	1550000	<0.10	2210	36300	3260	<0.050	4340	<1.0	126
		Dissolved	17100	<2.5	159	9.3	<4.0	0.66	398000	<2.5	84.4	<2.5	630000	<0.50	156000	33300	<0.20	3.6	125	14600	<2.5	<2.5	7050	<0.50	<0.50	61500												
		Potentially Dissolved	17400	<10.0	186	10J	7.4	1.2	356000	1.0	80.6	13.3	639000	134	147000	33800	<0.20	3.3	125	11700	0.70J	<0.50	6000	<10.0	<1.0	61000												
MW-1 SHALLOW	9/13/12	Total	9190	<0.50	8.5	129	0.86	1.1	220000	8.8	7.9	37.3	10600	60.9	25300	885	<0.20	7.9	9.4	4020	7.2	<10.0	10300	<2.0	12.8	166	82.2	<1.0	<0.0050	653000	<0.10	783	42700	669	<0.050	999	<1.0	417
		Dissolved	111	<0.50	<0.50	25.1	<0.20	0.16	250000	<0.50	<0.50	1.3	148	0.77	7240	12.0	<0.20	7.9	2.9	2050	5.2	<0.50	11100	<0.10	0.21	21.5												
		Potentially Dissolved	2840	0.24J	2.4	50.6	0.71	0.97	224000	3.8J	5.6	23.4	3910	57.5	21200	680	<0.20	2.4	3.9	2170	5.0	0.84	9150	0.26J	4.1	140												
MW-1 DEEP	9/13/12	Total	137	<0.50	0.74	17.9	<0.20	1.4	124000	3.1	<0.50	5.0	387	6.6	10900	51.2	<0.20	7.1	0.86	8250	6.0	<0.50	16600	<0.50	0.82	2250	80.0	1.6	<0.0050	355000	0.20	505	10600	336	<0.050	611	<1.0	9.0
		Dissolved	20.8	<0.50	<0.50	15.5	<0.20	1.2	138000	2.7	<0.50	1.9	70.4	1.1	7040	15.9	<0.20	6.8	2.5	9240	6.4	<0.50	16500	<0.10	0.55	2320												
		Potentially Dissolved	78.4J	0.29J	0.80J	16.1	<0.50	1.4	130000	3.5J	<5.0	5.5	361	7.7	11800	56.0	<0.20	6.4	<1.0	7290	5.3	<0.50	14500	<5.0	<1.0	2190												
MW-2 SHALLOW	NA	Total	DRY WELL																																			
		Dissolved																																				
		Potentially Dissolved																																				
MW-2 DEEP	9/13/12	Total	298	<0.50	0.54	17.4	<0.20	1.2	214000	1.1	<0.50	2.3	620	4.1	20000	20.9	<0.20	9.0	0.58	1990	1.5	<0.50	11400	<0.10	0.51	27.9	85.1	<1.0	<0.0050	617000	<0.10	772	13100	685	<0.050	1050	<1.0	8.0
		Dissolved	5.1	<0.50	<0.50	13.9	<0.20	1.0	255000	0.60	<0.50	0.73	<50.0	<0.10	8020	0.60	<0.20	8.5	<0.50	1970	1.5	<0.50	11300	<0.10	<0.10	19.5												
		Potentially Dissolved	155J	<5.0	0.41J	15.6	0.075J	1.2	242000	1.9J	<5.0	3.7J	463	5.8	22000	24.4	<0.20	7.3	<5.0	2090	1.3	<0.50	10400	<5.0	<1.0	33.3												
MW-3 SHALLOW	NA	Total	DRY WELL																																			
		Dissolved																																				
		Potentially Dissolved																																				
MW-3 DEEP	9/11/12	Total	109	<0.50	0.56	19.7	<0.20	0.22	269000	<0.50	0.85	1.6	1120	2.8	23800	1260	<0.20	12.1	<0.50	2190	<0.50	<0.50	11600	<0.10	0.26	74.2	87.8	<1.0	<0.0050	769000	<0.10	774	11700	684	<0.050	1040	<1.0	<5.0
		Dissolved	<4.0	<0.50	<0.50	17.2	<0.20	<0.080	249000	<0.50	0.78	<0.50	712	<0.10	23700	1250	<0.20	11.9	<0.50	2110	<0.50	<0.50	11800	<0.10	<0.10	41.6												
		Potentially Dissolved	60.4J	<5.0	0.39J	18.1	0.070J	0.26J	234000	1.6J	0.90J	<5.0	1040	3.2J	24100	1270	<0.20	12.8	<1.0	2230	<1.0	<0.50	10800	<5.0	<1.0	70.1												
MW-4 SHALLOW	9/13/12	Total	16200	<0.50	12.8	217	<4.0	2.2	256000	17.2	9.7	88.5	18100	106	37400	913	<0.20	4.1	14.4	7100	26.2	1.7	6140	0.32	19.4	360	350	1.2	<0.0050	794000	0.75	896	65100	525	<0.050	1090	1.0	802
		Dissolved	160	<0.50	<0.50	55.2	<0.20	1.4	311000	0.54	1.2	3.8	159	1.5	31400	470	<0.20	1.9	3.9	3520	24.6	<0.50	6700	<0.10	0.23	129												
		Potentially Dissolved	4570	<5.0	3.7	75.0	1.1	2.0	276000	8.8	7.5	68.7	6750	130	31700	878	<0.20	1.3	4.9	2550	22.3	0.39J	5640	<5.0	4.6	328												
MW-4 DEEP	9/11/12	Total	2230	<0.50	3.9	41.2	<4.0	3.0	275000	2.3	2.3	22.8	3580	17.3	36900	322	<0.20	3.2	2.9	3180	31.9	<0.50	5400	<0.10	3.7	423	358	<1.0	<0.0050	839000	<0.10	955	21500	560	<0.050	1140	<1.0	55.0
		Dissolved	28.5	<0.50	<0.50	17.9	<0.20	2.4	317000	<0.50	<0.50	4.4	<50.0	<0.10	35900	21.0	<0.20	2.0	1.3	2550	31.1	<0.50	5780	<0.10	<0.10	355												
		Potentially Dissolved	1050	0.29J	2.7	30.0	0.30J	3.2	286000	3.0	2.0	23.9	2370	18.6	35100	287	<0.20	1.1	0.88J	2600	30.0	0.21J	4760	<5.0	2.3	434												
MW-5 SHALLOW	9/11/12	Total	43400	<0.50	179	100	6.2	194	373000	<10.0	70.0	118	326000	755	85000	16100	<0.20	0.80	120	2570	8.2	1.5	6240	0.34	6.7	6490	<20.0	1.4	<0.0050	1280000	<0.10	2120	89000	3220	<0.050	3820	1.3	260
		Dissolved	44500	<2.5	186	11.8	<1.0	209	485000	2.9	76.1	92.2	384000	<0.50	8900	16500	<0.20	<2.5	139	1560	10.4	<2.5	6490	<0.50	3.0	68200												
		Potentially Dissolved	43800	<10.0	166	17.7	8.3	206	452000	4.3	67.8	112	349000	736	87600	15900	<0.20	0.38J	126	1460	3.2	0.18J	5820	0.41J	4.0	67900												
MW-5 DEEP	9/11/12	Total	1020	<0.50	258	15.0	2.7	0.30	358000	0.59	12.6	5.5	108000	14.6	69700	14200	<0.20	13.9	13.2	10100	<0.50	<0.50	7300	<0.10	0.33	13100	22.5	1.3	<0.0050	1180000	<0.10	1330	25100	1500	<0.050	2010	<1.0	64.0
		Dissolved	893	<0.50	168	13.1	<0.20	0.24	372000	<0.50	13.4	0.71	106000	<0.10	9440	15000	<0.20	14.9	13.1	10500	<0.50	<0.50	7310	<0.10	<0.10	13600												
		Potentially Dissolved	1180	0.27J	241	14.2	2.4	0.36J	333000	1.0	12.2	7.4	107000	19.3	67800	14800	<0.20	13.9	10.3	8720	<1.0	<0.50	6660	0.18J	0.29J	12500												
MW-6 SHALLOW	9/11/12	Total	31100	0.71	116	152	1.9	23.4	328000	19.7	17.4	170	83500	274	65200	7380	<0.20	8.5	32.1	12800	4.0	1.4	3800	0.70	30.8	4280	85.4	1.6	<0.0050	1090000	<0.10	1150	126000	1170	<0.050	1630	1.2	1460
		Dissolved	914	<0.50	43.9	16.3	<0.20	0.17	375000	0.52	3.7	1.3	51200	1.4	53500	7070	<0.20	4.9	5.0	11600	<0.50	<0.50	3740	<0.10	0.20	678												
		Potentially Dissolved	15800	<5.0	100	31.6	2.0	33.8	343000	14.0	16.1	175	68500	428	55800	6680	<0.20	1.8	26.6	10500	1.2	<0.50	3220	0.56J	17.1	6120												
MW-6 DEEP	9/11/12	Total	228	<0.50	8.7	17.1	0.46	0.42	241000	<0.50	2.4	3.0	5060	5.8	32600	5450	<0.20	4.8	2.8	4730	0.95	<0.50	5230	<0.10	0.14	1340	183	1.1	<0.0050	736000	<0.10	816	13900	594	<0.050	1010	<1.0	11.0
		Dissolved	142	<0.50	2.1	16.8	<0.20	0.34	254000	<0.50	2.4	<0.50	4920	<0.10	34000	5820	<0.20	5.2	3.1	4770	0.93	<0.50	5270	<0.10	<0.10	1340												
		Potentially Dissolved	321	0.30J	8.0	16.6	0.47J	0.42J	228000	0.92J	2.2	3.7	5910	6.6	32300	5400	<0.20	4.8	1.4	4240	1.1	<0.50	4610	<5.0	<1.0	1320												

ANDERSON
ENGINEERING COMPANY INC.

TABLE 4C - Dolores River Transect Sampling Analytical Sampling Results Summary, September 2012

			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	Chloride	Cyanide	Hardness (µg/L as CaCO3)	Nitrate	Salinity	Silica	Sulfate	Sulfide	TDS	TOC	TSS
DR-1_SEC1	9/12/12	Total	392	<2.5	<2.5	68.2	<1.0	<0.080	34500	<2.5	<2.5	<2.5	300	0.39	5820	15.2	<0.20	<2.5	<2.5	857	<2.5	<2.5	2380	<0.50	1.1	32.8	78.0	1.1	<0.0050	110000	0.31	165	8010	49.5	<0.050	152	<1.0	8.0
		Dissolved	5.7	<0.50	<0.50	65.8	<0.20	<0.080	42100	<0.50	<0.50	<0.50	<50.0	<0.10	5900	8.0	<0.20	0.99	<0.50	701	<0.50	<0.50	2450	<0.10	0.13	<5.0														
		Potentially Dissolved	50.9	0.089J	0.31J	66.2	<0.50	<0.50	38000	1.1	0.15J	4.2	121	1.3	5720	14.9	<0.20	1.0	0.65J	544	0.44J	<0.50	2250	0.059J	<1.0	7.2J														
DR-1_SEC2	9/12/12	Total	116	<0.50	<0.50	67.0	<0.20	<0.080	41000	<0.50	<0.50	0.71	237	0.30	5940	14.9	<0.20	0.92	<0.50	731	0.55	<0.50	2450	<0.10	0.44	<5.0	78.1	1.1	<0.0050	127000	<0.10	167	6350	49.0	<0.050	155	<1.0	6.0
		Dissolved	37.0	<0.50	<0.50	65.8	<0.20	0.12	41000	<0.50	<0.50	<0.50	<50.0	0.13	5810	9.1	<0.20	0.92	<0.50	698	<0.50	<0.50	2420	<0.10	0.20	<5.0														
		Potentially Dissolved	40.7J	0.071J	0.18J	64.7	<0.50	<0.50	38200	0.53J	0.10J	1.1	109	0.26J	5740	14.0	<0.20	0.93J	0.53J	432J	0.42J	<0.50	2270	<1.0	<1.0	3.8J														
DR-1_SEC3	9/12/12	Total	108	<0.50	<0.50	66.3	<0.20	<0.080	39400	0.63	<0.50	0.88	224	0.30	5830	14.5	<0.20	0.81	0.91	717	<0.50	<0.50	2420	<0.10	0.41	<5.0	80.8	1.1	<0.0050	122000	<0.10	162	6240	48.2	<0.050	165	<1.0	<5.0
		Dissolved	9.3	<0.50	<0.50	66.1	<0.20	<0.080	42100	0.64	<0.50	<0.50	<50.0	<0.10	8650	150	<0.20	1.0	0.60	700	<0.50	<0.50	2430	<0.10	0.13	<5.0														
		Potentially Dissolved	40.4J	0.089J	0.38J	65.4	<0.50	<0.50	38200	0.73J	0.12J	0.84J	109	1.3	5790	17.8	<0.20	0.97J	0.37J	542	0.43J	<0.50	2270	0.056J	<1.0	3.8J														
DR-1_SEC4	9/12/12	Total	112	<0.50	<0.50	66.3	<0.20	<0.080	39700	<0.50	<0.50	0.70	234	0.28	5850	15.0	<0.20	0.80	0.55	728	<0.50	<0.50	2430	<0.10	0.41	<5.0	77.4	1.1	<0.0050	123000	<0.10	164	6270	47.5	<0.050	152	<1.0	6.0
		Dissolved	9.8	<0.50	<0.50	65.2	<0.20	<0.080	40900	<0.50	<0.50	<0.50	<50.0	<0.10	8610	149	<0.20	0.92	<0.50	689	<0.50	<0.50	2420	<0.10	0.12	<5.0														
		Potentially Dissolved	42.9J	0.072J	0.29J	65.8	<0.50	<0.50	37400	0.75J	0.10J	0.74J	109	0.62J	5730	45.1	<0.20	0.92J	0.38J	468J	0.45J	<0.50	2260	<1.0	<1.0	7.4J														
DR-1_SEC5	9/12/12	Total	146	<2.5	2.5	340	<0.20	<0.080	35900	4.4	<2.5	0.60	1340	<0.50	6090	14.1	<0.20	5.1	3.7	864	<2.5	<2.5	12100	<0.50	0.47	<5.0	80.2	1.1	<0.0050	115000	<0.10	167	6240	49.3	<0.050	152	1.1	6.0
		Dissolved	6.9	<0.50	<0.50	65.8	<0.20	<0.080	41700	<0.50	<0.50	0.69	<50.0	<0.10	8640	149	<0.20	0.91	0.90	698	<0.50	<0.50	2430	<0.10	0.14	<5.0														
		Potentially Dissolved	41.6J	0.090J	0.25J	64.5	<0.50	<0.50	37800	1.1	0.13J	0.85J	109	0.36J	5680	13.6	<0.20	0.84J	0.57J	509	0.45J	<0.50	2210	<1.0	<1.0	3.1J														
DR-1_SEC6	9/12/12	Total	104	<0.50	<0.50	65.8	<0.20	<0.080	40300	<0.50	<0.50	0.69	220	0.28	5820	13.8	<0.20	0.79	0.55	723	0.57	<0.50	2420	<0.10	0.41	<5.0	79.9	1.1	<0.0050	125000	<0.10	166	6230	49.1	<0.050	149	1.0	6.0
		Dissolved	5.8	<0.50	<0.50	64.8	<0.20	<0.080	43400	<0.50	<0.50	0.85	<50.0	<0.10	6040	8.7	<0.20	0.90	2.2	744	<0.50	<0.50	2560	<0.10	<0.10	<5.0														
		Potentially Dissolved	44.4J	0.071J	0.36J	65.2	<0.50	<0.50	37500	0.65J	0.12J	1.2	105	0.29J	5640	14.3	<0.20	0.86J	0.51J	597	0.40J	<0.50	2210	<1.0	<1.0	3.9J														
DR-2_SEC1	9/12/12	Total	192	<0.50	0.53	67.7	<0.20	<0.080	48000	0.76	<0.50	0.87	391	0.48	6560	96.4	<0.20	0.95	0.83	818	<0.50	<0.50	2740	<0.10	0.59	6.6	81.4	1.1	<0.0050	147000	<0.10	191	6860	67.6	<0.050	184	1.2	11.0
		Dissolved	8.8	<0.50	<0.50	64.5	<0.20	<0.080	50200	<0.50	<0.50	<0.50	<50.0	<0.10	6520	84.5	<0.20	1.0	<0.50	807	<0.50	<0.50	2860	<0.10	<0.10	<5.0														
		Potentially Dissolved	67.4	0.062J	0.36J	65.8	<0.50	<0.50	44600	1.0	0.16J	0.95J	183	0.61J	6300	95.5	<0.20	1.0	0.53J	534	0.42J	<0.50	2500	<1.0	<1.0	7.5J														
DR-2_SEC2	9/12/12	Total	21.9	<0.50	<0.50	64.4	<0.20	<0.080	45900	<0.50	<0.50	0.66	<50.0	<0.10	6290	73.9	<0.20	1.0	0.63	774	<0.50	<0.50	2670	<0.10	0.19	<5.0	82.2	1.1	<0.0050	140000	<0.10	189	6390	63.4	<0.050	180	1.3	11.0
		Dissolved	203	<0.50	<0.50	71.1	<0.20	<0.080	51000	<0.50	<0.50	0.96	296	0.39	6760	89.4	<0.20	1.1	0.64	886	0.51	<0.50	2900	<0.10	0.56	6.1														
		Potentially Dissolved	66.0	0.075J	0.34J	68.0	<0.50	<0.50	44200	1.5	0.16J	1.1	182	0.56J	6330	86.9	<0.20	0.95J	0.63J	580	0.46J	<0.50	2510	<1.0	<1.0	6.0J														
DR-2_SEC3	9/12/12	Total	346	<0.50	0.51	72.6	<0.20	<0.080	48200	0.63	<0.50	1.1	453	0.51	6860	89.2	<0.20	1.3	0.64	983	<0.50	<0.50	2720	<0.10	0.90	<5.0	87.4	1.2	<0.0050	149000	<0.10	191	7550	62.6	<0.050	177	<1.0	10.0
		Dissolved	6.2	<0.50	<0.50	66.9	<0.20	<0.080	50100	<0.50	<0.50	1.3	<50.0	<0.10	6710	77.2	<0.20	1.1	1.4	856	<0.50	<0.50	2990	<0.10	<0.10	<5.0														
		Potentially Dissolved	60.0	0.075J	0.24J	63.4	<0.50	<0.50	43200	0.79J	0.15J	0.86J	166	0.42J	6230	80.3	<0.20	0.88J	0.50J	511	0.42J	<0.50	2500	<1.0	<1.0	5.6J														
DR-2_SEC4	9/12/12	Total	272	<0.50	0.55	73.1	<0.20	<0.080	49700	0.57	<0.50	1.0	432	0.50	7330	93.7	<0.20	1.3	0.56	1060	<0.50	<0.50	2940	<0.10	0.81	<5.0	89.9	1.2	<0.0050	154000	<0.10	198	8800	66.4	<0.050	187	<1.0	5.0
		Dissolved	6.3	<0.50	<0.50	68.2	<0.20	<0.080	54600	<0.50	<0.50	0.80	<50.0	<0.10	7080	83.2	<0.20	1.1	1.2	969	<0.50	<0.50	3260	<0.10	<0.10	<5.0														
		Potentially Dissolved	64.6	0.064J	0.33J	65.5	<0.50	<0.50	46300	1.0	0.18J	0.91J	176	0.40J	6640	87.1	<0.20	0.92J	0.62J	655	0.44J	<0.50	2740	<1.0	<1.0	6.3J														
DR-2_SEC5	9/12/12	Total	261	<0.50	0.62	70.8	<0.20	<0.080	52200	1.3	<0.50	1.0	417	0.51	7780	104	<0.20	1.3	0.74	1200	<0.50	<0.50	3310	<0.10	0.79	<5.0	97.9	1.2	<0.0050	162000	<0.10	206	9320	73.0	<0.050	208	<1.0	7.0
		Dissolved	8.8	<0.50	<0.50	67.4	<0.20	<0.080	59500	<0.50	<0.50	0.98	<50.0	<0.10	7950	94.2	<0.20	1.1	1.1	1140	<0.50	<0.50	3690	<0.10	<0.10	<5.0														
		Potentially Dissolved	58.9	0.077J	0.42J	65.2	<0.50	<0.50	49600	1.6	0.19J	0.90J	189	0.45J	7170	100	<0.20	1.1	0.77J	712	0.38J	<0.50	3080	<1.0	<1.0	6.8J														
DR-2_SEC6	9/12/12	Total	207	<0.50	0.60	70.9	<0.20	<0.080	55100	<0.50	<0.50	0.98	383	0.42	8180	115	<0.20	1.3	<0.50	1280	<0.50	<0.50	3620	<0.10	0.63	<5.0	103	1.3	<0.0050	171000	<0.10	226	9780	76.4	<0.050	220	1.0	5.0
		Dissolved	8.2	<0.50	<0.50	67.6	<0.20	<0.080	63400	<0.50	<0.50	2.8	<50.0	<0.10	8100	107	<0.20	1.2	2.6	1250	<0.50	<0.50	3990	<0.10	<0.10	<5.0														
		Potentially Dissolved	56.0	0.066J	0.42J	64.9	<0.50	<0.50	54800	0.57J	0.16J	0.80J	187	0.42J	7880	110	<0.20	1.2	0.41J	900	0.42J	<0.50	3470	<1.0	<1.0	6.4J														
DR-7_SEC1	9/12/12	Total	327	<0.50	1.1	69.2	<0.20	1.4	97500	0.54	<0.50	1.5	670	0.76	10800	292	<0.20	2.4	1.1	1740	<0.50	<0.50	5260	<0.10	0.87	281	109	1.1	<0.0050	288000	<0.10	315	12100	154	<0.050	334	<1.0	9.0
		Dissolved	8.7	<0.50	0.75	66.3	<0.20	1.3	91100	<0.50	<0.50	0.64	58.1	<0.10	10500	288	<0.20	2.4	1.1	1710	<0.50	<0.50	5930	<0.10	<0.10	285														
		Potentially Dissolved	105	0.11J	0.87J	63.8	0.090J	1.5	75700	0.83J	0.52J	1.8	430	0.93J	9940	290	<0.20	2.3	0.86J	1340	0.36J	<0.50	4920	0.078J	0.54J	295														
DR-7_SEC2	9/12/12	Total	367	<0.50	0.94	70.4	<0.20	1.3	77000	1.1	0.52	1.6	691	0.78	10400	279	<0.20	2.3	1.4	1620	<0.50	<0.50	4900	<0.10	0.96	264	102	1.1	<0.0050	235000	<0.10	301	11500	143	<0.050	317	<1.0	12.0
		Dissolved	6.2	<0.50	0.60	64.8	<0.20	1.1	84700	<0.50	<0.50	0.57	<50.0	<0.10	10300	262	<0.20	2.2	1.1	1520	<0.50	<0.50	5340	<0.10	<0.10	263														
		Potentially Dissolved	102	0.095J	0.70J	62.1	0.071J	1.2	72900	0.87J	0.44J	1.7	372	0.68J	9510	261	<0.20	1.9	0.85J	1130	<1.0	<0.50	4550	0.033J	<1.0	259														
DR-7_SEC3	9/12/12	Total	404	<0.50	0.92	71.7	<0.20	1.1	73400	0.51	<0.50	1.6	749	0.82	9730	254	<0.20	2.2	1.1	1480	0.51	<0.50	4420	<0.10	1.1	231	101	1.1	<0.0050	223000	<0.10	298	10900	130	<0.050	292	1.2	<5.0
		Dissolved	6.2	<0.50	<0.50	66.8	<0.20	1.4	80400	<0.50	<0.50	1.0	<50.0	<0.10	9690	237	<0.20	2.1	2.7	1370	<0.50	<0.50	4760	<0.10	<0.10	227														
		Potentially Dissolved	98.6	0.079J	0.60J	62.2	0.069J	1.0	66600	0.77J	0.38J	1.3	332	0.64J	8690	232	<0.20	1.8	0.75J	984	0.38J	<0.50	3950	0.029J	<1.0	221														
DR-7_SEC4	9/12/12	Total	259	<0.50	0.64	70.7	<0.20	0.78	60100	<0.50	<0.50	1.1	512	0.82	8400	185	<0.20	1.6	0.90	1170	<0.50	<0.50	3680	<0.10	0.74	143	94.3	1.1	<0.0050	185000	<0.10	244	9470	104	<0.050	252	1.3	11.0
		Dissolved	8.1	<0.50	<0.50	69.4	<0.20	0.68	71000	<0.50	<0.50	0.61	<50.0	<0.10	9030	182	<0.20	1.8	1.2	1170	<0.50	<0.50	4120	<0.10	<0.10	140														
		Potentially Dissolved	101	0.084J	0.52J	67.4	<0.50	0.76	58700	0.83J	0.37J	2.0	318	0.70J	7820	187	<0.20	1.4	0.61J	814	0.36J	<0.50	3420	<1.0	<1.0	150														
DR-7_SEC5	9/12/12	Total	388	<0.50	0.67	73.0	<0.20	0.44	55400	0.95	<0.50	1.7	622	0.84	8070	151	<0.20	1.4	0.96	1270	<0.50	<0.50	3340	<0.10	1.1	84.6	94.2	1.2	<0.0050	171000	<0.10	228	9470	89.4	<0.050	237	1.1	9.0
		Dissolved	10.4	<0.50	<0.50	70.3	<0.20	0.40	65600	<0.50	<0.50	0.88	<50.0	<0.10	8180	144	<0.20	1.4	2.1	1090	<0.50	<0.50	3710	<0.10	<0.10	81.1														
		Potentially Dissolved	90.1	0.077J	0.37J	63.1	<0.50	0.39J	54000	0.78J	0.27J	1.3	284	0.65J	7410	139	<0.20	1.1	0.68J	777	0.35J	<0.50	3090	<1.0	<1.0	84.2														
DR-7_SEC6	9/12/12	Total	371	<0.50	0.69	73.3	<0.20	0.40	55900	0.52	<0.50	1.0	619	0.65	7960	142	<0.20	1.3	0.85	1180	<0.50	<0.50	3320	<0.10	1.0	67.6	92.0	1.2	<0.0050	172000	<0.10	221	9000	85.3	<0.050	220	<1.0	12.0
		Dissolved	7.5	<0.50	<0.50	70.7	<0.20	0.29	63800	<0.50	<0.50	0.93	<50.0	<0.10	8070	136	<0.20	1.4	3.3	1090	<0.50	<0.50	3660	<0.10	<0.10	64.2														
		Potentially Dissolved	84.0	0.079J	0.41J	63.7	<0.50	0.33J	52300	1.1	0.27J	1.1	276	0.48J	7210	128	<0.20	1.1	0.76J	695	0.40J	<0.50	3030	<1.0	<1.0	64.5														
DR-7_SEC7	9/12/12	Total	218	<0.50	0.62	72.3	<0.20	0.26	57600	<0.50	<0.50	0.84	450	0.57	7920	132	<0.20	1.2	0.64	1170	<0.50	<0.50	3300	<0.10	0.64	46.5	92.8	1.2	<0.0050	176000	<0.10	230	9870	82.5	<0.050	226	1.1	8.0
		Dissolved	8.0	<0.50	<0.50	70.6	<0.20	0.24	62700	<0.50	<0.50	0.78	<50.0	<0.10	8070	126	<0.20	1.2	0.92	1090	<0.50	<0.50	3590	<0.10	<0.10	44.4														
		Potentially Dissolved	86.0	0.076J	0.43J	66.4	<0.50	0.22J	51400	0.78J	0.28J	0.97J	280	0.52J	6690	125	<0.20	0.98J	0.82J	990	0.41J	<0.50	3460	<1.0	<1.0	48.2														
DR-7_SEC8	9/12/12	Total	348	<0.50	0.68	74.4	<0.20	0.23	57800	0.54	<0.50	0.97	627	0.61	8140	139	<0.20	1.4	0.78	1260	0.52	<0.50	3390	<0.10	0.95	39.6	99.4	1.4	<0.0050	178000	<0.10	226	11300	82.4	<0.050	221	1.1	9.0
		Dissolved	6.5	<0.50	<0.50	71.1	<0.20	0.20	64800	<0.50	<0.50	0.54	<50.0	<0.10	8100	134	<0.20	1.3	0.80	1140	<0.50	<0.50	3720	<0.10	<0.10	37.6														
		Potentially Dissolved	79.4	0.065J	0.54J	64.0	<0.50	0.18J	52400	0.49J	0.28J	28.9	346	0.46J	7240	129	<0.20	0.95J	9.8	673	<1.0	<0.50	3100	<1.0	<1.0	41.1														
DR-4-SW_SEC1	9/12/12	Total	81.2	<0.50	0.55	73.5	<0.20	0.62	62100	<0.50	<0.50	1.1	254	0.74	8630	156	<0.20	1.5	0.55	1140	<0.50	<0.50	3570	<0.10	0.29	107	104	1.5	<0.0050	191000	<0.10	250	8820	87.0	0.052	238	<1.0	<5.0
		Dissolved	8.4	<0.50	<0.50	71.6	<0.20	0.53	69200	<0.50	<0.50	1.7	<50.0	<0.10	8760	149	<0.20	1.4	2.0	1170	<0.50	<0.50	3840	<0.10	<0.10	107														
		Potentially Dissolved	32.3J	0.084J	0.44J	64.6	<0.50	0.54	58200	0.62J	0.20J	1.2	175	0.76J	7940	147	<0.20	1.5	<1.0	742	0.40J	<0.50	3360	0.069J	<1.0	108														
DR-4-SW_SEC2	9/12/12	Total	85.6	<0.50	0.56	71.5	<0.20	0.58	61800	<0.50	<0.50	1.5	250	0.63	8550	154	<0.20	1.4	<0.50	1130	<0.50	<0.50	3510	<0.10	0.30	106	102	1.4	<0.0050	190000	<0.10	253	8710	87.5	<0.050	242	<1.0	<5.0
		Dissolved	9.8	<0.50	<0.50	71.8	<0.20	0.53	68800	2.2	<0.50	0.85	<50.0	<0.10	8810	152	<0.20	1.4	1.7	1180	<0.50	<0.50	3890	<0.10	<0.10	106														
		Potentially Dissolved	31.8J	0.077J	0.40J	65.8	<0.50	0.54	58300	2.3	0.22J	1.2	184	0.59J	7850	147	<0.20	1.4	0.78J	846	0.42J	<0.50	3340	0.022J	<2.0	110														
DR-4-SW_SEC3	9/12/12	Total	78.2	<0.50	0.60	73.2	<0.20	0.64	61200	<0.50	<0.50	0.99	250	0.70	8640	158	<0.20	1.4	0.58	1170	<0.50	<0.50	3570	<0.10	0.29	108	101	1.4	<0.0050	188000	<0.10	247	8960	87.0	<0.050	236	<1.0	<5.0
		Dissolved	6.8	<0.50	<0.50	71.9	<0.20	0.51	70500	<0.50	<0.50	1.8	<50.0	<0.10	8600	151	<0.20	1.4	0.97	1180	<0.50	<0.50	3890	<0.10	<0.10	104														
		Potentially Dissolved	29.8J	0.098J	0.36J	67.3	<0.50	0.53	57600	0.79J	0.20J	1.1	166	0.56J	7770	149	<0.20	1.5	0.51J	806	0.46J	<0.50	3310	0.067J	<1.0	110														
DR-4-SW_SEC4	9/12/12	Total	76.4	<0.50	0.57	71.7	<0.20	0.62	61400	<0.50	<0.50	1.2	242	0.68	8600	157	<0.20	1.5	<0.50	1160	<0.50	<0.50	3540	<0.10	0.27	109	96.2	1.4	<0.0050	189000	<0.10	254	8650	87.3	<0.050	243	<1.0	<5.0
		Dissolved	20.9	<0.50	<0.50	73.0	<0.20	0.58	69400	<0.50	<0.50	0.98	52.6	0.14	8950	153	<0.20	1.4	0.97	1190	<0.50	<0.50	3910	<0.10	<0.10	108														
		Potentially Dissolved	30.1J	0.090J	0.40J	66.7	<0.50	0.58	57900	0.65J	0.19J	1.2	164	0.49J	7790	146	<0.20	1.4	0.38J	702	0.43J	<0.50	3280	0.024J	<1.0	108														
DR-4-SW_SEC5	9/12/12	Total	65.9	<0.50	0.50	72.7	<0.20	0.62	61100	<0.50	<0.50	1.1	234	0.63	8700	158	<0.20	1.5	<0.50	1150	<0.50	<0.50	3550	<0.10	0.25	110	101	1.4	<0.0050	188000	<0.10	250	8760	87.5	<0.050	232	<1.0	<5.0
		Dissolved	7.3	<0.50	<0.50	72.3	<0.20	0.52	70700	<0.50	<0.50	1.5	<50.0	<0.10	8840	152	<0.20	1.4	1.2	1180	<0.50	<0.50	3840	<0.10	<0.10	107														
		Potentially Dissolved	33.4J	0.073J	0.43J	68.2	<0.50	0.60	57100	0.54J	0.20J	1.4	197	0.68J	7660	155	<0.20	1.2	0.51J	780	0.38J	<0.50	3220	<1.0	<1.0	113														
DR-4-SW_SEC6	9/12/12	Total	89.0	<0.50	<0.50	72.2	<0.20	0.70	62500	<0.50	<0.50	1.0	268	0.82	8680	161	<0.20	1.5	<0.50	1150	<0.50	<0.50	3530	<0.10	0.30	115	99.1	1.4	<0.0050	192000	<0.10	239	8610	86.8	<0.050	241	<1.0	<5.0
		Dissolved	7.0	<0.50	<0.50	71.7	<0.20	0.52	69500	<0.50	<0.50	0.95	<50.0	<0.10	8700	152	<0.20	1.4	2.1	1190	<0.50	<0.50	3880	<0.10	<0.10	112														
		Potentially Dissolved	29.3J	0.074J	0.43J	66.1	<0.50	0.54	58600	0.61J	0.21J	1.2	164	0.58J	7850	148	<0.20	1.4	0.60J	840	0.42J	<0.50	3410	0.022J	<1.0	113														
DR-4-SW_SEC7	9/12/12	Total	65.7	<0.50	<0.50	70.2	<0.20	0.63	61100	<0.50	<0.50	1.0	215	0.68	8510	156	<0.20	1.4	<0.50	1130	<0.50	<0.50	3480	<0.10	0.28	125	100	1.4	<0.0050	188000	<0.10	243	8540	87.0	<0.050	245	<1.0	<5.0
		Dissolved	7.0	<0.50	<0.50	72.3	<0.20	0.57	70900	<0.50	<0.50	1.0	<50.0	<0.10	8890	158	<0.20	1.5	2.2	1200	0.54	<0.50	3900	<0.10	<0.10	128														
		Potentially Dissolved	35.8J	0.073J	0.46J	66.5	<0.50	0.64	57800	0.49J	0.24J	1.5	199	0.96J	7780	157	<0.20	1.3	<1.0	946	0.37J	<0.50	3240	<1.0	<1.0	132														

ANDERSON
ENGINEERING COMPANY INC.

Appendix C

Project Narrative and Laboratory Analytical Reports

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

November 05, 2012

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

RE: Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Dear Mark DeFriez:
Enclosed are the analytical results for sample(s) received by the laboratory on September 14, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Heather M. Wilson

Heather Wilson

heather.wilson@pacelabs.com
Project Manager

Enclosures

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

CERTIFICATIONS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

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
North Dakota Certification #: R-036A
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

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

SAMPLE SUMMARY

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60128975001	**RICODR-1_SEC1_20120912**	Water	09/12/12 14:56	09/14/12 10:15
60128975002	**RICODR-1_SEC2_20120912**	Water	09/12/12 14:56	09/14/12 10:15
60128975003	**RICODR-1_SEC3_20120912**	Water	09/12/12 14:56	09/14/12 10:15
60128975004	**RICODR-1_SEC4_20120912**	Water	09/12/12 14:56	09/14/12 10:15
60128975005	**RICODR-1_SEC5_20120912**	Water	09/12/12 14:56	09/14/12 10:15
60128975006	**RICODR-1_SEC6_20120912**	Water	09/12/12 14:56	09/14/12 10:15
60128975007	**RICODR-2_SEC1_20120912**	Water	09/12/12 13:44	09/14/12 10:15
60128975008	**RICODR-2_SEC2_20120912**	Water	09/12/12 13:44	09/14/12 10:15
60128975009	**RICODR-2_SEC3_20120912**	Water	09/12/12 13:44	09/14/12 10:15
60128975010	**RICODR-2_SEC4_20120912**	Water	09/12/12 13:44	09/14/12 10:15
60128975011	**RICODR-2_SEC5_20120912**	Water	09/12/12 13:44	09/14/12 10:15
60128975012	**RICODR-2_SEC6_20120912**	Water	09/12/12 13:44	09/14/12 10:15
60128975013	**RICODR-7_SEC1_20120912**	Water	09/12/12 12:15	09/14/12 10:15
60128975014	**RICODR-7_SEC2_20120912**	Water	09/12/12 12:15	09/14/12 10:15
60128975015	**RICODR-7_SEC3_20120912**	Water	09/12/12 12:15	09/14/12 10:15
60128975016	**RICODR-7_SEC4_20120912**	Water	09/12/12 12:15	09/14/12 10:15
60128975017	**RICODR-7_SEC5_20120912**	Water	09/12/12 12:15	09/14/12 10:15
60128975018	**RICODR-7_SEC6_20120912**	Water	09/12/12 12:15	09/14/12 10:15
60128975019	**RICODR-7_SEC7_20120912**	Water	09/12/12 12:15	09/14/12 10:15
60128975020	**RICODR-7_SEC8_20120912**	Water	09/12/12 12:15	09/14/12 10:15
60128975021	**RICODR-4-SW_SEC1_20120912**	Water	09/12/12 10:25	09/14/12 10:15
60128975022	**RICODR-4-SW_SEC2_20120912**	Water	09/12/12 10:25	09/14/12 10:15
60128975023	**RICODR-4-SW_SEC3_20120912**	Water	09/12/12 10:25	09/14/12 10:15
60128975024	**RICODR-4-SW_SEC4_20120912**	Water	09/12/12 10:25	09/14/12 10:15
60128975025	**RICODR-4-SW_SEC5_20120912**	Water	09/12/12 10:25	09/14/12 10:15
60128975026	**RICODR-4-SW_SEC6_20120912**	Water	09/12/12 10:25	09/14/12 10:15
60128975027	**RICODR-4-SW_SEC7_20120912**	Water	09/12/12 10:25	09/14/12 10:15

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

SAMPLE ANALYTE COUNT

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60128975001	**RICODR-1_SEC1_20120912**	EPA 200.7	SMW	4	PASI-K
		EPA 200.8	AS2, RR1	25	PASI-M
		EPA 200.8	RR1	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CAC	1	
		Calculated	CAC	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	NDL	1	PASI-K
		SM 2540D	NDL	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	NDL	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	JML	1	PASI-K
60128975002	**RICODR-1_SEC2_20120912**	EPA 200.7	SMW	4	PASI-K
		EPA 200.8	RJS	25	PASI-M
		EPA 200.8	RR1	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CAC	1	
		Calculated	CAC	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	NDL	1	PASI-K
		SM 2540D	NDL	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	NDL	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	JML	1	PASI-K
60128975003	**RICODR-1_SEC3_20120912**	EPA 200.7	SMW	4	PASI-K
		EPA 200.8	RJS	25	PASI-M
		EPA 200.8	RR1	23	PASI-M

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

SAMPLE ANALYTE COUNT

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CAC	1	
		Calculated	CAC	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	NDL	1	PASI-K
		SM 2540D	NDL	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	NDL	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	JML	1	PASI-K
60128975004	**RICODR-1_SEC4_20120912**	EPA 200.7	SMW	4	PASI-K
		EPA 200.8	RJS	25	PASI-M
		EPA 200.8	RR1	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CAC	1	
		Calculated	CAC	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	NDL	1	PASI-K
		SM 2540D	NDL	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	NDL	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	JML	1	PASI-K
60128975005	**RICODR-1_SEC5_20120912**	EPA 200.7	SMW	4	PASI-K
		EPA 200.8	AS2, RR1	25	PASI-M
		EPA 200.8	RR1	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

SAMPLE ANALYTE COUNT

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CAC	1	
		Calculated	CAC	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	NDL	1	PASI-K
		SM 2540D	NDL	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	NDL	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	JML	1	PASI-K
60128975006	**RICODR-1_SEC6_20120912**	EPA 200.7	SMW	4	PASI-K
		EPA 200.8	RJS	25	PASI-M
		EPA 200.8	RR1	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CAC	1	
		Calculated	CAC	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	NDL	1	PASI-K
		SM 2540D	NDL	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	NDL	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	JML	1	PASI-K
60128975007	**RICODR-2_SEC1_20120912**	EPA 200.7	SMW	4	PASI-K
		EPA 200.8	RJS	25	PASI-M
		EPA 200.8	RR1	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CAC	1	
		Calculated	CAC	2	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

SAMPLE ANALYTE COUNT

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2320B	DJR	3	PASI-K
		SM 2540C	NDL	1	PASI-K
		SM 2540D	NDL	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	NDL	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	JML	1	PASI-K
60128975008	**RICODR-2_SEC2_20120912**	EPA 200.7	SMW	4	PASI-K
		EPA 200.8	RJS	25	PASI-M
		EPA 200.8	RR1	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CAC	1	
		Calculated	CAC	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	NDL	1	PASI-K
		SM 2540D	NDL	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	NDL	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	JML	1	PASI-K
60128975009	**RICODR-2_SEC3_20120912**	EPA 200.7	SMW	4	PASI-K
		EPA 200.8	AS2, RR1	25	PASI-M
		EPA 200.8	RR1	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CAC	1	
		Calculated	CAC	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	NDL	1	PASI-K
		SM 2540D	NDL	1	PASI-K

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

SAMPLE ANALYTE COUNT

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

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	NDL	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	JML	1	PASI-K
60128975010	**RICODR-2_SEC4_20120912**	EPA 200.7	SMW	4	PASI-K
		EPA 200.8	AS2, RR1	25	PASI-M
		EPA 200.8	RR1	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CAC	1	
		Calculated	CAC	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	NDL	1	PASI-K
		SM 2540D	NDL	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	NDL	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	JML	1	PASI-K
60128975011	**RICODR-2_SEC5_20120912**	EPA 200.7	SMW	4	PASI-K
		EPA 200.8	AS2, RR1	25	PASI-M
		EPA 200.8	RR1	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CAC	1	
		Calculated	CAC	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	NDL	1	PASI-K
		SM 2540D	NDL	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	NDL	1	PASI-K

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

SAMPLE ANALYTE COUNT

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	JML	1	PASI-K
60128975012	**RICODR-2_SEC6_20120912**	EPA 200.7	SMW	4	PASI-K
		EPA 200.8	AS2, RR1	25	PASI-M
		EPA 200.8	RR1	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CAC	1	
		Calculated	CAC	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	NDL	1	PASI-K
		SM 2540D	NDL	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	NDL	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	JML	1	PASI-K
60128975013	**RICODR-7_SEC1_20120912**	EPA 200.7	SMW	4	PASI-K
		EPA 200.8	AS2, RR1	25	PASI-M
		EPA 200.8	RR1	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CAC	1	
		Calculated	CAC	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	NDL	1	PASI-K
		SM 2540D	NDL	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	NDL	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	JML	1	PASI-K
60128975014	**RICODR-7_SEC2_20120912**	EPA 200.7	SMW	4	PASI-K

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

SAMPLE ANALYTE COUNT

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 200.8	AS2, RR1	25	PASI-M
		EPA 200.8	RR1	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CAC	1	
		Calculated	CAC	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	NDL	1	PASI-K
		SM 2540D	NDL	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	NDL	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	JML	1	PASI-K
60128975015	**RICODR-7_SEC3_20120912**	EPA 200.7	SMW	4	PASI-K
		EPA 200.8	AS2, RR1	25	PASI-M
		EPA 200.8	RR1	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CAC	1	
		Calculated	CAC	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	NDL	1	PASI-K
		SM 2540D	NDL	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	NDL	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	JML	1	PASI-K
60128975016	**RICODR-7_SEC4_20120912**	EPA 200.7	SMW	4	PASI-K
		EPA 200.8	AS2, RR1	25	PASI-M
		EPA 200.8	RR1	23	PASI-M
		EPA 200.8	JGP	19	PASI-K

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

SAMPLE ANALYTE COUNT

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CAC	1	
		Calculated	CAC	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	NDL	1	PASI-K
		SM 2540D	NDL	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	NDL	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	JML	1	PASI-K
60128975017	**RICODR-7_SEC5_20120912**	EPA 200.7	SMW	4	PASI-K
		EPA 200.8	AS2, RR1	25	PASI-M
		EPA 200.8	RR1	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CAC	1	
		Calculated	CAC	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	NDL	1	PASI-K
		SM 2540D	NDL	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	NDL	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	JML	1	PASI-K
60128975018	**RICODR-7_SEC6_20120912**	EPA 200.7	SMW	4	PASI-K
		EPA 200.8	AS2, RR1	25	PASI-M
		EPA 200.8	RR1	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

SAMPLE ANALYTE COUNT

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2510B	CAC	1	
		Calculated	CAC	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	NDL	1	PASI-K
		SM 2540D	NDL	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	NDL	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	JML	1	PASI-K
60128975019	**RICODR-7_SEC7_20120912**	EPA 200.7	SMW	4	PASI-K
		EPA 200.8	AS2, RR1	25	PASI-M
		EPA 200.8	RR1	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CAC	1	
		Calculated	CAC	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	NDL	1	PASI-K
		SM 2540D	NDL	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	NDL	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	JML	1	PASI-K
60128975020	**RICODR-7_SEC8_20120912**	EPA 200.7	SMW	4	PASI-K
		EPA 200.8	AS2, RR1	25	PASI-M
		EPA 200.8	RR1	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CAC	1	
		Calculated	CAC	2	
		SM 2320B	DJR	3	PASI-K

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

SAMPLE ANALYTE COUNT

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2540C	NDL	1	PASI-K
		SM 2540D	NDL	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	NDL	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	JML	1	PASI-K
60128975021	**RICODR-4-SW_SEC1_20120912**	EPA 200.7	SMW	4	PASI-K
		EPA 200.8	AS2, RR1	25	PASI-M
		EPA 200.8	RR1	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CAC	1	
		Calculated	CAC	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	NDL	1	PASI-K
		SM 2540D	NDL	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	AJM	2	PASI-K
		EPA 353.2	NDL	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	JML	1	PASI-K
60128975022	**RICODR-4-SW_SEC2_20120912**	EPA 200.7	SMW	4	PASI-K
		EPA 200.8	AS2, RR1	25	PASI-M
		EPA 200.8	RR1	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CAC	1	
		Calculated	CAC	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	NDL	1	PASI-K
		SM 2540D	NDL	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

SAMPLE ANALYTE COUNT

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 300.0	AJM	2	PASI-K
		EPA 353.2	NDL	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	JML	1	PASI-K
60128975023	**RICODR-4-SW_SEC3_20120912**	EPA 200.7	SMW	4	PASI-K
		EPA 200.8	AS2, RR1	25	PASI-M
		EPA 200.8	RR1	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CAC	1	
		Calculated	CAC	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	NDL	1	PASI-K
		SM 2540D	NDL	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	AJM	2	PASI-K
		EPA 353.2	NDL	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	JML	1	PASI-K
60128975024	**RICODR-4-SW_SEC4_20120912**	EPA 200.7	SMW	4	PASI-K
		EPA 200.8	AS2, RR1	25	PASI-M
		EPA 200.8	RR1	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CAC	1	
		Calculated	CAC	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	NDL	1	PASI-K
		SM 2540D	NDL	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	AJM	2	PASI-K
		EPA 353.2	NDL	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

SAMPLE ANALYTE COUNT

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 5310C	JML	1	PASI-K
60128975025	**RICODR-4-SW_SEC5_20120912**	EPA 200.7	SMW	4	PASI-K
		EPA 200.8	AS2, RR1	25	PASI-M
		EPA 200.8	RR1	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CAC	1	
		Calculated	CAC	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	NDL	1	PASI-K
		SM 2540D	NDL	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	AJM	2	PASI-K
		EPA 353.2	NDL	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	JML	1	PASI-K
60128975026	**RICODR-4-SW_SEC6_20120912**	EPA 200.7	SMW	4	PASI-K
		EPA 200.8	AS2, RR1	25	PASI-M
		EPA 200.8	RR1	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CAC	1	
		Calculated	CAC	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	NDL	1	PASI-K
		SM 2540D	NDL	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	AJM	2	PASI-K
		EPA 353.2	NDL	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	JML	1	PASI-K
60128975027	**RICODR-4-SW_SEC7_20120912**	EPA 200.7	SMW	4	PASI-K
		EPA 200.8	AS2, RR1	25	PASI-M

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

SAMPLE ANALYTE COUNT

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 200.8	RR1	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CAC	1	
		Calculated	CAC	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	NDL	1	PASI-K
		SM 2540D	NDL	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	AJM	2	PASI-K
		EPA 353.2	NDL	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	JML	1	PASI-K

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

PROJECT NARRATIVE

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Method: **EPA 200.7**
Description: 200.7 Potentially Diss. Metals
Client: BP Anderson Engineering Company Inc.
Date: November 05, 2012

General Information:
27 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 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:

Analyte Comments:

QC Batch: MPRP/19590

B: Analyte was detected in the associated method blank.

- RICODR-1_SEC1_20120912 (Lab ID: 60128975001)
  - Calcium, Dissolved
- RICODR-1_SEC2_20120912 (Lab ID: 60128975002)
  - Calcium, Dissolved
- RICODR-1_SEC3_20120912 (Lab ID: 60128975003)
  - Calcium, Dissolved
- RICODR-1_SEC4_20120912 (Lab ID: 60128975004)
  - Calcium, Dissolved
- RICODR-1_SEC5_20120912 (Lab ID: 60128975005)
  - Calcium, Dissolved
- RICODR-1_SEC6_20120912 (Lab ID: 60128975006)
  - Calcium, Dissolved
- RICODR-2_SEC1_20120912 (Lab ID: 60128975007)
  - Calcium, Dissolved

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

PROJECT NARRATIVE

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Method: **EPA 200.7**
Description: 200.7 Potentially Diss. Metals
Client: BP Anderson Engineering Company Inc.
Date: November 05, 2012

Analyte Comments:

QC Batch: MPRP/19590

B: Analyte was detected in the associated method blank.

- RICODR-2_SEC2_20120912 (Lab ID: 60128975008)
  - Calcium, Dissolved
- RICODR-2_SEC3_20120912 (Lab ID: 60128975009)
  - Calcium, Dissolved
- RICODR-2_SEC4_20120912 (Lab ID: 60128975010)
  - Calcium, Dissolved
- RICODR-2_SEC5_20120912 (Lab ID: 60128975011)
  - Calcium, Dissolved
- RICODR-2_SEC6_20120912 (Lab ID: 60128975012)
  - Calcium, Dissolved
- RICODR-7_SEC1_20120912 (Lab ID: 60128975013)
  - Calcium, Dissolved
- RICODR-7_SEC2_20120912 (Lab ID: 60128975014)
  - Calcium, Dissolved
- RICODR-7_SEC3_20120912 (Lab ID: 60128975015)
  - Calcium, Dissolved
- RICODR-7_SEC4_20120912 (Lab ID: 60128975016)
  - Calcium, Dissolved
- RICODR-7_SEC5_20120912 (Lab ID: 60128975017)
  - Calcium, Dissolved
- RICODR-7_SEC6_20120912 (Lab ID: 60128975018)
  - Calcium, Dissolved
- RICODR-7_SEC7_20120912 (Lab ID: 60128975019)
  - Calcium, Dissolved
- RICODR-7_SEC8_20120912 (Lab ID: 60128975020)
  - Calcium, Dissolved

QC Batch: MPRP/19591

B: Analyte was detected in the associated method blank.

- RICODR-4-SW_SEC1_20120912 (Lab ID: 60128975021)
  - Calcium, Dissolved
- RICODR-4-SW_SEC2_20120912 (Lab ID: 60128975022)
  - Calcium, Dissolved
- RICODR-4-SW_SEC3_20120912 (Lab ID: 60128975023)
  - Calcium, Dissolved
- RICODR-4-SW_SEC4_20120912 (Lab ID: 60128975024)
  - Calcium, Dissolved
- RICODR-4-SW_SEC5_20120912 (Lab ID: 60128975025)
  - Calcium, Dissolved
- RICODR-4-SW_SEC6_20120912 (Lab ID: 60128975026)
  - Calcium, Dissolved
- RICODR-4-SW_SEC7_20120912 (Lab ID: 60128975027)
  - Calcium, Dissolved

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

PROJECT NARRATIVE

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Method: **EPA 200.8**
Description: 200.8 MET ICPMS
Client: BP Anderson Engineering Company Inc.
Date: November 05, 2012

General Information:
27 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.

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 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: ICPM/35240

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60128975001,60128986020

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

- MS (Lab ID: 1290936)
  - Aluminum
  - Calcium
  - Silica
  - Sodium
  - Total Hardness by 2340B
- MS (Lab ID: 1290938)
  - Aluminum
  - Total Hardness by 2340B
  - Zinc
- MSD (Lab ID: 1290937)
  - Calcium
  - Silica
  - Sodium
  - Total Hardness by 2340B
  - Zinc

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

PROJECT NARRATIVE

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Method: **EPA 200.8**
Description: 200.8 MET ICPMS
Client: BP Anderson Engineering Company Inc.
Date: November 05, 2012

QC Batch: ICPM/35241

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60128975009,60128975019

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

- MS (Lab ID: 1290941)
  - Aluminum
  - Calcium
  - Silica
- MS (Lab ID: 1290943)
  - Aluminum
  - Calcium
  - Iron
  - Total Hardness by 2340B
  - Zinc
- MSD (Lab ID: 1290942)
  - Aluminum
  - Calcium
  - Silica

QC Batch: ICPM/35654

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60128986023

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

- MS (Lab ID: 1306969)
  - Silica
  - Total Hardness by 2340B
- MSD (Lab ID: 1306970)
  - Total Hardness by 2340B

Additional Comments:

Analyte Comments:

QC Batch: ICPM/35240

B: Analyte was detected in the associated method blank.

- RICODR-1_SEC1_20120912 (Lab ID: 60128975001)
  - Cadmium
  - Manganese
- RICODR-1_SEC5_20120912 (Lab ID: 60128975005)
  - Cadmium
  - Lead

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

- MS (Lab ID: 1290936)
  - Calcium
  - Zinc
- MSD (Lab ID: 1290937)
  - Calcium
  - Zinc

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

PROJECT NARRATIVE

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Method: **EPA 200.8**
Description: 200.8 MET ICPMS
Client: BP Anderson Engineering Company Inc.
Date: November 05, 2012

Analyte Comments:

QC Batch: ICPM/35240

P8: Analyte was detected in the method blank. All associated samples had concentrations of at least ten times greater than the blank or were below the reporting limit.

- BLANK (Lab ID: 1290934)
  - Cadmium

QC Batch: ICPM/35654

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

- MS (Lab ID: 1306969)
  - Calcium
- MSD (Lab ID: 1306970)
  - Calcium

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

PROJECT NARRATIVE

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Method: **EPA 200.8**
Description: 200.8 MET ICPMS, Dissolved
Client: BP Anderson Engineering Company Inc.
Date: November 05, 2012

General Information:
27 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.

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 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: ICPM/35245

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60128975008,60128975018

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

- MS (Lab ID: 1290961)
  - Aluminum, Dissolved
  - Calcium, Dissolved
- MS (Lab ID: 1290963)
  - Calcium, Dissolved
  - Sodium, Dissolved
- MSD (Lab ID: 1290962)
  - Aluminum, Dissolved

Additional Comments:

Analyte Comments:

QC Batch: ICPM/35244

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

- MS (Lab ID: 1290956)
  - Iron, Dissolved
  - Manganese, Dissolved

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

PROJECT NARRATIVE

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Method: **EPA 200.8**
Description: 200.8 MET ICPMS, Dissolved
Client: BP Anderson Engineering Company Inc.
Date: November 05, 2012

Analyte Comments:

QC Batch: ICPM/35244

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

- MS (Lab ID: 1290956)
  - Zinc, Dissolved
- MS (Lab ID: 1290958)
  - Calcium, Dissolved
  - Manganese, Dissolved
- MSD (Lab ID: 1290957)
  - Iron, Dissolved
  - Manganese, Dissolved
  - Zinc, Dissolved

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

PROJECT NARRATIVE

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Method: **EPA 200.8**
Description: 200.8 Potentially Diss. Metals
Client: BP Anderson Engineering Company Inc.
Date: November 05, 2012

General Information:
27 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 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:

Analyte Comments:

QC Batch: MPRP/19588

B: Analyte was detected in the associated method blank.

- RICODR-1_SEC1_20120912 (Lab ID: 60128975001)
  - Barium, Dissolved
  - Chromium, Dissolved
  - Iron, Dissolved
  - Manganese, Dissolved
  - Nickel, Dissolved
  - Zinc, Dissolved
- RICODR-1_SEC2_20120912 (Lab ID: 60128975002)
  - Barium, Dissolved
  - Chromium, Dissolved
  - Iron, Dissolved

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

PROJECT NARRATIVE

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Method: **EPA 200.8**
Description: 200.8 Potentially Diss. Metals
Client: BP Anderson Engineering Company Inc.
Date: November 05, 2012

Analyte Comments:

QC Batch: MPRP/19588

B: Analyte was detected in the associated method blank.

- RICODR-1_SEC2_20120912 (Lab ID: 60128975002)
  - Manganese, Dissolved
  - Nickel, Dissolved
  - Zinc, Dissolved
- RICODR-1_SEC3_20120912 (Lab ID: 60128975003)
  - Barium, Dissolved
  - Chromium, Dissolved
  - Iron, Dissolved
  - Manganese, Dissolved
  - Nickel, Dissolved
  - Zinc, Dissolved
- RICODR-1_SEC4_20120912 (Lab ID: 60128975004)
  - Barium, Dissolved
  - Chromium, Dissolved
  - Iron, Dissolved
  - Manganese, Dissolved
  - Nickel, Dissolved
  - Zinc, Dissolved
- RICODR-1_SEC5_20120912 (Lab ID: 60128975005)
  - Barium, Dissolved
  - Chromium, Dissolved
  - Iron, Dissolved
  - Manganese, Dissolved
  - Nickel, Dissolved
  - Zinc, Dissolved
- RICODR-1_SEC6_20120912 (Lab ID: 60128975006)
  - Barium, Dissolved
  - Chromium, Dissolved
  - Iron, Dissolved
  - Manganese, Dissolved
  - Nickel, Dissolved
  - Zinc, Dissolved
- RICODR-2_SEC1_20120912 (Lab ID: 60128975007)
  - Barium, Dissolved
  - Chromium, Dissolved
  - Iron, Dissolved
  - Manganese, Dissolved
  - Nickel, Dissolved
  - Zinc, Dissolved
- RICODR-2_SEC2_20120912 (Lab ID: 60128975008)
  - Barium, Dissolved
  - Chromium, Dissolved
  - Iron, Dissolved

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

PROJECT NARRATIVE

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Method: **EPA 200.8**
Description: 200.8 Potentially Diss. Metals
Client: BP Anderson Engineering Company Inc.
Date: November 05, 2012

Analyte Comments:

QC Batch: MPRP/19588

B: Analyte was detected in the associated method blank.

- RICODR-2_SEC2_20120912 (Lab ID: 60128975008)
  - Manganese, Dissolved
  - Nickel, Dissolved
  - Zinc, Dissolved
- RICODR-2_SEC3_20120912 (Lab ID: 60128975009)
  - Barium, Dissolved
  - Chromium, Dissolved
  - Iron, Dissolved
  - Manganese, Dissolved
  - Nickel, Dissolved
  - Zinc, Dissolved
- RICODR-2_SEC4_20120912 (Lab ID: 60128975010)
  - Barium, Dissolved
  - Chromium, Dissolved
  - Iron, Dissolved
  - Manganese, Dissolved
  - Nickel, Dissolved
  - Zinc, Dissolved
- RICODR-2_SEC5_20120912 (Lab ID: 60128975011)
  - Barium, Dissolved
  - Chromium, Dissolved
  - Iron, Dissolved
  - Manganese, Dissolved
  - Nickel, Dissolved
  - Zinc, Dissolved
- RICODR-2_SEC6_20120912 (Lab ID: 60128975012)
  - Barium, Dissolved
  - Chromium, Dissolved
  - Iron, Dissolved
  - Manganese, Dissolved
  - Nickel, Dissolved
  - Zinc, Dissolved
- RICODR-7_SEC1_20120912 (Lab ID: 60128975013)
  - Barium, Dissolved
  - Chromium, Dissolved
  - Iron, Dissolved
  - Manganese, Dissolved
  - Nickel, Dissolved
  - Zinc, Dissolved
- RICODR-7_SEC2_20120912 (Lab ID: 60128975014)
  - Barium, Dissolved
  - Chromium, Dissolved
  - Iron, Dissolved

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

PROJECT NARRATIVE

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Method: **EPA 200.8**
Description: 200.8 Potentially Diss. Metals
Client: BP Anderson Engineering Company Inc.
Date: November 05, 2012

Analyte Comments:

QC Batch: MPRP/19588

B: Analyte was detected in the associated method blank.

- RICODR-7_SEC2_20120912 (Lab ID: 60128975014)
  - Manganese, Dissolved
  - Nickel, Dissolved
  - Zinc, Dissolved
- RICODR-7_SEC3_20120912 (Lab ID: 60128975015)
  - Barium, Dissolved
  - Chromium, Dissolved
  - Iron, Dissolved
  - Manganese, Dissolved
  - Nickel, Dissolved
  - Zinc, Dissolved
- RICODR-7_SEC4_20120912 (Lab ID: 60128975016)
  - Barium, Dissolved
  - Chromium, Dissolved
  - Iron, Dissolved
  - Manganese, Dissolved
  - Nickel, Dissolved
  - Zinc, Dissolved
- RICODR-7_SEC5_20120912 (Lab ID: 60128975017)
  - Barium, Dissolved
  - Chromium, Dissolved
  - Iron, Dissolved
  - Manganese, Dissolved
  - Nickel, Dissolved
  - Zinc, Dissolved
- RICODR-7_SEC6_20120912 (Lab ID: 60128975018)
  - Barium, Dissolved
  - Chromium, Dissolved
  - Iron, Dissolved
  - Manganese, Dissolved
  - Nickel, Dissolved
  - Zinc, Dissolved
- RICODR-7_SEC7_20120912 (Lab ID: 60128975019)
  - Barium, Dissolved
  - Chromium, Dissolved
  - Iron, Dissolved
  - Manganese, Dissolved
  - Nickel, Dissolved
  - Zinc, Dissolved
- RICODR-7_SEC8_20120912 (Lab ID: 60128975020)
  - Barium, Dissolved
  - Chromium, Dissolved
  - Iron, Dissolved

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

PROJECT NARRATIVE

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Method: **EPA 200.8**
Description: 200.8 Potentially Diss. Metals
Client: BP Anderson Engineering Company Inc.
Date: November 05, 2012

Analyte Comments:

QC Batch: MPRP/19588

B: Analyte was detected in the associated method blank.

- RICODR-7_SEC8_20120912 (Lab ID: 60128975020)
  - Manganese, Dissolved
  - Nickel, Dissolved
  - Zinc, Dissolved

QC Batch: MPRP/19589

B: Analyte was detected in the associated method blank.

- RICODR-4-SW_SEC1_20120912 (Lab ID: 60128975021)
  - Barium, Dissolved
  - Chromium, Dissolved
  - Zinc, Dissolved
- RICODR-4-SW_SEC2_20120912 (Lab ID: 60128975022)
  - Barium, Dissolved
  - Chromium, Dissolved
  - Zinc, Dissolved
- RICODR-4-SW_SEC3_20120912 (Lab ID: 60128975023)
  - Barium, Dissolved
  - Chromium, Dissolved
  - Zinc, Dissolved
- RICODR-4-SW_SEC4_20120912 (Lab ID: 60128975024)
  - Barium, Dissolved
  - Chromium, Dissolved
  - Zinc, Dissolved
- RICODR-4-SW_SEC5_20120912 (Lab ID: 60128975025)
  - Barium, Dissolved
  - Chromium, Dissolved
  - Zinc, Dissolved
- RICODR-4-SW_SEC6_20120912 (Lab ID: 60128975026)
  - Barium, Dissolved
  - Chromium, Dissolved
  - Zinc, Dissolved
- RICODR-4-SW_SEC7_20120912 (Lab ID: 60128975027)
  - Barium, Dissolved
  - Chromium, Dissolved
  - Zinc, Dissolved

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

- RICODR-4-SW_SEC2_20120912 (Lab ID: 60128975022)
  - Vanadium, Dissolved

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

PROJECT NARRATIVE

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Method: **EPA 245.1**
Description: 245.1 Mercury
Client: BP Anderson Engineering Company Inc.
Date: November 05, 2012

General Information:
27 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.

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

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

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

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

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

Additional Comments:

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

PROJECT NARRATIVE

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Method: **EPA 245.1**
Description: 245.1 Mercury, Dissolved
Client: BP Anderson Engineering Company Inc.
Date: November 05, 2012

General Information:
27 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.

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

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

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

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

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

Additional Comments:

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

PROJECT NARRATIVE

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Method: **EPA 245.1**
Description: 245.1 Potentially Diss Mercury
Client: BP Anderson Engineering Company Inc.
Date: November 05, 2012

General Information:
27 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 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:

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

PROJECT NARRATIVE

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Method: **SM 2510B**
Description: 2510B Specific Conductance
Client: BP Anderson Engineering Company Inc.
Date: November 05, 2012

General Information:
27 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 with any exceptions noted below.

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

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

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

Additional Comments:

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

PROJECT NARRATIVE

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Method: **Calculated**
Description: Salinity
Client: BP Anderson Engineering Company Inc.
Date: November 05, 2012

General Information:
27 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 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:

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

PROJECT NARRATIVE

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Method: **SM 2320B**
Description: 2320B Alkalinity
Client: BP Anderson Engineering Company Inc.
Date: November 05, 2012

General Information:
27 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 with any exceptions noted below.

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

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

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

Additional Comments:

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

PROJECT NARRATIVE

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: BP Anderson Engineering Company Inc.
Date: November 05, 2012

General Information:
27 samples were analyzed for SM 2540C. All samples were received in acceptable condition with any exceptions noted below.

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

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

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

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

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

Additional Comments:

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

PROJECT NARRATIVE

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Method: **SM 2540D**
Description: 2540D Total Suspended Solids
Client: BP Anderson Engineering Company Inc.
Date: November 05, 2012

General Information:
27 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 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.

QC Batch: WET/37206

D6: The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.

- DUP (Lab ID: 1062689)
  - Total Suspended Solids

Additional Comments:

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

PROJECT NARRATIVE

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Method: **SM 4500-S-2 D**
Description: 4500S2D Sulfide, Total
Client: BP Anderson Engineering Company Inc.
Date: November 05, 2012

General Information:
27 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 with any exceptions noted below.

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

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

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

Additional Comments:

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

PROJECT NARRATIVE

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: BP Anderson Engineering Company Inc.
Date: November 05, 2012

General Information:
27 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

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

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

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

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

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

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

Additional Comments:

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

PROJECT NARRATIVE

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Method: **EPA 353.2**
Description: 353.2 Nitrogen, NO2/NO3 pres.
Client: BP Anderson Engineering Company Inc.
Date: November 05, 2012

General Information:
27 samples were analyzed for EPA 353.2. All samples were received in acceptable condition with any exceptions noted below.

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

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

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

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

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

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

QC Batch: WETA/21656

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60128925001,60128975009

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

- MS (Lab ID: 1061745)
  - Nitrogen, NO2 plus NO3

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

Additional Comments:

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

PROJECT NARRATIVE

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Method: **SM 4500-CN-E**
Description: 4500CNE Cyanide, Total
Client: BP Anderson Engineering Company Inc.
Date: November 05, 2012

General Information:
27 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 with any exceptions noted below.

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

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

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

Additional Comments:

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

PROJECT NARRATIVE

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Method: **SM 5310C**
Description: 5310C TOC
Client: BP Anderson Engineering Company Inc.
Date: November 05, 2012

General Information:
27 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 with any exceptions noted below.

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

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

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

Additional Comments:

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-1_SEC1_20120912 **Lab ID: 60128975001** Collected: 09/12/12 14:56 Received: 09/14/12 10:15 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	**38000**	ug/L	100	1	09/21/12 08:55	09/25/12 10:55	7440-70-2	B
Magnesium, Dissolved	**5720**	ug/L	50.0	1	09/21/12 08:55	09/25/12 10:55	7439-95-4	
Potassium, Dissolved	**544**	ug/L	500	1	09/21/12 08:55	09/25/12 10:55	7440-09-7	
Sodium, Dissolved	**2250**	ug/L	500	1	09/21/12 08:55	09/25/12 10:55	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	**392**	ug/L	20.0	5	09/26/12 13:18	10/05/12 23:47	7429-90-5	M1
Antimony	ND	ug/L	2.5	5	09/26/12 13:18	10/05/12 23:47	7440-36-0	
Arsenic	ND	ug/L	2.5	5	09/26/12 13:18	10/05/12 23:47	7440-38-2	
Barium	**68.2**	ug/L	1.5	5	09/26/12 13:18	10/05/12 23:47	7440-39-3	
Beryllium	ND	ug/L	1.0	5	09/26/12 13:18	10/05/12 23:47	7440-41-7	
Cadmium	ND	ug/L	0.080	1	09/26/12 13:18	10/07/12 03:41	7440-43-9	B
Calcium	**34500**	ug/L	100	5	09/26/12 13:18	10/05/12 23:47	7440-70-2	
Chromium	ND	ug/L	2.5	5	09/26/12 13:18	10/05/12 23:47	7440-47-3	
Cobalt	ND	ug/L	2.5	5	09/26/12 13:18	10/05/12 23:47	7440-48-4	
Copper	ND	ug/L	2.5	5	09/26/12 13:18	10/05/12 23:47	7440-50-8	
Iron	**300**	ug/L	250	5	09/26/12 13:18	10/05/12 23:47	7439-89-6	
Lead	**0.39**	ug/L	0.10	1	09/26/12 13:18	10/08/12 07:26	7439-92-1	
Magnesium	**5820**	ug/L	5.0	1	09/26/12 13:18	10/06/12 15:17	7439-95-4	M6
Manganese	**15.2**	ug/L	2.5	5	09/26/12 13:18	10/05/12 23:47	7439-96-5	B
Molybdenum	ND	ug/L	2.5	5	09/26/12 13:18	10/05/12 23:47	7439-98-7	
Nickel	ND	ug/L	2.5	5	09/26/12 13:18	10/05/12 23:47	7440-02-0	
Potassium	**857**	ug/L	20.0	1	09/26/12 13:18	10/06/12 15:17	7440-09-7	
Selenium	ND	ug/L	2.5	5	09/26/12 13:18	10/05/12 23:47	7782-49-2	
Silica	**8010**	ug/L	268	5	09/26/12 13:18	10/05/12 23:47	7631-86-9	
Silver	ND	ug/L	2.5	5	09/26/12 13:18	10/05/12 23:47	7440-22-4	
Sodium	**2380**	ug/L	250	5	09/26/12 13:18	10/05/12 23:47	7440-23-5	
Thallium	ND	ug/L	0.50	5	09/26/12 13:18	10/05/12 23:47	7440-28-0	
Total Hardness by 2340B	**110000**	ug/L	355	5	09/26/12 13:18	10/05/12 23:47		
Vanadium	**1.1**	ug/L	0.50	5	09/26/12 13:18	10/05/12 23:47	7440-62-2	
Zinc	**32.8**	ug/L	25.0	5	09/26/12 13:18	10/05/12 23:47	7440-66-6	M1
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	**5.7**	ug/L	4.0	1	09/27/12 15:11	10/08/12 01:54	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/08/12 01:54	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/08/12 01:54	7440-38-2	
Barium, Dissolved	**65.8**	ug/L	0.30	1	09/27/12 15:11	10/08/12 01:54	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	09/27/12 15:11	10/08/12 01:54	7440-41-7	
Cadmium, Dissolved	ND	ug/L	0.080	1	09/27/12 15:11	10/08/12 01:54	7440-43-9	
Calcium, Dissolved	**42100**	ug/L	100	5	09/27/12 15:11	10/08/12 02:00	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/08/12 01:54	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/08/12 01:54	7440-48-4	
Copper, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/08/12 01:54	7440-50-8	
Iron, Dissolved	ND	ug/L	50.0	1	09/27/12 15:11	10/08/12 01:54	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	09/27/12 15:11	10/08/12 01:54	7439-92-1	
Magnesium, Dissolved	**5900**	ug/L	5.0	1	09/27/12 15:11	10/08/12 01:54	7439-95-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-1_SEC1_20120912 **Lab ID: 60128975001** Collected: 09/12/12 14:56 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	**8.0**	ug/L	0.50	1	09/27/12 15:11	10/08/12 01:54	7439-96-5	
Molybdenum, Dissolved	**0.99**	ug/L	0.50	1	09/27/12 15:11	10/08/12 01:54	7439-98-7	
Nickel, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/08/12 01:54	7440-02-0	
Potassium, Dissolved	**701**	ug/L	20.0	1	09/27/12 15:11	10/08/12 01:54	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/08/12 01:54	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/08/12 01:54	7440-22-4	
Sodium, Dissolved	**2450**	ug/L	50.0	1	09/27/12 15:11	10/08/12 01:54	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/27/12 15:11	10/08/12 01:54	7440-28-0	
Vanadium, Dissolved	**0.13**	ug/L	0.10	1	09/27/12 15:11	10/08/12 01:54	7440-62-2	
Zinc, Dissolved	ND	ug/L	5.0	1	09/27/12 15:11	10/08/12 01:54	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**50.9**	ug/L	50.0	1	09/21/12 08:45	09/24/12 15:33	7429-90-5	
Antimony, Dissolved	**0.089J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:04	7440-36-0	
Arsenic, Dissolved	**0.31J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:04	7440-38-2	
Barium, Dissolved	**66.2**	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:04	7440-39-3	B
Beryllium, Dissolved	ND	ug/L	0.50	1	09/21/12 08:45	09/24/12 15:33	7440-41-7	
Cadmium, Dissolved	ND	ug/L	0.50	1	09/21/12 08:45	09/24/12 11:04	7440-43-9	
Chromium, Dissolved	**1.1**	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:04	7440-47-3	B
Cobalt, Dissolved	**0.15J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:04	7440-48-4	
Copper, Dissolved	**4.2**	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:04	7440-50-8	
Iron, Dissolved	**121**	ug/L	50.0	1	09/21/12 08:45	09/24/12 11:04	7439-89-6	B
Lead, Dissolved	**1.3**	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:04	7439-92-1	
Manganese, Dissolved	**14.9**	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:04	7439-96-5	B
Molybdenum, Dissolved	**1.0**	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:04	7439-98-7	
Nickel, Dissolved	**0.65J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:04	7440-02-0	B
Selenium, Dissolved	**0.44J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:04	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/21/12 08:45	09/24/12 11:04	7440-22-4	
Thallium, Dissolved	**0.059J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:04	7440-28-0	
Vanadium, Dissolved	ND	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:04	7440-62-2	
Zinc, Dissolved	**7.2J**	ug/L	10.0	1	09/21/12 08:45	09/24/12 11:04	7440-66-6	B
245.1 Mercury	Analytical Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/26/12 15:18	10/02/12 14:07	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/20/12 15:00	10/03/12 14:14	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	09/20/12 16:10	09/21/12 09:57	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**258**	umhos/cm	10.0	1		09/20/12 14:36		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-1_SEC1_20120912 **Lab ID: 60128975001** Collected: 09/12/12 14:56 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**165**	mg/L	6.0	1		09/20/12 17:17		
Salinity (as seawater)	**0.12**	PSU	0.010	1		09/20/12 17:17		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**78.0**	mg/L	20.0	1		09/20/12 11:01		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/20/12 11:01		
Alkalinity, Total as CaCO3	**78.0**	mg/L	20.0	1		09/20/12 11:01		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**152**	mg/L	5.0	1		09/17/12 15:01		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**8.0**	mg/L	5.0	1		09/18/12 10:30		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/17/12 15:28	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.1**	mg/L	1.0	1		09/23/12 13:16	16887-00-6	
Sulfate	**49.5**	mg/L	10.0	10		09/21/12 20:31	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**0.31**	mg/L	0.10	1		09/17/12 11:57		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/24/12 13:55	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		09/24/12 19:29	7440-44-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-1_SEC2_20120912 **Lab ID: 60128975002** Collected: 09/12/12 14:56 Received: 09/14/12 10:15 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	**38200**	ug/L	100	1	09/21/12 08:55	09/25/12 10:57	7440-70-2	B
Magnesium, Dissolved	**5740**	ug/L	50.0	1	09/21/12 08:55	09/25/12 10:57	7439-95-4	
Potassium, Dissolved	**432J**	ug/L	500	1	09/21/12 08:55	09/25/12 10:57	7440-09-7	
Sodium, Dissolved	**2270**	ug/L	500	1	09/21/12 08:55	09/25/12 10:57	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	**116**	ug/L	4.0	1	10/11/12 13:57	10/12/12 10:24	7429-90-5	
Antimony	ND	ug/L	0.50	1	10/11/12 13:57	10/12/12 10:24	7440-36-0	
Arsenic	ND	ug/L	0.50	1	10/11/12 13:57	10/12/12 10:24	7440-38-2	
Barium	**67.0**	ug/L	0.30	1	10/11/12 13:57	10/12/12 10:24	7440-39-3	
Beryllium	ND	ug/L	0.20	1	10/11/12 13:57	10/12/12 10:24	7440-41-7	
Cadmium	ND	ug/L	0.080	1	10/11/12 13:57	10/12/12 10:24	7440-43-9	
Calcium	**41000**	ug/L	100	5	10/11/12 13:57	10/12/12 10:28	7440-70-2	
Chromium	ND	ug/L	0.50	1	10/11/12 13:57	10/12/12 10:24	7440-47-3	
Cobalt	ND	ug/L	0.50	1	10/11/12 13:57	10/12/12 10:24	7440-48-4	
Copper	**0.71**	ug/L	0.50	1	10/11/12 13:57	10/12/12 10:24	7440-50-8	
Iron	**237**	ug/L	50.0	1	10/11/12 13:57	10/12/12 10:24	7439-89-6	
Lead	**0.30**	ug/L	0.10	1	10/11/12 13:57	10/12/12 10:24	7439-92-1	
Magnesium	**5940**	ug/L	5.0	1	10/11/12 13:57	10/12/12 10:24	7439-95-4	
Manganese	**14.9**	ug/L	0.50	1	10/11/12 13:57	10/12/12 10:24	7439-96-5	
Molybdenum	**0.92**	ug/L	0.50	1	10/11/12 13:57	10/12/12 10:24	7439-98-7	
Nickel	ND	ug/L	0.50	1	10/11/12 13:57	10/12/12 10:24	7440-02-0	
Potassium	**731**	ug/L	20.0	1	10/11/12 13:57	10/12/12 10:24	7440-09-7	
Selenium	**0.55**	ug/L	0.50	1	10/11/12 13:57	10/12/12 10:24	7782-49-2	
Silica	**6350**	ug/L	268	5	10/11/12 13:57	10/12/12 10:28	7631-86-9	
Silver	ND	ug/L	0.50	1	10/11/12 13:57	10/12/12 10:24	7440-22-4	
Sodium	**2450**	ug/L	50.0	1	10/11/12 13:57	10/12/12 10:24	7440-23-5	
Thallium	ND	ug/L	0.10	1	10/11/12 13:57	10/12/12 10:24	7440-28-0	
Total Hardness by 2340B	**127000**	ug/L	355	5	10/11/12 13:57	10/12/12 10:28		
Vanadium	**0.44**	ug/L	0.10	1	10/11/12 13:57	10/12/12 10:24	7440-62-2	
Zinc	ND	ug/L	5.0	1	10/11/12 13:57	10/12/12 10:24	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	**37.0**	ug/L	4.0	1	09/27/12 15:11	10/08/12 02:06	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/08/12 02:06	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/08/12 02:06	7440-38-2	
Barium, Dissolved	**65.8**	ug/L	0.30	1	09/27/12 15:11	10/08/12 02:06	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	09/27/12 15:11	10/08/12 02:06	7440-41-7	
Cadmium, Dissolved	**0.12**	ug/L	0.080	1	09/27/12 15:11	10/08/12 02:06	7440-43-9	
Calcium, Dissolved	**41000**	ug/L	100	5	09/27/12 15:11	10/08/12 02:12	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/08/12 02:06	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/08/12 02:06	7440-48-4	
Copper, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/08/12 02:06	7440-50-8	
Iron, Dissolved	ND	ug/L	50.0	1	09/27/12 15:11	10/08/12 02:06	7439-89-6	
Lead, Dissolved	**0.13**	ug/L	0.10	1	09/27/12 15:11	10/08/12 02:06	7439-92-1	
Magnesium, Dissolved	**5810**	ug/L	5.0	1	09/27/12 15:11	10/08/12 02:06	7439-95-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-1_SEC2_20120912 **Lab ID: 60128975002** Collected: 09/12/12 14:56 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	**9.1**	ug/L	0.50	1	09/27/12 15:11	10/08/12 02:06	7439-96-5	
Molybdenum, Dissolved	**0.92**	ug/L	0.50	1	09/27/12 15:11	10/08/12 02:06	7439-98-7	
Nickel, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/08/12 02:06	7440-02-0	
Potassium, Dissolved	**698**	ug/L	20.0	1	09/27/12 15:11	10/08/12 02:06	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/08/12 02:06	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/08/12 02:06	7440-22-4	
Sodium, Dissolved	**2420**	ug/L	50.0	1	09/27/12 15:11	10/08/12 02:06	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/27/12 15:11	10/08/12 02:06	7440-28-0	
Vanadium, Dissolved	**0.20**	ug/L	0.10	1	09/27/12 15:11	10/08/12 02:06	7440-62-2	
Zinc, Dissolved	ND	ug/L	5.0	1	09/27/12 15:11	10/08/12 02:06	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**40.7J**	ug/L	50.0	1	09/21/12 08:45	09/24/12 15:35	7429-90-5	
Antimony, Dissolved	**0.071J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:08	7440-36-0	
Arsenic, Dissolved	**0.18J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:08	7440-38-2	
Barium, Dissolved	**64.7**	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:08	7440-39-3	B
Beryllium, Dissolved	ND	ug/L	0.50	1	09/21/12 08:45	09/24/12 15:35	7440-41-7	
Cadmium, Dissolved	ND	ug/L	0.50	1	09/21/12 08:45	09/24/12 11:08	7440-43-9	
Chromium, Dissolved	**0.53J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:08	7440-47-3	B
Cobalt, Dissolved	**0.10J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:08	7440-48-4	
Copper, Dissolved	**1.1**	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:08	7440-50-8	
Iron, Dissolved	**109**	ug/L	50.0	1	09/21/12 08:45	09/24/12 11:08	7439-89-6	B
Lead, Dissolved	**0.26J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:08	7439-92-1	
Manganese, Dissolved	**14.0**	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:08	7439-96-5	B
Molybdenum, Dissolved	**0.93J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:08	7439-98-7	
Nickel, Dissolved	**0.53J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:08	7440-02-0	B
Selenium, Dissolved	**0.42J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:08	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/21/12 08:45	09/24/12 11:08	7440-22-4	
Thallium, Dissolved	ND	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:08	7440-28-0	
Vanadium, Dissolved	ND	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:08	7440-62-2	
Zinc, Dissolved	**3.8J**	ug/L	10.0	1	09/21/12 08:45	09/24/12 11:08	7440-66-6	B
245.1 Mercury	Analytical Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/26/12 15:18	10/02/12 14:09	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/20/12 15:00	10/03/12 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	09/20/12 16:10	09/21/12 10:04	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**261**	umhos/cm	10.0	1		09/20/12 14:37		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-1_SEC2_20120912 **Lab ID: 60128975002** Collected: 09/12/12 14:56 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**167**	mg/L	6.0	1		09/20/12 17:17		
Salinity (as seawater)	**0.13**	PSU	0.010	1		09/20/12 17:17		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**78.1**	mg/L	20.0	1		09/20/12 11:09		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/20/12 11:09		
Alkalinity, Total as CaCO3	**78.1**	mg/L	20.0	1		09/20/12 11:09		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**155**	mg/L	5.0	1		09/17/12 15:02		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**6.0**	mg/L	5.0	1		09/18/12 10:30		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/17/12 15:28	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.1**	mg/L	1.0	1		09/23/12 14:03	16887-00-6	
Sulfate	**49.0**	mg/L	10.0	10		09/21/12 21:06	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/17/12 11:59		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/24/12 13:58	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		09/24/12 19:43	7440-44-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-1_SEC3_20120912 **Lab ID: 60128975003** Collected: 09/12/12 14:56 Received: 09/14/12 10:15 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	**38200**	ug/L	100	1	09/21/12 08:55	09/25/12 11:00	7440-70-2	B
Magnesium, Dissolved	**5790**	ug/L	50.0	1	09/21/12 08:55	09/25/12 11:00	7439-95-4	
Potassium, Dissolved	**542**	ug/L	500	1	09/21/12 08:55	09/25/12 11:00	7440-09-7	
Sodium, Dissolved	**2270**	ug/L	500	1	09/21/12 08:55	09/25/12 11:00	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	**108**	ug/L	4.0	1	10/11/12 13:57	10/12/12 10:33	7429-90-5	
Antimony	ND	ug/L	0.50	1	10/11/12 13:57	10/12/12 10:33	7440-36-0	
Arsenic	ND	ug/L	0.50	1	10/11/12 13:57	10/12/12 10:33	7440-38-2	
Barium	**66.3**	ug/L	0.30	1	10/11/12 13:57	10/12/12 10:33	7440-39-3	
Beryllium	ND	ug/L	0.20	1	10/11/12 13:57	10/12/12 10:33	7440-41-7	
Cadmium	ND	ug/L	0.080	1	10/11/12 13:57	10/12/12 10:33	7440-43-9	
Calcium	**39400**	ug/L	100	5	10/11/12 13:57	10/12/12 10:37	7440-70-2	
Chromium	**0.63**	ug/L	0.50	1	10/11/12 13:57	10/12/12 10:33	7440-47-3	
Cobalt	ND	ug/L	0.50	1	10/11/12 13:57	10/12/12 10:33	7440-48-4	
Copper	**0.88**	ug/L	0.50	1	10/11/12 13:57	10/12/12 10:33	7440-50-8	
Iron	**224**	ug/L	50.0	1	10/11/12 13:57	10/12/12 10:33	7439-89-6	
Lead	**0.30**	ug/L	0.10	1	10/11/12 13:57	10/12/12 10:33	7439-92-1	
Magnesium	**5830**	ug/L	5.0	1	10/11/12 13:57	10/12/12 10:33	7439-95-4	
Manganese	**14.5**	ug/L	0.50	1	10/11/12 13:57	10/12/12 10:33	7439-96-5	
Molybdenum	**0.81**	ug/L	0.50	1	10/11/12 13:57	10/12/12 10:33	7439-98-7	
Nickel	**0.91**	ug/L	0.50	1	10/11/12 13:57	10/12/12 10:33	7440-02-0	
Potassium	**717**	ug/L	20.0	1	10/11/12 13:57	10/12/12 10:33	7440-09-7	
Selenium	ND	ug/L	0.50	1	10/11/12 13:57	10/12/12 10:33	7782-49-2	
Silica	**6240**	ug/L	268	5	10/11/12 13:57	10/12/12 10:37	7631-86-9	
Silver	ND	ug/L	0.50	1	10/11/12 13:57	10/12/12 10:33	7440-22-4	
Sodium	**2420**	ug/L	50.0	1	10/11/12 13:57	10/12/12 10:33	7440-23-5	
Thallium	ND	ug/L	0.10	1	10/11/12 13:57	10/12/12 10:33	7440-28-0	
Total Hardness by 2340B	**122000**	ug/L	355	5	10/11/12 13:57	10/12/12 10:37		
Vanadium	**0.41**	ug/L	0.10	1	10/11/12 13:57	10/12/12 10:33	7440-62-2	
Zinc	ND	ug/L	5.0	1	10/11/12 13:57	10/12/12 10:33	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	**9.3**	ug/L	4.0	1	09/27/12 15:11	10/08/12 15:33	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/08/12 02:48	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/08/12 02:48	7440-38-2	
Barium, Dissolved	**66.1**	ug/L	0.30	1	09/27/12 15:11	10/08/12 02:48	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	09/27/12 15:11	10/08/12 02:48	7440-41-7	
Cadmium, Dissolved	ND	ug/L	0.080	1	09/27/12 15:11	10/08/12 02:48	7440-43-9	
Calcium, Dissolved	**42100**	ug/L	100	5	09/27/12 15:11	10/08/12 02:54	7440-70-2	
Chromium, Dissolved	**0.64**	ug/L	0.50	1	09/27/12 15:11	10/08/12 02:48	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/08/12 02:48	7440-48-4	
Copper, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/08/12 02:48	7440-50-8	
Iron, Dissolved	ND	ug/L	50.0	1	09/27/12 15:11	10/08/12 02:48	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	09/27/12 15:11	10/08/12 02:48	7439-92-1	
Magnesium, Dissolved	**8650**	ug/L	5.0	1	09/27/12 15:11	10/08/12 15:33	7439-95-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-1_SEC3_20120912 **Lab ID: 60128975003** Collected: 09/12/12 14:56 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	**150**	ug/L	0.50	1	09/27/12 15:11	10/08/12 15:33	7439-96-5	
Molybdenum, Dissolved	**1.0**	ug/L	0.50	1	09/27/12 15:11	10/08/12 02:48	7439-98-7	
Nickel, Dissolved	**0.60**	ug/L	0.50	1	09/27/12 15:11	10/08/12 02:48	7440-02-0	
Potassium, Dissolved	**700**	ug/L	20.0	1	09/27/12 15:11	10/08/12 02:48	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/08/12 02:48	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/08/12 02:48	7440-22-4	
Sodium, Dissolved	**2430**	ug/L	50.0	1	09/27/12 15:11	10/08/12 02:48	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/27/12 15:11	10/08/12 02:48	7440-28-0	
Vanadium, Dissolved	**0.13**	ug/L	0.10	1	09/27/12 15:11	10/08/12 02:48	7440-62-2	
Zinc, Dissolved	ND	ug/L	5.0	1	09/27/12 15:11	10/08/12 02:48	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**40.4J**	ug/L	50.0	1	09/21/12 08:45	09/24/12 15:43	7429-90-5	
Antimony, Dissolved	**0.089J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:25	7440-36-0	
Arsenic, Dissolved	**0.38J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:25	7440-38-2	
Barium, Dissolved	**65.4**	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:25	7440-39-3	B
Beryllium, Dissolved	ND	ug/L	0.50	1	09/21/12 08:45	09/24/12 15:43	7440-41-7	
Cadmium, Dissolved	ND	ug/L	0.50	1	09/21/12 08:45	09/24/12 11:25	7440-43-9	
Chromium, Dissolved	**0.73J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:25	7440-47-3	B
Cobalt, Dissolved	**0.12J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:25	7440-48-4	
Copper, Dissolved	**0.84J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:25	7440-50-8	
Iron, Dissolved	**109**	ug/L	50.0	1	09/21/12 08:45	09/24/12 11:25	7439-89-6	B
Lead, Dissolved	**1.3**	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:25	7439-92-1	
Manganese, Dissolved	**17.8**	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:25	7439-96-5	B
Molybdenum, Dissolved	**0.97J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:25	7439-98-7	
Nickel, Dissolved	**0.37J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:25	7440-02-0	B
Selenium, Dissolved	**0.43J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:25	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/21/12 08:45	09/24/12 11:25	7440-22-4	
Thallium, Dissolved	**0.056J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:25	7440-28-0	
Vanadium, Dissolved	ND	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:25	7440-62-2	
Zinc, Dissolved	**3.8J**	ug/L	10.0	1	09/21/12 08:45	09/24/12 11:25	7440-66-6	B
245.1 Mercury	Analytical Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/26/12 15:18	10/02/12 14:16	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/20/12 15:00	10/03/12 14:28	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	09/20/12 16:10	09/21/12 10:06	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**253**	umhos/cm	10.0	1		09/20/12 14:37		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-1_SEC3_20120912 **Lab ID: 60128975003** Collected: 09/12/12 14:56 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**162**	mg/L	6.0	1		09/20/12 17:17		
Salinity (as seawater)	**0.12**	PSU	0.010	1		09/20/12 17:17		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**80.8**	mg/L	20.0	1		09/20/12 11:13		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/20/12 11:13		
Alkalinity, Total as CaCO3	**80.8**	mg/L	20.0	1		09/20/12 11:13		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**165**	mg/L	5.0	1		09/17/12 15:02		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	ND	mg/L	5.0	1		09/19/12 10:16		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/17/12 15:28	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.1**	mg/L	1.0	1		09/23/12 14:19	16887-00-6	
Sulfate	**48.2**	mg/L	10.0	10		09/21/12 21:23	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/17/12 12:01		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/24/12 13:59	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		09/24/12 19:57	7440-44-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-1_SEC4_20120912 **Lab ID: 60128975004** Collected: 09/12/12 14:56 Received: 09/14/12 10:15 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	**37400**	ug/L	100	1	09/21/12 08:55	09/25/12 11:08	7440-70-2	B
Magnesium, Dissolved	**5730**	ug/L	50.0	1	09/21/12 08:55	09/25/12 11:08	7439-95-4	
Potassium, Dissolved	**468J**	ug/L	500	1	09/21/12 08:55	09/25/12 11:08	7440-09-7	
Sodium, Dissolved	**2260**	ug/L	500	1	09/21/12 08:55	09/25/12 11:08	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	**112**	ug/L	4.0	1	10/11/12 13:57	10/12/12 11:20	7429-90-5	
Antimony	ND	ug/L	0.50	1	10/11/12 13:57	10/12/12 11:20	7440-36-0	
Arsenic	ND	ug/L	0.50	1	10/11/12 13:57	10/12/12 11:20	7440-38-2	
Barium	**66.3**	ug/L	0.30	1	10/11/12 13:57	10/12/12 11:20	7440-39-3	
Beryllium	ND	ug/L	0.20	1	10/11/12 13:57	10/12/12 11:20	7440-41-7	
Cadmium	ND	ug/L	0.080	1	10/11/12 13:57	10/12/12 11:20	7440-43-9	
Calcium	**39700**	ug/L	100	5	10/11/12 13:57	10/12/12 11:24	7440-70-2	
Chromium	ND	ug/L	0.50	1	10/11/12 13:57	10/12/12 11:20	7440-47-3	
Cobalt	ND	ug/L	0.50	1	10/11/12 13:57	10/12/12 11:20	7440-48-4	
Copper	**0.70**	ug/L	0.50	1	10/11/12 13:57	10/12/12 11:20	7440-50-8	
Iron	**234**	ug/L	50.0	1	10/11/12 13:57	10/12/12 11:20	7439-89-6	
Lead	**0.28**	ug/L	0.10	1	10/11/12 13:57	10/12/12 11:20	7439-92-1	
Magnesium	**5850**	ug/L	5.0	1	10/11/12 13:57	10/12/12 11:20	7439-95-4	
Manganese	**15.0**	ug/L	0.50	1	10/11/12 13:57	10/12/12 11:20	7439-96-5	
Molybdenum	**0.80**	ug/L	0.50	1	10/11/12 13:57	10/12/12 11:20	7439-98-7	
Nickel	**0.55**	ug/L	0.50	1	10/11/12 13:57	10/12/12 11:20	7440-02-0	
Potassium	**728**	ug/L	20.0	1	10/11/12 13:57	10/12/12 11:20	7440-09-7	
Selenium	ND	ug/L	0.50	1	10/11/12 13:57	10/12/12 11:20	7782-49-2	
Silica	**6270**	ug/L	268	5	10/11/12 13:57	10/12/12 11:24	7631-86-9	
Silver	ND	ug/L	0.50	1	10/11/12 13:57	10/12/12 11:20	7440-22-4	
Sodium	**2430**	ug/L	50.0	1	10/11/12 13:57	10/12/12 11:20	7440-23-5	
Thallium	ND	ug/L	0.10	1	10/11/12 13:57	10/12/12 11:20	7440-28-0	
Total Hardness by 2340B	**123000**	ug/L	355	5	10/11/12 13:57	10/12/12 11:24		
Vanadium	**0.41**	ug/L	0.10	1	10/11/12 13:57	10/12/12 11:20	7440-62-2	
Zinc	ND	ug/L	5.0	1	10/11/12 13:57	10/12/12 11:20	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	**9.8**	ug/L	4.0	1	09/27/12 15:11	10/08/12 15:38	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/08/12 02:59	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/08/12 02:59	7440-38-2	
Barium, Dissolved	**65.2**	ug/L	0.30	1	09/27/12 15:11	10/08/12 02:59	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	09/27/12 15:11	10/08/12 02:59	7440-41-7	
Cadmium, Dissolved	ND	ug/L	0.080	1	09/27/12 15:11	10/08/12 02:59	7440-43-9	
Calcium, Dissolved	**40900**	ug/L	100	5	09/27/12 15:11	10/08/12 03:05	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/08/12 02:59	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/08/12 02:59	7440-48-4	
Copper, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/08/12 02:59	7440-50-8	
Iron, Dissolved	ND	ug/L	50.0	1	09/27/12 15:11	10/08/12 02:59	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	09/27/12 15:11	10/08/12 02:59	7439-92-1	
Magnesium, Dissolved	**8610**	ug/L	5.0	1	09/27/12 15:11	10/08/12 15:38	7439-95-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-1_SEC4_20120912 **Lab ID: 60128975004** Collected: 09/12/12 14:56 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	**149**	ug/L	0.50	1	09/27/12 15:11	10/08/12 15:38	7439-96-5	
Molybdenum, Dissolved	**0.92**	ug/L	0.50	1	09/27/12 15:11	10/08/12 02:59	7439-98-7	
Nickel, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/08/12 02:59	7440-02-0	
Potassium, Dissolved	**689**	ug/L	20.0	1	09/27/12 15:11	10/08/12 02:59	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/08/12 02:59	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/08/12 02:59	7440-22-4	
Sodium, Dissolved	**2400**	ug/L	50.0	1	09/27/12 15:11	10/08/12 02:59	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/27/12 15:11	10/08/12 02:59	7440-28-0	
Vanadium, Dissolved	**0.12**	ug/L	0.10	1	09/27/12 15:11	10/08/12 02:59	7440-62-2	
Zinc, Dissolved	ND	ug/L	5.0	1	09/27/12 15:11	10/08/12 02:59	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**42.9J**	ug/L	50.0	1	09/21/12 08:45	09/24/12 15:45	7429-90-5	
Antimony, Dissolved	**0.072J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:29	7440-36-0	
Arsenic, Dissolved	**0.29J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:29	7440-38-2	
Barium, Dissolved	**65.8**	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:29	7440-39-3	B
Beryllium, Dissolved	ND	ug/L	0.50	1	09/21/12 08:45	09/24/12 15:45	7440-41-7	
Cadmium, Dissolved	ND	ug/L	0.50	1	09/21/12 08:45	09/24/12 11:29	7440-43-9	
Chromium, Dissolved	**0.75J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:29	7440-47-3	B
Cobalt, Dissolved	**0.10J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:29	7440-48-4	
Copper, Dissolved	**0.74J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:29	7440-50-8	
Iron, Dissolved	**109**	ug/L	50.0	1	09/21/12 08:45	09/24/12 11:29	7439-89-6	B
Lead, Dissolved	**0.62J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:29	7439-92-1	
Manganese, Dissolved	**45.1**	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:29	7439-96-5	B
Molybdenum, Dissolved	**0.92J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:29	7439-98-7	
Nickel, Dissolved	**0.38J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:29	7440-02-0	B
Selenium, Dissolved	**0.45J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:29	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/21/12 08:45	09/24/12 11:29	7440-22-4	
Thallium, Dissolved	ND	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:29	7440-28-0	
Vanadium, Dissolved	ND	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:29	7440-62-2	
Zinc, Dissolved	**7.4J**	ug/L	10.0	1	09/21/12 08:45	09/24/12 11:29	7440-66-6	B
245.1 Mercury	Analytical Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/26/12 15:18	10/02/12 14:18	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/20/12 15:00	10/03/12 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	09/20/12 16:10	09/21/12 10:08	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**256**	umhos/cm	10.0	1		09/20/12 14:39		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-1_SEC4_20120912 **Lab ID: 60128975004** Collected: 09/12/12 14:56 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**164**	mg/L	6.0	1		09/20/12 17:17		
Salinity (as seawater)	**0.12**	PSU	0.010	1		09/20/12 17:17		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**77.4**	mg/L	20.0	1		09/20/12 11:17		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/20/12 11:17		
Alkalinity, Total as CaCO3	**77.4**	mg/L	20.0	1		09/20/12 11:17		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**152**	mg/L	5.0	1		09/17/12 15:02		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**6.0**	mg/L	5.0	1		09/19/12 10:17		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/17/12 15:28	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.1**	mg/L	1.0	1		09/23/12 14:34	16887-00-6	
Sulfate	**47.5**	mg/L	10.0	10		09/21/12 21:40	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/17/12 12:02		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/24/12 14:03	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		09/24/12 20:11	7440-44-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-1_SEC5_20120912 **Lab ID: 60128975005** Collected: 09/12/12 14:56 Received: 09/14/12 10:15 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	**37800**	ug/L	100	1	09/21/12 08:55	09/25/12 11:11	7440-70-2	B
Magnesium, Dissolved	**5680**	ug/L	50.0	1	09/21/12 08:55	09/25/12 11:11	7439-95-4	
Potassium, Dissolved	**509**	ug/L	500	1	09/21/12 08:55	09/25/12 11:11	7440-09-7	
Sodium, Dissolved	**2210**	ug/L	500	1	09/21/12 08:55	09/25/12 11:11	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	**146**	ug/L	4.0	1	09/26/12 13:18	10/06/12 00:34	7429-90-5	
Antimony	ND	ug/L	2.5	5	09/26/12 13:18	10/04/12 14:07	7440-36-0	
Arsenic	**2.5**	ug/L	2.5	5	09/26/12 13:18	10/04/12 14:07	7440-38-2	
Barium	**340**	ug/L	1.5	5	09/26/12 13:18	10/04/12 14:07	7440-39-3	
Beryllium	ND	ug/L	0.20	1	09/26/12 13:18	10/06/12 00:34	7440-41-7	
Cadmium	ND	ug/L	0.080	1	09/26/12 13:18	10/10/12 09:19	7440-43-9	B
Calcium	**35900**	ug/L	400	20	09/26/12 13:18	10/08/12 08:37	7440-70-2	
Chromium	**4.4**	ug/L	2.5	5	09/26/12 13:18	10/04/12 14:07	7440-47-3	
Cobalt	ND	ug/L	2.5	5	09/26/12 13:18	10/04/12 14:07	7440-48-4	
Copper	**0.60**	ug/L	0.50	1	09/26/12 13:18	10/06/12 00:34	7440-50-8	
Iron	**1340**	ug/L	250	5	09/26/12 13:18	10/04/12 14:07	7439-89-6	
Lead	ND	ug/L	0.50	5	09/26/12 13:18	10/06/12 00:40	7439-92-1	B
Magnesium	**6090**	ug/L	5.0	1	09/26/12 13:18	10/10/12 09:19	7439-95-4	
Manganese	**14.1**	ug/L	0.50	1	09/26/12 13:18	10/06/12 00:34	7439-96-5	
Molybdenum	**5.1**	ug/L	2.5	5	09/26/12 13:18	10/04/12 14:07	7439-98-7	
Nickel	**3.7**	ug/L	2.5	5	09/26/12 13:18	10/04/12 14:07	7440-02-0	
Potassium	**864**	ug/L	20.0	1	09/26/12 13:18	10/10/12 09:19	7440-09-7	
Selenium	ND	ug/L	2.5	5	09/26/12 13:18	10/04/12 14:07	7782-49-2	
Silica	**6240**	ug/L	1070	20	09/26/12 13:18	10/08/12 08:37	7631-86-9	
Silver	ND	ug/L	2.5	5	09/26/12 13:18	10/04/12 14:07	7440-22-4	
Sodium	**12100**	ug/L	250	5	09/26/12 13:18	10/04/12 14:07	7440-23-5	
Thallium	ND	ug/L	0.50	5	09/26/12 13:18	10/04/12 14:07	7440-28-0	
Total Hardness by 2340B	**115000**	ug/L	1420	20	09/26/12 13:18	10/08/12 08:37		
Vanadium	**0.47**	ug/L	0.10	1	09/26/12 13:18	10/06/12 00:34	7440-62-2	
Zinc	ND	ug/L	5.0	1	09/26/12 13:18	10/06/12 00:34	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	**6.9**	ug/L	4.0	1	09/27/12 15:11	10/08/12 15:44	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/08/12 03:11	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/08/12 03:11	7440-38-2	
Barium, Dissolved	**65.8**	ug/L	0.30	1	09/27/12 15:11	10/08/12 03:11	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	09/27/12 15:11	10/08/12 03:11	7440-41-7	
Cadmium, Dissolved	ND	ug/L	0.080	1	09/27/12 15:11	10/08/12 03:11	7440-43-9	
Calcium, Dissolved	**41700**	ug/L	100	5	09/27/12 15:11	10/08/12 03:17	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/08/12 03:11	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/08/12 03:11	7440-48-4	
Copper, Dissolved	**0.69**	ug/L	0.50	1	09/27/12 15:11	10/08/12 03:11	7440-50-8	
Iron, Dissolved	ND	ug/L	50.0	1	09/27/12 15:11	10/08/12 03:11	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	09/27/12 15:11	10/08/12 03:11	7439-92-1	
Magnesium, Dissolved	**8640**	ug/L	5.0	1	09/27/12 15:11	10/08/12 15:44	7439-95-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-1_SEC5_20120912 **Lab ID: 60128975005** Collected: 09/12/12 14:56 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	**149**	ug/L	0.50	1	09/27/12 15:11	10/08/12 15:44	7439-96-5	
Molybdenum, Dissolved	**0.91**	ug/L	0.50	1	09/27/12 15:11	10/08/12 03:11	7439-98-7	
Nickel, Dissolved	**0.90**	ug/L	0.50	1	09/27/12 15:11	10/08/12 03:11	7440-02-0	
Potassium, Dissolved	**698**	ug/L	20.0	1	09/27/12 15:11	10/08/12 03:11	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/08/12 03:11	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/08/12 03:11	7440-22-4	
Sodium, Dissolved	**2430**	ug/L	50.0	1	09/27/12 15:11	10/08/12 03:11	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/27/12 15:11	10/08/12 03:11	7440-28-0	
Vanadium, Dissolved	**0.14**	ug/L	0.10	1	09/27/12 15:11	10/08/12 03:11	7440-62-2	
Zinc, Dissolved	ND	ug/L	5.0	1	09/27/12 15:11	10/08/12 03:11	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**41.6J**	ug/L	50.0	1	09/21/12 08:45	09/24/12 15:47	7429-90-5	
Antimony, Dissolved	**0.090J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:33	7440-36-0	
Arsenic, Dissolved	**0.25J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:33	7440-38-2	
Barium, Dissolved	**64.5**	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:33	7440-39-3	B
Beryllium, Dissolved	ND	ug/L	0.50	1	09/21/12 08:45	09/24/12 15:47	7440-41-7	
Cadmium, Dissolved	ND	ug/L	0.50	1	09/21/12 08:45	09/24/12 11:33	7440-43-9	
Chromium, Dissolved	**1.1**	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:33	7440-47-3	B
Cobalt, Dissolved	**0.13J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:33	7440-48-4	
Copper, Dissolved	**0.85J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:33	7440-50-8	
Iron, Dissolved	**109**	ug/L	50.0	1	09/21/12 08:45	09/24/12 11:33	7439-89-6	B
Lead, Dissolved	**0.36J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:33	7439-92-1	
Manganese, Dissolved	**13.6**	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:33	7439-96-5	B
Molybdenum, Dissolved	**0.84J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:33	7439-98-7	
Nickel, Dissolved	**0.57J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:33	7440-02-0	B
Selenium, Dissolved	**0.45J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:33	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/21/12 08:45	09/24/12 11:33	7440-22-4	
Thallium, Dissolved	ND	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:33	7440-28-0	
Vanadium, Dissolved	ND	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:33	7440-62-2	
Zinc, Dissolved	**3.1J**	ug/L	10.0	1	09/21/12 08:45	09/24/12 11:33	7440-66-6	B
245.1 Mercury	Analytical Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/26/12 15:18	10/02/12 14:20	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/20/12 15:00	10/03/12 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	09/20/12 16:10	09/21/12 10:17	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**261**	umhos/cm	10.0	1		09/20/12 14:40		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-1_SEC5_20120912 **Lab ID: 60128975005** Collected: 09/12/12 14:56 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**167**	mg/L	6.0	1		09/20/12 17:17		
Salinity (as seawater)	**0.13**	PSU	0.010	1		09/20/12 17:17		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**80.2**	mg/L	20.0	1		09/20/12 11:22		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/20/12 11:22		
Alkalinity, Total as CaCO3	**80.2**	mg/L	20.0	1		09/20/12 11:22		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**152**	mg/L	5.0	1		09/17/12 15:03		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**6.0**	mg/L	5.0	1		09/19/12 10:17		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/17/12 15:28	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.1**	mg/L	1.0	1		09/23/12 14:50	16887-00-6	
Sulfate	**49.3**	mg/L	10.0	10		09/21/12 21:58	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/17/12 12:03		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/24/12 14:04	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.1**	mg/L	1.0	1		09/24/12 20:25	7440-44-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-1_SEC6_20120912 **Lab ID: 60128975006** Collected: 09/12/12 14:56 Received: 09/14/12 10:15 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	**37500**	ug/L	100	1	09/21/12 08:55	09/25/12 11:17	7440-70-2	B
Magnesium, Dissolved	**5640**	ug/L	50.0	1	09/21/12 08:55	09/25/12 11:17	7439-95-4	
Potassium, Dissolved	**597**	ug/L	500	1	09/21/12 08:55	09/25/12 11:17	7440-09-7	
Sodium, Dissolved	**2210**	ug/L	500	1	09/21/12 08:55	09/25/12 11:17	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	**104**	ug/L	4.0	1	10/11/12 13:57	10/12/12 11:29	7429-90-5	
Antimony	ND	ug/L	0.50	1	10/11/12 13:57	10/12/12 11:29	7440-36-0	
Arsenic	ND	ug/L	0.50	1	10/11/12 13:57	10/12/12 11:29	7440-38-2	
Barium	**65.8**	ug/L	0.30	1	10/11/12 13:57	10/12/12 11:29	7440-39-3	
Beryllium	ND	ug/L	0.20	1	10/11/12 13:57	10/12/12 11:29	7440-41-7	
Cadmium	ND	ug/L	0.080	1	10/11/12 13:57	10/12/12 11:29	7440-43-9	
Calcium	**40300**	ug/L	100	5	10/11/12 13:57	10/12/12 11:33	7440-70-2	
Chromium	ND	ug/L	0.50	1	10/11/12 13:57	10/12/12 11:29	7440-47-3	
Cobalt	ND	ug/L	0.50	1	10/11/12 13:57	10/12/12 11:29	7440-48-4	
Copper	**0.69**	ug/L	0.50	1	10/11/12 13:57	10/12/12 11:29	7440-50-8	
Iron	**220**	ug/L	50.0	1	10/11/12 13:57	10/12/12 11:29	7439-89-6	
Lead	**0.28**	ug/L	0.10	1	10/11/12 13:57	10/12/12 11:29	7439-92-1	
Magnesium	**5820**	ug/L	5.0	1	10/11/12 13:57	10/12/12 11:29	7439-95-4	
Manganese	**13.8**	ug/L	0.50	1	10/11/12 13:57	10/12/12 11:29	7439-96-5	
Molybdenum	**0.79**	ug/L	0.50	1	10/11/12 13:57	10/12/12 11:29	7439-98-7	
Nickel	**0.55**	ug/L	0.50	1	10/11/12 13:57	10/12/12 11:29	7440-02-0	
Potassium	**723**	ug/L	20.0	1	10/11/12 13:57	10/12/12 11:29	7440-09-7	
Selenium	**0.57**	ug/L	0.50	1	10/11/12 13:57	10/12/12 11:29	7782-49-2	
Silica	**6230**	ug/L	268	5	10/11/12 13:57	10/12/12 11:33	7631-86-9	
Silver	ND	ug/L	0.50	1	10/11/12 13:57	10/12/12 11:29	7440-22-4	
Sodium	**2420**	ug/L	50.0	1	10/11/12 13:57	10/12/12 11:29	7440-23-5	
Thallium	ND	ug/L	0.10	1	10/11/12 13:57	10/12/12 11:29	7440-28-0	
Total Hardness by 2340B	**125000**	ug/L	355	5	10/11/12 13:57	10/12/12 11:33		
Vanadium	**0.41**	ug/L	0.10	1	10/11/12 13:57	10/12/12 11:29	7440-62-2	
Zinc	ND	ug/L	5.0	1	10/11/12 13:57	10/12/12 11:29	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	**5.8**	ug/L	4.0	1	09/27/12 15:11	10/07/12 05:48	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/07/12 05:48	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/07/12 05:48	7440-38-2	
Barium, Dissolved	**64.8**	ug/L	0.30	1	09/27/12 15:11	10/07/12 05:48	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	09/27/12 15:11	10/07/12 05:48	7440-41-7	
Cadmium, Dissolved	ND	ug/L	0.080	1	09/27/12 15:11	10/07/12 05:48	7440-43-9	
Calcium, Dissolved	**43400**	ug/L	400	20	09/27/12 15:11	10/07/12 05:53	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/07/12 05:48	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/07/12 05:48	7440-48-4	
Copper, Dissolved	**0.85**	ug/L	0.50	1	09/27/12 15:11	10/07/12 05:48	7440-50-8	
Iron, Dissolved	ND	ug/L	50.0	1	09/27/12 15:11	10/07/12 05:48	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	09/27/12 15:11	10/07/12 05:48	7439-92-1	
Magnesium, Dissolved	**6040**	ug/L	100	20	09/27/12 15:11	10/07/12 05:53	7439-95-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-1_SEC6_20120912 **Lab ID: 60128975006** Collected: 09/12/12 14:56 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	**8.7**	ug/L	0.50	1	09/27/12 15:11	10/07/12 05:48	7439-96-5	
Molybdenum, Dissolved	**0.90**	ug/L	0.50	1	09/27/12 15:11	10/07/12 05:48	7439-98-7	
Nickel, Dissolved	**2.2**	ug/L	0.50	1	09/27/12 15:11	10/07/12 05:48	7440-02-0	
Potassium, Dissolved	**744**	ug/L	20.0	1	09/27/12 15:11	10/07/12 05:48	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/07/12 05:48	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/07/12 05:48	7440-22-4	
Sodium, Dissolved	**2560**	ug/L	50.0	1	09/27/12 15:11	10/07/12 05:48	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/27/12 15:11	10/07/12 05:48	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	09/27/12 15:11	10/07/12 05:48	7440-62-2	
Zinc, Dissolved	ND	ug/L	5.0	1	09/27/12 15:11	10/07/12 05:48	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**44.4J**	ug/L	50.0	1	09/21/12 08:45	09/24/12 15:54	7429-90-5	
Antimony, Dissolved	**0.071J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:59	7440-36-0	
Arsenic, Dissolved	**0.36J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:59	7440-38-2	
Barium, Dissolved	**65.2**	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:59	7440-39-3	B
Beryllium, Dissolved	ND	ug/L	0.50	1	09/21/12 08:45	09/24/12 15:54	7440-41-7	
Cadmium, Dissolved	ND	ug/L	0.50	1	09/21/12 08:45	09/24/12 11:59	7440-43-9	
Chromium, Dissolved	**0.65J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:59	7440-47-3	B
Cobalt, Dissolved	**0.12J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:59	7440-48-4	
Copper, Dissolved	**1.2**	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:59	7440-50-8	
Iron, Dissolved	**105**	ug/L	50.0	1	09/21/12 08:45	09/24/12 11:59	7439-89-6	B
Lead, Dissolved	**0.29J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:59	7439-92-1	
Manganese, Dissolved	**14.3**	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:59	7439-96-5	B
Molybdenum, Dissolved	**0.86J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:59	7439-98-7	
Nickel, Dissolved	**0.51J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:59	7440-02-0	B
Selenium, Dissolved	**0.40J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:59	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/21/12 08:45	09/24/12 11:59	7440-22-4	
Thallium, Dissolved	ND	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:59	7440-28-0	
Vanadium, Dissolved	ND	ug/L	1.0	1	09/21/12 08:45	09/24/12 11:59	7440-62-2	
Zinc, Dissolved	**3.9J**	ug/L	10.0	1	09/21/12 08:45	09/24/12 11:59	7440-66-6	B
245.1 Mercury	Analytical Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/26/12 15:18	10/02/12 14:22	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/20/12 15:00	10/03/12 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	09/20/12 16:10	09/21/12 10:19	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**259**	umhos/cm	10.0	1		09/20/12 14:41		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-1_SEC6_20120912 **Lab ID: 60128975006** Collected: 09/12/12 14:56 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**166**	mg/L	6.0	1		09/20/12 17:17		
Salinity (as seawater)	**0.12**	PSU	0.010	1		09/20/12 17:17		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**79.9**	mg/L	20.0	1		09/20/12 11:26		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/20/12 11:26		
Alkalinity, Total as CaCO3	**79.9**	mg/L	20.0	1		09/20/12 11:26		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**149**	mg/L	5.0	1		09/17/12 15:03		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**6.0**	mg/L	5.0	1		09/19/12 10:18		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/18/12 13:45	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.1**	mg/L	1.0	1		09/23/12 15:06	16887-00-6	
Sulfate	**49.1**	mg/L	10.0	10		09/21/12 22:15	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/17/12 12:04		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/24/12 14:06	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.0**	mg/L	1.0	1		09/24/12 20:39	7440-44-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-2_SEC1_20120912 **Lab ID: 60128975007** Collected: 09/12/12 13:44 Received: 09/14/12 10:15 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	**44600**	ug/L	100	1	09/21/12 08:55	09/25/12 11:19	7440-70-2	B
Magnesium, Dissolved	**6300**	ug/L	50.0	1	09/21/12 08:55	09/25/12 11:19	7439-95-4	
Potassium, Dissolved	**534**	ug/L	500	1	09/21/12 08:55	09/25/12 11:19	7440-09-7	
Sodium, Dissolved	**2500**	ug/L	500	1	09/21/12 08:55	09/25/12 11:19	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	**192**	ug/L	4.0	1	10/11/12 13:57	10/12/12 11:48	7429-90-5	
Antimony	ND	ug/L	0.50	1	10/11/12 13:57	10/12/12 11:48	7440-36-0	
Arsenic	**0.53**	ug/L	0.50	1	10/11/12 13:57	10/12/12 11:48	7440-38-2	
Barium	**67.7**	ug/L	0.30	1	10/11/12 13:57	10/12/12 11:48	7440-39-3	
Beryllium	ND	ug/L	0.20	1	10/11/12 13:57	10/12/12 11:48	7440-41-7	
Cadmium	ND	ug/L	0.080	1	10/11/12 13:57	10/12/12 11:48	7440-43-9	
Calcium	**48000**	ug/L	100	5	10/11/12 13:57	10/12/12 11:52	7440-70-2	
Chromium	**0.76**	ug/L	0.50	1	10/11/12 13:57	10/12/12 11:48	7440-47-3	
Cobalt	ND	ug/L	0.50	1	10/11/12 13:57	10/12/12 11:48	7440-48-4	
Copper	**0.87**	ug/L	0.50	1	10/11/12 13:57	10/12/12 11:48	7440-50-8	
Iron	**391**	ug/L	50.0	1	10/11/12 13:57	10/12/12 11:48	7439-89-6	
Lead	**0.48**	ug/L	0.10	1	10/11/12 13:57	10/12/12 11:48	7439-92-1	
Magnesium	**6560**	ug/L	5.0	1	10/11/12 13:57	10/12/12 11:48	7439-95-4	
Manganese	**96.4**	ug/L	0.50	1	10/11/12 13:57	10/12/12 11:48	7439-96-5	
Molybdenum	**0.95**	ug/L	0.50	1	10/11/12 13:57	10/12/12 11:48	7439-98-7	
Nickel	**0.83**	ug/L	0.50	1	10/11/12 13:57	10/12/12 11:48	7440-02-0	
Potassium	**818**	ug/L	20.0	1	10/11/12 13:57	10/12/12 11:48	7440-09-7	
Selenium	ND	ug/L	0.50	1	10/11/12 13:57	10/12/12 11:48	7782-49-2	
Silica	**6860**	ug/L	268	5	10/11/12 13:57	10/12/12 11:52	7631-86-9	
Silver	ND	ug/L	0.50	1	10/11/12 13:57	10/12/12 11:48	7440-22-4	
Sodium	**2740**	ug/L	50.0	1	10/11/12 13:57	10/12/12 11:48	7440-23-5	
Thallium	ND	ug/L	0.10	1	10/11/12 13:57	10/12/12 11:48	7440-28-0	
Total Hardness by 2340B	**147000**	ug/L	355	5	10/11/12 13:57	10/12/12 11:52		
Vanadium	**0.59**	ug/L	0.10	1	10/11/12 13:57	10/12/12 11:48	7440-62-2	
Zinc	**6.6**	ug/L	5.0	1	10/11/12 13:57	10/12/12 11:48	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	**8.8**	ug/L	4.0	1	09/27/12 15:11	10/07/12 05:59	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/07/12 05:59	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/07/12 05:59	7440-38-2	
Barium, Dissolved	**64.5**	ug/L	0.30	1	09/27/12 15:11	10/07/12 05:59	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	09/27/12 15:11	10/07/12 05:59	7440-41-7	
Cadmium, Dissolved	ND	ug/L	0.080	1	09/27/12 15:11	10/07/12 05:59	7440-43-9	
Calcium, Dissolved	**50200**	ug/L	400	20	09/27/12 15:11	10/07/12 06:05	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/07/12 05:59	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/07/12 05:59	7440-48-4	
Copper, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/07/12 05:59	7440-50-8	
Iron, Dissolved	ND	ug/L	50.0	1	09/27/12 15:11	10/07/12 05:59	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	09/27/12 15:11	10/07/12 05:59	7439-92-1	
Magnesium, Dissolved	**6520**	ug/L	100	20	09/27/12 15:11	10/07/12 06:05	7439-95-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-2_SEC1_20120912 **Lab ID: 60128975007** Collected: 09/12/12 13:44 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	**84.5**	ug/L	0.50	1	09/27/12 15:11	10/07/12 05:59	7439-96-5	
Molybdenum, Dissolved	**1.0**	ug/L	0.50	1	09/27/12 15:11	10/07/12 05:59	7439-98-7	
Nickel, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/07/12 05:59	7440-02-0	
Potassium, Dissolved	**807**	ug/L	20.0	1	09/27/12 15:11	10/07/12 05:59	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/07/12 05:59	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/07/12 05:59	7440-22-4	
Sodium, Dissolved	**2860**	ug/L	50.0	1	09/27/12 15:11	10/07/12 05:59	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/27/12 15:11	10/07/12 05:59	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	09/27/12 15:11	10/07/12 05:59	7440-62-2	
Zinc, Dissolved	ND	ug/L	5.0	1	09/27/12 15:11	10/07/12 05:59	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	09/21/12 08:45	09/24/12 15:56	7429-90-5	
Antimony, Dissolved	**0.062J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:03	7440-36-0	
Arsenic, Dissolved	**0.36J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:03	7440-38-2	
Barium, Dissolved	**65.8**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:03	7440-39-3	B
Beryllium, Dissolved	ND	ug/L	0.50	1	09/21/12 08:45	09/24/12 15:56	7440-41-7	
Cadmium, Dissolved	ND	ug/L	0.50	1	09/21/12 08:45	09/24/12 12:03	7440-43-9	
Chromium, Dissolved	**1.0**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:03	7440-47-3	B
Cobalt, Dissolved	**0.16J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:03	7440-48-4	
Copper, Dissolved	**0.95J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:03	7440-50-8	
Iron, Dissolved	**183**	ug/L	50.0	1	09/21/12 08:45	09/24/12 12:03	7439-89-6	B
Lead, Dissolved	**0.61J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:03	7439-92-1	
Manganese, Dissolved	**95.5**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:03	7439-96-5	B
Molybdenum, Dissolved	**1.0**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:03	7439-98-7	
Nickel, Dissolved	**0.53J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:03	7440-02-0	B
Selenium, Dissolved	**0.42J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:03	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/21/12 08:45	09/24/12 12:03	7440-22-4	
Thallium, Dissolved	ND	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:03	7440-28-0	
Vanadium, Dissolved	ND	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:03	7440-62-2	
Zinc, Dissolved	**7.5J**	ug/L	10.0	1	09/21/12 08:45	09/24/12 12:03	7440-66-6	B
245.1 Mercury	Analytical Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/26/12 15:18	10/02/12 14:24	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/20/12 15:00	10/03/12 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	09/20/12 16:10	09/21/12 10:22	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**299**	umhos/cm	10.0	1		09/20/12 14:42		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-2_SEC1_20120912 **Lab ID: 60128975007** Collected: 09/12/12 13:44 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**191**	mg/L	6.0	1		09/20/12 17:17		
Salinity (as seawater)	**0.14**	PSU	0.010	1		09/20/12 17:17		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**81.4**	mg/L	20.0	1		09/20/12 11:30		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/20/12 11:30		
Alkalinity, Total as CaCO3	**81.4**	mg/L	20.0	1		09/20/12 11:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**184**	mg/L	5.0	1		09/17/12 15:03		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**11.0**	mg/L	5.0	1		09/19/12 10:18		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/18/12 14:22	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.1**	mg/L	1.0	1		09/23/12 15:53	16887-00-6	
Sulfate	**67.6**	mg/L	10.0	10		09/21/12 22:33	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/17/12 12:05		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/24/12 14:07	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.2**	mg/L	1.0	1		09/24/12 20:54	7440-44-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-2_SEC2_20120912 **Lab ID: 60128975008** Collected: 09/12/12 13:44 Received: 09/14/12 10:15 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	09/21/12 08:55	09/25/12 11:21	7440-70-2	B
Magnesium, Dissolved	**6330**	ug/L	50.0	1	09/21/12 08:55	09/25/12 11:21	7439-95-4	
Potassium, Dissolved	**580**	ug/L	500	1	09/21/12 08:55	09/25/12 11:21	7440-09-7	
Sodium, Dissolved	**2510**	ug/L	500	1	09/21/12 08:55	09/25/12 11:21	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	**21.9**	ug/L	4.0	1	10/11/12 13:57	10/12/12 11:57	7429-90-5	
Antimony	ND	ug/L	0.50	1	10/11/12 13:57	10/12/12 11:57	7440-36-0	
Arsenic	ND	ug/L	0.50	1	10/11/12 13:57	10/12/12 11:57	7440-38-2	
Barium	**64.4**	ug/L	0.30	1	10/11/12 13:57	10/12/12 11:57	7440-39-3	
Beryllium	ND	ug/L	0.20	1	10/11/12 13:57	10/12/12 11:57	7440-41-7	
Cadmium	ND	ug/L	0.080	1	10/11/12 13:57	10/12/12 11:57	7440-43-9	
Calcium	**45900**	ug/L	100	5	10/11/12 13:57	10/12/12 12:01	7440-70-2	
Chromium	ND	ug/L	0.50	1	10/11/12 13:57	10/12/12 11:57	7440-47-3	
Cobalt	ND	ug/L	0.50	1	10/11/12 13:57	10/12/12 11:57	7440-48-4	
Copper	**0.66**	ug/L	0.50	1	10/11/12 13:57	10/12/12 11:57	7440-50-8	
Iron	ND	ug/L	50.0	1	10/11/12 13:57	10/12/12 11:57	7439-89-6	
Lead	ND	ug/L	0.10	1	10/11/12 13:57	10/12/12 11:57	7439-92-1	
Magnesium	**6290**	ug/L	5.0	1	10/11/12 13:57	10/12/12 11:57	7439-95-4	
Manganese	**73.9**	ug/L	0.50	1	10/11/12 13:57	10/12/12 11:57	7439-96-5	
Molybdenum	**1.0**	ug/L	0.50	1	10/11/12 13:57	10/12/12 11:57	7439-98-7	
Nickel	**0.63**	ug/L	0.50	1	10/11/12 13:57	10/12/12 11:57	7440-02-0	
Potassium	**774**	ug/L	20.0	1	10/11/12 13:57	10/12/12 11:57	7440-09-7	
Selenium	ND	ug/L	0.50	1	10/11/12 13:57	10/12/12 11:57	7782-49-2	
Silica	**6390**	ug/L	268	5	10/11/12 13:57	10/12/12 12:01	7631-86-9	
Silver	ND	ug/L	0.50	1	10/11/12 13:57	10/12/12 11:57	7440-22-4	
Sodium	**2670**	ug/L	50.0	1	10/11/12 13:57	10/12/12 11:57	7440-23-5	
Thallium	ND	ug/L	0.10	1	10/11/12 13:57	10/12/12 11:57	7440-28-0	
Total Hardness by 2340B	**140000**	ug/L	355	5	10/11/12 13:57	10/12/12 12:01		
Vanadium	**0.19**	ug/L	0.10	1	10/11/12 13:57	10/12/12 11:57	7440-62-2	
Zinc	ND	ug/L	5.0	1	10/11/12 13:57	10/12/12 11:57	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	**203**	ug/L	4.0	1	09/27/12 20:42	10/07/12 06:52	7429-90-5	M1
Antimony, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 06:52	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 06:52	7440-38-2	
Barium, Dissolved	**71.1**	ug/L	0.30	1	09/27/12 20:42	10/07/12 06:52	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	09/27/12 20:42	10/08/12 12:03	7440-41-7	
Cadmium, Dissolved	ND	ug/L	0.080	1	09/27/12 20:42	10/07/12 06:52	7440-43-9	
Calcium, Dissolved	**51000**	ug/L	100	5	09/27/12 20:42	10/07/12 06:58	7440-70-2	M1
Chromium, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 06:52	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 06:52	7440-48-4	
Copper, Dissolved	**0.96**	ug/L	0.50	1	09/27/12 20:42	10/07/12 06:52	7440-50-8	
Iron, Dissolved	**296**	ug/L	50.0	1	09/27/12 20:42	10/07/12 06:52	7439-89-6	
Lead, Dissolved	**0.39**	ug/L	0.10	1	09/27/12 20:42	10/08/12 12:03	7439-92-1	
Magnesium, Dissolved	**6760**	ug/L	25.0	5	09/27/12 20:42	10/07/12 06:58	7439-95-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-2_SEC2_20120912 **Lab ID: 60128975008** Collected: 09/12/12 13:44 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	**89.4**	ug/L	0.50	1	09/27/12 20:42	10/07/12 06:52	7439-96-5	
Molybdenum, Dissolved	**1.1**	ug/L	0.50	1	09/27/12 20:42	10/07/12 06:52	7439-98-7	
Nickel, Dissolved	**0.64**	ug/L	0.50	1	09/27/12 20:42	10/07/12 06:52	7440-02-0	
Potassium, Dissolved	**886**	ug/L	20.0	1	09/27/12 20:42	10/07/12 06:52	7440-09-7	
Selenium, Dissolved	**0.51**	ug/L	0.50	1	09/27/12 20:42	10/07/12 06:52	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 06:52	7440-22-4	
Sodium, Dissolved	**2900**	ug/L	50.0	1	09/27/12 20:42	10/07/12 06:52	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/27/12 20:42	10/07/12 06:52	7440-28-0	
Vanadium, Dissolved	**0.56**	ug/L	0.10	1	09/27/12 20:42	10/07/12 06:52	7440-62-2	
Zinc, Dissolved	**6.1**	ug/L	5.0	1	09/27/12 20:42	10/07/12 06:52	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**66.0**	ug/L	50.0	1	09/21/12 08:45	09/24/12 15:58	7429-90-5	
Antimony, Dissolved	**0.075J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:07	7440-36-0	
Arsenic, Dissolved	**0.34J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:07	7440-38-2	
Barium, Dissolved	**68.0**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:07	7440-39-3	B
Beryllium, Dissolved	ND	ug/L	0.50	1	09/21/12 08:45	09/24/12 15:58	7440-41-7	
Cadmium, Dissolved	ND	ug/L	0.50	1	09/21/12 08:45	09/24/12 12:07	7440-43-9	
Chromium, Dissolved	**1.5**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:07	7440-47-3	B
Cobalt, Dissolved	**0.16J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:07	7440-48-4	
Copper, Dissolved	**1.1**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:07	7440-50-8	
Iron, Dissolved	**182**	ug/L	50.0	1	09/21/12 08:45	09/24/12 12:07	7439-89-6	B
Lead, Dissolved	**0.56J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:07	7439-92-1	
Manganese, Dissolved	**86.9**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:07	7439-96-5	B
Molybdenum, Dissolved	**0.95J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:07	7439-98-7	
Nickel, Dissolved	**0.63J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:07	7440-02-0	B
Selenium, Dissolved	**0.46J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:07	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/21/12 08:45	09/24/12 12:07	7440-22-4	
Thallium, Dissolved	ND	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:07	7440-28-0	
Vanadium, Dissolved	ND	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:07	7440-62-2	
Zinc, Dissolved	**6.0J**	ug/L	10.0	1	09/21/12 08:45	09/24/12 12:07	7440-66-6	B
245.1 Mercury	Analytical Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/26/12 15:18	10/02/12 14:31	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/20/12 15:00	10/03/12 14:46	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	09/20/12 16:10	09/21/12 10:24	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**295**	umhos/cm	10.0	1		09/20/12 14:42		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-2_SEC2_20120912 **Lab ID: 60128975008** Collected: 09/12/12 13:44 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**189**	mg/L	6.0	1		09/20/12 17:17		
Salinity (as seawater)	**0.14**	PSU	0.010	1		09/20/12 17:17		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**82.2**	mg/L	20.0	1		09/20/12 11:43		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/20/12 11:43		
Alkalinity, Total as CaCO3	**82.2**	mg/L	20.0	1		09/20/12 11:43		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**180**	mg/L	5.0	1		09/17/12 15:04		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**11.0**	mg/L	5.0	1		09/19/12 10:19		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/18/12 13:46	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.1**	mg/L	1.0	1		09/23/12 16:08	16887-00-6	
Sulfate	**63.4**	mg/L	10.0	10		09/21/12 22:50	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/17/12 12:06		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/24/12 14:08	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.3**	mg/L	1.0	1		09/24/12 21:08	7440-44-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-2_SEC3_20120912 **Lab ID: 60128975009** Collected: 09/12/12 13:44 Received: 09/14/12 10:15 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	**43200**	ug/L	100	1	09/21/12 08:55	09/25/12 11:24	7440-70-2	B
Magnesium, Dissolved	**6230**	ug/L	50.0	1	09/21/12 08:55	09/25/12 11:24	7439-95-4	
Potassium, Dissolved	**511**	ug/L	500	1	09/21/12 08:55	09/25/12 11:24	7440-09-7	
Sodium, Dissolved	**2500**	ug/L	500	1	09/21/12 08:55	09/25/12 11:24	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	**346**	ug/L	4.0	1	09/27/12 20:39	10/08/12 10:47	7429-90-5	M1
Antimony	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 05:36	7440-36-0	
Arsenic	**0.51**	ug/L	0.50	1	09/27/12 20:39	10/07/12 05:36	7440-38-2	
Barium	**72.6**	ug/L	0.30	1	09/27/12 20:39	10/07/12 05:36	7440-39-3	
Beryllium	ND	ug/L	0.20	1	09/27/12 20:39	10/07/12 05:36	7440-41-7	
Cadmium	ND	ug/L	0.080	1	09/27/12 20:39	10/07/12 05:36	7440-43-9	
Calcium	**48200**	ug/L	100	5	09/27/12 20:39	10/07/12 05:42	7440-70-2	M1
Chromium	**0.63**	ug/L	0.50	1	09/27/12 20:39	10/07/12 05:36	7440-47-3	
Cobalt	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 05:36	7440-48-4	
Copper	**1.1**	ug/L	0.50	1	09/27/12 20:39	10/07/12 05:36	7440-50-8	
Iron	**453**	ug/L	50.0	1	09/27/12 20:39	10/07/12 05:36	7439-89-6	
Lead	**0.51**	ug/L	0.10	1	09/27/12 20:39	10/08/12 10:47	7439-92-1	
Magnesium	**6860**	ug/L	5.0	1	09/27/12 20:39	10/10/12 14:11	7439-95-4	
Manganese	**89.2**	ug/L	0.50	1	09/27/12 20:39	10/07/12 05:36	7439-96-5	
Molybdenum	**1.3**	ug/L	0.50	1	09/27/12 20:39	10/08/12 10:47	7439-98-7	
Nickel	**0.64**	ug/L	0.50	1	09/27/12 20:39	10/07/12 05:36	7440-02-0	
Potassium	**983**	ug/L	20.0	1	09/27/12 20:39	10/10/12 14:11	7440-09-7	
Selenium	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 05:36	7782-49-2	
Silica	**7550**	ug/L	268	5	09/27/12 20:39	10/08/12 10:53	7631-86-9	
Silver	ND	ug/L	0.50	1	09/27/12 20:39	10/08/12 10:47	7440-22-4	
Sodium	**2720**	ug/L	50.0	1	09/27/12 20:39	10/07/12 05:36	7440-23-5	
Thallium	ND	ug/L	0.10	1	09/27/12 20:39	10/07/12 05:36	7440-28-0	
Total Hardness by 2340B	**149000**	ug/L	355	5	09/27/12 20:39	10/07/12 05:42		
Vanadium	**0.90**	ug/L	0.10	1	09/27/12 20:39	10/08/12 10:47	7440-62-2	
Zinc	ND	ug/L	5.0	1	09/27/12 20:39	10/08/12 10:47	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	**6.2**	ug/L	4.0	1	09/27/12 20:42	10/07/12 07:21	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 07:21	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 07:21	7440-38-2	
Barium, Dissolved	**66.9**	ug/L	0.30	1	09/27/12 20:42	10/07/12 07:21	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	09/27/12 20:42	10/07/12 07:21	7440-41-7	
Cadmium, Dissolved	ND	ug/L	0.080	1	09/27/12 20:42	10/07/12 07:21	7440-43-9	
Calcium, Dissolved	**50100**	ug/L	400	20	09/27/12 20:42	10/07/12 07:27	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 07:21	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 07:21	7440-48-4	
Copper, Dissolved	**1.3**	ug/L	0.50	1	09/27/12 20:42	10/07/12 07:21	7440-50-8	
Iron, Dissolved	ND	ug/L	50.0	1	09/27/12 20:42	10/07/12 07:21	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	09/27/12 20:42	10/07/12 07:21	7439-92-1	
Magnesium, Dissolved	**6710**	ug/L	100	20	09/27/12 20:42	10/07/12 07:27	7439-95-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-2_SEC3_20120912 **Lab ID: 60128975009** Collected: 09/12/12 13:44 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	**77.2**	ug/L	0.50	1	09/27/12 20:42	10/07/12 07:21	7439-96-5	
Molybdenum, Dissolved	**1.1**	ug/L	0.50	1	09/27/12 20:42	10/07/12 07:21	7439-98-7	
Nickel, Dissolved	**1.4**	ug/L	0.50	1	09/27/12 20:42	10/07/12 07:21	7440-02-0	
Potassium, Dissolved	**856**	ug/L	20.0	1	09/27/12 20:42	10/07/12 07:21	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 07:21	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 07:21	7440-22-4	
Sodium, Dissolved	**2990**	ug/L	50.0	1	09/27/12 20:42	10/07/12 07:21	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/27/12 20:42	10/07/12 07:21	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	09/27/12 20:42	10/07/12 07:21	7440-62-2	
Zinc, Dissolved	ND	ug/L	5.0	1	09/27/12 20:42	10/07/12 07:21	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**60.0**	ug/L	50.0	1	09/21/12 08:45	09/24/12 16:00	7429-90-5	
Antimony, Dissolved	**0.075J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:11	7440-36-0	
Arsenic, Dissolved	**0.24J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:11	7440-38-2	
Barium, Dissolved	**63.4**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:11	7440-39-3	B
Beryllium, Dissolved	ND	ug/L	0.50	1	09/21/12 08:45	09/24/12 16:00	7440-41-7	
Cadmium, Dissolved	ND	ug/L	0.50	1	09/21/12 08:45	09/24/12 12:11	7440-43-9	
Chromium, Dissolved	**0.79J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:11	7440-47-3	B
Cobalt, Dissolved	**0.15J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:11	7440-48-4	
Copper, Dissolved	**0.86J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:11	7440-50-8	
Iron, Dissolved	**166**	ug/L	50.0	1	09/21/12 08:45	09/24/12 12:11	7439-89-6	B
Lead, Dissolved	**0.42J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:11	7439-92-1	
Manganese, Dissolved	**80.3**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:11	7439-96-5	B
Molybdenum, Dissolved	**0.88J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:11	7439-98-7	
Nickel, Dissolved	**0.50J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:11	7440-02-0	B
Selenium, Dissolved	**0.42J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:11	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/21/12 08:45	09/24/12 12:11	7440-22-4	
Thallium, Dissolved	ND	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:11	7440-28-0	
Vanadium, Dissolved	ND	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:11	7440-62-2	
Zinc, Dissolved	**5.6J**	ug/L	10.0	1	09/21/12 08:45	09/24/12 12:11	7440-66-6	B
245.1 Mercury	Analytical Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/26/12 15:18	10/02/12 14:33	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/20/12 15:00	10/03/12 14:48	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	09/20/12 16:10	09/21/12 10:26	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**299**	umhos/cm	10.0	1		09/20/12 14:43		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-2_SEC3_20120912 **Lab ID: 60128975009** Collected: 09/12/12 13:44 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**191**	mg/L	6.0	1		09/20/12 17:17		
Salinity (as seawater)	**0.14**	PSU	0.010	1		09/20/12 17:17		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**87.4**	mg/L	20.0	1		09/20/12 11:48		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/20/12 11:48		
Alkalinity, Total as CaCO3	**87.4**	mg/L	20.0	1		09/20/12 11:48		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**177**	mg/L	5.0	1		09/17/12 15:04		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**10.0**	mg/L	5.0	1		09/19/12 10:19		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/18/12 13:59	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.2**	mg/L	1.0	1		09/23/12 16:24	16887-00-6	
Sulfate	**62.6**	mg/L	10.0	10		09/21/12 23:42	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/17/12 12:06		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/24/12 14:08	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		09/24/12 21:22	7440-44-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-2_SEC4_20120912 **Lab ID: 60128975010** Collected: 09/12/12 13:44 Received: 09/14/12 10:15 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	**46300**	ug/L	100	1	09/21/12 08:55	09/25/12 11:26	7440-70-2	B
Magnesium, Dissolved	**6640**	ug/L	50.0	1	09/21/12 08:55	09/25/12 11:26	7439-95-4	
Potassium, Dissolved	**655**	ug/L	500	1	09/21/12 08:55	09/25/12 11:26	7440-09-7	
Sodium, Dissolved	**2740**	ug/L	500	1	09/21/12 08:55	09/25/12 11:26	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	**272**	ug/L	4.0	1	09/27/12 20:39	10/08/12 11:12	7429-90-5	
Antimony	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 06:18	7440-36-0	
Arsenic	**0.55**	ug/L	0.50	1	09/27/12 20:39	10/07/12 06:18	7440-38-2	
Barium	**73.1**	ug/L	0.30	1	09/27/12 20:39	10/07/12 06:18	7440-39-3	
Beryllium	ND	ug/L	0.20	1	09/27/12 20:39	10/07/12 06:18	7440-41-7	
Cadmium	ND	ug/L	0.080	1	09/27/12 20:39	10/07/12 06:18	7440-43-9	
Calcium	**49700**	ug/L	400	20	09/27/12 20:39	10/07/12 06:24	7440-70-2	
Chromium	**0.57**	ug/L	0.50	1	09/27/12 20:39	10/07/12 06:18	7440-47-3	
Cobalt	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 06:18	7440-48-4	
Copper	**1.0**	ug/L	0.50	1	09/27/12 20:39	10/07/12 06:18	7440-50-8	
Iron	**432**	ug/L	50.0	1	09/27/12 20:39	10/07/12 06:18	7439-89-6	
Lead	**0.50**	ug/L	0.10	1	09/27/12 20:39	10/08/12 11:12	7439-92-1	
Magnesium	**7330**	ug/L	5.0	1	09/27/12 20:39	10/10/12 14:38	7439-95-4	
Manganese	**93.7**	ug/L	0.50	1	09/27/12 20:39	10/07/12 06:18	7439-96-5	
Molybdenum	**1.3**	ug/L	0.50	1	09/27/12 20:39	10/08/12 11:12	7439-98-7	
Nickel	**0.56**	ug/L	0.50	1	09/27/12 20:39	10/07/12 06:18	7440-02-0	
Potassium	**1060**	ug/L	20.0	1	09/27/12 20:39	10/10/12 14:38	7440-09-7	
Selenium	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 06:18	7782-49-2	
Silica	**8800**	ug/L	268	5	09/27/12 20:39	10/10/12 14:43	7631-86-9	
Silver	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 06:18	7440-22-4	
Sodium	**2940**	ug/L	50.0	1	09/27/12 20:39	10/07/12 06:18	7440-23-5	
Thallium	ND	ug/L	0.10	1	09/27/12 20:39	10/07/12 06:18	7440-28-0	
Total Hardness by 2340B	**154000**	ug/L	1420	20	09/27/12 20:39	10/07/12 06:24		
Vanadium	**0.81**	ug/L	0.10	1	09/27/12 20:39	10/08/12 11:12	7440-62-2	
Zinc	ND	ug/L	5.0	1	09/27/12 20:39	10/08/12 11:12	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	**6.3**	ug/L	4.0	1	09/27/12 20:42	10/07/12 07:51	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 07:51	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 07:51	7440-38-2	
Barium, Dissolved	**68.2**	ug/L	0.30	1	09/27/12 20:42	10/07/12 07:51	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	09/27/12 20:42	10/07/12 07:51	7440-41-7	
Cadmium, Dissolved	ND	ug/L	0.080	1	09/27/12 20:42	10/07/12 07:51	7440-43-9	
Calcium, Dissolved	**54600**	ug/L	400	20	09/27/12 20:42	10/07/12 07:56	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 07:51	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 07:51	7440-48-4	
Copper, Dissolved	**0.80**	ug/L	0.50	1	09/27/12 20:42	10/07/12 07:51	7440-50-8	
Iron, Dissolved	ND	ug/L	50.0	1	09/27/12 20:42	10/07/12 07:51	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	09/27/12 20:42	10/07/12 07:51	7439-92-1	
Magnesium, Dissolved	**7080**	ug/L	100	20	09/27/12 20:42	10/07/12 07:56	7439-95-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-2_SEC4_20120912 **Lab ID: 60128975010** Collected: 09/12/12 13:44 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	**83.2**	ug/L	0.50	1	09/27/12 20:42	10/07/12 07:51	7439-96-5	
Molybdenum, Dissolved	**1.1**	ug/L	0.50	1	09/27/12 20:42	10/07/12 07:51	7439-98-7	
Nickel, Dissolved	**1.2**	ug/L	0.50	1	09/27/12 20:42	10/07/12 07:51	7440-02-0	
Potassium, Dissolved	**969**	ug/L	20.0	1	09/27/12 20:42	10/07/12 07:51	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 07:51	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 07:51	7440-22-4	
Sodium, Dissolved	**3260**	ug/L	50.0	1	09/27/12 20:42	10/07/12 07:51	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/27/12 20:42	10/07/12 07:51	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	09/27/12 20:42	10/07/12 07:51	7440-62-2	
Zinc, Dissolved	ND	ug/L	5.0	1	09/27/12 20:42	10/07/12 07:51	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**64.6**	ug/L	50.0	1	09/21/12 08:45	09/24/12 16:02	7429-90-5	
Antimony, Dissolved	**0.064J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:15	7440-36-0	
Arsenic, Dissolved	**0.33J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:15	7440-38-2	
Barium, Dissolved	**65.5**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:15	7440-39-3	B
Beryllium, Dissolved	ND	ug/L	0.50	1	09/21/12 08:45	09/24/12 16:02	7440-41-7	
Cadmium, Dissolved	ND	ug/L	0.50	1	09/21/12 08:45	09/24/12 12:15	7440-43-9	
Chromium, Dissolved	**1.0**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:15	7440-47-3	B
Cobalt, Dissolved	**0.18J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:15	7440-48-4	
Copper, Dissolved	**0.91J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:15	7440-50-8	
Iron, Dissolved	**176**	ug/L	50.0	1	09/21/12 08:45	09/24/12 12:15	7439-89-6	B
Lead, Dissolved	**0.40J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:15	7439-92-1	
Manganese, Dissolved	**87.1**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:15	7439-96-5	B
Molybdenum, Dissolved	**0.92J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:15	7439-98-7	
Nickel, Dissolved	**0.62J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:15	7440-02-0	B
Selenium, Dissolved	**0.44J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:15	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/21/12 08:45	09/24/12 12:15	7440-22-4	
Thallium, Dissolved	ND	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:15	7440-28-0	
Vanadium, Dissolved	ND	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:15	7440-62-2	
Zinc, Dissolved	**6.3J**	ug/L	10.0	1	09/21/12 08:45	09/24/12 12:15	7440-66-6	B
245.1 Mercury	Analytical Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/26/12 15:18	10/02/12 14:35	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/20/12 15:00	10/03/12 14:50	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	09/20/12 16:10	09/21/12 10:31	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**309**	umhos/cm	10.0	1		09/20/12 14:44		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-2_SEC4_20120912 **Lab ID: 60128975010** Collected: 09/12/12 13:44 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**198**	mg/L	6.0	1		09/20/12 17:17		
Salinity (as seawater)	**0.15**	PSU	0.010	1		09/20/12 17:17		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**89.9**	mg/L	20.0	1		09/20/12 11:52		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/20/12 11:52		
Alkalinity, Total as CaCO3	**89.9**	mg/L	20.0	1		09/20/12 11:52		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**187**	mg/L	5.0	1		09/17/12 15:04		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**5.0**	mg/L	5.0	1		09/19/12 10:19		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/18/12 14:09	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.2**	mg/L	1.0	1		09/23/12 16:40	16887-00-6	
Sulfate	**66.4**	mg/L	10.0	10		09/22/12 00:00	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/17/12 12:08		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/24/12 14:11	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		09/24/12 21:36	7440-44-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-2_SEC5_20120912 **Lab ID: 60128975011** Collected: 09/12/12 13:44 Received: 09/14/12 10:15 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	**49600**	ug/L	100	1	09/21/12 08:55	09/25/12 11:28	7440-70-2	B
Magnesium, Dissolved	**7170**	ug/L	50.0	1	09/21/12 08:55	09/25/12 11:28	7439-95-4	
Potassium, Dissolved	**712**	ug/L	500	1	09/21/12 08:55	09/25/12 11:28	7440-09-7	
Sodium, Dissolved	**3080**	ug/L	500	1	09/21/12 08:55	09/25/12 11:28	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	**261**	ug/L	4.0	1	09/27/12 20:39	10/08/12 11:18	7429-90-5	
Antimony	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 06:30	7440-36-0	
Arsenic	**0.62**	ug/L	0.50	1	09/27/12 20:39	10/07/12 06:30	7440-38-2	
Barium	**70.8**	ug/L	0.30	1	09/27/12 20:39	10/07/12 06:30	7440-39-3	
Beryllium	ND	ug/L	0.20	1	09/27/12 20:39	10/07/12 06:30	7440-41-7	
Cadmium	ND	ug/L	0.080	1	09/27/12 20:39	10/07/12 06:30	7440-43-9	
Calcium	**52200**	ug/L	400	20	09/27/12 20:39	10/07/12 06:36	7440-70-2	
Chromium	**1.3**	ug/L	0.50	1	09/27/12 20:39	10/07/12 06:30	7440-47-3	
Cobalt	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 06:30	7440-48-4	
Copper	**1.0**	ug/L	0.50	1	09/27/12 20:39	10/07/12 06:30	7440-50-8	
Iron	**417**	ug/L	50.0	1	09/27/12 20:39	10/07/12 06:30	7439-89-6	
Lead	**0.51**	ug/L	0.10	1	09/27/12 20:39	10/08/12 11:18	7439-92-1	
Magnesium	**7780**	ug/L	5.0	1	09/27/12 20:39	10/10/12 14:49	7439-95-4	
Manganese	**104**	ug/L	0.50	1	09/27/12 20:39	10/07/12 06:30	7439-96-5	
Molybdenum	**1.3**	ug/L	0.50	1	09/27/12 20:39	10/08/12 11:18	7439-98-7	
Nickel	**0.74**	ug/L	0.50	1	09/27/12 20:39	10/07/12 06:30	7440-02-0	
Potassium	**1200**	ug/L	20.0	1	09/27/12 20:39	10/10/12 14:49	7440-09-7	
Selenium	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 06:30	7782-49-2	
Silica	**9320**	ug/L	268	5	09/27/12 20:39	10/10/12 14:55	7631-86-9	
Silver	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 06:30	7440-22-4	
Sodium	**3310**	ug/L	50.0	1	09/27/12 20:39	10/07/12 06:30	7440-23-5	
Thallium	ND	ug/L	0.10	1	09/27/12 20:39	10/07/12 06:30	7440-28-0	
Total Hardness by 2340B	**162000**	ug/L	1420	20	09/27/12 20:39	10/07/12 06:36		
Vanadium	**0.79**	ug/L	0.10	1	09/27/12 20:39	10/08/12 11:18	7440-62-2	
Zinc	ND	ug/L	5.0	1	09/27/12 20:39	10/08/12 11:18	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	**8.8**	ug/L	4.0	1	09/27/12 20:42	10/07/12 08:02	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 08:02	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 08:02	7440-38-2	
Barium, Dissolved	**67.4**	ug/L	0.30	1	09/27/12 20:42	10/07/12 08:02	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	09/27/12 20:42	10/07/12 08:02	7440-41-7	
Cadmium, Dissolved	ND	ug/L	0.080	1	09/27/12 20:42	10/07/12 08:02	7440-43-9	
Calcium, Dissolved	**59500**	ug/L	400	20	09/27/12 20:42	10/07/12 08:08	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 08:02	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 08:02	7440-48-4	
Copper, Dissolved	**0.98**	ug/L	0.50	1	09/27/12 20:42	10/07/12 08:02	7440-50-8	
Iron, Dissolved	ND	ug/L	50.0	1	09/27/12 20:42	10/07/12 08:02	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	09/27/12 20:42	10/07/12 08:02	7439-92-1	
Magnesium, Dissolved	**7950**	ug/L	100	20	09/27/12 20:42	10/07/12 08:08	7439-95-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-2_SEC5_20120912 **Lab ID: 60128975011** Collected: 09/12/12 13:44 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	**94.2**	ug/L	0.50	1	09/27/12 20:42	10/07/12 08:02	7439-96-5	
Molybdenum, Dissolved	**1.1**	ug/L	0.50	1	09/27/12 20:42	10/07/12 08:02	7439-98-7	
Nickel, Dissolved	**1.1**	ug/L	0.50	1	09/27/12 20:42	10/07/12 08:02	7440-02-0	
Potassium, Dissolved	**1140**	ug/L	20.0	1	09/27/12 20:42	10/07/12 08:02	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 08:02	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 08:02	7440-22-4	
Sodium, Dissolved	**3690**	ug/L	50.0	1	09/27/12 20:42	10/07/12 08:02	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/27/12 20:42	10/07/12 08:02	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	09/27/12 20:42	10/07/12 08:02	7440-62-2	
Zinc, Dissolved	ND	ug/L	5.0	1	09/27/12 20:42	10/07/12 08:02	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**58.9**	ug/L	50.0	1	09/21/12 08:45	09/24/12 16:04	7429-90-5	
Antimony, Dissolved	**0.077J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:19	7440-36-0	
Arsenic, Dissolved	**0.42J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:19	7440-38-2	
Barium, Dissolved	**65.2**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:19	7440-39-3	B
Beryllium, Dissolved	ND	ug/L	0.50	1	09/21/12 08:45	09/24/12 16:04	7440-41-7	
Cadmium, Dissolved	ND	ug/L	0.50	1	09/21/12 08:45	09/24/12 12:19	7440-43-9	
Chromium, Dissolved	**1.6**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:19	7440-47-3	B
Cobalt, Dissolved	**0.19J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:19	7440-48-4	
Copper, Dissolved	**0.90J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:19	7440-50-8	
Iron, Dissolved	**189**	ug/L	50.0	1	09/21/12 08:45	09/24/12 12:19	7439-89-6	B
Lead, Dissolved	**0.45J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:19	7439-92-1	
Manganese, Dissolved	**100**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:19	7439-96-5	B
Molybdenum, Dissolved	**1.1**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:19	7439-98-7	
Nickel, Dissolved	**0.77J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:19	7440-02-0	B
Selenium, Dissolved	**0.38J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:19	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/21/12 08:45	09/24/12 12:19	7440-22-4	
Thallium, Dissolved	ND	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:19	7440-28-0	
Vanadium, Dissolved	ND	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:19	7440-62-2	
Zinc, Dissolved	**6.8J**	ug/L	10.0	1	09/21/12 08:45	09/24/12 12:19	7440-66-6	B
245.1 Mercury	Analytical Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/26/12 15:18	10/02/12 14:37	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/20/12 15:00	10/03/12 14:53	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	09/20/12 16:10	09/21/12 10:33	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**322**	umhos/cm	10.0	1		09/20/12 14:45		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-2_SEC5_20120912 **Lab ID: 60128975011** Collected: 09/12/12 13:44 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**206**	mg/L	6.0	1		09/20/12 17:17		
Salinity (as seawater)	**0.16**	PSU	0.010	1		09/20/12 17:17		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**97.9**	mg/L	20.0	1		09/20/12 12:00		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/20/12 12:00		
Alkalinity, Total as CaCO3	**97.9**	mg/L	20.0	1		09/20/12 12:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**208**	mg/L	5.0	1		09/19/12 15:26		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**7.0**	mg/L	5.0	1		09/19/12 10:20		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/18/12 14:09	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.2**	mg/L	1.0	1		09/23/12 17:11	16887-00-6	
Sulfate	**73.0**	mg/L	10.0	10		09/22/12 00:35	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/17/12 12:09		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/24/12 14:11	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		09/26/12 07:59	7440-44-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-2_SEC6_20120912 **Lab ID: 60128975012** Collected: 09/12/12 13:44 Received: 09/14/12 10:15 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	**54800**	ug/L	100	1	09/21/12 08:55	09/25/12 11:30	7440-70-2	B
Magnesium, Dissolved	**7880**	ug/L	50.0	1	09/21/12 08:55	09/25/12 11:30	7439-95-4	
Potassium, Dissolved	**900**	ug/L	500	1	09/21/12 08:55	09/25/12 11:30	7440-09-7	
Sodium, Dissolved	**3470**	ug/L	500	1	09/21/12 08:55	09/25/12 11:30	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	**207**	ug/L	4.0	1	09/27/12 20:39	10/08/12 11:24	7429-90-5	
Antimony	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 06:42	7440-36-0	
Arsenic	**0.60**	ug/L	0.50	1	09/27/12 20:39	10/07/12 06:42	7440-38-2	
Barium	**70.9**	ug/L	0.30	1	09/27/12 20:39	10/07/12 06:42	7440-39-3	
Beryllium	ND	ug/L	0.20	1	09/27/12 20:39	10/07/12 06:42	7440-41-7	
Cadmium	ND	ug/L	0.080	1	09/27/12 20:39	10/07/12 06:42	7440-43-9	
Calcium	**55100**	ug/L	400	20	09/27/12 20:39	10/07/12 06:48	7440-70-2	
Chromium	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 06:42	7440-47-3	
Cobalt	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 06:42	7440-48-4	
Copper	**0.98**	ug/L	0.50	1	09/27/12 20:39	10/07/12 06:42	7440-50-8	
Iron	**383**	ug/L	50.0	1	09/27/12 20:39	10/07/12 06:42	7439-89-6	
Lead	**0.42**	ug/L	0.10	1	09/27/12 20:39	10/08/12 11:24	7439-92-1	
Magnesium	**8180**	ug/L	5.0	1	09/27/12 20:39	10/10/12 15:28	7439-95-4	
Manganese	**115**	ug/L	0.50	1	09/27/12 20:39	10/07/12 06:42	7439-96-5	
Molybdenum	**1.3**	ug/L	0.50	1	09/27/12 20:39	10/08/12 11:24	7439-98-7	
Nickel	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 06:42	7440-02-0	
Potassium	**1280**	ug/L	20.0	1	09/27/12 20:39	10/10/12 15:28	7440-09-7	
Selenium	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 06:42	7782-49-2	
Silica	**9780**	ug/L	268	5	09/27/12 20:39	10/10/12 15:34	7631-86-9	
Silver	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 06:42	7440-22-4	
Sodium	**3620**	ug/L	50.0	1	09/27/12 20:39	10/07/12 06:42	7440-23-5	
Thallium	ND	ug/L	0.10	1	09/27/12 20:39	10/07/12 06:42	7440-28-0	
Total Hardness by 2340B	**171000**	ug/L	1420	20	09/27/12 20:39	10/07/12 06:48		
Vanadium	**0.63**	ug/L	0.10	1	09/27/12 20:39	10/08/12 11:24	7440-62-2	
Zinc	ND	ug/L	5.0	1	09/27/12 20:39	10/08/12 11:24	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	**8.2**	ug/L	4.0	1	09/27/12 20:42	10/07/12 08:14	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 08:14	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 08:14	7440-38-2	
Barium, Dissolved	**67.6**	ug/L	0.30	1	09/27/12 20:42	10/07/12 08:14	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	09/27/12 20:42	10/08/12 12:20	7440-41-7	
Cadmium, Dissolved	ND	ug/L	0.080	1	09/27/12 20:42	10/07/12 08:14	7440-43-9	
Calcium, Dissolved	**63400**	ug/L	400	20	09/27/12 20:42	10/07/12 08:20	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 08:14	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 08:14	7440-48-4	
Copper, Dissolved	**2.8**	ug/L	0.50	1	09/27/12 20:42	10/07/12 08:14	7440-50-8	
Iron, Dissolved	ND	ug/L	50.0	1	09/27/12 20:42	10/07/12 08:14	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	09/27/12 20:42	10/08/12 12:20	7439-92-1	
Magnesium, Dissolved	**8100**	ug/L	5.0	1	09/27/12 20:42	10/08/12 12:20	7439-95-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-2_SEC6_20120912 **Lab ID: 60128975012** Collected: 09/12/12 13:44 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	**107**	ug/L	0.50	1	09/27/12 20:42	10/07/12 08:14	7439-96-5	
Molybdenum, Dissolved	**1.2**	ug/L	0.50	1	09/27/12 20:42	10/07/12 08:14	7439-98-7	
Nickel, Dissolved	**2.6**	ug/L	0.50	1	09/27/12 20:42	10/07/12 08:14	7440-02-0	
Potassium, Dissolved	**1250**	ug/L	20.0	1	09/27/12 20:42	10/07/12 08:14	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 08:14	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 08:14	7440-22-4	
Sodium, Dissolved	**3990**	ug/L	50.0	1	09/27/12 20:42	10/07/12 08:14	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/27/12 20:42	10/07/12 08:14	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	09/27/12 20:42	10/07/12 08:14	7440-62-2	
Zinc, Dissolved	ND	ug/L	5.0	1	09/27/12 20:42	10/07/12 08:14	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**56.0**	ug/L	50.0	1	09/21/12 08:45	09/24/12 16:06	7429-90-5	
Antimony, Dissolved	**0.066J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:24	7440-36-0	
Arsenic, Dissolved	**0.42J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:24	7440-38-2	
Barium, Dissolved	**64.9**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:24	7440-39-3	B
Beryllium, Dissolved	ND	ug/L	0.50	1	09/21/12 08:45	09/24/12 16:06	7440-41-7	
Cadmium, Dissolved	ND	ug/L	0.50	1	09/21/12 08:45	09/24/12 12:24	7440-43-9	
Chromium, Dissolved	**0.57J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:24	7440-47-3	B
Cobalt, Dissolved	**0.16J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:24	7440-48-4	
Copper, Dissolved	**0.80J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:24	7440-50-8	
Iron, Dissolved	**187**	ug/L	50.0	1	09/21/12 08:45	09/24/12 12:24	7439-89-6	B
Lead, Dissolved	**0.42J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:24	7439-92-1	
Manganese, Dissolved	**110**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:24	7439-96-5	B
Molybdenum, Dissolved	**1.2**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:24	7439-98-7	
Nickel, Dissolved	**0.41J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:24	7440-02-0	B
Selenium, Dissolved	**0.42J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:24	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/21/12 08:45	09/24/12 12:24	7440-22-4	
Thallium, Dissolved	ND	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:24	7440-28-0	
Vanadium, Dissolved	ND	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:24	7440-62-2	
Zinc, Dissolved	**6.4J**	ug/L	10.0	1	09/21/12 08:45	09/24/12 12:24	7440-66-6	B
245.1 Mercury	Analytical Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/20/12 16:00	10/03/12 15:11	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/28/12 14:00	10/02/12 14:58	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	09/20/12 16:10	09/21/12 10:35	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**354**	umhos/cm	10.0	1		09/20/12 14:46		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-2_SEC6_20120912 **Lab ID: 60128975012** Collected: 09/12/12 13:44 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**226**	mg/L	6.0	1		09/20/12 17:17		
Salinity (as seawater)	**0.17**	PSU	0.010	1		09/20/12 17:17		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**103**	mg/L	20.0	1		09/20/12 12:04		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/20/12 12:04		
Alkalinity, Total as CaCO3	**103**	mg/L	20.0	1		09/20/12 12:04		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**220**	mg/L	5.0	1		09/19/12 15:26		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**5.0**	mg/L	5.0	1		09/19/12 10:20		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/18/12 14:09	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.3**	mg/L	1.0	1		09/23/12 17:27	16887-00-6	
Sulfate	**76.4**	mg/L	10.0	10		09/22/12 00:52	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/17/12 12:12		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/24/12 14:12	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.0**	mg/L	1.0	1		09/26/12 08:27	7440-44-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-7_SEC1_20120912 **Lab ID: 60128975013** Collected: 09/12/12 12:15 Received: 09/14/12 10:15 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	**75700**	ug/L	100	1	09/21/12 08:55	09/25/12 11:32	7440-70-2	B
Magnesium, Dissolved	**9940**	ug/L	50.0	1	09/21/12 08:55	09/25/12 11:32	7439-95-4	
Potassium, Dissolved	**1340**	ug/L	500	1	09/21/12 08:55	09/25/12 11:32	7440-09-7	
Sodium, Dissolved	**4920**	ug/L	500	1	09/21/12 08:55	09/25/12 11:32	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	**327**	ug/L	4.0	1	09/27/12 20:39	10/08/12 11:29	7429-90-5	
Antimony	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 06:54	7440-36-0	
Arsenic	**1.1**	ug/L	0.50	1	09/27/12 20:39	10/07/12 06:54	7440-38-2	
Barium	**69.2**	ug/L	0.30	1	09/27/12 20:39	10/07/12 06:54	7440-39-3	
Beryllium	ND	ug/L	0.20	1	09/27/12 20:39	10/07/12 06:54	7440-41-7	
Cadmium	**1.4**	ug/L	0.080	1	09/27/12 20:39	10/07/12 06:54	7440-43-9	
Calcium	**97500**	ug/L	400	20	09/27/12 20:39	10/07/12 07:00	7440-70-2	
Chromium	**0.54**	ug/L	0.50	1	09/27/12 20:39	10/07/12 06:54	7440-47-3	
Cobalt	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 06:54	7440-48-4	
Copper	**1.5**	ug/L	0.50	1	09/27/12 20:39	10/07/12 06:54	7440-50-8	
Iron	**670**	ug/L	50.0	1	09/27/12 20:39	10/07/12 06:54	7439-89-6	
Lead	**0.76**	ug/L	0.10	1	09/27/12 20:39	10/08/12 11:29	7439-92-1	
Magnesium	**10800**	ug/L	5.0	1	09/27/12 20:39	10/10/12 15:40	7439-95-4	
Manganese	**292**	ug/L	0.50	1	09/27/12 20:39	10/07/12 06:54	7439-96-5	
Molybdenum	**2.4**	ug/L	0.50	1	09/27/12 20:39	10/08/12 11:29	7439-98-7	
Nickel	**1.1**	ug/L	0.50	1	09/27/12 20:39	10/07/12 06:54	7440-02-0	
Potassium	**1740**	ug/L	20.0	1	09/27/12 20:39	10/10/12 15:40	7440-09-7	
Selenium	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 06:54	7782-49-2	
Silica	**12100**	ug/L	268	5	09/27/12 20:39	10/10/12 15:46	7631-86-9	
Silver	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 06:54	7440-22-4	
Sodium	**5260**	ug/L	50.0	1	09/27/12 20:39	10/07/12 06:54	7440-23-5	
Thallium	ND	ug/L	0.10	1	09/27/12 20:39	10/07/12 06:54	7440-28-0	
Total Hardness by 2340B	**288000**	ug/L	1420	20	09/27/12 20:39	10/07/12 07:00		
Vanadium	**0.87**	ug/L	0.10	1	09/27/12 20:39	10/08/12 11:29	7440-62-2	
Zinc	**281**	ug/L	5.0	1	09/27/12 20:39	10/08/12 11:29	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	**8.7**	ug/L	4.0	1	09/27/12 20:42	10/07/12 08:25	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 08:25	7440-36-0	
Arsenic, Dissolved	**0.75**	ug/L	0.50	1	09/27/12 20:42	10/07/12 08:25	7440-38-2	
Barium, Dissolved	**66.3**	ug/L	0.30	1	09/27/12 20:42	10/07/12 08:25	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	09/27/12 20:42	10/07/12 08:25	7440-41-7	
Cadmium, Dissolved	**1.3**	ug/L	0.080	1	09/27/12 20:42	10/07/12 08:25	7440-43-9	
Calcium, Dissolved	**91100**	ug/L	400	20	09/27/12 20:42	10/07/12 08:31	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 08:25	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 08:25	7440-48-4	
Copper, Dissolved	**0.64**	ug/L	0.50	1	09/27/12 20:42	10/07/12 08:25	7440-50-8	
Iron, Dissolved	**58.1**	ug/L	50.0	1	09/27/12 20:42	10/07/12 08:25	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	09/27/12 20:42	10/07/12 08:25	7439-92-1	
Magnesium, Dissolved	**10500**	ug/L	5.0	1	09/27/12 20:42	10/07/12 08:25	7439-95-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-7_SEC1_20120912 **Lab ID: 60128975013** Collected: 09/12/12 12:15 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	**288**	ug/L	0.50	1	09/27/12 20:42	10/07/12 08:25	7439-96-5	
Molybdenum, Dissolved	**2.4**	ug/L	0.50	1	09/27/12 20:42	10/07/12 08:25	7439-98-7	
Nickel, Dissolved	**1.1**	ug/L	0.50	1	09/27/12 20:42	10/07/12 08:25	7440-02-0	
Potassium, Dissolved	**1710**	ug/L	20.0	1	09/27/12 20:42	10/07/12 08:25	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 08:25	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 08:25	7440-22-4	
Sodium, Dissolved	**5930**	ug/L	1000	20	09/27/12 20:42	10/07/12 08:31	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/27/12 20:42	10/07/12 08:25	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	09/27/12 20:42	10/07/12 08:25	7440-62-2	
Zinc, Dissolved	**285**	ug/L	5.0	1	09/27/12 20:42	10/07/12 08:25	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**105**	ug/L	50.0	1	09/21/12 08:45	09/24/12 16:11	7429-90-5	
Antimony, Dissolved	**0.11J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:32	7440-36-0	
Arsenic, Dissolved	**0.87J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:32	7440-38-2	
Barium, Dissolved	**63.8**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:32	7440-39-3	B
Beryllium, Dissolved	**0.090J**	ug/L	0.50	1	09/21/12 08:45	09/24/12 16:11	7440-41-7	
Cadmium, Dissolved	**1.5**	ug/L	0.50	1	09/21/12 08:45	09/24/12 12:32	7440-43-9	
Chromium, Dissolved	**0.83J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:32	7440-47-3	B
Cobalt, Dissolved	**0.52J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:32	7440-48-4	
Copper, Dissolved	**1.8**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:32	7440-50-8	
Iron, Dissolved	**430**	ug/L	50.0	1	09/21/12 08:45	09/24/12 12:32	7439-89-6	B
Lead, Dissolved	**0.93J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:32	7439-92-1	
Manganese, Dissolved	**290**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:32	7439-96-5	B
Molybdenum, Dissolved	**2.3**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:32	7439-98-7	
Nickel, Dissolved	**0.86J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:32	7440-02-0	B
Selenium, Dissolved	**0.36J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:32	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/21/12 08:45	09/24/12 12:32	7440-22-4	
Thallium, Dissolved	**0.078J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:32	7440-28-0	
Vanadium, Dissolved	**0.54J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:32	7440-62-2	
Zinc, Dissolved	**295**	ug/L	10.0	1	09/21/12 08:45	09/24/12 12:32	7440-66-6	B
245.1 Mercury	Analytical Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/20/12 16:00	10/03/12 15:18	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/28/12 14:00	10/02/12 15:05	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	09/20/12 16:10	09/21/12 10:44	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**492**	umhos/cm	10.0	1		09/20/12 14:51		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-7_SEC1_20120912 **Lab ID: 60128975013** Collected: 09/12/12 12:15 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**315**	mg/L	6.0	1		09/20/12 17:17		
Salinity (as seawater)	**0.24**	PSU	0.010	1		09/20/12 17:17		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**109**	mg/L	20.0	1		09/20/12 12:08		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/20/12 12:08		
Alkalinity, Total as CaCO3	**109**	mg/L	20.0	1		09/20/12 12:08		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**334**	mg/L	5.0	1		09/19/12 15:27		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**9.0**	mg/L	5.0	1		09/19/12 10:21		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/18/12 14:09	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.1**	mg/L	1.0	1		09/23/12 17:43	16887-00-6	
Sulfate	**154**	mg/L	10.0	10		09/22/12 01:09	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/17/12 12:13		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/24/12 14:15	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		09/26/12 08:55	7440-44-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-7_SEC2_20120912 **Lab ID: 60128975014** Collected: 09/12/12 12:15 Received: 09/14/12 10:15 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	**72900**	ug/L	100	1	09/21/12 08:55	09/25/12 11:36	7440-70-2	B
Magnesium, Dissolved	**9510**	ug/L	50.0	1	09/21/12 08:55	09/25/12 11:36	7439-95-4	
Potassium, Dissolved	**1130**	ug/L	500	1	09/21/12 08:55	09/25/12 11:36	7440-09-7	
Sodium, Dissolved	**4550**	ug/L	500	1	09/21/12 08:55	09/25/12 11:36	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	**367**	ug/L	4.0	1	09/27/12 20:39	10/08/12 11:35	7429-90-5	
Antimony	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 07:06	7440-36-0	
Arsenic	**0.94**	ug/L	0.50	1	09/27/12 20:39	10/07/12 07:06	7440-38-2	
Barium	**70.4**	ug/L	0.30	1	09/27/12 20:39	10/07/12 07:06	7440-39-3	
Beryllium	ND	ug/L	0.20	1	09/27/12 20:39	10/07/12 07:06	7440-41-7	
Cadmium	**1.3**	ug/L	0.080	1	09/27/12 20:39	10/07/12 07:06	7440-43-9	
Calcium	**77000**	ug/L	400	20	09/27/12 20:39	10/07/12 07:12	7440-70-2	
Chromium	**1.1**	ug/L	0.50	1	09/27/12 20:39	10/07/12 07:06	7440-47-3	
Cobalt	**0.52**	ug/L	0.50	1	09/27/12 20:39	10/07/12 07:06	7440-48-4	
Copper	**1.6**	ug/L	0.50	1	09/27/12 20:39	10/07/12 07:06	7440-50-8	
Iron	**691**	ug/L	50.0	1	09/27/12 20:39	10/07/12 07:06	7439-89-6	
Lead	**0.78**	ug/L	0.10	1	09/27/12 20:39	10/08/12 11:35	7439-92-1	
Magnesium	**10400**	ug/L	5.0	1	09/27/12 20:39	10/10/12 15:52	7439-95-4	
Manganese	**279**	ug/L	0.50	1	09/27/12 20:39	10/07/12 07:06	7439-96-5	
Molybdenum	**2.3**	ug/L	0.50	1	09/27/12 20:39	10/08/12 11:35	7439-98-7	
Nickel	**1.4**	ug/L	0.50	1	09/27/12 20:39	10/07/12 07:06	7440-02-0	
Potassium	**1620**	ug/L	20.0	1	09/27/12 20:39	10/10/12 15:52	7440-09-7	
Selenium	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 07:06	7782-49-2	
Silica	**11500**	ug/L	268	5	09/27/12 20:39	10/10/12 15:58	7631-86-9	
Silver	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 07:06	7440-22-4	
Sodium	**4900**	ug/L	50.0	1	09/27/12 20:39	10/07/12 07:06	7440-23-5	
Thallium	ND	ug/L	0.10	1	09/27/12 20:39	10/07/12 07:06	7440-28-0	
Total Hardness by 2340B	**235000**	ug/L	1420	20	09/27/12 20:39	10/07/12 07:12		
Vanadium	**0.96**	ug/L	0.10	1	09/27/12 20:39	10/08/12 11:35	7440-62-2	
Zinc	**264**	ug/L	5.0	1	09/27/12 20:39	10/08/12 11:35	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	**6.2**	ug/L	4.0	1	09/27/12 20:42	10/07/12 08:37	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 08:37	7440-36-0	
Arsenic, Dissolved	**0.60**	ug/L	0.50	1	09/27/12 20:42	10/07/12 08:37	7440-38-2	
Barium, Dissolved	**64.8**	ug/L	0.30	1	09/27/12 20:42	10/07/12 08:37	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	09/27/12 20:42	10/07/12 08:37	7440-41-7	
Cadmium, Dissolved	**1.1**	ug/L	0.080	1	09/27/12 20:42	10/07/12 08:37	7440-43-9	
Calcium, Dissolved	**84700**	ug/L	400	20	09/27/12 20:42	10/07/12 08:43	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 08:37	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 08:37	7440-48-4	
Copper, Dissolved	**0.57**	ug/L	0.50	1	09/27/12 20:42	10/07/12 08:37	7440-50-8	
Iron, Dissolved	ND	ug/L	50.0	1	09/27/12 20:42	10/07/12 08:37	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	09/27/12 20:42	10/07/12 08:37	7439-92-1	
Magnesium, Dissolved	**10300**	ug/L	100	20	09/27/12 20:42	10/07/12 08:43	7439-95-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-7_SEC2_20120912 **Lab ID: 60128975014** Collected: 09/12/12 12:15 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	**262**	ug/L	0.50	1	09/27/12 20:42	10/07/12 08:37	7439-96-5	
Molybdenum, Dissolved	**2.2**	ug/L	0.50	1	09/27/12 20:42	10/07/12 08:37	7439-98-7	
Nickel, Dissolved	**1.1**	ug/L	0.50	1	09/27/12 20:42	10/07/12 08:37	7440-02-0	
Potassium, Dissolved	**1520**	ug/L	20.0	1	09/27/12 20:42	10/07/12 08:37	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 08:37	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 08:37	7440-22-4	
Sodium, Dissolved	**5340**	ug/L	50.0	1	09/27/12 20:42	10/07/12 08:37	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/27/12 20:42	10/07/12 08:37	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	09/27/12 20:42	10/07/12 08:37	7440-62-2	
Zinc, Dissolved	**263**	ug/L	5.0	1	09/27/12 20:42	10/07/12 08:37	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**102**	ug/L	50.0	1	09/21/12 08:45	09/24/12 16:13	7429-90-5	
Antimony, Dissolved	**0.095J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:36	7440-36-0	
Arsenic, Dissolved	**0.70J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:36	7440-38-2	
Barium, Dissolved	**62.1**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:36	7440-39-3	B
Beryllium, Dissolved	**0.071J**	ug/L	0.50	1	09/21/12 08:45	09/24/12 16:13	7440-41-7	
Cadmium, Dissolved	**1.2**	ug/L	0.50	1	09/21/12 08:45	09/24/12 12:36	7440-43-9	
Chromium, Dissolved	**0.87J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:36	7440-47-3	B
Cobalt, Dissolved	**0.44J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:36	7440-48-4	
Copper, Dissolved	**1.7**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:36	7440-50-8	
Iron, Dissolved	**372**	ug/L	50.0	1	09/21/12 08:45	09/24/12 12:36	7439-89-6	B
Lead, Dissolved	**0.68J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:36	7439-92-1	
Manganese, Dissolved	**261**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:36	7439-96-5	B
Molybdenum, Dissolved	**1.9**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:36	7439-98-7	
Nickel, Dissolved	**0.85J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:36	7440-02-0	B
Selenium, Dissolved	ND	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:36	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/21/12 08:45	09/24/12 12:36	7440-22-4	
Thallium, Dissolved	**0.033J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:36	7440-28-0	
Vanadium, Dissolved	ND	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:36	7440-62-2	
Zinc, Dissolved	**259**	ug/L	10.0	1	09/21/12 08:45	09/24/12 12:36	7440-66-6	B
245.1 Mercury	Analytical Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/20/12 16:00	10/03/12 15:26	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/28/12 14:00	10/02/12 15:11	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	09/20/12 16:10	09/21/12 10:46	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**470**	umhos/cm	10.0	1		09/20/12 14:53		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-7_SEC2_20120912 **Lab ID: 60128975014** Collected: 09/12/12 12:15 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**301**	mg/L	6.0	1		09/20/12 17:17		
Salinity (as seawater)	**0.23**	PSU	0.010	1		09/20/12 17:17		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**102**	mg/L	20.0	1		09/20/12 12:13		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/20/12 12:13		
Alkalinity, Total as CaCO3	**102**	mg/L	20.0	1		09/20/12 12:13		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**317**	mg/L	5.0	1		09/19/12 15:27		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**12.0**	mg/L	5.0	1		09/19/12 10:21		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/18/12 14:09	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.1**	mg/L	1.0	1		09/23/12 17:58	16887-00-6	
Sulfate	**143**	mg/L	10.0	10		09/22/12 01:27	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/17/12 12:13		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/24/12 14:16	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		09/26/12 09:38	7440-44-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-7_SEC3_20120912 **Lab ID: 60128975015** Collected: 09/12/12 12:15 Received: 09/14/12 10:15 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	**66600**	ug/L	100	1	09/21/12 08:55	09/25/12 11:43	7440-70-2	B
Magnesium, Dissolved	**8690**	ug/L	50.0	1	09/21/12 08:55	09/25/12 11:43	7439-95-4	
Potassium, Dissolved	**984**	ug/L	500	1	09/21/12 08:55	09/25/12 11:43	7440-09-7	
Sodium, Dissolved	**3950**	ug/L	500	1	09/21/12 08:55	09/25/12 11:43	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	**404**	ug/L	4.0	1	09/27/12 20:39	10/08/12 11:41	7429-90-5	
Antimony	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 07:43	7440-36-0	
Arsenic	**0.92**	ug/L	0.50	1	09/27/12 20:39	10/07/12 07:43	7440-38-2	
Barium	**71.7**	ug/L	0.30	1	09/27/12 20:39	10/07/12 07:43	7440-39-3	
Beryllium	ND	ug/L	0.20	1	09/27/12 20:39	10/08/12 11:41	7440-41-7	
Cadmium	**1.1**	ug/L	0.080	1	09/27/12 20:39	10/08/12 11:41	7440-43-9	
Calcium	**73400**	ug/L	400	20	09/27/12 20:39	10/07/12 07:48	7440-70-2	
Chromium	**0.51**	ug/L	0.50	1	09/27/12 20:39	10/07/12 07:43	7440-47-3	
Cobalt	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 07:43	7440-48-4	
Copper	**1.6**	ug/L	0.50	1	09/27/12 20:39	10/07/12 07:43	7440-50-8	
Iron	**749**	ug/L	50.0	1	09/27/12 20:39	10/07/12 07:43	7439-89-6	
Lead	**0.82**	ug/L	0.10	1	09/27/12 20:39	10/08/12 11:41	7439-92-1	
Magnesium	**9730**	ug/L	5.0	1	09/27/12 20:39	10/10/12 16:04	7439-95-4	
Manganese	**254**	ug/L	0.50	1	09/27/12 20:39	10/07/12 07:43	7439-96-5	
Molybdenum	**2.2**	ug/L	0.50	1	09/27/12 20:39	10/07/12 07:43	7439-98-7	
Nickel	**1.1**	ug/L	0.50	1	09/27/12 20:39	10/07/12 07:43	7440-02-0	
Potassium	**1480**	ug/L	20.0	1	09/27/12 20:39	10/10/12 16:04	7440-09-7	
Selenium	**0.51**	ug/L	0.50	1	09/27/12 20:39	10/07/12 07:43	7782-49-2	
Silica	**10900**	ug/L	268	5	09/27/12 20:39	10/10/12 16:10	7631-86-9	
Silver	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 07:43	7440-22-4	
Sodium	**4420**	ug/L	50.0	1	09/27/12 20:39	10/07/12 07:43	7440-23-5	
Thallium	ND	ug/L	0.10	1	09/27/12 20:39	10/07/12 07:43	7440-28-0	
Total Hardness by 2340B	**223000**	ug/L	1420	20	09/27/12 20:39	10/07/12 07:48		
Vanadium	**1.1**	ug/L	0.10	1	09/27/12 20:39	10/08/12 11:41	7440-62-2	
Zinc	**231**	ug/L	5.0	1	09/27/12 20:39	10/08/12 11:41	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	**6.2**	ug/L	4.0	1	09/27/12 20:42	10/07/12 09:17	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 09:17	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 09:17	7440-38-2	
Barium, Dissolved	**66.8**	ug/L	0.30	1	09/27/12 20:42	10/07/12 09:17	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	09/27/12 20:42	10/07/12 09:17	7440-41-7	
Cadmium, Dissolved	**1.4**	ug/L	0.080	1	09/27/12 20:42	10/07/12 09:17	7440-43-9	
Calcium, Dissolved	**80400**	ug/L	400	20	09/27/12 20:42	10/07/12 09:23	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 09:17	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 09:17	7440-48-4	
Copper, Dissolved	**1.0**	ug/L	0.50	1	09/27/12 20:42	10/07/12 09:17	7440-50-8	
Iron, Dissolved	ND	ug/L	50.0	1	09/27/12 20:42	10/07/12 09:17	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	09/27/12 20:42	10/07/12 09:17	7439-92-1	
Magnesium, Dissolved	**9690**	ug/L	100	20	09/27/12 20:42	10/07/12 09:23	7439-95-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-7_SEC3_20120912 **Lab ID: 60128975015** Collected: 09/12/12 12:15 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	**237**	ug/L	0.50	1	09/27/12 20:42	10/07/12 09:17	7439-96-5	
Molybdenum, Dissolved	**2.1**	ug/L	0.50	1	09/27/12 20:42	10/07/12 09:17	7439-98-7	
Nickel, Dissolved	**2.7**	ug/L	0.50	1	09/27/12 20:42	10/07/12 09:17	7440-02-0	
Potassium, Dissolved	**1370**	ug/L	20.0	1	09/27/12 20:42	10/07/12 09:17	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 09:17	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 09:17	7440-22-4	
Sodium, Dissolved	**4760**	ug/L	50.0	1	09/27/12 20:42	10/08/12 04:28	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/27/12 20:42	10/07/12 09:17	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	09/27/12 20:42	10/07/12 09:17	7440-62-2	
Zinc, Dissolved	**227**	ug/L	5.0	1	09/27/12 20:42	10/07/12 09:17	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**98.6**	ug/L	50.0	1	09/21/12 08:45	09/24/12 16:19	7429-90-5	
Antimony, Dissolved	**0.079J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:49	7440-36-0	
Arsenic, Dissolved	**0.60J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:49	7440-38-2	
Barium, Dissolved	**62.2**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:49	7440-39-3	B
Beryllium, Dissolved	**0.069J**	ug/L	0.50	1	09/21/12 08:45	09/24/12 16:19	7440-41-7	
Cadmium, Dissolved	**1.0**	ug/L	0.50	1	09/21/12 08:45	09/24/12 12:49	7440-43-9	
Chromium, Dissolved	**0.77J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:49	7440-47-3	B
Cobalt, Dissolved	**0.38J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:49	7440-48-4	
Copper, Dissolved	**1.3**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:49	7440-50-8	
Iron, Dissolved	**332**	ug/L	50.0	1	09/21/12 08:45	09/24/12 12:49	7439-89-6	B
Lead, Dissolved	**0.64J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:49	7439-92-1	
Manganese, Dissolved	**232**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:49	7439-96-5	B
Molybdenum, Dissolved	**1.8**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:49	7439-98-7	
Nickel, Dissolved	**0.75J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:49	7440-02-0	B
Selenium, Dissolved	**0.38J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:49	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/21/12 08:45	09/24/12 12:49	7440-22-4	
Thallium, Dissolved	**0.029J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:49	7440-28-0	
Vanadium, Dissolved	ND	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:49	7440-62-2	
Zinc, Dissolved	**221**	ug/L	10.0	1	09/21/12 08:45	09/24/12 12:49	7440-66-6	B
245.1 Mercury	Analytical Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/20/12 16:00	10/03/12 15:28	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/28/12 14:00	10/02/12 15:13	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	09/20/12 16:10	09/21/12 10:48	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**466**	umhos/cm	10.0	1		09/20/12 14:53		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-7_SEC3_20120912 **Lab ID: 60128975015** Collected: 09/12/12 12:15 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**298**	mg/L	6.0	1		09/20/12 17:17		
Salinity (as seawater)	**0.22**	PSU	0.010	1		09/20/12 17:17		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**101**	mg/L	20.0	1		09/20/12 12:17		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/20/12 12:17		
Alkalinity, Total as CaCO3	**101**	mg/L	20.0	1		09/20/12 12:17		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**292**	mg/L	5.0	1		09/19/12 15:27		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	ND	mg/L	5.0	1		09/19/12 10:22		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/18/12 14:09	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.1**	mg/L	1.0	1		09/23/12 18:14	16887-00-6	
Sulfate	**130**	mg/L	10.0	10		09/22/12 01:44	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/17/12 12:14		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/24/12 14:16	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.2**	mg/L	1.0	1		09/26/12 09:52	7440-44-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-7_SEC4_20120912 **Lab ID: 60128975016** Collected: 09/12/12 12:15 Received: 09/14/12 10:15 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	**58700**	ug/L	100	1	09/21/12 08:55	09/25/12 11:45	7440-70-2	B
Magnesium, Dissolved	**7820**	ug/L	50.0	1	09/21/12 08:55	09/25/12 11:45	7439-95-4	
Potassium, Dissolved	**814**	ug/L	500	1	09/21/12 08:55	09/25/12 11:45	7440-09-7	
Sodium, Dissolved	**3420**	ug/L	500	1	09/21/12 08:55	09/25/12 11:45	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	**259**	ug/L	4.0	1	09/27/12 20:39	10/08/12 12:18	7429-90-5	
Antimony	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 07:54	7440-36-0	
Arsenic	**0.64**	ug/L	0.50	1	09/27/12 20:39	10/07/12 07:54	7440-38-2	
Barium	**70.7**	ug/L	0.30	1	09/27/12 20:39	10/07/12 07:54	7440-39-3	
Beryllium	ND	ug/L	0.20	1	09/27/12 20:39	10/07/12 07:54	7440-41-7	
Cadmium	**0.78**	ug/L	0.080	1	09/27/12 20:39	10/08/12 12:18	7440-43-9	
Calcium	**60100**	ug/L	400	20	09/27/12 20:39	10/07/12 08:00	7440-70-2	
Chromium	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 07:54	7440-47-3	
Cobalt	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 07:54	7440-48-4	
Copper	**1.1**	ug/L	0.50	1	09/27/12 20:39	10/07/12 07:54	7440-50-8	
Iron	**512**	ug/L	50.0	1	09/27/12 20:39	10/07/12 07:54	7439-89-6	
Lead	**0.82**	ug/L	0.10	1	09/27/12 20:39	10/08/12 12:18	7439-92-1	
Magnesium	**8400**	ug/L	5.0	1	09/27/12 20:39	10/10/12 16:15	7439-95-4	
Manganese	**185**	ug/L	0.50	1	09/27/12 20:39	10/07/12 07:54	7439-96-5	
Molybdenum	**1.6**	ug/L	0.50	1	09/27/12 20:39	10/07/12 07:54	7439-98-7	
Nickel	**0.90**	ug/L	0.50	1	09/27/12 20:39	10/07/12 07:54	7440-02-0	
Potassium	**1170**	ug/L	20.0	1	09/27/12 20:39	10/10/12 16:15	7440-09-7	
Selenium	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 07:54	7782-49-2	
Silica	**9470**	ug/L	268	5	09/27/12 20:39	10/10/12 16:21	7631-86-9	
Silver	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 07:54	7440-22-4	
Sodium	**3680**	ug/L	50.0	1	09/27/12 20:39	10/07/12 07:54	7440-23-5	
Thallium	ND	ug/L	0.10	1	09/27/12 20:39	10/07/12 07:54	7440-28-0	
Total Hardness by 2340B	**185000**	ug/L	1420	20	09/27/12 20:39	10/07/12 08:00		
Vanadium	**0.74**	ug/L	0.10	1	09/27/12 20:39	10/08/12 12:18	7440-62-2	
Zinc	**143**	ug/L	5.0	1	09/27/12 20:39	10/08/12 12:18	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	**8.1**	ug/L	4.0	1	09/27/12 20:42	10/07/12 09:29	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 09:29	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 09:29	7440-38-2	
Barium, Dissolved	**69.4**	ug/L	0.30	1	09/27/12 20:42	10/07/12 09:29	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	09/27/12 20:42	10/07/12 09:29	7440-41-7	
Cadmium, Dissolved	**0.68**	ug/L	0.080	1	09/27/12 20:42	10/07/12 09:29	7440-43-9	
Calcium, Dissolved	**71000**	ug/L	400	20	09/27/12 20:42	10/07/12 09:34	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 09:29	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 09:29	7440-48-4	
Copper, Dissolved	**0.61**	ug/L	0.50	1	09/27/12 20:42	10/07/12 09:29	7440-50-8	
Iron, Dissolved	ND	ug/L	50.0	1	09/27/12 20:42	10/07/12 09:29	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	09/27/12 20:42	10/07/12 09:29	7439-92-1	
Magnesium, Dissolved	**9030**	ug/L	100	20	09/27/12 20:42	10/07/12 09:34	7439-95-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-7_SEC4_20120912 **Lab ID: 60128975016** Collected: 09/12/12 12:15 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	**182**	ug/L	0.50	1	09/27/12 20:42	10/07/12 09:29	7439-96-5	
Molybdenum, Dissolved	**1.8**	ug/L	0.50	1	09/27/12 20:42	10/07/12 09:29	7439-98-7	
Nickel, Dissolved	**1.2**	ug/L	0.50	1	09/27/12 20:42	10/07/12 09:29	7440-02-0	
Potassium, Dissolved	**1170**	ug/L	20.0	1	09/27/12 20:42	10/07/12 09:29	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 09:29	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 09:29	7440-22-4	
Sodium, Dissolved	**4120**	ug/L	50.0	1	09/27/12 20:42	10/08/12 04:34	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/27/12 20:42	10/07/12 09:29	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	09/27/12 20:42	10/07/12 09:29	7440-62-2	
Zinc, Dissolved	**140**	ug/L	5.0	1	09/27/12 20:42	10/07/12 09:29	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**101**	ug/L	50.0	1	09/21/12 08:45	09/24/12 16:21	7429-90-5	
Antimony, Dissolved	**0.084J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:53	7440-36-0	
Arsenic, Dissolved	**0.52J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:53	7440-38-2	
Barium, Dissolved	**67.4**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:53	7440-39-3	B
Beryllium, Dissolved	ND	ug/L	0.50	1	09/21/12 08:45	09/24/12 16:21	7440-41-7	
Cadmium, Dissolved	**0.76**	ug/L	0.50	1	09/21/12 08:45	09/24/12 12:53	7440-43-9	
Chromium, Dissolved	**0.83J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:53	7440-47-3	B
Cobalt, Dissolved	**0.37J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:53	7440-48-4	
Copper, Dissolved	**2.0**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:53	7440-50-8	
Iron, Dissolved	**318**	ug/L	50.0	1	09/21/12 08:45	09/24/12 12:53	7439-89-6	B
Lead, Dissolved	**0.70J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:53	7439-92-1	
Manganese, Dissolved	**187**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:53	7439-96-5	B
Molybdenum, Dissolved	**1.4**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:53	7439-98-7	
Nickel, Dissolved	**0.61J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:53	7440-02-0	B
Selenium, Dissolved	**0.36J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:53	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/21/12 08:45	09/24/12 12:53	7440-22-4	
Thallium, Dissolved	ND	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:53	7440-28-0	
Vanadium, Dissolved	ND	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:53	7440-62-2	
Zinc, Dissolved	**150**	ug/L	10.0	1	09/21/12 08:45	09/24/12 12:53	7440-66-6	B
245.1 Mercury	Analytical Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/20/12 16:00	10/03/12 15:31	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/28/12 14:00	10/02/12 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	09/20/12 16:10	09/21/12 10:55	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**381**	umhos/cm	10.0	1		09/20/12 14:55		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-7_SEC4_20120912 **Lab ID: 60128975016** Collected: 09/12/12 12:15 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**244**	mg/L	6.0	1		09/20/12 17:17		
Salinity (as seawater)	**0.18**	PSU	0.010	1		09/20/12 17:17		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**94.3**	mg/L	20.0	1		09/20/12 12:22		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/20/12 12:22		
Alkalinity, Total as CaCO3	**94.3**	mg/L	20.0	1		09/20/12 12:22		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**252**	mg/L	5.0	1		09/19/12 15:27		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**11.0**	mg/L	5.0	1		09/19/12 10:22		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/18/12 14:10	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.1**	mg/L	1.0	1		09/23/12 19:01	16887-00-6	
Sulfate	**104**	mg/L	10.0	10		09/22/12 02:02	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/17/12 12:15		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/24/12 14:19	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.3**	mg/L	1.0	1		09/26/12 10:06	7440-44-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-7_SEC5_20120912 **Lab ID: 60128975017** Collected: 09/12/12 12:15 Received: 09/14/12 10:15 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	**54000**	ug/L	100	1	09/21/12 08:55	09/25/12 11:47	7440-70-2	B
Magnesium, Dissolved	**7410**	ug/L	50.0	1	09/21/12 08:55	09/25/12 11:47	7439-95-4	
Potassium, Dissolved	**777**	ug/L	500	1	09/21/12 08:55	09/25/12 11:47	7440-09-7	
Sodium, Dissolved	**3090**	ug/L	500	1	09/21/12 08:55	09/25/12 11:47	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	**388**	ug/L	4.0	1	09/27/12 20:39	10/08/12 12:24	7429-90-5	
Antimony	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 08:06	7440-36-0	
Arsenic	**0.67**	ug/L	0.50	1	09/27/12 20:39	10/07/12 08:06	7440-38-2	
Barium	**73.0**	ug/L	0.30	1	09/27/12 20:39	10/07/12 08:06	7440-39-3	
Beryllium	ND	ug/L	0.20	1	09/27/12 20:39	10/07/12 08:06	7440-41-7	
Cadmium	**0.44**	ug/L	0.080	1	09/27/12 20:39	10/08/12 12:24	7440-43-9	
Calcium	**55400**	ug/L	400	20	09/27/12 20:39	10/07/12 08:12	7440-70-2	
Chromium	**0.95**	ug/L	0.50	1	09/27/12 20:39	10/07/12 08:06	7440-47-3	
Cobalt	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 08:06	7440-48-4	
Copper	**1.7**	ug/L	0.50	1	09/27/12 20:39	10/07/12 08:06	7440-50-8	
Iron	**622**	ug/L	50.0	1	09/27/12 20:39	10/07/12 08:06	7439-89-6	
Lead	**0.84**	ug/L	0.10	1	09/27/12 20:39	10/08/12 12:24	7439-92-1	
Magnesium	**8070**	ug/L	5.0	1	09/27/12 20:39	10/12/12 14:53	7439-95-4	
Manganese	**151**	ug/L	0.50	1	09/27/12 20:39	10/07/12 08:06	7439-96-5	
Molybdenum	**1.4**	ug/L	0.50	1	09/27/12 20:39	10/07/12 08:06	7439-98-7	
Nickel	**0.96**	ug/L	0.50	1	09/27/12 20:39	10/07/12 08:06	7440-02-0	
Potassium	**1270**	ug/L	20.0	1	09/27/12 20:39	10/13/12 12:15	7440-09-7	
Selenium	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 08:06	7782-49-2	
Silica	**9470**	ug/L	268	5	09/27/12 20:39	10/12/12 14:59	7631-86-9	
Silver	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 08:06	7440-22-4	
Sodium	**3340**	ug/L	50.0	1	09/27/12 20:39	10/07/12 08:06	7440-23-5	
Thallium	ND	ug/L	0.10	1	09/27/12 20:39	10/07/12 08:06	7440-28-0	
Total Hardness by 2340B	**171000**	ug/L	1420	20	09/27/12 20:39	10/07/12 08:12		
Vanadium	**1.1**	ug/L	0.10	1	09/27/12 20:39	10/08/12 12:24	7440-62-2	
Zinc	**84.6**	ug/L	5.0	1	09/27/12 20:39	10/08/12 12:24	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	**10.4**	ug/L	4.0	1	09/27/12 20:42	10/07/12 09:40	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 09:40	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 09:40	7440-38-2	
Barium, Dissolved	**70.3**	ug/L	0.30	1	09/27/12 20:42	10/07/12 09:40	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	09/27/12 20:42	10/07/12 09:40	7440-41-7	
Cadmium, Dissolved	**0.40**	ug/L	0.080	1	09/27/12 20:42	10/07/12 09:40	7440-43-9	
Calcium, Dissolved	**65600**	ug/L	400	20	09/27/12 20:42	10/07/12 09:46	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 09:40	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 09:40	7440-48-4	
Copper, Dissolved	**0.88**	ug/L	0.50	1	09/27/12 20:42	10/07/12 09:40	7440-50-8	
Iron, Dissolved	ND	ug/L	50.0	1	09/27/12 20:42	10/07/12 09:40	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	09/27/12 20:42	10/07/12 09:40	7439-92-1	
Magnesium, Dissolved	**8180**	ug/L	100	20	09/27/12 20:42	10/07/12 09:46	7439-95-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-7_SEC5_20120912 **Lab ID: 60128975017** Collected: 09/12/12 12:15 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	**144**	ug/L	0.50	1	09/27/12 20:42	10/07/12 09:40	7439-96-5	
Molybdenum, Dissolved	**1.4**	ug/L	0.50	1	09/27/12 20:42	10/07/12 09:40	7439-98-7	
Nickel, Dissolved	**2.1**	ug/L	0.50	1	09/27/12 20:42	10/07/12 09:40	7440-02-0	
Potassium, Dissolved	**1090**	ug/L	20.0	1	09/27/12 20:42	10/07/12 09:40	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 09:40	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 09:40	7440-22-4	
Sodium, Dissolved	**3710**	ug/L	50.0	1	09/27/12 20:42	10/08/12 04:40	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/27/12 20:42	10/07/12 09:40	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	09/27/12 20:42	10/07/12 09:40	7440-62-2	
Zinc, Dissolved	**81.1**	ug/L	5.0	1	09/27/12 20:42	10/07/12 09:40	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**90.1**	ug/L	50.0	1	09/21/12 08:45	09/24/12 16:23	7429-90-5	
Antimony, Dissolved	**0.077J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:57	7440-36-0	
Arsenic, Dissolved	**0.37J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:57	7440-38-2	
Barium, Dissolved	**63.1**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:57	7440-39-3	B
Beryllium, Dissolved	ND	ug/L	0.50	1	09/21/12 08:45	09/24/12 16:23	7440-41-7	
Cadmium, Dissolved	**0.39J**	ug/L	0.50	1	09/21/12 08:45	09/24/12 12:57	7440-43-9	
Chromium, Dissolved	**0.78J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:57	7440-47-3	B
Cobalt, Dissolved	**0.27J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:57	7440-48-4	
Copper, Dissolved	**1.3**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:57	7440-50-8	
Iron, Dissolved	**284**	ug/L	50.0	1	09/21/12 08:45	09/24/12 12:57	7439-89-6	B
Lead, Dissolved	**0.65J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:57	7439-92-1	
Manganese, Dissolved	**139**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:57	7439-96-5	B
Molybdenum, Dissolved	**1.1**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:57	7439-98-7	
Nickel, Dissolved	**0.68J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:57	7440-02-0	B
Selenium, Dissolved	**0.35J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:57	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/21/12 08:45	09/24/12 12:57	7440-22-4	
Thallium, Dissolved	ND	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:57	7440-28-0	
Vanadium, Dissolved	ND	ug/L	1.0	1	09/21/12 08:45	09/24/12 12:57	7440-62-2	
Zinc, Dissolved	**84.2**	ug/L	10.0	1	09/21/12 08:45	09/24/12 12:57	7440-66-6	B
245.1 Mercury	Analytical Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/20/12 16:00	10/03/12 15:33	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/28/12 14:00	10/02/12 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	09/20/12 16:10	09/21/12 11:02	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**356**	umhos/cm	10.0	1		09/20/12 14:55		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-7_SEC5_20120912 **Lab ID: 60128975017** Collected: 09/12/12 12:15 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**228**	mg/L	6.0	1		09/20/12 17:17		
Salinity (as seawater)	**0.17**	PSU	0.010	1		09/20/12 17:17		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**94.2**	mg/L	20.0	1		09/20/12 12:34		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/20/12 12:34		
Alkalinity, Total as CaCO3	**94.2**	mg/L	20.0	1		09/20/12 12:34		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**237**	mg/L	5.0	1		09/19/12 15:28		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**9.0**	mg/L	5.0	1		09/19/12 10:22		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/18/12 14:10	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.2**	mg/L	1.0	1		09/23/12 19:17	16887-00-6	
Sulfate	**89.4**	mg/L	10.0	10		09/22/12 02:19	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/17/12 12:16		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/24/12 14:19	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.1**	mg/L	1.0	1		09/26/12 10:20	7440-44-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-7_SEC6_20120912 **Lab ID: 60128975018** Collected: 09/12/12 12:15 Received: 09/14/12 10:15 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	**52300**	ug/L	100	1	09/21/12 08:55	09/25/12 11:49	7440-70-2	B
Magnesium, Dissolved	**7210**	ug/L	50.0	1	09/21/12 08:55	09/25/12 11:49	7439-95-4	
Potassium, Dissolved	**695**	ug/L	500	1	09/21/12 08:55	09/25/12 11:49	7440-09-7	
Sodium, Dissolved	**3030**	ug/L	500	1	09/21/12 08:55	09/25/12 11:49	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	**371**	ug/L	4.0	1	09/27/12 20:39	10/08/12 12:30	7429-90-5	
Antimony	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 08:18	7440-36-0	
Arsenic	**0.69**	ug/L	0.50	1	09/27/12 20:39	10/07/12 08:18	7440-38-2	
Barium	**73.3**	ug/L	0.30	1	09/27/12 20:39	10/07/12 08:18	7440-39-3	
Beryllium	ND	ug/L	0.20	1	09/27/12 20:39	10/07/12 08:18	7440-41-7	
Cadmium	**0.40**	ug/L	0.080	1	09/27/12 20:39	10/08/12 12:30	7440-43-9	
Calcium	**55900**	ug/L	400	20	09/27/12 20:39	10/07/12 08:24	7440-70-2	
Chromium	**0.52**	ug/L	0.50	1	09/27/12 20:39	10/07/12 08:18	7440-47-3	
Cobalt	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 08:18	7440-48-4	
Copper	**1.0**	ug/L	0.50	1	09/27/12 20:39	10/07/12 08:18	7440-50-8	
Iron	**619**	ug/L	50.0	1	09/27/12 20:39	10/07/12 08:18	7439-89-6	
Lead	**0.65**	ug/L	0.10	1	09/27/12 20:39	10/08/12 12:30	7439-92-1	
Magnesium	**7960**	ug/L	5.0	1	09/27/12 20:39	10/12/12 15:04	7439-95-4	
Manganese	**142**	ug/L	0.50	1	09/27/12 20:39	10/07/12 08:18	7439-96-5	
Molybdenum	**1.3**	ug/L	0.50	1	09/27/12 20:39	10/07/12 08:18	7439-98-7	
Nickel	**0.85**	ug/L	0.50	1	09/27/12 20:39	10/07/12 08:18	7440-02-0	
Potassium	**1180**	ug/L	20.0	1	09/27/12 20:39	10/13/12 12:21	7440-09-7	
Selenium	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 08:18	7782-49-2	
Silica	**9000**	ug/L	268	5	09/27/12 20:39	10/12/12 15:10	7631-86-9	
Silver	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 08:18	7440-22-4	
Sodium	**3320**	ug/L	50.0	1	09/27/12 20:39	10/07/12 08:18	7440-23-5	
Thallium	ND	ug/L	0.10	1	09/27/12 20:39	10/07/12 08:18	7440-28-0	
Total Hardness by 2340B	**172000**	ug/L	1420	20	09/27/12 20:39	10/07/12 08:24		
Vanadium	**1.0**	ug/L	0.10	1	09/27/12 20:39	10/08/12 12:30	7440-62-2	
Zinc	**67.6**	ug/L	5.0	1	09/27/12 20:39	10/08/12 12:30	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	**7.5**	ug/L	4.0	1	09/27/12 20:42	10/07/12 09:52	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 09:52	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 09:52	7440-38-2	
Barium, Dissolved	**70.7**	ug/L	0.30	1	09/27/12 20:42	10/07/12 09:52	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	09/27/12 20:42	10/07/12 09:52	7440-41-7	
Cadmium, Dissolved	**0.29**	ug/L	0.080	1	09/27/12 20:42	10/07/12 09:52	7440-43-9	
Calcium, Dissolved	**63800**	ug/L	400	20	09/27/12 20:42	10/07/12 09:57	7440-70-2	M1
Chromium, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 09:52	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 09:52	7440-48-4	
Copper, Dissolved	**0.93**	ug/L	0.50	1	09/27/12 20:42	10/07/12 09:52	7440-50-8	
Iron, Dissolved	ND	ug/L	50.0	1	09/27/12 20:42	10/07/12 09:52	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	09/27/12 20:42	10/07/12 09:52	7439-92-1	
Magnesium, Dissolved	**8070**	ug/L	100	20	09/27/12 20:42	10/07/12 09:57	7439-95-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-7_SEC6_20120912 **Lab ID: 60128975018** Collected: 09/12/12 12:15 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	**136**	ug/L	0.50	1	09/27/12 20:42	10/07/12 09:52	7439-96-5	
Molybdenum, Dissolved	**1.4**	ug/L	0.50	1	09/27/12 20:42	10/07/12 09:52	7439-98-7	
Nickel, Dissolved	**3.3**	ug/L	0.50	1	09/27/12 20:42	10/07/12 09:52	7440-02-0	
Potassium, Dissolved	**1090**	ug/L	20.0	1	09/27/12 20:42	10/07/12 09:52	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 09:52	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 09:52	7440-22-4	
Sodium, Dissolved	**3660**	ug/L	50.0	1	09/27/12 20:42	10/08/12 04:46	7440-23-5	M1
Thallium, Dissolved	ND	ug/L	0.10	1	09/27/12 20:42	10/07/12 09:52	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	09/27/12 20:42	10/07/12 09:52	7440-62-2	
Zinc, Dissolved	**64.2**	ug/L	5.0	1	09/27/12 20:42	10/07/12 09:52	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**84.0**	ug/L	50.0	1	09/21/12 08:45	09/24/12 16:25	7429-90-5	
Antimony, Dissolved	**0.079J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:01	7440-36-0	
Arsenic, Dissolved	**0.41J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:01	7440-38-2	
Barium, Dissolved	**63.7**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:01	7440-39-3	B
Beryllium, Dissolved	ND	ug/L	0.50	1	09/21/12 08:45	09/24/12 16:25	7440-41-7	
Cadmium, Dissolved	**0.33J**	ug/L	0.50	1	09/21/12 08:45	09/24/12 13:01	7440-43-9	
Chromium, Dissolved	**1.1**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:01	7440-47-3	B
Cobalt, Dissolved	**0.27J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:01	7440-48-4	
Copper, Dissolved	**1.1**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:01	7440-50-8	
Iron, Dissolved	**276**	ug/L	50.0	1	09/21/12 08:45	09/24/12 13:01	7439-89-6	B
Lead, Dissolved	**0.48J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:01	7439-92-1	
Manganese, Dissolved	**128**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:01	7439-96-5	B
Molybdenum, Dissolved	**1.1**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:01	7439-98-7	
Nickel, Dissolved	**0.76J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:01	7440-02-0	B
Selenium, Dissolved	**0.40J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:01	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/21/12 08:45	09/24/12 13:01	7440-22-4	
Thallium, Dissolved	ND	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:01	7440-28-0	
Vanadium, Dissolved	ND	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:01	7440-62-2	
Zinc, Dissolved	**64.5**	ug/L	10.0	1	09/21/12 08:45	09/24/12 13:01	7440-66-6	B
245.1 Mercury	Analytical Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/20/12 16:00	10/03/12 15:36	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/28/12 14:00	10/02/12 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	09/20/12 16:10	09/21/12 11:11	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**345**	umhos/cm	10.0	1		09/20/12 14:53		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-7_SEC6_20120912 **Lab ID: 60128975018** Collected: 09/12/12 12:15 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**221**	mg/L	6.0	1		09/20/12 17:17		
Salinity (as seawater)	**0.17**	PSU	0.010	1		09/20/12 17:17		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**92.0**	mg/L	20.0	1		09/20/12 12:38		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/20/12 12:38		
Alkalinity, Total as CaCO3	**92.0**	mg/L	20.0	1		09/20/12 12:38		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**220**	mg/L	5.0	1		09/19/12 15:28		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**12.0**	mg/L	5.0	1		09/19/12 10:23		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/18/12 14:19	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.2**	mg/L	1.0	1		09/23/12 19:33	16887-00-6	
Sulfate	**85.3**	mg/L	10.0	10		09/22/12 03:11	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/17/12 12:17		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/24/12 14:20	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		09/26/12 10:34	7440-44-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-7_SEC7_20120912 **Lab ID: 60128975019** Collected: 09/12/12 12:15 Received: 09/14/12 10:15 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	**51400**	ug/L	100	1	09/21/12 08:55	09/27/12 10:20	7440-70-2	B
Magnesium, Dissolved	**6690**	ug/L	50.0	1	09/21/12 08:55	09/27/12 10:20	7439-95-4	
Potassium, Dissolved	**990**	ug/L	500	1	09/21/12 08:55	09/27/12 10:20	7440-09-7	
Sodium, Dissolved	**3460**	ug/L	500	1	09/21/12 08:55	09/27/12 10:20	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	**218**	ug/L	4.0	1	09/27/12 20:39	10/08/12 12:36	7429-90-5	M1
Antimony	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 08:42	7440-36-0	
Arsenic	**0.62**	ug/L	0.50	1	09/27/12 20:39	10/07/12 08:42	7440-38-2	
Barium	**72.3**	ug/L	0.30	1	09/27/12 20:39	10/07/12 08:42	7440-39-3	
Beryllium	ND	ug/L	0.20	1	09/27/12 20:39	10/07/12 08:42	7440-41-7	
Cadmium	**0.26**	ug/L	0.080	1	09/27/12 20:39	10/08/12 12:36	7440-43-9	
Calcium	**57600**	ug/L	100	5	09/27/12 20:39	10/07/12 08:48	7440-70-2	M1
Chromium	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 08:42	7440-47-3	
Cobalt	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 08:42	7440-48-4	
Copper	**0.84**	ug/L	0.50	1	09/27/12 20:39	10/07/12 08:42	7440-50-8	
Iron	**450**	ug/L	50.0	1	09/27/12 20:39	10/07/12 08:42	7439-89-6	M1
Lead	**0.57**	ug/L	0.10	1	09/27/12 20:39	10/08/12 12:36	7439-92-1	
Magnesium	**7920**	ug/L	5.0	1	09/27/12 20:39	10/12/12 15:16	7439-95-4	
Manganese	**132**	ug/L	0.50	1	09/27/12 20:39	10/07/12 08:42	7439-96-5	
Molybdenum	**1.2**	ug/L	0.50	1	09/27/12 20:39	10/08/12 12:36	7439-98-7	
Nickel	**0.64**	ug/L	0.50	1	09/27/12 20:39	10/07/12 08:42	7440-02-0	
Potassium	**1170**	ug/L	20.0	1	09/27/12 20:39	10/13/12 12:27	7440-09-7	
Selenium	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 08:42	7782-49-2	
Silica	**9870**	ug/L	268	5	09/27/12 20:39	10/12/12 15:22	7631-86-9	
Silver	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 08:42	7440-22-4	
Sodium	**3300**	ug/L	50.0	1	09/27/12 20:39	10/07/12 08:42	7440-23-5	
Thallium	ND	ug/L	0.10	1	09/27/12 20:39	10/07/12 08:42	7440-28-0	
Total Hardness by 2340B	**176000**	ug/L	355	5	09/27/12 20:39	10/07/12 08:48		
Vanadium	**0.64**	ug/L	0.10	1	09/27/12 20:39	10/08/12 12:36	7440-62-2	
Zinc	**46.5**	ug/L	5.0	1	09/27/12 20:39	10/08/12 12:36	7440-66-6	M1
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	**8.0**	ug/L	4.0	1	09/27/12 20:42	10/07/12 10:27	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 10:27	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 10:27	7440-38-2	
Barium, Dissolved	**70.6**	ug/L	0.30	1	09/27/12 20:42	10/07/12 10:27	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	09/27/12 20:42	10/07/12 10:27	7440-41-7	
Cadmium, Dissolved	**0.24**	ug/L	0.080	1	09/27/12 20:42	10/07/12 10:27	7440-43-9	
Calcium, Dissolved	**62700**	ug/L	400	20	09/27/12 20:42	10/07/12 10:33	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 10:27	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 10:27	7440-48-4	
Copper, Dissolved	**0.78**	ug/L	0.50	1	09/27/12 20:42	10/07/12 10:27	7440-50-8	
Iron, Dissolved	ND	ug/L	50.0	1	09/27/12 20:42	10/07/12 10:27	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	09/27/12 20:42	10/07/12 10:27	7439-92-1	
Magnesium, Dissolved	**8070**	ug/L	100	20	09/27/12 20:42	10/07/12 10:33	7439-95-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-7_SEC7_20120912 **Lab ID: 60128975019** Collected: 09/12/12 12:15 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	**126**	ug/L	0.50	1	09/27/12 20:42	10/07/12 10:27	7439-96-5	
Molybdenum, Dissolved	**1.2**	ug/L	0.50	1	09/27/12 20:42	10/07/12 10:27	7439-98-7	
Nickel, Dissolved	**0.92**	ug/L	0.50	1	09/27/12 20:42	10/07/12 10:27	7440-02-0	
Potassium, Dissolved	**1090**	ug/L	20.0	1	09/27/12 20:42	10/07/12 10:27	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 10:27	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 10:27	7440-22-4	
Sodium, Dissolved	**3590**	ug/L	50.0	1	09/27/12 20:42	10/08/12 05:27	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/27/12 20:42	10/07/12 10:27	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	09/27/12 20:42	10/07/12 10:27	7440-62-2	
Zinc, Dissolved	**44.4**	ug/L	5.0	1	09/27/12 20:42	10/07/12 10:27	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**86.0**	ug/L	50.0	1	09/21/12 08:45	09/24/12 16:28	7429-90-5	
Antimony, Dissolved	**0.076J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:05	7440-36-0	
Arsenic, Dissolved	**0.43J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:05	7440-38-2	
Barium, Dissolved	**66.4**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:05	7440-39-3	B
Beryllium, Dissolved	ND	ug/L	0.50	1	09/21/12 08:45	09/24/12 16:28	7440-41-7	
Cadmium, Dissolved	**0.22J**	ug/L	0.50	1	09/21/12 08:45	09/24/12 13:05	7440-43-9	
Chromium, Dissolved	**0.78J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:05	7440-47-3	B
Cobalt, Dissolved	**0.28J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:05	7440-48-4	
Copper, Dissolved	**0.97J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:05	7440-50-8	
Iron, Dissolved	**280**	ug/L	50.0	1	09/21/12 08:45	09/24/12 13:05	7439-89-6	B
Lead, Dissolved	**0.52J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:05	7439-92-1	
Manganese, Dissolved	**125**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:05	7439-96-5	B
Molybdenum, Dissolved	**0.98J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:05	7439-98-7	
Nickel, Dissolved	**0.82J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:05	7440-02-0	B
Selenium, Dissolved	**0.41J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:05	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/21/12 08:45	09/24/12 13:05	7440-22-4	
Thallium, Dissolved	ND	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:05	7440-28-0	
Vanadium, Dissolved	ND	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:05	7440-62-2	
Zinc, Dissolved	**48.2**	ug/L	10.0	1	09/21/12 08:45	09/24/12 13:05	7440-66-6	B
245.1 Mercury	Analytical Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/20/12 16:00	10/03/12 15:38	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/28/12 14:00	10/02/12 15:41	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	09/20/12 16:10	09/21/12 11:13	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**359**	umhos/cm	10.0	1		09/23/12 14:58		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-7_SEC7_20120912 **Lab ID: 60128975019** Collected: 09/12/12 12:15 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**230**	mg/L	6.0	1		09/20/12 17:17		
Salinity (as seawater)	**0.17**	PSU	0.010	1		09/20/12 17:17		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**92.8**	mg/L	20.0	1		09/20/12 12:43		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/20/12 12:43		
Alkalinity, Total as CaCO3	**92.8**	mg/L	20.0	1		09/20/12 12:43		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**226**	mg/L	5.0	1		09/19/12 15:28		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**8.0**	mg/L	5.0	1		09/19/12 10:23		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/18/12 14:20	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.2**	mg/L	1.0	1		09/23/12 19:48	16887-00-6	
Sulfate	**82.5**	mg/L	10.0	10		09/22/12 03:29	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/18/12 13:37		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/24/12 17:01	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.1**	mg/L	1.0	1		09/26/12 10:48	7440-44-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-7_SEC8_20120912 **Lab ID: 60128975020** Collected: 09/12/12 12:15 Received: 09/14/12 10:15 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	**52400**	ug/L	100	1	09/21/12 08:55	09/25/12 11:54	7440-70-2	B
Magnesium, Dissolved	**7240**	ug/L	50.0	1	09/21/12 08:55	09/25/12 11:54	7439-95-4	
Potassium, Dissolved	**673**	ug/L	500	1	09/21/12 08:55	09/25/12 11:54	7440-09-7	
Sodium, Dissolved	**3100**	ug/L	500	1	09/21/12 08:55	09/25/12 11:54	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	**348**	ug/L	4.0	1	09/27/12 20:39	10/08/12 12:48	7429-90-5	
Antimony	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 09:06	7440-36-0	
Arsenic	**0.68**	ug/L	0.50	1	09/27/12 20:39	10/07/12 09:06	7440-38-2	
Barium	**74.4**	ug/L	0.30	1	09/27/12 20:39	10/07/12 09:06	7440-39-3	
Beryllium	ND	ug/L	0.20	1	09/27/12 20:39	10/07/12 09:06	7440-41-7	
Cadmium	**0.23**	ug/L	0.080	1	09/27/12 20:39	10/08/12 12:48	7440-43-9	
Calcium	**57800**	ug/L	400	20	09/27/12 20:39	10/07/12 09:12	7440-70-2	
Chromium	**0.54**	ug/L	0.50	1	09/27/12 20:39	10/07/12 09:06	7440-47-3	
Cobalt	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 09:06	7440-48-4	
Copper	**0.97**	ug/L	0.50	1	09/27/12 20:39	10/07/12 09:06	7440-50-8	
Iron	**627**	ug/L	50.0	1	09/27/12 20:39	10/07/12 09:06	7439-89-6	
Lead	**0.61**	ug/L	0.10	1	09/27/12 20:39	10/08/12 12:48	7439-92-1	
Magnesium	**8140**	ug/L	5.0	1	09/27/12 20:39	10/12/12 15:47	7439-95-4	
Manganese	**139**	ug/L	0.50	1	09/27/12 20:39	10/07/12 09:06	7439-96-5	
Molybdenum	**1.4**	ug/L	0.50	1	09/27/12 20:39	10/08/12 12:48	7439-98-7	
Nickel	**0.78**	ug/L	0.50	1	09/27/12 20:39	10/07/12 09:06	7440-02-0	
Potassium	**1260**	ug/L	20.0	1	09/27/12 20:39	10/13/12 12:40	7440-09-7	
Selenium	**0.52**	ug/L	0.50	1	09/27/12 20:39	10/07/12 09:06	7782-49-2	
Silica	**11300**	ug/L	268	5	09/27/12 20:39	10/12/12 15:53	7631-86-9	
Silver	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 09:06	7440-22-4	
Sodium	**3390**	ug/L	50.0	1	09/27/12 20:39	10/07/12 09:06	7440-23-5	
Thallium	ND	ug/L	0.10	1	09/27/12 20:39	10/07/12 09:06	7440-28-0	
Total Hardness by 2340B	**178000**	ug/L	1420	20	09/27/12 20:39	10/07/12 09:12		
Vanadium	**0.95**	ug/L	0.10	1	09/27/12 20:39	10/08/12 12:48	7440-62-2	
Zinc	**39.6**	ug/L	5.0	1	09/27/12 20:39	10/08/12 12:48	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	**6.5**	ug/L	4.0	1	09/27/12 20:42	10/07/12 10:38	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 10:38	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 10:38	7440-38-2	
Barium, Dissolved	**71.1**	ug/L	0.30	1	09/27/12 20:42	10/07/12 10:38	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	09/27/12 20:42	10/07/12 10:38	7440-41-7	
Cadmium, Dissolved	**0.20**	ug/L	0.080	1	09/27/12 20:42	10/07/12 10:38	7440-43-9	
Calcium, Dissolved	**64800**	ug/L	400	20	09/27/12 20:42	10/07/12 10:44	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 10:38	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 10:38	7440-48-4	
Copper, Dissolved	**0.54**	ug/L	0.50	1	09/27/12 20:42	10/07/12 10:38	7440-50-8	
Iron, Dissolved	ND	ug/L	50.0	1	09/27/12 20:42	10/07/12 10:38	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	09/27/12 20:42	10/07/12 10:38	7439-92-1	
Magnesium, Dissolved	**8100**	ug/L	100	20	09/27/12 20:42	10/07/12 10:44	7439-95-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-7_SEC8_20120912 **Lab ID: 60128975020** Collected: 09/12/12 12:15 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	**134**	ug/L	0.50	1	09/27/12 20:42	10/07/12 10:38	7439-96-5	
Molybdenum, Dissolved	**1.3**	ug/L	0.50	1	09/27/12 20:42	10/07/12 10:38	7439-98-7	
Nickel, Dissolved	**0.80**	ug/L	0.50	1	09/27/12 20:42	10/07/12 10:38	7440-02-0	
Potassium, Dissolved	**1140**	ug/L	20.0	1	09/27/12 20:42	10/07/12 10:38	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 10:38	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 10:38	7440-22-4	
Sodium, Dissolved	**3720**	ug/L	50.0	1	09/27/12 20:42	10/08/12 05:33	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/27/12 20:42	10/07/12 10:38	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	09/27/12 20:42	10/07/12 10:38	7440-62-2	
Zinc, Dissolved	**37.6**	ug/L	5.0	1	09/27/12 20:42	10/07/12 10:38	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**79.4**	ug/L	50.0	1	09/21/12 08:45	09/24/12 16:30	7429-90-5	
Antimony, Dissolved	**0.065J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:10	7440-36-0	
Arsenic, Dissolved	**0.54J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:10	7440-38-2	
Barium, Dissolved	**64.0**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:10	7440-39-3	B
Beryllium, Dissolved	ND	ug/L	0.50	1	09/21/12 08:45	09/24/12 16:30	7440-41-7	
Cadmium, Dissolved	**0.18J**	ug/L	0.50	1	09/21/12 08:45	09/24/12 13:10	7440-43-9	
Chromium, Dissolved	**0.49J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:10	7440-47-3	B
Cobalt, Dissolved	**0.28J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:10	7440-48-4	
Copper, Dissolved	**28.9**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:10	7440-50-8	
Iron, Dissolved	**346**	ug/L	50.0	1	09/21/12 08:45	09/24/12 13:10	7439-89-6	B
Lead, Dissolved	**0.46J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:10	7439-92-1	
Manganese, Dissolved	**129**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:10	7439-96-5	B
Molybdenum, Dissolved	**0.95J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:10	7439-98-7	
Nickel, Dissolved	**9.8**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:10	7440-02-0	B
Selenium, Dissolved	ND	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:10	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/21/12 08:45	09/24/12 13:10	7440-22-4	
Thallium, Dissolved	ND	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:10	7440-28-0	
Vanadium, Dissolved	ND	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:10	7440-62-2	
Zinc, Dissolved	**41.1**	ug/L	10.0	1	09/21/12 08:45	09/24/12 13:10	7440-66-6	B
245.1 Mercury	Analytical Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/20/12 16:00	10/03/12 15:46	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/28/12 14:00	10/02/12 15:43	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	09/20/12 16:10	09/21/12 11:15	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**354**	umhos/cm	10.0	1		09/23/12 14:59		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-7_SEC8_20120912 **Lab ID: 60128975020** Collected: 09/12/12 12:15 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**226**	mg/L	6.0	1		09/20/12 17:17		
Salinity (as seawater)	**0.17**	PSU	0.010	1		09/20/12 17:17		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**99.4**	mg/L	20.0	1		09/20/12 12:47		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/20/12 12:47		
Alkalinity, Total as CaCO3	**99.4**	mg/L	20.0	1		09/20/12 12:47		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**221**	mg/L	5.0	1		09/19/12 15:29		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**9.0**	mg/L	5.0	1		09/19/12 10:23		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/18/12 14:21	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.4**	mg/L	1.0	1		09/23/12 20:04	16887-00-6	
Sulfate	**82.4**	mg/L	10.0	10		09/22/12 03:46	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/18/12 13:39		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/24/12 17:03	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.1**	mg/L	1.0	1		09/26/12 11:03	7440-44-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-4-SW_SEC1_20120912 **Lab ID: 60128975021** Collected: 09/12/12 10:25 Received: 09/14/12 10:15 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	**58200**	ug/L	100	1	09/21/12 08:55	09/25/12 12:00	7440-70-2	B
Magnesium, Dissolved	**7940**	ug/L	50.0	1	09/21/12 08:55	09/25/12 12:00	7439-95-4	
Potassium, Dissolved	**742**	ug/L	500	1	09/21/12 08:55	09/25/12 12:00	7440-09-7	
Sodium, Dissolved	**3360**	ug/L	500	1	09/21/12 08:55	09/25/12 12:00	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	**81.2**	ug/L	4.0	1	09/27/12 20:39	10/08/12 12:54	7429-90-5	
Antimony	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 09:18	7440-36-0	
Arsenic	**0.55**	ug/L	0.50	1	09/27/12 20:39	10/07/12 09:18	7440-38-2	
Barium	**73.5**	ug/L	0.30	1	09/27/12 20:39	10/07/12 09:18	7440-39-3	
Beryllium	ND	ug/L	0.20	1	09/27/12 20:39	10/07/12 09:18	7440-41-7	
Cadmium	**0.62**	ug/L	0.080	1	09/27/12 20:39	10/08/12 12:54	7440-43-9	
Calcium	**62100**	ug/L	400	20	09/27/12 20:39	10/07/12 09:24	7440-70-2	
Chromium	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 09:18	7440-47-3	
Cobalt	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 09:18	7440-48-4	
Copper	**1.1**	ug/L	0.50	1	09/27/12 20:39	10/07/12 09:18	7440-50-8	
Iron	**254**	ug/L	50.0	1	09/27/12 20:39	10/07/12 09:18	7439-89-6	
Lead	**0.74**	ug/L	0.10	1	09/27/12 20:39	10/08/12 12:54	7439-92-1	
Magnesium	**8630**	ug/L	5.0	1	09/27/12 20:39	10/12/12 15:59	7439-95-4	
Manganese	**156**	ug/L	0.50	1	09/27/12 20:39	10/07/12 09:18	7439-96-5	
Molybdenum	**1.5**	ug/L	0.50	1	09/27/12 20:39	10/08/12 12:54	7439-98-7	
Nickel	**0.55**	ug/L	0.50	1	09/27/12 20:39	10/07/12 09:18	7440-02-0	
Potassium	**1140**	ug/L	20.0	1	09/27/12 20:39	10/13/12 12:46	7440-09-7	
Selenium	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 09:18	7782-49-2	
Silica	**8820**	ug/L	268	5	09/27/12 20:39	10/12/12 16:05	7631-86-9	
Silver	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 09:18	7440-22-4	
Sodium	**3570**	ug/L	50.0	1	09/27/12 20:39	10/07/12 09:18	7440-23-5	
Thallium	ND	ug/L	0.10	1	09/27/12 20:39	10/07/12 09:18	7440-28-0	
Total Hardness by 2340B	**191000**	ug/L	1420	20	09/27/12 20:39	10/07/12 09:24		
Vanadium	**0.29**	ug/L	0.10	1	09/27/12 20:39	10/08/12 12:54	7440-62-2	
Zinc	**107**	ug/L	5.0	1	09/27/12 20:39	10/08/12 12:54	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	**8.4**	ug/L	4.0	1	09/27/12 20:42	10/07/12 10:50	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 10:50	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 10:50	7440-38-2	
Barium, Dissolved	**71.6**	ug/L	0.30	1	09/27/12 20:42	10/07/12 10:50	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	09/27/12 20:42	10/08/12 12:32	7440-41-7	
Cadmium, Dissolved	**0.53**	ug/L	0.080	1	09/27/12 20:42	10/07/12 10:50	7440-43-9	
Calcium, Dissolved	**69200**	ug/L	400	20	09/27/12 20:42	10/07/12 10:56	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 10:50	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 10:50	7440-48-4	
Copper, Dissolved	**1.7**	ug/L	0.50	1	09/27/12 20:42	10/07/12 10:50	7440-50-8	
Iron, Dissolved	ND	ug/L	50.0	1	09/27/12 20:42	10/07/12 10:50	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	09/27/12 20:42	10/08/12 12:32	7439-92-1	
Magnesium, Dissolved	**8760**	ug/L	100	20	09/27/12 20:42	10/07/12 10:56	7439-95-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-4-SW_SEC1_20120912 **Lab ID: 60128975021** Collected: 09/12/12 10:25 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	**149**	ug/L	0.50	1	09/27/12 20:42	10/07/12 10:50	7439-96-5	
Molybdenum, Dissolved	**1.4**	ug/L	0.50	1	09/27/12 20:42	10/07/12 10:50	7439-98-7	
Nickel, Dissolved	**2.0**	ug/L	0.50	1	09/27/12 20:42	10/07/12 10:50	7440-02-0	
Potassium, Dissolved	**1170**	ug/L	20.0	1	09/27/12 20:42	10/07/12 10:50	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 10:50	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 10:50	7440-22-4	
Sodium, Dissolved	**3840**	ug/L	50.0	1	09/27/12 20:42	10/08/12 05:39	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/27/12 20:42	10/07/12 10:50	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	09/27/12 20:42	10/07/12 10:50	7440-62-2	
Zinc, Dissolved	**107**	ug/L	5.0	1	09/27/12 20:42	10/07/12 10:50	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**32.3J**	ug/L	50.0	1	09/21/12 08:45	09/24/12 16:40	7429-90-5	
Antimony, Dissolved	**0.084J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:31	7440-36-0	
Arsenic, Dissolved	**0.44J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:31	7440-38-2	
Barium, Dissolved	**64.6**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:31	7440-39-3	B
Beryllium, Dissolved	ND	ug/L	0.50	1	09/21/12 08:45	09/24/12 16:40	7440-41-7	
Cadmium, Dissolved	**0.54**	ug/L	0.50	1	09/21/12 08:45	09/24/12 13:31	7440-43-9	
Chromium, Dissolved	**0.62J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:31	7440-47-3	B
Cobalt, Dissolved	**0.20J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:31	7440-48-4	
Copper, Dissolved	**1.2**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:31	7440-50-8	
Iron, Dissolved	**175**	ug/L	50.0	1	09/21/12 08:45	09/24/12 13:31	7439-89-6	
Lead, Dissolved	**0.76J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:31	7439-92-1	
Manganese, Dissolved	**147**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:31	7439-96-5	
Molybdenum, Dissolved	**1.5**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:31	7439-98-7	
Nickel, Dissolved	ND	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:31	7440-02-0	
Selenium, Dissolved	**0.40J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:31	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/21/12 08:45	09/24/12 13:31	7440-22-4	
Thallium, Dissolved	**0.069J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:31	7440-28-0	
Vanadium, Dissolved	ND	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:31	7440-62-2	
Zinc, Dissolved	**108**	ug/L	10.0	1	09/21/12 08:45	09/24/12 13:31	7440-66-6	B
245.1 Mercury	Analytical Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/20/12 16:00	10/03/12 15:48	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/28/12 14:00	10/02/12 15:45	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	09/20/12 16:10	09/21/12 11:17	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**390**	umhos/cm	10.0	1		09/23/12 15:04		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-4-SW_SEC1_20120912 **Lab ID: 60128975021** Collected: 09/12/12 10:25 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**250**	mg/L	6.0	1		09/20/12 17:17		
Salinity (as seawater)	**0.19**	PSU	0.010	1		09/20/12 17:17		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**104**	mg/L	20.0	1		09/20/12 14:04		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/20/12 14:04		
Alkalinity, Total as CaCO3	**104**	mg/L	20.0	1		09/20/12 14:04		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**238**	mg/L	5.0	1		09/19/12 15:29		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	ND	mg/L	5.0	1		09/19/12 10:24		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	**0.052**	mg/L	0.050	1		09/18/12 14:21	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.5**	mg/L	1.0	1		09/24/12 23:20	16887-00-6	
Sulfate	**87.0**	mg/L	5.0	5		09/24/12 23:36	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/18/12 13:40		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/24/12 17:06	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		09/26/12 11:17	7440-44-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-4-SW_SEC2_20120912 **Lab ID: 60128975022** Collected: 09/12/12 10:25 Received: 09/14/12 10:15 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	**58300**	ug/L	100	1	09/21/12 08:55	09/25/12 12:02	7440-70-2	B
Magnesium, Dissolved	**7850**	ug/L	50.0	1	09/21/12 08:55	09/25/12 12:02	7439-95-4	
Potassium, Dissolved	**846**	ug/L	500	1	09/21/12 08:55	09/25/12 12:02	7440-09-7	
Sodium, Dissolved	**3340**	ug/L	500	1	09/21/12 08:55	09/25/12 12:02	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	**85.6**	ug/L	4.0	1	09/27/12 20:39	10/08/12 13:00	7429-90-5	
Antimony	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 09:30	7440-36-0	
Arsenic	**0.56**	ug/L	0.50	1	09/27/12 20:39	10/07/12 09:30	7440-38-2	
Barium	**71.5**	ug/L	0.30	1	09/27/12 20:39	10/07/12 09:30	7440-39-3	
Beryllium	ND	ug/L	0.20	1	09/27/12 20:39	10/07/12 09:30	7440-41-7	
Cadmium	**0.58**	ug/L	0.080	1	09/27/12 20:39	10/08/12 13:00	7440-43-9	
Calcium	**61800**	ug/L	400	20	09/27/12 20:39	10/07/12 09:36	7440-70-2	
Chromium	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 09:30	7440-47-3	
Cobalt	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 09:30	7440-48-4	
Copper	**1.5**	ug/L	0.50	1	09/27/12 20:39	10/07/12 09:30	7440-50-8	
Iron	**250**	ug/L	50.0	1	09/27/12 20:39	10/07/12 09:30	7439-89-6	
Lead	**0.63**	ug/L	0.10	1	09/27/12 20:39	10/08/12 13:00	7439-92-1	
Magnesium	**8550**	ug/L	5.0	1	09/27/12 20:39	10/12/12 16:10	7439-95-4	
Manganese	**154**	ug/L	0.50	1	09/27/12 20:39	10/07/12 09:30	7439-96-5	
Molybdenum	**1.4**	ug/L	0.50	1	09/27/12 20:39	10/08/12 13:00	7439-98-7	
Nickel	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 09:30	7440-02-0	
Potassium	**1130**	ug/L	20.0	1	09/27/12 20:39	10/13/12 12:52	7440-09-7	
Selenium	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 09:30	7782-49-2	
Silica	**8710**	ug/L	268	5	09/27/12 20:39	10/12/12 16:16	7631-86-9	
Silver	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 09:30	7440-22-4	
Sodium	**3510**	ug/L	50.0	1	09/27/12 20:39	10/07/12 09:30	7440-23-5	
Thallium	ND	ug/L	0.10	1	09/27/12 20:39	10/07/12 09:30	7440-28-0	
Total Hardness by 2340B	**190000**	ug/L	1420	20	09/27/12 20:39	10/07/12 09:36		
Vanadium	**0.30**	ug/L	0.10	1	09/27/12 20:39	10/08/12 13:00	7440-62-2	
Zinc	**106**	ug/L	5.0	1	09/27/12 20:39	10/08/12 13:00	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	**9.8**	ug/L	4.0	1	09/27/12 20:42	10/07/12 11:02	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 11:02	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 11:02	7440-38-2	
Barium, Dissolved	**71.8**	ug/L	0.30	1	09/27/12 20:42	10/07/12 11:02	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	09/27/12 20:42	10/07/12 11:02	7440-41-7	
Cadmium, Dissolved	**0.53**	ug/L	0.080	1	09/27/12 20:42	10/07/12 11:02	7440-43-9	
Calcium, Dissolved	**68800**	ug/L	400	20	09/27/12 20:42	10/07/12 11:07	7440-70-2	
Chromium, Dissolved	**2.2**	ug/L	0.50	1	09/27/12 20:42	10/07/12 11:02	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 11:02	7440-48-4	
Copper, Dissolved	**0.85**	ug/L	0.50	1	09/27/12 20:42	10/07/12 11:02	7440-50-8	
Iron, Dissolved	ND	ug/L	50.0	1	09/27/12 20:42	10/07/12 11:02	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	09/27/12 20:42	10/07/12 11:02	7439-92-1	
Magnesium, Dissolved	**8810**	ug/L	100	20	09/27/12 20:42	10/07/12 11:07	7439-95-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-4-SW_SEC2_20120912 **Lab ID: 60128975022** Collected: 09/12/12 10:25 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	**152**	ug/L	0.50	1	09/27/12 20:42	10/07/12 11:02	7439-96-5	
Molybdenum, Dissolved	**1.4**	ug/L	0.50	1	09/27/12 20:42	10/07/12 11:02	7439-98-7	
Nickel, Dissolved	**1.7**	ug/L	0.50	1	09/27/12 20:42	10/07/12 11:02	7440-02-0	
Potassium, Dissolved	**1180**	ug/L	20.0	1	09/27/12 20:42	10/07/12 11:02	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 11:02	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 11:02	7440-22-4	
Sodium, Dissolved	**3890**	ug/L	50.0	1	09/27/12 20:42	10/08/12 05:45	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/27/12 20:42	10/07/12 11:02	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	09/27/12 20:42	10/07/12 11:02	7440-62-2	
Zinc, Dissolved	**106**	ug/L	5.0	1	09/27/12 20:42	10/07/12 11:02	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**31.8J**	ug/L	50.0	1	09/21/12 08:45	09/24/12 16:42	7429-90-5	
Antimony, Dissolved	**0.077J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:35	7440-36-0	
Arsenic, Dissolved	**0.40J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:35	7440-38-2	
Barium, Dissolved	**65.8**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:35	7440-39-3	B
Beryllium, Dissolved	ND	ug/L	0.50	1	09/21/12 08:45	09/24/12 16:42	7440-41-7	
Cadmium, Dissolved	**0.54**	ug/L	0.50	1	09/21/12 08:45	09/24/12 13:35	7440-43-9	
Chromium, Dissolved	**2.3**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:35	7440-47-3	B
Cobalt, Dissolved	**0.22J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:35	7440-48-4	
Copper, Dissolved	**1.2**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:35	7440-50-8	
Iron, Dissolved	**184**	ug/L	50.0	1	09/21/12 08:45	09/24/12 13:35	7439-89-6	
Lead, Dissolved	**0.59J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:35	7439-92-1	
Manganese, Dissolved	**147**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:35	7439-96-5	
Molybdenum, Dissolved	**1.4**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:35	7439-98-7	
Nickel, Dissolved	**0.78J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:35	7440-02-0	
Selenium, Dissolved	**0.42J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:35	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/21/12 08:45	09/24/12 13:35	7440-22-4	
Thallium, Dissolved	**0.022J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:35	7440-28-0	
Vanadium, Dissolved	ND	ug/L	2.0	2	09/21/12 08:45	09/25/12 18:46	7440-62-2	D3
Zinc, Dissolved	**110**	ug/L	10.0	1	09/21/12 08:45	09/24/12 13:35	7440-66-6	B
245.1 Mercury	Analytical Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/20/12 16:00	10/03/12 15:50	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/28/12 14:00	10/02/12 15:48	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	09/20/12 16:10	09/21/12 11:20	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**395**	umhos/cm	10.0	1		09/23/12 15:05		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-4-SW_SEC2_20120912 **Lab ID: 60128975022** Collected: 09/12/12 10:25 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**253**	mg/L	6.0	1		09/20/12 17:17		
Salinity (as seawater)	**0.19**	PSU	0.010	1		09/20/12 17:17		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**102**	mg/L	20.0	1		09/20/12 14:08		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/20/12 14:08		
Alkalinity, Total as CaCO3	**102**	mg/L	20.0	1		09/20/12 14:08		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**242**	mg/L	5.0	1		09/19/12 15:30		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	ND	mg/L	5.0	1		09/19/12 10:24		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/18/12 14:21	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.4**	mg/L	1.0	1		09/25/12 00:56	16887-00-6	
Sulfate	**87.5**	mg/L	5.0	5		09/25/12 01:43	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/18/12 13:42		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/24/12 17:06	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		09/26/12 11:31	7440-44-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-4-SW_SEC3_20120912 **Lab ID: 60128975023** Collected: 09/12/12 10:25 Received: 09/14/12 10:15 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	**57600**	ug/L	100	1	09/21/12 08:55	09/25/12 12:09	7440-70-2	B
Magnesium, Dissolved	**7770**	ug/L	50.0	1	09/21/12 08:55	09/25/12 12:09	7439-95-4	
Potassium, Dissolved	**806**	ug/L	500	1	09/21/12 08:55	09/25/12 12:09	7440-09-7	
Sodium, Dissolved	**3310**	ug/L	500	1	09/21/12 08:55	09/25/12 12:09	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	**78.2**	ug/L	4.0	1	09/27/12 20:39	10/08/12 13:06	7429-90-5	
Antimony	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 09:54	7440-36-0	
Arsenic	**0.60**	ug/L	0.50	1	09/27/12 20:39	10/07/12 09:54	7440-38-2	
Barium	**73.2**	ug/L	0.30	1	09/27/12 20:39	10/07/12 09:54	7440-39-3	
Beryllium	ND	ug/L	0.20	1	09/27/12 20:39	10/07/12 09:54	7440-41-7	
Cadmium	**0.64**	ug/L	0.080	1	09/27/12 20:39	10/08/12 13:06	7440-43-9	
Calcium	**61200**	ug/L	400	20	09/27/12 20:39	10/07/12 10:00	7440-70-2	
Chromium	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 09:54	7440-47-3	
Cobalt	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 09:54	7440-48-4	
Copper	**0.99**	ug/L	0.50	1	09/27/12 20:39	10/07/12 09:54	7440-50-8	
Iron	**250**	ug/L	50.0	1	09/27/12 20:39	10/07/12 09:54	7439-89-6	
Lead	**0.70**	ug/L	0.10	1	09/27/12 20:39	10/08/12 13:06	7439-92-1	
Magnesium	**8640**	ug/L	5.0	1	09/27/12 20:39	10/12/12 16:22	7439-95-4	
Manganese	**158**	ug/L	0.50	1	09/27/12 20:39	10/07/12 09:54	7439-96-5	
Molybdenum	**1.4**	ug/L	0.50	1	09/27/12 20:39	10/08/12 13:06	7439-98-7	
Nickel	**0.58**	ug/L	0.50	1	09/27/12 20:39	10/07/12 09:54	7440-02-0	
Potassium	**1170**	ug/L	20.0	1	09/27/12 20:39	10/13/12 12:58	7440-09-7	
Selenium	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 09:54	7782-49-2	
Silica	**8960**	ug/L	268	5	09/27/12 20:39	10/12/12 16:28	7631-86-9	
Silver	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 09:54	7440-22-4	
Sodium	**3570**	ug/L	50.0	1	09/27/12 20:39	10/07/12 09:54	7440-23-5	
Thallium	ND	ug/L	0.10	1	09/27/12 20:39	10/07/12 09:54	7440-28-0	
Total Hardness by 2340B	**188000**	ug/L	1420	20	09/27/12 20:39	10/07/12 10:00		
Vanadium	**0.29**	ug/L	0.10	1	09/27/12 20:39	10/08/12 13:06	7440-62-2	
Zinc	**108**	ug/L	5.0	1	09/27/12 20:39	10/08/12 13:06	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	**6.8**	ug/L	4.0	1	09/27/12 20:42	10/07/12 11:13	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 11:13	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 11:13	7440-38-2	
Barium, Dissolved	**71.9**	ug/L	0.30	1	09/27/12 20:42	10/07/12 11:13	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	09/27/12 20:42	10/08/12 12:38	7440-41-7	
Cadmium, Dissolved	**0.51**	ug/L	0.080	1	09/27/12 20:42	10/07/12 11:13	7440-43-9	
Calcium, Dissolved	**70500**	ug/L	400	20	09/27/12 20:42	10/07/12 11:19	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 11:13	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 11:13	7440-48-4	
Copper, Dissolved	**1.8**	ug/L	0.50	1	09/27/12 20:42	10/07/12 11:13	7440-50-8	
Iron, Dissolved	ND	ug/L	50.0	1	09/27/12 20:42	10/07/12 11:13	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	09/27/12 20:42	10/08/12 12:38	7439-92-1	
Magnesium, Dissolved	**8600**	ug/L	100	20	09/27/12 20:42	10/07/12 11:19	7439-95-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-4-SW_SEC3_20120912 **Lab ID: 60128975023** Collected: 09/12/12 10:25 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	**151**	ug/L	0.50	1	09/27/12 20:42	10/07/12 11:13	7439-96-5	
Molybdenum, Dissolved	**1.4**	ug/L	0.50	1	09/27/12 20:42	10/07/12 11:13	7439-98-7	
Nickel, Dissolved	**0.97**	ug/L	0.50	1	09/27/12 20:42	10/07/12 11:13	7440-02-0	
Potassium, Dissolved	**1180**	ug/L	20.0	1	09/27/12 20:42	10/07/12 11:13	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 11:13	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 11:13	7440-22-4	
Sodium, Dissolved	**3890**	ug/L	50.0	1	09/27/12 20:42	10/08/12 05:51	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/27/12 20:42	10/07/12 11:13	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	09/27/12 20:42	10/07/12 11:13	7440-62-2	
Zinc, Dissolved	**104**	ug/L	5.0	1	09/27/12 20:42	10/07/12 11:13	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**29.8J**	ug/L	50.0	1	09/21/12 08:45	09/24/12 16:51	7429-90-5	
Antimony, Dissolved	**0.098J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:51	7440-36-0	
Arsenic, Dissolved	**0.36J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:51	7440-38-2	
Barium, Dissolved	**67.3**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:51	7440-39-3	B
Beryllium, Dissolved	ND	ug/L	0.50	1	09/21/12 08:45	09/24/12 16:51	7440-41-7	
Cadmium, Dissolved	**0.53**	ug/L	0.50	1	09/21/12 08:45	09/24/12 13:51	7440-43-9	
Chromium, Dissolved	**0.79J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:51	7440-47-3	B
Cobalt, Dissolved	**0.20J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:51	7440-48-4	
Copper, Dissolved	**1.1**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:51	7440-50-8	
Iron, Dissolved	**166**	ug/L	50.0	1	09/21/12 08:45	09/24/12 13:51	7439-89-6	
Lead, Dissolved	**0.56J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:51	7439-92-1	
Manganese, Dissolved	**149**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:51	7439-96-5	
Molybdenum, Dissolved	**1.5**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:51	7439-98-7	
Nickel, Dissolved	**0.51J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:51	7440-02-0	
Selenium, Dissolved	**0.46J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:51	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/21/12 08:45	09/24/12 13:51	7440-22-4	
Thallium, Dissolved	**0.067J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:51	7440-28-0	
Vanadium, Dissolved	ND	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:51	7440-62-2	
Zinc, Dissolved	**110**	ug/L	10.0	1	09/21/12 08:45	09/24/12 13:51	7440-66-6	B
245.1 Mercury	Analytical Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/20/12 16:00	10/03/12 15:53	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/28/12 14:00	10/02/12 15:50	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	09/20/12 16:10	09/21/12 11:22	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**386**	umhos/cm	10.0	1		09/23/12 15:06		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-4-SW_SEC3_20120912 **Lab ID: 60128975023** Collected: 09/12/12 10:25 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**247**	mg/L	6.0	1		09/20/12 17:17		
Salinity (as seawater)	**0.19**	PSU	0.010	1		09/20/12 17:17		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**101**	mg/L	20.0	1		09/20/12 14:13		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/20/12 14:13		
Alkalinity, Total as CaCO3	**101**	mg/L	20.0	1		09/20/12 14:13		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**236**	mg/L	5.0	1		09/19/12 15:30		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	ND	mg/L	5.0	1		09/19/12 10:25		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/18/12 14:21	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.4**	mg/L	1.0	1		09/25/12 01:59	16887-00-6	
Sulfate	**87.0**	mg/L	5.0	5		09/25/12 02:15	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/18/12 13:43		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/24/12 17:10	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		09/26/12 11:45	7440-44-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-4-SW_SEC4_20120912 **Lab ID: 60128975024** Collected: 09/12/12 10:25 Received: 09/14/12 10:15 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	**57900**	ug/L	100	1	09/21/12 08:55	09/25/12 12:17	7440-70-2	B
Magnesium, Dissolved	**7790**	ug/L	50.0	1	09/21/12 08:55	09/25/12 12:17	7439-95-4	
Potassium, Dissolved	**702**	ug/L	500	1	09/21/12 08:55	09/25/12 12:17	7440-09-7	
Sodium, Dissolved	**3280**	ug/L	500	1	09/21/12 08:55	09/25/12 12:17	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	**76.4**	ug/L	4.0	1	09/27/12 20:39	10/08/12 13:12	7429-90-5	
Antimony	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 10:06	7440-36-0	
Arsenic	**0.57**	ug/L	0.50	1	09/27/12 20:39	10/07/12 10:06	7440-38-2	
Barium	**71.7**	ug/L	0.30	1	09/27/12 20:39	10/07/12 10:06	7440-39-3	
Beryllium	ND	ug/L	0.20	1	09/27/12 20:39	10/07/12 10:06	7440-41-7	
Cadmium	**0.62**	ug/L	0.080	1	09/27/12 20:39	10/08/12 13:12	7440-43-9	
Calcium	**61400**	ug/L	400	20	09/27/12 20:39	10/07/12 10:12	7440-70-2	
Chromium	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 10:06	7440-47-3	
Cobalt	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 10:06	7440-48-4	
Copper	**1.2**	ug/L	0.50	1	09/27/12 20:39	10/07/12 10:06	7440-50-8	
Iron	**242**	ug/L	50.0	1	09/27/12 20:39	10/07/12 10:06	7439-89-6	
Lead	**0.68**	ug/L	0.10	1	09/27/12 20:39	10/08/12 13:12	7439-92-1	
Magnesium	**8600**	ug/L	5.0	1	09/27/12 20:39	10/12/12 16:34	7439-95-4	
Manganese	**157**	ug/L	0.50	1	09/27/12 20:39	10/07/12 10:06	7439-96-5	
Molybdenum	**1.5**	ug/L	0.50	1	09/27/12 20:39	10/08/12 13:12	7439-98-7	
Nickel	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 10:06	7440-02-0	
Potassium	**1160**	ug/L	20.0	1	09/27/12 20:39	10/13/12 13:04	7440-09-7	
Selenium	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 10:06	7782-49-2	
Silica	**8650**	ug/L	268	5	09/27/12 20:39	10/12/12 17:05	7631-86-9	
Silver	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 10:06	7440-22-4	
Sodium	**3540**	ug/L	50.0	1	09/27/12 20:39	10/07/12 10:06	7440-23-5	
Thallium	ND	ug/L	0.10	1	09/27/12 20:39	10/07/12 10:06	7440-28-0	
Total Hardness by 2340B	**189000**	ug/L	1420	20	09/27/12 20:39	10/07/12 10:12		
Vanadium	**0.27**	ug/L	0.10	1	09/27/12 20:39	10/08/12 13:12	7440-62-2	
Zinc	**109**	ug/L	5.0	1	09/27/12 20:39	10/08/12 13:12	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	**20.9**	ug/L	4.0	1	09/27/12 20:42	10/07/12 11:54	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 11:54	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 11:54	7440-38-2	
Barium, Dissolved	**73.0**	ug/L	0.30	1	09/27/12 20:42	10/07/12 11:54	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	09/27/12 20:42	10/08/12 12:43	7440-41-7	
Cadmium, Dissolved	**0.58**	ug/L	0.080	1	09/27/12 20:42	10/07/12 11:54	7440-43-9	
Calcium, Dissolved	**69400**	ug/L	400	20	09/27/12 20:42	10/07/12 12:00	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 11:54	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 11:54	7440-48-4	
Copper, Dissolved	**0.98**	ug/L	0.50	1	09/27/12 20:42	10/07/12 11:54	7440-50-8	
Iron, Dissolved	**52.6**	ug/L	50.0	1	09/27/12 20:42	10/07/12 11:54	7439-89-6	
Lead, Dissolved	**0.14**	ug/L	0.10	1	09/27/12 20:42	10/08/12 12:43	7439-92-1	
Magnesium, Dissolved	**8950**	ug/L	100	20	09/27/12 20:42	10/07/12 12:00	7439-95-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-4-SW_SEC4_20120912 **Lab ID: 60128975024** Collected: 09/12/12 10:25 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	**153**	ug/L	0.50	1	09/27/12 20:42	10/07/12 11:54	7439-96-5	
Molybdenum, Dissolved	**1.4**	ug/L	0.50	1	09/27/12 20:42	10/07/12 11:54	7439-98-7	
Nickel, Dissolved	**0.97**	ug/L	0.50	1	09/27/12 20:42	10/07/12 11:54	7440-02-0	
Potassium, Dissolved	**1190**	ug/L	20.0	1	09/27/12 20:42	10/07/12 11:54	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 11:54	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 11:54	7440-22-4	
Sodium, Dissolved	**3910**	ug/L	50.0	1	09/27/12 20:42	10/08/12 05:57	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/27/12 20:42	10/07/12 11:54	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	09/27/12 20:42	10/07/12 11:54	7440-62-2	
Zinc, Dissolved	**108**	ug/L	5.0	1	09/27/12 20:42	10/07/12 11:54	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**30.1J**	ug/L	50.0	1	09/21/12 08:45	09/24/12 16:53	7429-90-5	
Antimony, Dissolved	**0.090J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:56	7440-36-0	
Arsenic, Dissolved	**0.40J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:56	7440-38-2	
Barium, Dissolved	**66.7**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:56	7440-39-3	B
Beryllium, Dissolved	ND	ug/L	0.50	1	09/21/12 08:45	09/24/12 16:53	7440-41-7	
Cadmium, Dissolved	**0.58**	ug/L	0.50	1	09/21/12 08:45	09/24/12 13:56	7440-43-9	
Chromium, Dissolved	**0.65J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:56	7440-47-3	B
Cobalt, Dissolved	**0.19J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:56	7440-48-4	
Copper, Dissolved	**1.2**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:56	7440-50-8	
Iron, Dissolved	**164**	ug/L	50.0	1	09/21/12 08:45	09/24/12 13:56	7439-89-6	
Lead, Dissolved	**0.49J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:56	7439-92-1	
Manganese, Dissolved	**146**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:56	7439-96-5	
Molybdenum, Dissolved	**1.4**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:56	7439-98-7	
Nickel, Dissolved	**0.38J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:56	7440-02-0	
Selenium, Dissolved	**0.43J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:56	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/21/12 08:45	09/24/12 13:56	7440-22-4	
Thallium, Dissolved	**0.024J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:56	7440-28-0	
Vanadium, Dissolved	ND	ug/L	1.0	1	09/21/12 08:45	09/24/12 13:56	7440-62-2	
Zinc, Dissolved	**108**	ug/L	10.0	1	09/21/12 08:45	09/24/12 13:56	7440-66-6	B
245.1 Mercury	Analytical Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/20/12 16:00	10/03/12 16:00	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/28/12 14:00	10/02/12 15:56	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	09/20/12 16:10	09/21/12 11:24	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**397**	umhos/cm	10.0	1		09/23/12 15:07		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-4-SW_SEC4_20120912 **Lab ID: 60128975024** Collected: 09/12/12 10:25 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**254**	mg/L	6.0	1		09/20/12 17:17		
Salinity (as seawater)	**0.19**	PSU	0.010	1		09/20/12 17:17		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**96.2**	mg/L	20.0	1		09/20/12 14:17		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/20/12 14:17		
Alkalinity, Total as CaCO3	**96.2**	mg/L	20.0	1		09/20/12 14:17		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**243**	mg/L	5.0	1		09/19/12 15:31		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	ND	mg/L	5.0	1		09/19/12 10:25		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/18/12 14:21	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.4**	mg/L	1.0	1		09/25/12 02:31	16887-00-6	
Sulfate	**87.3**	mg/L	5.0	5		09/25/12 02:47	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/18/12 13:45		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/24/12 17:11	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		09/26/12 12:28	7440-44-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-4-SW_SEC5_20120912 **Lab ID: 60128975025** Collected: 09/12/12 10:25 Received: 09/14/12 10:15 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	**57100**	ug/L	100	1	09/21/12 08:55	09/25/12 12:19	7440-70-2	B
Magnesium, Dissolved	**7660**	ug/L	50.0	1	09/21/12 08:55	09/25/12 12:19	7439-95-4	
Potassium, Dissolved	**780**	ug/L	500	1	09/21/12 08:55	09/25/12 12:19	7440-09-7	
Sodium, Dissolved	**3220**	ug/L	500	1	09/21/12 08:55	09/25/12 12:19	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	**65.9**	ug/L	4.0	1	09/27/12 20:39	10/08/12 13:37	7429-90-5	
Antimony	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 10:18	7440-36-0	
Arsenic	**0.50**	ug/L	0.50	1	09/27/12 20:39	10/07/12 10:18	7440-38-2	
Barium	**72.7**	ug/L	0.30	1	09/27/12 20:39	10/07/12 10:18	7440-39-3	
Beryllium	ND	ug/L	0.20	1	09/27/12 20:39	10/07/12 10:18	7440-41-7	
Cadmium	**0.62**	ug/L	0.080	1	09/27/12 20:39	10/08/12 13:37	7440-43-9	
Calcium	**61100**	ug/L	400	20	09/27/12 20:39	10/07/12 10:24	7440-70-2	
Chromium	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 10:18	7440-47-3	
Cobalt	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 10:18	7440-48-4	
Copper	**1.1**	ug/L	0.50	1	09/27/12 20:39	10/07/12 10:18	7440-50-8	
Iron	**234**	ug/L	50.0	1	09/27/12 20:39	10/07/12 10:18	7439-89-6	
Lead	**0.63**	ug/L	0.10	1	09/27/12 20:39	10/08/12 13:37	7439-92-1	
Magnesium	**8700**	ug/L	5.0	1	09/27/12 20:39	10/12/12 17:11	7439-95-4	
Manganese	**158**	ug/L	0.50	1	09/27/12 20:39	10/07/12 10:18	7439-96-5	
Molybdenum	**1.5**	ug/L	0.50	1	09/27/12 20:39	10/08/12 13:37	7439-98-7	
Nickel	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 10:18	7440-02-0	
Potassium	**1150**	ug/L	20.0	1	09/27/12 20:39	10/13/12 13:29	7440-09-7	
Selenium	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 10:18	7782-49-2	
Silica	**8760**	ug/L	268	5	09/27/12 20:39	10/12/12 17:16	7631-86-9	
Silver	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 10:18	7440-22-4	
Sodium	**3550**	ug/L	50.0	1	09/27/12 20:39	10/07/12 10:18	7440-23-5	
Thallium	ND	ug/L	0.10	1	09/27/12 20:39	10/07/12 10:18	7440-28-0	
Total Hardness by 2340B	**188000**	ug/L	1420	20	09/27/12 20:39	10/07/12 10:24		
Vanadium	**0.25**	ug/L	0.10	1	09/27/12 20:39	10/08/12 13:37	7440-62-2	
Zinc	**110**	ug/L	5.0	1	09/27/12 20:39	10/08/12 13:37	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	**7.3**	ug/L	4.0	1	09/27/12 20:42	10/07/12 12:06	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 12:06	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 12:06	7440-38-2	
Barium, Dissolved	**72.3**	ug/L	0.30	1	09/27/12 20:42	10/07/12 12:06	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	09/27/12 20:42	10/08/12 12:49	7440-41-7	
Cadmium, Dissolved	**0.52**	ug/L	0.080	1	09/27/12 20:42	10/07/12 12:06	7440-43-9	
Calcium, Dissolved	**70700**	ug/L	400	20	09/27/12 20:42	10/07/12 12:11	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 12:06	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 12:06	7440-48-4	
Copper, Dissolved	**1.5**	ug/L	0.50	1	09/27/12 20:42	10/07/12 12:06	7440-50-8	
Iron, Dissolved	ND	ug/L	50.0	1	09/27/12 20:42	10/07/12 12:06	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	09/27/12 20:42	10/08/12 12:49	7439-92-1	
Magnesium, Dissolved	**8840**	ug/L	100	20	09/27/12 20:42	10/07/12 12:11	7439-95-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-4-SW_SEC5_20120912 **Lab ID: 60128975025** Collected: 09/12/12 10:25 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	**152**	ug/L	0.50	1	09/27/12 20:42	10/07/12 12:06	7439-96-5	
Molybdenum, Dissolved	**1.4**	ug/L	0.50	1	09/27/12 20:42	10/07/12 12:06	7439-98-7	
Nickel, Dissolved	**1.2**	ug/L	0.50	1	09/27/12 20:42	10/07/12 12:06	7440-02-0	
Potassium, Dissolved	**1180**	ug/L	20.0	1	09/27/12 20:42	10/07/12 12:06	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 12:06	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 12:06	7440-22-4	
Sodium, Dissolved	**3840**	ug/L	50.0	1	09/27/12 20:42	10/08/12 06:03	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/27/12 20:42	10/07/12 12:06	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	09/27/12 20:42	10/07/12 12:06	7440-62-2	
Zinc, Dissolved	**107**	ug/L	5.0	1	09/27/12 20:42	10/07/12 12:06	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**33.4J**	ug/L	50.0	1	09/21/12 08:45	09/24/12 16:55	7429-90-5	
Antimony, Dissolved	**0.073J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 14:00	7440-36-0	
Arsenic, Dissolved	**0.43J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 14:00	7440-38-2	
Barium, Dissolved	**68.2**	ug/L	1.0	1	09/21/12 08:45	09/24/12 14:00	7440-39-3	B
Beryllium, Dissolved	ND	ug/L	0.50	1	09/21/12 08:45	09/24/12 16:55	7440-41-7	
Cadmium, Dissolved	**0.60**	ug/L	0.50	1	09/21/12 08:45	09/24/12 14:00	7440-43-9	
Chromium, Dissolved	**0.54J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 14:00	7440-47-3	B
Cobalt, Dissolved	**0.20J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 14:00	7440-48-4	
Copper, Dissolved	**1.4**	ug/L	1.0	1	09/21/12 08:45	09/24/12 14:00	7440-50-8	
Iron, Dissolved	**197**	ug/L	50.0	1	09/21/12 08:45	09/24/12 14:00	7439-89-6	
Lead, Dissolved	**0.68J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 14:00	7439-92-1	
Manganese, Dissolved	**155**	ug/L	1.0	1	09/21/12 08:45	09/24/12 14:00	7439-96-5	
Molybdenum, Dissolved	**1.2**	ug/L	1.0	1	09/21/12 08:45	09/24/12 14:00	7439-98-7	
Nickel, Dissolved	**0.51J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 14:00	7440-02-0	
Selenium, Dissolved	**0.38J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 14:00	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/21/12 08:45	09/24/12 14:00	7440-22-4	
Thallium, Dissolved	ND	ug/L	1.0	1	09/21/12 08:45	09/24/12 14:00	7440-28-0	
Vanadium, Dissolved	ND	ug/L	1.0	1	09/21/12 08:45	09/24/12 14:00	7440-62-2	
Zinc, Dissolved	**113**	ug/L	10.0	1	09/21/12 08:45	09/24/12 14:00	7440-66-6	B
245.1 Mercury	Analytical Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/20/12 16:00	10/03/12 16:03	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/28/12 14:00	10/02/12 15:58	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	09/20/12 16:10	09/21/12 11:29	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**390**	umhos/cm	10.0	1		09/23/12 15:08		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-4-SW_SEC5_20120912 **Lab ID: 60128975025** Collected: 09/12/12 10:25 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**250**	mg/L	6.0	1		09/20/12 17:17		
Salinity (as seawater)	**0.19**	PSU	0.010	1		09/20/12 17:17		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**101**	mg/L	20.0	1		09/20/12 14:34		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/20/12 14:34		
Alkalinity, Total as CaCO3	**101**	mg/L	20.0	1		09/20/12 14:34		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**232**	mg/L	5.0	1		09/19/12 15:31		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	ND	mg/L	5.0	1		09/19/12 10:26		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/18/12 14:21	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.4**	mg/L	1.0	1		09/25/12 03:03	16887-00-6	
Sulfate	**87.5**	mg/L	5.0	5		09/25/12 03:19	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/18/12 13:46		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/24/12 17:11	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		09/26/12 12:42	7440-44-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-4-SW_SEC6_20120912 **Lab ID: 60128975026** Collected: 09/12/12 10:25 Received: 09/14/12 10:15 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	**58600**	ug/L	100	1	09/21/12 08:55	09/25/12 12:21	7440-70-2	B
Magnesium, Dissolved	**7850**	ug/L	50.0	1	09/21/12 08:55	09/25/12 12:21	7439-95-4	
Potassium, Dissolved	**840**	ug/L	500	1	09/21/12 08:55	09/25/12 12:21	7440-09-7	
Sodium, Dissolved	**3410**	ug/L	500	1	09/21/12 08:55	09/25/12 12:21	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	**89.0**	ug/L	4.0	1	09/27/12 20:39	10/08/12 13:43	7429-90-5	
Antimony	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 10:30	7440-36-0	
Arsenic	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 10:30	7440-38-2	
Barium	**72.2**	ug/L	0.30	1	09/27/12 20:39	10/07/12 10:30	7440-39-3	
Beryllium	ND	ug/L	0.20	1	09/27/12 20:39	10/07/12 10:30	7440-41-7	
Cadmium	**0.70**	ug/L	0.080	1	09/27/12 20:39	10/08/12 13:43	7440-43-9	
Calcium	**62500**	ug/L	400	20	09/27/12 20:39	10/07/12 10:36	7440-70-2	
Chromium	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 10:30	7440-47-3	
Cobalt	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 10:30	7440-48-4	
Copper	**1.0**	ug/L	0.50	1	09/27/12 20:39	10/07/12 10:30	7440-50-8	
Iron	**268**	ug/L	50.0	1	09/27/12 20:39	10/07/12 10:30	7439-89-6	
Lead	**0.82**	ug/L	0.10	1	09/27/12 20:39	10/08/12 13:43	7439-92-1	
Magnesium	**8680**	ug/L	5.0	1	09/27/12 20:39	10/12/12 17:22	7439-95-4	
Manganese	**161**	ug/L	0.50	1	09/27/12 20:39	10/07/12 10:30	7439-96-5	
Molybdenum	**1.5**	ug/L	0.50	1	09/27/12 20:39	10/08/12 13:43	7439-98-7	
Nickel	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 10:30	7440-02-0	
Potassium	**1150**	ug/L	20.0	1	09/27/12 20:39	10/13/12 13:35	7440-09-7	
Selenium	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 10:30	7782-49-2	
Silica	**8610**	ug/L	268	5	09/27/12 20:39	10/12/12 17:28	7631-86-9	
Silver	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 10:30	7440-22-4	
Sodium	**3530**	ug/L	50.0	1	09/27/12 20:39	10/07/12 10:30	7440-23-5	
Thallium	ND	ug/L	0.10	1	09/27/12 20:39	10/07/12 10:30	7440-28-0	
Total Hardness by 2340B	**192000**	ug/L	1420	20	09/27/12 20:39	10/07/12 10:36		
Vanadium	**0.30**	ug/L	0.10	1	09/27/12 20:39	10/08/12 13:43	7440-62-2	
Zinc	**115**	ug/L	5.0	1	09/27/12 20:39	10/08/12 13:43	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	**7.0**	ug/L	4.0	1	09/27/12 20:42	10/07/12 12:17	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 12:17	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 12:17	7440-38-2	
Barium, Dissolved	**71.7**	ug/L	0.30	1	09/27/12 20:42	10/07/12 12:17	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	09/27/12 20:42	10/07/12 12:17	7440-41-7	
Cadmium, Dissolved	**0.52**	ug/L	0.080	1	09/27/12 20:42	10/07/12 12:17	7440-43-9	
Calcium, Dissolved	**69500**	ug/L	400	20	09/27/12 20:42	10/07/12 12:23	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 12:17	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 12:17	7440-48-4	
Copper, Dissolved	**0.95**	ug/L	0.50	1	09/27/12 20:42	10/07/12 12:17	7440-50-8	
Iron, Dissolved	ND	ug/L	50.0	1	09/27/12 20:42	10/07/12 12:17	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	09/27/12 20:42	10/07/12 12:17	7439-92-1	
Magnesium, Dissolved	**8700**	ug/L	100	20	09/27/12 20:42	10/07/12 12:23	7439-95-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-4-SW_SEC6_20120912 **Lab ID: 60128975026** Collected: 09/12/12 10:25 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	**152**	ug/L	0.50	1	09/27/12 20:42	10/07/12 12:17	7439-96-5	
Molybdenum, Dissolved	**1.4**	ug/L	0.50	1	09/27/12 20:42	10/07/12 12:17	7439-98-7	
Nickel, Dissolved	**2.1**	ug/L	0.50	1	09/27/12 20:42	10/07/12 12:17	7440-02-0	
Potassium, Dissolved	**1190**	ug/L	20.0	1	09/27/12 20:42	10/07/12 12:17	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 12:17	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 12:17	7440-22-4	
Sodium, Dissolved	**3880**	ug/L	50.0	1	09/27/12 20:42	10/08/12 06:09	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/27/12 20:42	10/07/12 12:17	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	09/27/12 20:42	10/07/12 12:17	7440-62-2	
Zinc, Dissolved	**112**	ug/L	5.0	1	09/27/12 20:42	10/07/12 12:17	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**29.3J**	ug/L	50.0	1	09/21/12 08:45	09/24/12 17:01	7429-90-5	
Antimony, Dissolved	**0.074J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 14:12	7440-36-0	
Arsenic, Dissolved	**0.43J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 14:12	7440-38-2	
Barium, Dissolved	**66.1**	ug/L	1.0	1	09/21/12 08:45	09/24/12 14:12	7440-39-3	B
Beryllium, Dissolved	ND	ug/L	0.50	1	09/21/12 08:45	09/24/12 17:01	7440-41-7	
Cadmium, Dissolved	**0.54**	ug/L	0.50	1	09/21/12 08:45	09/24/12 14:12	7440-43-9	
Chromium, Dissolved	**0.61J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 14:12	7440-47-3	B
Cobalt, Dissolved	**0.21J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 14:12	7440-48-4	
Copper, Dissolved	**1.2**	ug/L	1.0	1	09/21/12 08:45	09/24/12 14:12	7440-50-8	
Iron, Dissolved	**164**	ug/L	50.0	1	09/21/12 08:45	09/24/12 14:12	7439-89-6	
Lead, Dissolved	**0.58J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 14:12	7439-92-1	
Manganese, Dissolved	**148**	ug/L	1.0	1	09/21/12 08:45	09/24/12 14:12	7439-96-5	
Molybdenum, Dissolved	**1.4**	ug/L	1.0	1	09/21/12 08:45	09/24/12 14:12	7439-98-7	
Nickel, Dissolved	**0.60J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 14:12	7440-02-0	
Selenium, Dissolved	**0.42J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 14:12	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/21/12 08:45	09/24/12 14:12	7440-22-4	
Thallium, Dissolved	**0.022J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 14:12	7440-28-0	
Vanadium, Dissolved	ND	ug/L	1.0	1	09/21/12 08:45	09/24/12 14:12	7440-62-2	
Zinc, Dissolved	**113**	ug/L	10.0	1	09/21/12 08:45	09/24/12 14:12	7440-66-6	B
245.1 Mercury	Analytical Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/20/12 16:00	10/03/12 16:05	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/28/12 14:00	10/02/12 16:01	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	09/20/12 16:10	09/21/12 11:37	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**373**	umhos/cm	10.0	1		09/23/12 15:09		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-4-SW_SEC6_20120912 **Lab ID: 60128975026** Collected: 09/12/12 10:25 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**239**	mg/L	6.0	1		09/20/12 17:17		
Salinity (as seawater)	**0.18**	PSU	0.010	1		09/20/12 17:17		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**99.1**	mg/L	20.0	1		09/20/12 14:39		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/20/12 14:39		
Alkalinity, Total as CaCO3	**99.1**	mg/L	20.0	1		09/20/12 14:39		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**241**	mg/L	5.0	1		09/19/12 15:31		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	ND	mg/L	5.0	1		09/19/12 10:26		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/18/12 15:19	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.4**	mg/L	1.0	1		09/25/12 03:35	16887-00-6	
Sulfate	**86.8**	mg/L	5.0	5		09/25/12 03:51	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/18/12 13:47		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/24/12 17:14	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		09/26/12 12:56	7440-44-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-4-SW_SEC7_20120912 **Lab ID: 60128975027** Collected: 09/12/12 10:25 Received: 09/14/12 10:15 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	**57800**	ug/L	100	1	09/21/12 08:55	09/25/12 12:23	7440-70-2	B
Magnesium, Dissolved	**7780**	ug/L	50.0	1	09/21/12 08:55	09/25/12 12:23	7439-95-4	
Potassium, Dissolved	**946**	ug/L	500	1	09/21/12 08:55	09/25/12 12:23	7440-09-7	
Sodium, Dissolved	**3240**	ug/L	500	1	09/21/12 08:55	09/25/12 12:23	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	**65.7**	ug/L	4.0	1	09/27/12 20:39	10/08/12 13:49	7429-90-5	
Antimony	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 10:42	7440-36-0	
Arsenic	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 10:42	7440-38-2	
Barium	**70.2**	ug/L	0.30	1	09/27/12 20:39	10/07/12 10:42	7440-39-3	
Beryllium	ND	ug/L	0.20	1	09/27/12 20:39	10/07/12 10:42	7440-41-7	
Cadmium	**0.63**	ug/L	0.080	1	09/27/12 20:39	10/08/12 13:49	7440-43-9	
Calcium	**61100**	ug/L	400	20	09/27/12 20:39	10/07/12 10:48	7440-70-2	
Chromium	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 10:42	7440-47-3	
Cobalt	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 10:42	7440-48-4	
Copper	**1.0**	ug/L	0.50	1	09/27/12 20:39	10/07/12 10:42	7440-50-8	
Iron	**215**	ug/L	50.0	1	09/27/12 20:39	10/07/12 10:42	7439-89-6	
Lead	**0.68**	ug/L	0.10	1	09/27/12 20:39	10/08/12 13:49	7439-92-1	
Magnesium	**8510**	ug/L	5.0	1	09/27/12 20:39	10/12/12 17:34	7439-95-4	
Manganese	**156**	ug/L	0.50	1	09/27/12 20:39	10/07/12 10:42	7439-96-5	
Molybdenum	**1.4**	ug/L	0.50	1	09/27/12 20:39	10/08/12 13:49	7439-98-7	
Nickel	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 10:42	7440-02-0	
Potassium	**1130**	ug/L	20.0	1	09/27/12 20:39	10/13/12 13:41	7440-09-7	
Selenium	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 10:42	7782-49-2	
Silica	**8540**	ug/L	268	5	09/27/12 20:39	10/12/12 17:40	7631-86-9	
Silver	ND	ug/L	0.50	1	09/27/12 20:39	10/07/12 10:42	7440-22-4	
Sodium	**3480**	ug/L	50.0	1	09/27/12 20:39	10/07/12 10:42	7440-23-5	
Thallium	ND	ug/L	0.10	1	09/27/12 20:39	10/07/12 10:42	7440-28-0	
Total Hardness by 2340B	**188000**	ug/L	1420	20	09/27/12 20:39	10/07/12 10:48		
Vanadium	**0.28**	ug/L	0.10	1	09/27/12 20:39	10/08/12 13:49	7440-62-2	
Zinc	**125**	ug/L	5.0	1	09/27/12 20:39	10/08/12 13:49	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	**7.0**	ug/L	4.0	1	09/27/12 20:42	10/07/12 12:29	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 12:29	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 12:29	7440-38-2	
Barium, Dissolved	**72.3**	ug/L	0.30	1	09/27/12 20:42	10/07/12 12:29	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	09/27/12 20:42	10/07/12 12:29	7440-41-7	
Cadmium, Dissolved	**0.57**	ug/L	0.080	1	09/27/12 20:42	10/07/12 12:29	7440-43-9	
Calcium, Dissolved	**70900**	ug/L	400	20	09/27/12 20:42	10/07/12 12:35	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 12:29	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 12:29	7440-48-4	
Copper, Dissolved	**1.0**	ug/L	0.50	1	09/27/12 20:42	10/07/12 12:29	7440-50-8	
Iron, Dissolved	ND	ug/L	50.0	1	09/27/12 20:42	10/07/12 12:29	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	09/27/12 20:42	10/07/12 12:29	7439-92-1	
Magnesium, Dissolved	**8890**	ug/L	100	20	09/27/12 20:42	10/07/12 12:35	7439-95-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-4-SW_SEC7_20120912 **Lab ID: 60128975027** Collected: 09/12/12 10:25 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	**158**	ug/L	0.50	1	09/27/12 20:42	10/07/12 12:29	7439-96-5	
Molybdenum, Dissolved	**1.5**	ug/L	0.50	1	09/27/12 20:42	10/07/12 12:29	7439-98-7	
Nickel, Dissolved	**2.2**	ug/L	0.50	1	09/27/12 20:42	10/07/12 12:29	7440-02-0	
Potassium, Dissolved	**1200**	ug/L	20.0	1	09/27/12 20:42	10/07/12 12:29	7440-09-7	
Selenium, Dissolved	**0.54**	ug/L	0.50	1	09/27/12 20:42	10/07/12 12:29	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/27/12 20:42	10/07/12 12:29	7440-22-4	
Sodium, Dissolved	**3900**	ug/L	50.0	1	09/27/12 20:42	10/08/12 06:15	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/27/12 20:42	10/07/12 12:29	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	09/27/12 20:42	10/07/12 12:29	7440-62-2	
Zinc, Dissolved	**128**	ug/L	5.0	1	09/27/12 20:42	10/07/12 12:29	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**35.8J**	ug/L	50.0	1	09/21/12 08:45	09/24/12 17:04	7429-90-5	
Antimony, Dissolved	**0.073J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 14:17	7440-36-0	
Arsenic, Dissolved	**0.46J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 14:17	7440-38-2	
Barium, Dissolved	**66.5**	ug/L	1.0	1	09/21/12 08:45	09/24/12 14:17	7440-39-3	B
Beryllium, Dissolved	ND	ug/L	0.50	1	09/21/12 08:45	09/24/12 17:04	7440-41-7	
Cadmium, Dissolved	**0.64**	ug/L	0.50	1	09/21/12 08:45	09/24/12 14:17	7440-43-9	
Chromium, Dissolved	**0.49J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 14:17	7440-47-3	B
Cobalt, Dissolved	**0.24J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 14:17	7440-48-4	
Copper, Dissolved	**1.5**	ug/L	1.0	1	09/21/12 08:45	09/24/12 14:17	7440-50-8	
Iron, Dissolved	**199**	ug/L	50.0	1	09/21/12 08:45	09/24/12 14:17	7439-89-6	
Lead, Dissolved	**0.96J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 14:17	7439-92-1	
Manganese, Dissolved	**157**	ug/L	1.0	1	09/21/12 08:45	09/24/12 14:17	7439-96-5	
Molybdenum, Dissolved	**1.3**	ug/L	1.0	1	09/21/12 08:45	09/24/12 14:17	7439-98-7	
Nickel, Dissolved	ND	ug/L	1.0	1	09/21/12 08:45	09/24/12 14:17	7440-02-0	
Selenium, Dissolved	**0.37J**	ug/L	1.0	1	09/21/12 08:45	09/24/12 14:17	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/21/12 08:45	09/24/12 14:17	7440-22-4	
Thallium, Dissolved	ND	ug/L	1.0	1	09/21/12 08:45	09/24/12 14:17	7440-28-0	
Vanadium, Dissolved	ND	ug/L	1.0	1	09/21/12 08:45	09/24/12 14:17	7440-62-2	
Zinc, Dissolved	**132**	ug/L	10.0	1	09/21/12 08:45	09/24/12 14:17	7440-66-6	B
245.1 Mercury	Analytical Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/20/12 16:00	10/03/12 16:08	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/28/12 14:00	10/02/12 16:18	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	09/20/12 16:10	09/21/12 11:40	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**380**	umhos/cm	10.0	1		09/23/12 15:10		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Sample: RICODR-4-SW_SEC7_20120912 **Lab ID: 60128975027** Collected: 09/12/12 10:25 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**243**	mg/L	6.0	1		09/20/12 17:17		
Salinity (as seawater)	**0.18**	PSU	0.010	1		09/20/12 17:17		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**100**	mg/L	20.0	1		09/20/12 14:48		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/20/12 14:48		
Alkalinity, Total as CaCO3	**100**	mg/L	20.0	1		09/20/12 14:48		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**245**	mg/L	5.0	1		09/19/12 15:31		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	ND	mg/L	5.0	1		09/19/12 10:27		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/18/12 15:19	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.4**	mg/L	1.0	1		09/25/12 04:07	16887-00-6	
Sulfate	**87.0**	mg/L	5.0	5		09/25/12 04:54	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/18/12 13:48		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/24/12 17:14	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		09/26/12 13:10	7440-44-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

November 05, 2012

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

RE: Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Dear Mark DeFriez:
Enclosed are the analytical results for sample(s) received by the laboratory on September 14, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Heather M. Wilson

Heather Wilson

heather.wilson@pacelabs.com
Project Manager

Enclosures

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

CERTIFICATIONS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

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
North Dakota Certification #: R-036A
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

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

SAMPLE SUMMARY

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60128986001	**DR-1_20120911**	Water	09/11/12 12:40	09/14/12 10:15
60128986002	**DR-2_20120911**	Water	09/13/12 09:45	09/14/12 10:15
60128986003	**DR-3_20120911**	Water	09/11/12 13:17	09/14/12 10:15
60128986004	**DR-4_20120911**	Water	09/11/12 14:30	09/14/12 10:15
60128986005	**DR-5_20120911**	Water	09/13/12 09:53	09/14/12 10:15
60128986006	**DR-6_20120911**	Water	09/13/12 10:00	09/14/12 10:15
60128986007	**DR-7_20120911**	Water	09/13/12 10:03	09/14/12 10:15
60128986008	**DR-8_20120911**	Water	09/11/12 13:30	09/14/12 10:15
60128986009	**DR-4-SW_20120911**	Water	09/13/12 10:47	09/14/12 10:15
60128986010	**DR-G_20120911**	Water	09/13/12 10:52	09/14/12 10:15
60128986011	**FB_20120911**	Water	09/13/12 10:58	09/14/12 10:15
60128986012	**GW-1_20120911**	Water	09/11/12 12:46	09/14/12 10:15
60128986013	**GW-3_20120911**	Water	09/11/12 08:16	09/14/12 10:15
60128986014	**GW-4_20120911**	Water	09/11/12 15:14	09/14/12 10:15
60128986015	**GW-5_20120911**	Water	09/11/12 13:35	09/14/12 10:15
60128986016	**GW-6_20120911**	Water	09/11/12 14:40	09/14/12 10:15
60128986017	**GW-7_20120911**	Water	09/11/12 14:00	09/14/12 10:15
60128986018	**EB-1_20120911**	Water	09/11/12 13:51	09/14/12 10:15
60128986019	**EB-2_20120911**	Water	09/11/12 15:43	09/14/12 10:15
60128986020	**MW-1-DEEP_20120911**	Water	09/13/12 09:02	09/14/12 10:15
60128986021	**MW-1-SHALLOW_20120911**	Water	09/13/12 08:45	09/14/12 10:15
60128986022	**MW-2-DEEP_20120911**	Water	09/11/12 09:18	09/14/12 10:15
60128986023	**MW-3-DEEP_20120911**	Water	09/11/12 15:22	09/14/12 10:15
60128986024	**MW-4-DEEP_20120911**	Water	09/11/12 16:14	09/14/12 10:15
60128986025	**MW-4-SHALLOW_20120911**	Water	09/11/12 08:28	09/14/12 10:15
60128986026	**MW-5-DEEP_20120911**	Water	09/11/12 14:57	09/14/12 10:15
60128986027	**MW-5-SHALLOW_20120911**	Water	09/11/12 14:52	09/14/12 10:15
60128986028	**MW-6-DEEP_20120911**	Water	09/11/12 16:05	09/14/12 10:15
60128986029	**MW-6-SHALLOW_20120911**	Water	09/11/12 15:55	09/14/12 10:15

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

SAMPLE ANALYTE COUNT

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60128986001	**DR-1_20120911**	EPA 200.7	SMW	4	PASI-K
		EPA 200.8	RJS, RR1	25	PASI-M
		EPA 200.8	RJS	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CAC	1	
		Calculated	CAC	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	NDL	1	PASI-K
		SM 2540D	NDL	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	AJM	2	PASI-K
		EPA 353.2	NDL	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	JML	1	PASI-K
60128986002	**DR-2_20120911**	EPA 200.7	SMW	4	PASI-K
		EPA 200.8	RJS	25	PASI-M
		EPA 200.8	RJS	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CAC	1	
		Calculated	CAC	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	NDL	1	PASI-K
		SM 2540D	NDL	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	AJM	2	PASI-K
		EPA 353.2	NDL	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	JML	1	PASI-K
60128986003	**DR-3_20120911**	EPA 200.7	SMW	4	PASI-K
		EPA 200.8	RJS, RR1	25	PASI-M

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

SAMPLE ANALYTE COUNT

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 200.8	AS2, RJS, RR1	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CAC	1	
		Calculated	CAC	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	NDL	1	PASI-K
		SM 2540D	NDL	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	AJM	2	PASI-K
		EPA 353.2	NDL	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	JML	1	PASI-K
60128986004	**DR-4_20120911**	EPA 200.7	SMW	4	PASI-K
		EPA 200.8	RJS, RR1	25	PASI-M
		EPA 200.8	AS2, RJS, RR1	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CAC	1	
		Calculated	CAC	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	NDL	1	PASI-K
		SM 2540D	NDL	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	AJM	2	PASI-K
		EPA 353.2	NDL	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	JML	1	PASI-K
60128986005	**DR-5_20120911**	EPA 200.7	SMW	4	PASI-K
		EPA 200.8	RJS, RR1	25	PASI-M
		EPA 200.8	AS2, RJS, RR1	23	PASI-M
		EPA 200.8	JGP	19	PASI-K

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

SAMPLE ANALYTE COUNT

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CAC	1	
		Calculated	CAC	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	NDL	1	PASI-K
		SM 2540D	NDL	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	AJM	2	PASI-K
		EPA 353.2	NDL	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	JML	1	PASI-K
60128986006	**DR-6_20120911**	EPA 200.7	SMW	4	PASI-K
		EPA 200.8	AS2, RJS, RR1	25	PASI-M
		EPA 200.8	AS2, RJS, RR1	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CAC	1	
		Calculated	CAC	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	NDL	1	PASI-K
		SM 2540D	NDL	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	AJM	2	PASI-K
		EPA 353.2	NDL	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	JML	1	PASI-K
60128986007	**DR-7_20120911**	EPA 200.7	SMW	4	PASI-K
		EPA 200.8	RJS	25	PASI-M
		EPA 200.8	AS2, RJS, RR1	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

SAMPLE ANALYTE COUNT

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CAC	1	
		Calculated	CAC	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	NDL	1	PASI-K
		SM 2540D	NDL	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	AJM	2	PASI-K
		EPA 353.2	NDL	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	JML	1	PASI-K
60128986008	**DR-8_20120911**	EPA 200.7	SMW	4	PASI-K
		EPA 200.8	AS2, RR1	25	PASI-M
		EPA 200.8	RJS, RR1	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CAC	1	
		Calculated	CAC	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	NDL	1	PASI-K
		SM 2540D	NDL	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	AJM	2	PASI-K
		EPA 353.2	NDL	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	JML	1	PASI-K
60128986009	**DR-4-SW_20120911**	EPA 200.7	SMW	4	PASI-K
		EPA 200.8	RJS	25	PASI-M
		EPA 200.8	RJS, RR1	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CAC	1	
		Calculated	CAC	2	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

SAMPLE ANALYTE COUNT

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2320B	DJR	3	PASI-K
		SM 2540C	NDL	1	PASI-K
		SM 2540D	NDL	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	AJM	2	PASI-K
		EPA 353.2	NDL	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	JML	1	PASI-K
60128986010	**DR-G_20120911**	EPA 200.7	SMW	4	PASI-K
		EPA 200.8	RJS	25	PASI-M
		EPA 200.8	RJS, RR1	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CAC	1	
		Calculated	CAC	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	NDL	1	PASI-K
		SM 2540D	NDL	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	AJM	2	PASI-K
		EPA 353.2	NDL	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	JML	1	PASI-K
60128986011	**FB_20120911**	EPA 200.7	SMW	4	PASI-K
		EPA 200.8	AS2, RR1	25	PASI-M
		EPA 200.8	AS2, RJS, RR1	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CAC	1	
		Calculated	CAC	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	NDL	1	PASI-K

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

SAMPLE ANALYTE COUNT

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2540D	NDL	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	AJM	2	PASI-K
		EPA 353.2	NDL	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	JML	1	PASI-K
60128986012	**GW-1_20120911**	EPA 200.7	SMW	4	PASI-K
		EPA 200.8	RJS	25	PASI-M
		EPA 200.8	AS2, RJS, RR1	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CAC	1	
		Calculated	CAC	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	NDL	1	PASI-K
		SM 2540D	NDL	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	AJM	2	PASI-K
		EPA 353.2	NDL	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	JML	1	PASI-K
60128986013	**GW-3_20120911**	EPA 200.7	SMW	4	PASI-K
		EPA 200.8	AS2, RR1	25	PASI-M
		EPA 200.8	AS2, RJS, RR1	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CAC	1	
		Calculated	CAC	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	NDL	1	PASI-K
		SM 2540D	NDL	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

SAMPLE ANALYTE COUNT

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 300.0	AJM	2	PASI-K
		EPA 353.2	NDL	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	JML	1	PASI-K
60128986014	**GW-4_20120911**	EPA 200.7	SMW	4	PASI-K
		EPA 200.8	AS2, RR1	25	PASI-M
		EPA 200.8	AS2, RJS, RR1	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CAC	1	
		Calculated	CAC	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	NDL	1	PASI-K
		SM 2540D	NDL	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	AJM	2	PASI-K
		EPA 353.2	NDL	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	JML	1	PASI-K
60128986015	**GW-5_20120911**	EPA 200.7	SMW	4	PASI-K
		EPA 200.8	AS2, RR1	25	PASI-M
		EPA 200.8	AS2, RJS, RR1	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CAC	1	
		Calculated	CAC	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	NDL	1	PASI-K
		SM 2540D	NDL	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	AJM	2	PASI-K
		EPA 353.2	NDL	1	PASI-K

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

SAMPLE ANALYTE COUNT

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	JML	1	PASI-K
60128986016	**GW-6_20120911**	EPA 200.7	SMW	4	PASI-K
		EPA 200.8	AS2, RR1	25	PASI-M
		EPA 200.8	AS2, RJS, RR1	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CAC	1	
		Calculated	CAC	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	NDL	1	PASI-K
		SM 2540D	NDL	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	AJM	2	PASI-K
		EPA 353.2	NDL	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	JML	1	PASI-K
60128986017	**GW-7_20120911**	EPA 200.7	SMW	4	PASI-K
		EPA 200.8	AS2, RR1	25	PASI-M
		EPA 200.8	AS2, RJS, RR1	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CAC	1	
		Calculated	CAC	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	NDL	1	PASI-K
		SM 2540D	NDL	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	AJM	2	PASI-K
		EPA 353.2	NDL	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	JML	1	PASI-K

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

SAMPLE ANALYTE COUNT

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60128986018	**EB-1_20120911**	EPA 200.7	SMW	4	PASI-K
		EPA 200.8	AS2, RR1	25	PASI-M
		EPA 200.8	AS2, RJS, RR1	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CAC	1	
		Calculated	CAC	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	NDL	1	PASI-K
		SM 2540D	NDL	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	AJM	2	PASI-K
		EPA 353.2	NDL	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	JML	1	PASI-K
60128986019	**EB-2_20120911**	EPA 200.7	SMW	4	PASI-K
		EPA 200.8	RJS	25	PASI-M
		EPA 200.8	RR1	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CAC	1	
		Calculated	CAC	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	NDL	1	PASI-K
		SM 2540D	NDL	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	AJM	2	PASI-K
		EPA 353.2	NDL	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	JML	1	PASI-K
60128986020	**MW-1-DEEP_20120911**	EPA 200.7	SMW	4	PASI-K
		EPA 200.8	AS2, RR1	25	PASI-M

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

SAMPLE ANALYTE COUNT

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 200.8	RR1	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CAC	1	
		Calculated	CAC	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	NDL	1	PASI-K
		SM 2540D	NDL	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	AJM	2	PASI-K
		EPA 353.2	NDL	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	JML	1	PASI-K
60128986021	**MW-1-SHALLOW_20120911**	EPA 200.7	SMW	4	PASI-K
		EPA 200.8	AS2, RR1	25	PASI-M
		EPA 200.8	RR1	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CAC	1	
		Calculated	CAC	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	NDL	1	PASI-K
		SM 2540D	NDL	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	AJM	2	PASI-K
		EPA 353.2	NDL	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	JML	1	PASI-K
60128986022	**MW-2-DEEP_20120911**	EPA 200.7	SMW	4	PASI-K
		EPA 200.8	AS2, RR1	25	PASI-M
		EPA 200.8	RR1	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

SAMPLE ANALYTE COUNT

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CAC	1	
		Calculated	CAC	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	NDL	1	PASI-K
		SM 2540D	NDL	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	AJM	2	PASI-K
		EPA 353.2	NDL	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	JML	1	PASI-K
60128986023	**MW-3-DEEP_20120911**	EPA 200.7	SMW	4	PASI-K
		EPA 200.8	RJS	25	PASI-M
		EPA 200.8	RR1	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CAC	1	
		Calculated	CAC	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	NDL	1	PASI-K
		SM 2540D	NDL	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	AJM	2	PASI-K
		EPA 353.2	NDL	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	JML	1	PASI-K
60128986024	**MW-4-DEEP_20120911**	EPA 200.7	SMW	4	PASI-K
		EPA 200.8	AS2, RR1	25	PASI-M
		EPA 200.8	RR1	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CAC	1	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

SAMPLE ANALYTE COUNT

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		Calculated	CAC	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	NDL	1	PASI-K
		SM 2540D	NDL	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	AJM	2	PASI-K
		EPA 353.2	NDL	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	JML	1	PASI-K
60128986025	**MW-4-SHALLOW_20120911**	EPA 200.7	SMW	4	PASI-K
		EPA 200.8	AS2, RR1	25	PASI-M
		EPA 200.8	RR1	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CAC	1	
		Calculated	CAC	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	NDL	1	PASI-K
		SM 2540D	NDL	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	AJM	2	PASI-K
		EPA 353.2	NDL	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	JML	1	PASI-K
60128986026	**MW-5-DEEP_20120911**	EPA 200.7	SMW	4	PASI-K
		EPA 200.8	RJS	25	PASI-M
		EPA 200.8	RR1	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CAC	1	
		Calculated	CAC	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	NDL	1	PASI-K

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

SAMPLE ANALYTE COUNT

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2540D	NDL	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	AJM	2	PASI-K
		EPA 353.2	NDL	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	JML	1	PASI-K
60128986027	**MW-5-SHALLOW_20120911**	EPA 200.7	SMW	4	PASI-K
		EPA 200.8	AS2	25	PASI-M
		EPA 200.8	RR1	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CAC	1	
		Calculated	CAC	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	NDL	1	PASI-K
		SM 2540D	NDL	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	AJM	2	PASI-K
		EPA 353.2	NDL	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	JML	1	PASI-K
60128986028	**MW-6-DEEP_20120911**	EPA 200.7	SMW	4	PASI-K
		EPA 200.8	RJS	25	PASI-M
		EPA 200.8	RR1	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CAC	1	
		Calculated	CAC	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	NDL	1	PASI-K
		SM 2540D	NDL	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	AJM	2	PASI-K

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

SAMPLE ANALYTE COUNT

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 353.2	NDL	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	JML	1	PASI-K
60128986029	**MW-6-SHALLOW_20120911**	EPA 200.7	SMW	4	PASI-K
		EPA 200.8	AS2, RR1	25	PASI-M
		EPA 200.8	RR1	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CAC	1	
		Calculated	CAC	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	NDL	1	PASI-K
		SM 2540D	NDL	1	PASI-K
		SM 4500-S-2 D	NDL	1	PASI-K
		EPA 300.0	AJM	2	PASI-K
		EPA 353.2	NDL	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	JML	1	PASI-K

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

PROJECT NARRATIVE

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Method: **EPA 200.7**
Description: 200.7 Potentially Diss. Metals
Client: BP Anderson Engineering Company Inc.
Date: November 05, 2012

General Information:
29 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 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/19595

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60128986024

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

- MSD (Lab ID: 1064781)
  - Calcium, Dissolved

QC Batch: MPRP/19594

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60128986004,60128986014

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

- MS (Lab ID: 1064773)
  - Calcium, Dissolved

Additional Comments:

Sample Comments:

This station may have been impacted by work operations occurring in the Blaine tunnel and 517 shaft at the time of sampling.

- DR-3_20120911 (Lab ID: 60128986003)
- DR-8_20120911 (Lab ID: 60128986008)

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

PROJECT NARRATIVE

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Method: **EPA 200.7**
Description: 200.7 Potentially Diss. Metals
Client: BP Anderson Engineering Company Inc.
Date: November 05, 2012

Analyte Comments:

QC Batch: MPRP/19594

B: Analyte was detected in the associated method blank.

- DR-1_20120911 (Lab ID: 60128986001)
  - Calcium, Dissolved
- DR-2_20120911 (Lab ID: 60128986002)
  - Calcium, Dissolved
- DR-3_20120911 (Lab ID: 60128986003)
  - Calcium, Dissolved
- DR-4-SW_20120911 (Lab ID: 60128986009)
  - Calcium, Dissolved
- DR-4_20120911 (Lab ID: 60128986004)
  - Calcium, Dissolved
- DR-5_20120911 (Lab ID: 60128986005)
  - Calcium, Dissolved
- DR-6_20120911 (Lab ID: 60128986006)
  - Calcium, Dissolved
- DR-7_20120911 (Lab ID: 60128986007)
  - Calcium, Dissolved
- DR-8_20120911 (Lab ID: 60128986008)
  - Calcium, Dissolved
- DR-G_20120911 (Lab ID: 60128986010)
  - Calcium, Dissolved
- EB-1_20120911 (Lab ID: 60128986018)
  - Calcium, Dissolved
- EB-2_20120911 (Lab ID: 60128986019)
  - Calcium, Dissolved
- FB_20120911 (Lab ID: 60128986011)
  - Calcium, Dissolved
- GW-1_20120911 (Lab ID: 60128986012)
  - Calcium, Dissolved
- GW-3_20120911 (Lab ID: 60128986013)
  - Calcium, Dissolved
- GW-4_20120911 (Lab ID: 60128986014)
  - Calcium, Dissolved
- GW-5_20120911 (Lab ID: 60128986015)
  - Calcium, Dissolved
- GW-6_20120911 (Lab ID: 60128986016)
  - Calcium, Dissolved
- GW-7_20120911 (Lab ID: 60128986017)
  - Calcium, Dissolved
- MW-1-DEEP_20120911 (Lab ID: 60128986020)
  - Calcium, Dissolved

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

PROJECT NARRATIVE

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Method: **EPA 200.7**
Description: 200.7 Potentially Diss. Metals
Client: BP Anderson Engineering Company Inc.
Date: November 05, 2012

Analyte Comments:

QC Batch: MPRP/19594

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

- FB_20120911 (Lab ID: 60128986011)
  - Magnesium, Dissolved

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

PROJECT NARRATIVE

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Method: **EPA 200.8**
Description: 200.8 MET ICPMS
Client: BP Anderson Engineering Company Inc.
Date: November 05, 2012

General Information:
29 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.

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 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: ICPM/35239

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60128986001,60128986011

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

- MSD (Lab ID: 1290923)
  - Calcium

QC Batch: ICPM/35240

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60128975001,60128986020

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

- MS (Lab ID: 1290936)
  - Aluminum
  - Calcium
  - Silica
  - Sodium
  - Total Hardness by 2340B
- MS (Lab ID: 1290938)
  - Aluminum
  - Total Hardness by 2340B
  - Zinc
- MSD (Lab ID: 1290937)

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

PROJECT NARRATIVE

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Method: **EPA 200.8**
Description: 200.8 MET ICPMS
Client: BP Anderson Engineering Company Inc.
Date: November 05, 2012

QC Batch: ICPM/35240

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60128975001,60128986020

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

- Calcium
- Silica
- Sodium
- Total Hardness by 2340B
- Zinc

QC Batch: ICPM/35654

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60128986023

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

- MS (Lab ID: 1306969)
  - Silica
  - Total Hardness by 2340B
- MSD (Lab ID: 1306970)
  - Total Hardness by 2340B

Additional Comments:

Sample Comments:

This station may have been impacted by work operations occurring in the Blaine tunnel and 517 shaft at the time of sampling.

- DR-3_20120911 (Lab ID: 60128986003)
- DR-8_20120911 (Lab ID: 60128986008)

Analyte Comments:

QC Batch: ICPM/35239

B: Analyte was detected in the associated method blank.

- DR-1_20120911 (Lab ID: 60128986001)
  - Lead

P8: Analyte was detected in the method blank. All associated samples had concentrations of at least ten times greater than the blank or were below the reporting limit.

- BLANK (Lab ID: 1290920)
  - Cadmium

QC Batch: ICPM/35240

D4: Sample was diluted due to the presence of high levels of target analytes.

- MW-5-SHALLOW_20120911 (Lab ID: 60128986027)
  - Chromium

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

- MS (Lab ID: 1290936)
  - Calcium
  - Zinc
- MSD (Lab ID: 1290937)
  - Calcium

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

PROJECT NARRATIVE

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Method: **EPA 200.8**
Description: 200.8 MET ICPMS
Client: BP Anderson Engineering Company Inc.
Date: November 05, 2012

Analyte Comments:

QC Batch: ICPM/35240

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

- MSD (Lab ID: 1290937)
  - Zinc

P8: Analyte was detected in the method blank. All associated samples had concentrations of at least ten times greater than the blank or were below the reporting limit.

- BLANK (Lab ID: 1290934)
  - Cadmium

QC Batch: ICPM/35604

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

- EB-2_20120911 (Lab ID: 60128986019)
  - Silver
  - Chromium
  - Antimony
  - Selenium
  - Thallium

QC Batch: ICPM/35654

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

- MS (Lab ID: 1306969)
  - Calcium
- MSD (Lab ID: 1306970)
  - Calcium

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

PROJECT NARRATIVE

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Method: **EPA 200.8**
Description: 200.8 MET ICPMS, Dissolved
Client: BP Anderson Engineering Company Inc.
Date: November 05, 2012

General Information:
29 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.

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 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: ICPM/35243

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60128986001,60128986011

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

- MS (Lab ID: 1290950)
  - Calcium, Dissolved
- MS (Lab ID: 1290952)
  - Copper, Dissolved
  - Iron, Dissolved
  - Magnesium, Dissolved
- MSD (Lab ID: 1290951)
  - Calcium, Dissolved

Additional Comments:

Sample Comments:

This station may have been impacted by work operations occurring in the Blaine tunnel and 517 shaft at the time of sampling.

- DR-3_20120911 (Lab ID: 60128986003)
- DR-8_20120911 (Lab ID: 60128986008)

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

PROJECT NARRATIVE

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Method: **EPA 200.8**
Description: 200.8 MET ICPMS, Dissolved
Client: BP Anderson Engineering Company Inc.
Date: November 05, 2012

Analyte Comments:

QC Batch: ICPM/35243

B: Analyte was detected in the associated method blank.

- DR-1_20120911 (Lab ID: 60128986001)
  - Arsenic, Dissolved
  - Copper, Dissolved
- DR-2_20120911 (Lab ID: 60128986002)
  - Arsenic, Dissolved
  - Copper, Dissolved
- DR-3_20120911 (Lab ID: 60128986003)
  - Arsenic, Dissolved
- DR-4-SW_20120911 (Lab ID: 60128986009)
  - Arsenic, Dissolved
  - Copper, Dissolved
- DR-4_20120911 (Lab ID: 60128986004)
  - Arsenic, Dissolved
  - Copper, Dissolved
- DR-5_20120911 (Lab ID: 60128986005)
  - Arsenic, Dissolved
  - Copper, Dissolved
- DR-6_20120911 (Lab ID: 60128986006)
  - Arsenic, Dissolved
- DR-7_20120911 (Lab ID: 60128986007)
  - Arsenic, Dissolved
  - Copper, Dissolved
- DR-G_20120911 (Lab ID: 60128986010)
  - Arsenic, Dissolved
  - Copper, Dissolved
- EB-1_20120911 (Lab ID: 60128986018)
  - Copper, Dissolved
- FB_20120911 (Lab ID: 60128986011)
  - Arsenic, Dissolved
  - Copper, Dissolved
  - Potassium, Dissolved
- GW-1_20120911 (Lab ID: 60128986012)
  - Arsenic, Dissolved
  - Copper, Dissolved
- GW-3_20120911 (Lab ID: 60128986013)
  - Arsenic, Dissolved
- GW-7_20120911 (Lab ID: 60128986017)
  - Arsenic, Dissolved

QC Batch: ICPM/35244

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

- MS (Lab ID: 1290956)
  - Iron, Dissolved

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

PROJECT NARRATIVE

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Method: **EPA 200.8**
Description: 200.8 MET ICPMS, Dissolved
Client: BP Anderson Engineering Company Inc.
Date: November 05, 2012

Analyte Comments:

QC Batch: ICPM/35244

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

- MS (Lab ID: 1290956)
  - Manganese, Dissolved
  - Zinc, Dissolved
- MS (Lab ID: 1290958)
  - Calcium, Dissolved
  - Manganese, Dissolved
- MSD (Lab ID: 1290957)
  - Iron, Dissolved
  - Manganese, Dissolved
  - Zinc, Dissolved

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

PROJECT NARRATIVE

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Method: **EPA 200.8**
Description: 200.8 Potentially Diss. Metals
Client: BP Anderson Engineering Company Inc.
Date: November 05, 2012

General Information:
29 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 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/19596

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60128986005,60128986015

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

- MS (Lab ID: 1064785)
  - Manganese, Dissolved
  - Zinc, Dissolved
- MS (Lab ID: 1064787)
  - Copper, Dissolved
  - Iron, Dissolved
  - Lead, Dissolved
  - Manganese, Dissolved
  - Zinc, Dissolved

QC Batch: MPRP/19597

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60128986025

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

- MS (Lab ID: 1064790)

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

PROJECT NARRATIVE

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Method: **EPA 200.8**
Description: 200.8 Potentially Diss. Metals
Client: BP Anderson Engineering Company Inc.
Date: November 05, 2012

QC Batch: MPRP/19597

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60128986025

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

- Iron, Dissolved
- Manganese, Dissolved
- Zinc, Dissolved

- MSD (Lab ID: 1066518)
  - Aluminum, Dissolved

Additional Comments:

Sample Comments:

This station may have been impacted by work operations occurring in the Blaine tunnel and 517 shaft at the time of sampling.

- DR-3_20120911 (Lab ID: 60128986003)
- DR-8_20120911 (Lab ID: 60128986008)

Analyte Comments:

QC Batch: MPRP/19596

B: Analyte was detected in the associated method blank.

- DR-1_20120911 (Lab ID: 60128986001)
  - Barium, Dissolved
  - Chromium, Dissolved
  - Iron, Dissolved
  - Manganese, Dissolved
  - Zinc, Dissolved
- DR-2_20120911 (Lab ID: 60128986002)
  - Chromium, Dissolved
  - Iron, Dissolved
  - Manganese, Dissolved
  - Zinc, Dissolved
  - Barium, Dissolved
- DR-3_20120911 (Lab ID: 60128986003)
  - Barium, Dissolved
  - Chromium, Dissolved
  - Iron, Dissolved
  - Manganese, Dissolved
  - Zinc, Dissolved
- DR-4-SW_20120911 (Lab ID: 60128986009)
  - Barium, Dissolved
  - Chromium, Dissolved
  - Iron, Dissolved
  - Manganese, Dissolved
  - Zinc, Dissolved
- DR-4_20120911 (Lab ID: 60128986004)
  - Barium, Dissolved
  - Chromium, Dissolved

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

PROJECT NARRATIVE

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Method: **EPA 200.8**
Description: 200.8 Potentially Diss. Metals
Client: BP Anderson Engineering Company Inc.
Date: November 05, 2012

Analyte Comments:

QC Batch: MPRP/19596

B: Analyte was detected in the associated method blank.

- DR-4_20120911 (Lab ID: 60128986004)
  - Iron, Dissolved
  - Manganese, Dissolved
  - Zinc, Dissolved
- DR-5_20120911 (Lab ID: 60128986005)
  - Barium, Dissolved
  - Chromium, Dissolved
  - Iron, Dissolved
  - Manganese, Dissolved
  - Zinc, Dissolved
- DR-6_20120911 (Lab ID: 60128986006)
  - Barium, Dissolved
  - Chromium, Dissolved
  - Iron, Dissolved
  - Manganese, Dissolved
  - Zinc, Dissolved
- DR-7_20120911 (Lab ID: 60128986007)
  - Barium, Dissolved
  - Chromium, Dissolved
  - Iron, Dissolved
  - Manganese, Dissolved
  - Zinc, Dissolved
- DR-8_20120911 (Lab ID: 60128986008)
  - Barium, Dissolved
  - Chromium, Dissolved
  - Iron, Dissolved
  - Manganese, Dissolved
  - Zinc, Dissolved
- DR-G_20120911 (Lab ID: 60128986010)
  - Barium, Dissolved
  - Chromium, Dissolved
  - Iron, Dissolved
  - Manganese, Dissolved
  - Zinc, Dissolved
- EB-1_20120911 (Lab ID: 60128986018)
  - Barium, Dissolved
  - Chromium, Dissolved
  - Iron, Dissolved
  - Manganese, Dissolved
  - Zinc, Dissolved
- EB-2_20120911 (Lab ID: 60128986019)
  - Barium, Dissolved
  - Chromium, Dissolved

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

PROJECT NARRATIVE

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Method: **EPA 200.8**
Description: 200.8 Potentially Diss. Metals
Client: BP Anderson Engineering Company Inc.
Date: November 05, 2012

Analyte Comments:

QC Batch: MPRP/19596

B: Analyte was detected in the associated method blank.

- EB-2_20120911 (Lab ID: 60128986019)
  - Iron, Dissolved
  - Manganese, Dissolved
  - Zinc, Dissolved
- FB_20120911 (Lab ID: 60128986011)
  - Barium, Dissolved
  - Chromium, Dissolved
  - Iron, Dissolved
  - Manganese, Dissolved
  - Zinc, Dissolved
- GW-1_20120911 (Lab ID: 60128986012)
  - Barium, Dissolved
  - Chromium, Dissolved
  - Iron, Dissolved
  - Manganese, Dissolved
  - Zinc, Dissolved
- GW-3_20120911 (Lab ID: 60128986013)
  - Barium, Dissolved
  - Chromium, Dissolved
  - Iron, Dissolved
  - Manganese, Dissolved
  - Zinc, Dissolved
- GW-4_20120911 (Lab ID: 60128986014)
  - Barium, Dissolved
  - Chromium, Dissolved
  - Iron, Dissolved
  - Manganese, Dissolved
  - Zinc, Dissolved
- GW-5_20120911 (Lab ID: 60128986015)
  - Barium, Dissolved
  - Chromium, Dissolved
  - Iron, Dissolved
  - Manganese, Dissolved
  - Zinc, Dissolved
- GW-6_20120911 (Lab ID: 60128986016)
  - Barium, Dissolved
  - Chromium, Dissolved
  - Iron, Dissolved
  - Manganese, Dissolved
  - Zinc, Dissolved
- GW-7_20120911 (Lab ID: 60128986017)
  - Barium, Dissolved
  - Chromium, Dissolved

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

PROJECT NARRATIVE

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Method: **EPA 200.8**
Description: 200.8 Potentially Diss. Metals
Client: BP Anderson Engineering Company Inc.
Date: November 05, 2012

Analyte Comments:

QC Batch: MPRP/19596

B: Analyte was detected in the associated method blank.

- GW-7_20120911 (Lab ID: 60128986017)
  - Iron, Dissolved
  - Manganese, Dissolved
  - Zinc, Dissolved
- MW-1-DEEP_20120911 (Lab ID: 60128986020)
  - Barium, Dissolved
  - Chromium, Dissolved
  - Iron, Dissolved
  - Manganese, Dissolved
  - Zinc, Dissolved

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

- DR-1_20120911 (Lab ID: 60128986001)
  - Aluminum, Dissolved
  - Antimony, Dissolved
- DR-2_20120911 (Lab ID: 60128986002)
  - Antimony, Dissolved
  - Thallium, Dissolved
- DR-3_20120911 (Lab ID: 60128986003)
  - Thallium, Dissolved
- DR-4-SW_20120911 (Lab ID: 60128986009)
  - Antimony, Dissolved
  - Thallium, Dissolved
- DR-4_20120911 (Lab ID: 60128986004)
  - Thallium, Dissolved
- DR-5_20120911 (Lab ID: 60128986005)
  - Thallium, Dissolved
- DR-6_20120911 (Lab ID: 60128986006)
  - Thallium, Dissolved
- DR-7_20120911 (Lab ID: 60128986007)
  - Antimony, Dissolved
  - Thallium, Dissolved
- DR-8_20120911 (Lab ID: 60128986008)
  - Thallium, Dissolved
- DR-G_20120911 (Lab ID: 60128986010)
  - Aluminum, Dissolved
  - Antimony, Dissolved
  - Thallium, Dissolved
- EB-1_20120911 (Lab ID: 60128986018)
  - Antimony, Dissolved
  - Thallium, Dissolved
- EB-2_20120911 (Lab ID: 60128986019)
  - Antimony, Dissolved

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

PROJECT NARRATIVE

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Method: **EPA 200.8**
Description: 200.8 Potentially Diss. Metals
Client: BP Anderson Engineering Company Inc.
Date: November 05, 2012

Analyte Comments:

QC Batch: MPRP/19596

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

- EB-2_20120911 (Lab ID: 60128986019)
  - Thallium, Dissolved
- GW-1_20120911 (Lab ID: 60128986012)
  - Thallium, Dissolved
- GW-3_20120911 (Lab ID: 60128986013)
  - Thallium, Dissolved
- GW-4_20120911 (Lab ID: 60128986014)
  - Antimony, Dissolved
- GW-7_20120911 (Lab ID: 60128986017)
  - Antimony, Dissolved
- MW-1-DEEP_20120911 (Lab ID: 60128986020)
  - Cobalt, Dissolved
  - Thallium, Dissolved

QC Batch: MPRP/19597

B: Analyte was detected in the associated method blank.

- MW-1-SHALLOW_20120911 (Lab ID: 60128986021)
  - Barium, Dissolved
  - Chromium, Dissolved
  - Iron, Dissolved
  - Manganese, Dissolved
  - Lead, Dissolved
  - Zinc, Dissolved
- MW-2-DEEP_20120911 (Lab ID: 60128986022)
  - Barium, Dissolved
  - Chromium, Dissolved
  - Iron, Dissolved
  - Manganese, Dissolved
  - Lead, Dissolved
  - Zinc, Dissolved
- MW-3-DEEP_20120911 (Lab ID: 60128986023)
  - Barium, Dissolved
  - Chromium, Dissolved
  - Iron, Dissolved
  - Manganese, Dissolved
  - Lead, Dissolved
  - Zinc, Dissolved
- MW-4-DEEP_20120911 (Lab ID: 60128986024)
  - Barium, Dissolved
  - Chromium, Dissolved
  - Iron, Dissolved
  - Manganese, Dissolved
  - Lead, Dissolved

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

PROJECT NARRATIVE

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Method: **EPA 200.8**
Description: 200.8 Potentially Diss. Metals
Client: BP Anderson Engineering Company Inc.
Date: November 05, 2012

Analyte Comments:

QC Batch: MPRP/19597

B: Analyte was detected in the associated method blank.

- MW-4-DEEP_20120911 (Lab ID: 60128986024)
  - Zinc, Dissolved
- MW-4-SHALLOW_20120911 (Lab ID: 60128986025)
  - Barium, Dissolved
  - Chromium, Dissolved
  - Iron, Dissolved
  - Manganese, Dissolved
  - Lead, Dissolved
  - Zinc, Dissolved
- MW-5-DEEP_20120911 (Lab ID: 60128986026)
  - Barium, Dissolved
  - Chromium, Dissolved
  - Iron, Dissolved
  - Manganese, Dissolved
  - Lead, Dissolved
  - Zinc, Dissolved
- MW-5-SHALLOW_20120911 (Lab ID: 60128986027)
  - Barium, Dissolved
  - Chromium, Dissolved
  - Iron, Dissolved
  - Manganese, Dissolved
  - Lead, Dissolved
  - Zinc, Dissolved
- MW-6-DEEP_20120911 (Lab ID: 60128986028)
  - Barium, Dissolved
  - Chromium, Dissolved
  - Iron, Dissolved
  - Manganese, Dissolved
  - Lead, Dissolved
  - Zinc, Dissolved
- MW-6-SHALLOW_20120911 (Lab ID: 60128986029)
  - Barium, Dissolved
  - Chromium, Dissolved
  - Iron, Dissolved
  - Manganese, Dissolved
  - Lead, Dissolved
  - Zinc, Dissolved

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

- MW-2-DEEP_20120911 (Lab ID: 60128986022)
  - Cobalt, Dissolved
  - Nickel, Dissolved
  - Antimony, Dissolved

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

PROJECT NARRATIVE

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Method: **EPA 200.8**
Description: 200.8 Potentially Diss. Metals
Client: BP Anderson Engineering Company Inc.
Date: November 05, 2012

Analyte Comments:

QC Batch: MPRP/19597

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

- MW-2-DEEP_20120911 (Lab ID: 60128986022)
  - Thallium, Dissolved
- MW-3-DEEP_20120911 (Lab ID: 60128986023)
  - Copper, Dissolved
  - Antimony, Dissolved
  - Thallium, Dissolved
- MW-4-DEEP_20120911 (Lab ID: 60128986024)
  - Antimony, Dissolved
  - Thallium, Dissolved
- MW-4-SHALLOW_20120911 (Lab ID: 60128986025)
  - Antimony, Dissolved
  - Thallium, Dissolved
- MW-5-SHALLOW_20120911 (Lab ID: 60128986027)
  - Antimony, Dissolved
- MW-6-DEEP_20120911 (Lab ID: 60128986028)
  - Thallium, Dissolved
- MW-6-SHALLOW_20120911 (Lab ID: 60128986029)
  - Antimony, Dissolved

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

PROJECT NARRATIVE

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Method: **EPA 245.1**
Description: 245.1 Mercury
Client: BP Anderson Engineering Company Inc.
Date: November 05, 2012

General Information:
29 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.

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

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

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

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

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

Additional Comments:

Sample Comments:

This station may have been impacted by work operations occurring in the Blaine tunnel and 517 shaft at the time of sampling.
- DR-3_20120911 (Lab ID: 60128986003)
- DR-8_20120911 (Lab ID: 60128986008)

Analyte Comments:

QC Batch: MERC/7537

B: Analyte was detected in the associated method blank.
- DR-1_20120911 (Lab ID: 60128986001)
  - Mercury
- DR-2_20120911 (Lab ID: 60128986002)
  - Mercury
- DR-3_20120911 (Lab ID: 60128986003)
  - Mercury
- DR-4-SW_20120911 (Lab ID: 60128986009)
  - Mercury
- DR-4_20120911 (Lab ID: 60128986004)
  - Mercury
- DR-5_20120911 (Lab ID: 60128986005)
  - Mercury

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

PROJECT NARRATIVE

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Method: **EPA 245.1**
Description: 245.1 Mercury
Client: BP Anderson Engineering Company Inc.
Date: November 05, 2012

Analyte Comments:

QC Batch: MERC/7537

B: Analyte was detected in the associated method blank.

- DR-6_20120911 (Lab ID: 60128986006)
  - Mercury
- DR-7_20120911 (Lab ID: 60128986007)
  - Mercury
- DR-8_20120911 (Lab ID: 60128986008)
  - Mercury
- DR-G_20120911 (Lab ID: 60128986010)
  - Mercury
- EB-1_20120911 (Lab ID: 60128986018)
  - Mercury
- EB-2_20120911 (Lab ID: 60128986019)
  - Mercury
- FB_20120911 (Lab ID: 60128986011)
  - Mercury
- GW-1_20120911 (Lab ID: 60128986012)
  - Mercury
- GW-3_20120911 (Lab ID: 60128986013)
  - Mercury
- GW-4_20120911 (Lab ID: 60128986014)
  - Mercury
- GW-5_20120911 (Lab ID: 60128986015)
  - Mercury
- GW-6_20120911 (Lab ID: 60128986016)
  - Mercury
- GW-7_20120911 (Lab ID: 60128986017)
  - Mercury
- MW-1-DEEP_20120911 (Lab ID: 60128986020)
  - Mercury

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

PROJECT NARRATIVE

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Method: **EPA 245.1**
Description: 245.1 Mercury, Dissolved
Client: BP Anderson Engineering Company Inc.
Date: November 05, 2012

General Information:
29 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.

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

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

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

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

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

QC Batch: MERC/7533

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60128986001,60128986020

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

- MS (Lab ID: 1291859)
  - Mercury, Dissolved

Additional Comments:

Sample Comments:

This station may have been impacted by work operations occurring in the Blaine tunnel and 517 shaft at the time of sampling.

- DR-3_20120911 (Lab ID: 60128986003)
- DR-8_20120911 (Lab ID: 60128986008)

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

PROJECT NARRATIVE

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Method: **EPA 245.1**
Description: 245.1 Potentially Diss Mercury
Client: BP Anderson Engineering Company Inc.
Date: November 05, 2012

General Information:
29 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 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:

This station may have been impacted by work operations occurring in the Blaine tunnel and 517 shaft at the time of sampling.
- DR-3_20120911 (Lab ID: 60128986003)
- DR-8_20120911 (Lab ID: 60128986008)

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

PROJECT NARRATIVE

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Method: **SM 2510B**
Description: 2510B Specific Conductance
Client: BP Anderson Engineering Company Inc.
Date: November 05, 2012

General Information:
29 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 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:

This station may have been impacted by work operations occurring in the Blaine tunnel and 517 shaft at the time of sampling.

- DR-3_20120911 (Lab ID: 60128986003)
- DR-8_20120911 (Lab ID: 60128986008)

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

PROJECT NARRATIVE

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Method: **Calculated**
Description: Salinity
Client: BP Anderson Engineering Company Inc.
Date: November 05, 2012

General Information:
29 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 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:

This station may have been impacted by work operations occurring in the Blaine tunnel and 517 shaft at the time of sampling.
- DR-3_20120911 (Lab ID: 60128986003)
- DR-8_20120911 (Lab ID: 60128986008)

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

PROJECT NARRATIVE

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Method: **SM 2320B**
Description: 2320B Alkalinity
Client: BP Anderson Engineering Company Inc.
Date: November 05, 2012

General Information:
29 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.

H1: Analysis conducted outside the EPA method holding time.
- EB-1_20120911 (Lab ID: 60128986018)
- EB-2_20120911 (Lab ID: 60128986019)
- MW-2-DEEP_20120911 (Lab ID: 60128986022)
- MW-3-DEEP_20120911 (Lab ID: 60128986023)
- MW-4-DEEP_20120911 (Lab ID: 60128986024)
- MW-4-SHALLOW_20120911 (Lab ID: 60128986025)
- MW-5-DEEP_20120911 (Lab ID: 60128986026)
- MW-5-SHALLOW_20120911 (Lab ID: 60128986027)
- MW-6-DEEP_20120911 (Lab ID: 60128986028)
- MW-6-SHALLOW_20120911 (Lab ID: 60128986029)

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

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

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

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

Additional Comments:

Sample Comments:

This station may have been impacted by work operations occurring in the Blaine tunnel and 517 shaft at the time of sampling.
- DR-3_20120911 (Lab ID: 60128986003)
- DR-8_20120911 (Lab ID: 60128986008)

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

PROJECT NARRATIVE

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: BP Anderson Engineering Company Inc.
Date: November 05, 2012

General Information:
29 samples were analyzed for SM 2540C. All samples were received in acceptable condition with any exceptions noted below.

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

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

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

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

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

Additional Comments:

Sample Comments:

This station may have been impacted by work operations occurring in the Blaine tunnel and 517 shaft at the time of sampling.

- DR-3_20120911 (Lab ID: 60128986003)
- DR-8_20120911 (Lab ID: 60128986008)

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

PROJECT NARRATIVE

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Method: **SM 2540D**
Description: 2540D Total Suspended Solids
Client: BP Anderson Engineering Company Inc.
Date: November 05, 2012

General Information:
29 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 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:

This station may have been impacted by work operations occurring in the Blaine tunnel and 517 shaft at the time of sampling.

- DR-3_20120911 (Lab ID: 60128986003)
- DR-8_20120911 (Lab ID: 60128986008)

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

PROJECT NARRATIVE

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Method: **SM 4500-S-2 D**
Description: 4500S2D Sulfide, Total
Client: BP Anderson Engineering Company Inc.
Date: November 05, 2012

General Information:
29 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 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/37144

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60128660001

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

- MS (Lab ID: 1061725)
  - Sulfide, Total

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

Additional Comments:

Sample Comments:

This station may have been impacted by work operations occurring in the Blaine tunnel and 517 shaft at the time of sampling.

- DR-3_20120911 (Lab ID: 60128986003)
- DR-8_20120911 (Lab ID: 60128986008)

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

PROJECT NARRATIVE

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: BP Anderson Engineering Company Inc.
Date: November 05, 2012

General Information:
29 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

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

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

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

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

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

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

Additional Comments:

Sample Comments:

This station may have been impacted by work operations occurring in the Blaine tunnel and 517 shaft at the time of sampling.
- DR-3_20120911 (Lab ID: 60128986003)
- DR-8_20120911 (Lab ID: 60128986008)

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

PROJECT NARRATIVE

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Method: **EPA 353.2**
Description: 353.2 Nitrogen, NO2/NO3 pres.
Client: BP Anderson Engineering Company Inc.
Date: November 05, 2012

General Information:
29 samples were analyzed for EPA 353.2. All samples were received in acceptable condition with any exceptions noted below.

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

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

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

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

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

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

QC Batch: WETA/21675

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60128986012,60128986022

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

- MS (Lab ID: 1062655)
  - Nitrogen, NO2 plus NO3
- MS (Lab ID: 1062657)
  - Nitrogen, NO2 plus NO3

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

Additional Comments:

Sample Comments:

This station may have been impacted by work operations occurring in the Blaine tunnel and 517 shaft at the time of sampling.

- DR-3_20120911 (Lab ID: 60128986003)
- DR-8_20120911 (Lab ID: 60128986008)

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

PROJECT NARRATIVE

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Method: **SM 4500-CN-E**
Description: 4500CNE Cyanide, Total
Client: BP Anderson Engineering Company Inc.
Date: November 05, 2012

General Information:
29 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 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:

This station may have been impacted by work operations occurring in the Blaine tunnel and 517 shaft at the time of sampling.

- DR-3_20120911 (Lab ID: 60128986003)
- DR-8_20120911 (Lab ID: 60128986008)

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

PROJECT NARRATIVE

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Method: **SM 5310C**
Description: 5310C TOC
Client: BP Anderson Engineering Company Inc.
Date: November 05, 2012

General Information:
29 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 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:

This station may have been impacted by work operations occurring in the Blaine tunnel and 517 shaft at the time of sampling.

- DR-3_20120911 (Lab ID: 60128986003)
- DR-8_20120911 (Lab ID: 60128986008)

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: DR-1_20120911 **Lab ID: 60128986001** Collected: 09/11/12 12:40 Received: 09/14/12 10:15 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	**43500**	ug/L	500	5	09/21/12 15:50	09/25/12 13:35	7440-70-2	B
Magnesium, Dissolved	**6510**	ug/L	250	5	09/21/12 15:50	09/25/12 13:35	7439-95-4	
Potassium, Dissolved	**708**	ug/L	500	1	09/21/12 15:50	09/27/12 09:28	7440-09-7	
Sodium, Dissolved	**2700**	ug/L	500	1	09/21/12 15:50	09/27/12 09:28	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	**20.7**	ug/L	4.0	1	09/26/12 13:22	09/28/12 09:30	7429-90-5	
Antimony	ND	ug/L	0.50	1	09/26/12 13:22	09/28/12 09:30	7440-36-0	
Arsenic	ND	ug/L	0.50	1	09/26/12 13:22	10/02/12 15:27	7440-38-2	
Barium	**77.8**	ug/L	0.30	1	09/26/12 13:22	09/28/12 09:30	7440-39-3	
Beryllium	ND	ug/L	0.20	1	09/26/12 13:22	09/28/12 09:30	7440-41-7	
Cadmium	ND	ug/L	0.080	1	09/26/12 13:22	09/28/12 09:30	7440-43-9	
Calcium	**45700**	ug/L	100	5	09/26/12 13:22	09/28/12 09:36	7440-70-2	M1
Chromium	**0.54**	ug/L	0.50	1	09/26/12 13:22	09/28/12 09:30	7440-47-3	
Cobalt	ND	ug/L	0.50	1	09/26/12 13:22	09/28/12 09:30	7440-48-4	
Copper	**0.77**	ug/L	0.50	1	09/26/12 13:22	09/28/12 09:30	7440-50-8	
Iron	**50.5**	ug/L	50.0	1	09/26/12 13:22	09/28/12 09:30	7439-89-6	
Lead	**0.13**	ug/L	0.10	1	09/26/12 13:22	09/28/12 09:30	7439-92-1	B
Magnesium	**6210**	ug/L	5.0	1	09/26/12 13:22	09/28/12 09:30	7439-95-4	
Manganese	**11.8**	ug/L	0.50	1	09/26/12 13:22	10/02/12 15:27	7439-96-5	
Molybdenum	**1.0**	ug/L	0.50	1	09/26/12 13:22	09/28/12 09:30	7439-98-7	
Nickel	ND	ug/L	0.50	1	09/26/12 13:22	09/28/12 09:30	7440-02-0	
Potassium	**731**	ug/L	20.0	1	09/26/12 13:22	09/28/12 09:30	7440-09-7	
Selenium	ND	ug/L	0.50	1	09/26/12 13:22	09/28/12 09:30	7782-49-2	
Silica	**6410**	ug/L	268	5	09/26/12 13:22	09/28/12 09:36	7631-86-9	
Silver	ND	ug/L	0.50	1	09/26/12 13:22	09/28/12 09:30	7440-22-4	
Sodium	**2570**	ug/L	50.0	1	09/26/12 13:22	09/28/12 09:30	7440-23-5	
Thallium	ND	ug/L	0.10	1	09/26/12 13:22	09/28/12 09:30	7440-28-0	
Total Hardness by 2340B	**140000**	ug/L	355	5	09/26/12 13:22	09/28/12 09:36		
Vanadium	**0.20**	ug/L	0.10	1	09/26/12 13:22	09/28/12 09:30	7440-62-2	
Zinc	ND	ug/L	5.0	1	09/26/12 13:22	09/28/12 09:30	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	**6.8**	ug/L	4.0	1	09/25/12 14:11	09/28/12 02:50	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	09/28/12 02:50	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	09/28/12 02:50	7440-38-2	B
Barium, Dissolved	**80.0**	ug/L	0.30	1	09/25/12 14:11	09/28/12 02:50	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	09/25/12 14:11	09/28/12 02:50	7440-41-7	
Cadmium, Dissolved	ND	ug/L	0.080	1	09/25/12 14:11	09/28/12 02:50	7440-43-9	
Calcium, Dissolved	**46600**	ug/L	100	5	09/25/12 14:11	09/28/12 02:56	7440-70-2	M1
Chromium, Dissolved	**1.2**	ug/L	0.50	1	09/25/12 14:11	09/28/12 02:50	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	09/28/12 02:50	7440-48-4	
Copper, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	09/28/12 02:50	7440-50-8	B
Iron, Dissolved	ND	ug/L	50.0	1	09/25/12 14:11	09/28/12 02:50	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	09/25/12 14:11	09/28/12 02:50	7439-92-1	
Magnesium, Dissolved	**6680**	ug/L	5.0	1	09/25/12 14:11	09/28/12 02:50	7439-95-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: DR-1_20120911 **Lab ID: 60128986001** Collected: 09/11/12 12:40 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	**8.9**	ug/L	0.50	1	09/25/12 14:11	09/28/12 02:50	7439-96-5	
Molybdenum, Dissolved	**1.1**	ug/L	0.50	1	09/25/12 14:11	09/28/12 02:50	7439-98-7	
Nickel, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	09/28/12 02:50	7440-02-0	
Potassium, Dissolved	**763**	ug/L	20.0	1	09/25/12 14:11	09/28/12 02:50	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	09/28/12 02:50	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	09/28/12 02:50	7440-22-4	
Sodium, Dissolved	**2820**	ug/L	50.0	1	09/25/12 14:11	09/28/12 02:50	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/25/12 14:11	09/28/12 02:50	7440-28-0	
Vanadium, Dissolved	**0.12**	ug/L	0.10	1	09/25/12 14:11	09/28/12 02:50	7440-62-2	
Zinc, Dissolved	ND	ug/L	5.0	1	09/25/12 14:11	09/28/12 02:50	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	ND	ug/L	250	5	09/21/12 16:55	09/25/12 15:25	7429-90-5	D3
Antimony, Dissolved	ND	ug/L	5.0	5	09/21/12 16:55	09/25/12 15:25	7440-36-0	D3
Arsenic, Dissolved	**0.21J**	ug/L	1.0	1	09/21/12 16:55	09/25/12 09:35	7440-38-2	
Barium, Dissolved	**72.2**	ug/L	5.0	5	09/21/12 16:55	09/25/12 15:25	7440-39-3	B
Beryllium, Dissolved	ND	ug/L	0.50	1	09/21/12 16:55	09/25/12 09:35	7440-41-7	
Cadmium, Dissolved	ND	ug/L	0.50	1	09/21/12 16:55	09/25/12 09:35	7440-43-9	
Chromium, Dissolved	**0.68J**	ug/L	1.0	1	09/21/12 16:55	09/25/12 09:35	7440-47-3	B
Cobalt, Dissolved	ND	ug/L	1.0	1	09/21/12 16:55	09/25/12 09:35	7440-48-4	
Copper, Dissolved	**0.86J**	ug/L	1.0	1	09/21/12 16:55	09/25/12 09:35	7440-50-8	
Iron, Dissolved	**79.4**	ug/L	50.0	1	09/21/12 16:55	09/25/12 09:35	7439-89-6	B
Lead, Dissolved	**0.34J**	ug/L	5.0	5	09/21/12 16:55	09/25/12 15:25	7439-92-1	
Manganese, Dissolved	**10.9**	ug/L	1.0	1	09/21/12 16:55	09/25/12 09:35	7439-96-5	B
Molybdenum, Dissolved	**1.1**	ug/L	1.0	1	09/21/12 16:55	09/25/12 09:35	7439-98-7	
Nickel, Dissolved	ND	ug/L	1.0	1	09/21/12 16:55	09/25/12 09:35	7440-02-0	
Selenium, Dissolved	ND	ug/L	1.0	1	09/21/12 16:55	09/25/12 09:35	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/21/12 16:55	09/25/12 09:35	7440-22-4	
Thallium, Dissolved	**0.26J**	ug/L	5.0	5	09/21/12 16:55	09/25/12 15:25	7440-28-0	
Vanadium, Dissolved	ND	ug/L	1.0	1	09/21/12 16:55	09/25/12 09:35	7440-62-2	
Zinc, Dissolved	**5.2J**	ug/L	10.0	1	09/21/12 16:55	09/25/12 09:35	7440-66-6	B
245.1 Mercury	Analytical Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/26/12 15:15	10/02/12 12:45	7439-97-6	B
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/20/12 00:00	10/04/12 12:18	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	09/21/12 15:00	09/24/12 11:10	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**285**	umhos/cm	10.0	1		09/21/12 15:53		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**183**	mg/L	6.0	1		09/23/12 09:54		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: DR-1_20120911 **Lab ID: 60128986001** Collected: 09/11/12 12:40 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.14**	PSU	0.010	1		09/23/12 09:54		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**89.6**	mg/L	20.0	1		09/21/12 09:45		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/21/12 09:45		
Alkalinity, Total as CaCO3	**89.6**	mg/L	20.0	1		09/21/12 09:45		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**167**	mg/L	5.0	1		09/17/12 14:54		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	ND	mg/L	5.0	1		09/17/12 09:48		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/17/12 13:10	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.1**	mg/L	1.0	1		09/25/12 10:44	16887-00-6	
Sulfate	**49.9**	mg/L	10.0	10		09/25/12 11:00	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/18/12 13:49		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/24/12 17:15	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		09/26/12 13:24	7440-44-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: DR-2_20120911 **Lab ID: 60128986002** Collected: 09/13/12 09:45 Received: 09/14/12 10:15 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	**52200**	ug/L	500	5	09/21/12 15:50	09/25/12 13:37	7440-70-2	B
Magnesium, Dissolved	**7130**	ug/L	250	5	09/21/12 15:50	09/25/12 13:37	7439-95-4	
Potassium, Dissolved	**810**	ug/L	500	1	09/21/12 15:50	09/27/12 09:30	7440-09-7	
Sodium, Dissolved	**3040**	ug/L	500	1	09/21/12 15:50	09/27/12 09:30	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	**76.2**	ug/L	4.0	1	10/09/12 11:01	10/10/12 10:22	7429-90-5	M6
Antimony	ND	ug/L	0.50	1	10/09/12 11:01	10/10/12 10:22	7440-36-0	
Arsenic	ND	ug/L	0.50	1	10/09/12 11:01	10/10/12 10:22	7440-38-2	
Barium	**69.0**	ug/L	0.30	1	10/09/12 11:01	10/10/12 10:22	7440-39-3	
Beryllium	ND	ug/L	0.20	1	10/09/12 11:01	10/10/12 10:22	7440-41-7	
Cadmium	ND	ug/L	0.080	1	10/09/12 11:01	10/10/12 10:22	7440-43-9	
Calcium	**54200**	ug/L	100	5	10/09/12 11:01	10/10/12 10:27	7440-70-2	M6
Chromium	ND	ug/L	0.50	1	10/09/12 11:01	10/10/12 10:22	7440-47-3	
Cobalt	ND	ug/L	0.50	1	10/09/12 11:01	10/10/12 10:22	7440-48-4	
Copper	**2.6**	ug/L	0.50	1	10/09/12 11:01	10/10/12 10:22	7440-50-8	
Iron	**168**	ug/L	50.0	1	10/09/12 11:01	10/10/12 10:22	7439-89-6	
Lead	**0.22**	ug/L	0.10	1	10/09/12 11:01	10/10/12 10:22	7439-92-1	
Magnesium	**7350**	ug/L	5.0	1	10/09/12 11:01	10/10/12 10:22	7439-95-4	
Manganese	**136**	ug/L	0.50	1	10/09/12 11:01	10/10/12 10:22	7439-96-5	
Molybdenum	**1.2**	ug/L	0.50	1	10/09/12 11:01	10/10/12 10:22	7439-98-7	
Nickel	ND	ug/L	0.50	1	10/09/12 11:01	10/10/12 10:22	7440-02-0	
Potassium	**829**	ug/L	20.0	1	10/09/12 11:01	10/10/12 10:22	7440-09-7	
Selenium	ND	ug/L	0.50	1	10/09/12 11:01	10/10/12 10:22	7782-49-2	
Silica	**7120**	ug/L	268	5	10/09/12 11:01	10/10/12 10:27	7631-86-9	
Silver	ND	ug/L	0.50	1	10/09/12 11:01	10/10/12 10:22	7440-22-4	
Sodium	**2880**	ug/L	50.0	1	10/09/12 11:01	10/10/12 10:22	7440-23-5	
Thallium	ND	ug/L	0.10	1	10/09/12 11:01	10/10/12 10:22	7440-28-0	
Total Hardness by 2340B	**165000**	ug/L	355	5	10/09/12 11:01	10/10/12 10:27		
Vanadium	**0.29**	ug/L	0.10	1	10/09/12 11:01	10/10/12 10:22	7440-62-2	
Zinc	**50.9**	ug/L	5.0	1	10/09/12 11:01	10/10/12 10:22	7440-66-6	M6
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	**6.3**	ug/L	4.0	1	09/25/12 14:11	09/28/12 03:20	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	09/28/12 03:20	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	09/28/12 03:20	7440-38-2	B
Barium, Dissolved	**69.3**	ug/L	0.30	1	09/25/12 14:11	09/28/12 03:20	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	09/25/12 14:11	09/28/12 03:20	7440-41-7	
Cadmium, Dissolved	ND	ug/L	0.080	1	09/25/12 14:11	09/28/12 03:20	7440-43-9	
Calcium, Dissolved	**50300**	ug/L	400	20	09/25/12 14:11	09/28/12 03:26	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	09/28/12 03:20	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	09/28/12 03:20	7440-48-4	
Copper, Dissolved	**1.3**	ug/L	0.50	1	09/25/12 14:11	09/28/12 03:20	7440-50-8	B
Iron, Dissolved	ND	ug/L	50.0	1	09/25/12 14:11	09/28/12 03:20	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	09/25/12 14:11	09/28/12 03:20	7439-92-1	
Magnesium, Dissolved	**6960**	ug/L	5.0	1	09/25/12 14:11	09/28/12 03:20	7439-95-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: DR-2_20120911 **Lab ID: 60128986002** Collected: 09/13/12 09:45 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	**132**	ug/L	0.50	1	09/25/12 14:11	09/28/12 03:20	7439-96-5	
Molybdenum, Dissolved	**1.3**	ug/L	0.50	1	09/25/12 14:11	09/28/12 03:20	7439-98-7	
Nickel, Dissolved	**2.3**	ug/L	0.50	1	09/25/12 14:11	09/28/12 03:20	7440-02-0	
Potassium, Dissolved	**836**	ug/L	20.0	1	09/25/12 14:11	09/28/12 03:20	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	09/28/12 03:20	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	09/28/12 03:20	7440-22-4	
Sodium, Dissolved	**3140**	ug/L	50.0	1	09/25/12 14:11	09/28/12 03:20	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/25/12 14:11	09/28/12 03:20	7440-28-0	
Vanadium, Dissolved	**0.11**	ug/L	0.10	1	09/25/12 14:11	09/28/12 03:20	7440-62-2	
Zinc, Dissolved	**9.3**	ug/L	5.0	1	09/25/12 14:11	09/28/12 03:20	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**35.3J**	ug/L	250	5	09/21/12 16:55	09/25/12 15:29	7429-90-5	
Antimony, Dissolved	ND	ug/L	5.0	5	09/21/12 16:55	09/25/12 15:29	7440-36-0	D3
Arsenic, Dissolved	**0.19J**	ug/L	1.0	1	09/21/12 16:55	09/25/12 09:39	7440-38-2	
Barium, Dissolved	**65.2**	ug/L	5.0	5	09/21/12 16:55	09/25/12 15:29	7440-39-3	B
Beryllium, Dissolved	ND	ug/L	0.50	1	09/21/12 16:55	09/25/12 09:39	7440-41-7	
Cadmium, Dissolved	ND	ug/L	0.50	1	09/21/12 16:55	09/25/12 09:39	7440-43-9	
Chromium, Dissolved	**0.62J**	ug/L	1.0	1	09/21/12 16:55	09/25/12 09:39	7440-47-3	B
Cobalt, Dissolved	**0.066J**	ug/L	1.0	1	09/21/12 16:55	09/25/12 09:39	7440-48-4	
Copper, Dissolved	**0.86J**	ug/L	1.0	1	09/21/12 16:55	09/25/12 09:39	7440-50-8	
Iron, Dissolved	**78.6**	ug/L	50.0	1	09/21/12 16:55	09/25/12 09:39	7439-89-6	B
Lead, Dissolved	**0.30J**	ug/L	5.0	5	09/21/12 16:55	09/25/12 15:29	7439-92-1	
Manganese, Dissolved	**127**	ug/L	1.0	1	09/21/12 16:55	09/25/12 09:39	7439-96-5	B
Molybdenum, Dissolved	**1.2**	ug/L	1.0	1	09/21/12 16:55	09/25/12 09:39	7439-98-7	
Nickel, Dissolved	ND	ug/L	1.0	1	09/21/12 16:55	09/25/12 09:39	7440-02-0	
Selenium, Dissolved	**0.37J**	ug/L	1.0	1	09/21/12 16:55	09/25/12 09:39	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/21/12 16:55	09/25/12 09:39	7440-22-4	
Thallium, Dissolved	ND	ug/L	5.0	5	09/21/12 16:55	09/25/12 15:29	7440-28-0	D3
Vanadium, Dissolved	ND	ug/L	1.0	1	09/21/12 16:55	09/25/12 09:39	7440-62-2	
Zinc, Dissolved	**10.7**	ug/L	10.0	1	09/21/12 16:55	09/25/12 09:39	7440-66-6	B
245.1 Mercury	Analytical Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/26/12 15:15	10/02/12 12:52	7439-97-6	B
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/20/12 00:00	10/04/12 12:28	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	09/21/12 15:00	09/24/12 11:35	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**345**	umhos/cm	10.0	1		09/21/12 15:54		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**221**	mg/L	6.0	1		09/23/12 09:54		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: DR-2_20120911 **Lab ID: 60128986002** Collected: 09/13/12 09:45 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.17**	PSU	0.010	1		09/23/12 09:54		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**88.8**	mg/L	20.0	1		09/21/12 09:49		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/21/12 09:49		
Alkalinity, Total as CaCO3	**88.8**	mg/L	20.0	1		09/21/12 09:49		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**220**	mg/L	5.0	1		09/20/12 15:28		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**6.0**	mg/L	5.0	1		09/20/12 08:56		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/18/12 15:20	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.1**	mg/L	1.0	1		09/25/12 12:19	16887-00-6	
Sulfate	**71.9**	mg/L	10.0	10		09/25/12 12:35	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/18/12 13:50		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/24/12 17:15	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		09/26/12 13:39	7440-44-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: DR-3_20120911 **Lab ID: 60128986003** Collected: 09/11/12 13:17 Received: 09/14/12 10:15 Matrix: Water

Comments: • This station may have been impacted by work operations occurring in the Blaine tunnel and 517 shaft at the time of sampling.

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	**229000**	ug/L	500	5	09/21/12 15:50	09/25/12 13:39	7440-70-2	B
Magnesium, Dissolved	**20200**	ug/L	250	5	09/21/12 15:50	09/25/12 13:39	7439-95-4	
Potassium, Dissolved	**1630**	ug/L	500	1	09/21/12 15:50	09/27/12 09:32	7440-09-7	
Sodium, Dissolved	**9040**	ug/L	2500	5	09/21/12 15:50	09/25/12 13:39	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	**311**	ug/L	4.0	1	09/26/12 13:22	09/28/12 10:42	7429-90-5	
Antimony	ND	ug/L	0.50	1	09/26/12 13:22	09/28/12 10:42	7440-36-0	
Arsenic	ND	ug/L	0.50	1	09/26/12 13:22	10/02/12 16:33	7440-38-2	
Barium	**21.3**	ug/L	0.30	1	09/26/12 13:22	09/28/12 10:42	7440-39-3	
Beryllium	**0.56**	ug/L	0.20	1	09/26/12 13:22	09/28/12 10:42	7440-41-7	
Cadmium	**21.8**	ug/L	0.080	1	09/26/12 13:22	09/28/12 10:42	7440-43-9	
Calcium	**246000**	ug/L	400	20	09/26/12 13:22	09/28/12 10:48	7440-70-2	
Chromium	ND	ug/L	0.50	1	09/26/12 13:22	09/28/12 10:42	7440-47-3	
Cobalt	**3.1**	ug/L	0.50	1	09/26/12 13:22	09/28/12 10:42	7440-48-4	
Copper	**41.7**	ug/L	0.50	1	09/26/12 13:22	09/28/12 10:42	7440-50-8	
Iron	**3670**	ug/L	50.0	1	09/26/12 13:22	09/28/12 10:42	7439-89-6	
Lead	**5.9**	ug/L	0.10	1	09/26/12 13:22	09/28/12 10:42	7439-92-1	
Magnesium	**18600**	ug/L	5.0	1	09/26/12 13:22	09/28/12 10:42	7439-95-4	
Manganese	**2110**	ug/L	10.0	20	09/26/12 13:22	09/28/12 10:48	7439-96-5	
Molybdenum	**14.0**	ug/L	0.50	1	09/26/12 13:22	09/28/12 10:42	7439-98-7	
Nickel	**5.3**	ug/L	0.50	1	09/26/12 13:22	09/28/12 10:42	7440-02-0	
Potassium	**1620**	ug/L	20.0	1	09/26/12 13:22	09/28/12 10:42	7440-09-7	
Selenium	ND	ug/L	0.50	1	09/26/12 13:22	09/28/12 10:42	7782-49-2	
Silica	**17900**	ug/L	1070	20	09/26/12 13:22	09/28/12 10:48	7631-86-9	
Silver	ND	ug/L	0.50	1	09/26/12 13:22	09/28/12 10:42	7440-22-4	
Sodium	**10500**	ug/L	50.0	1	09/26/12 13:22	09/28/12 10:42	7440-23-5	
Thallium	ND	ug/L	0.10	1	09/26/12 13:22	09/28/12 10:42	7440-28-0	
Total Hardness by 2340B	**690000**	ug/L	1420	20	09/26/12 13:22	09/28/12 10:48		
Vanadium	**0.21**	ug/L	0.10	1	09/26/12 13:22	09/28/12 10:42	7440-62-2	
Zinc	**4340**	ug/L	100	20	09/26/12 13:22	09/28/12 10:48	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	**48.4**	ug/L	4.0	1	09/25/12 14:11	09/28/12 04:02	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	09/28/12 04:02	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	09/28/12 04:02	7440-38-2	B
Barium, Dissolved	**20.6**	ug/L	0.30	1	09/25/12 14:11	09/28/12 04:02	7440-39-3	
Beryllium, Dissolved	**0.37**	ug/L	0.20	1	09/25/12 14:11	09/28/12 04:02	7440-41-7	
Cadmium, Dissolved	**21.3**	ug/L	0.080	1	09/25/12 14:11	09/28/12 04:02	7440-43-9	
Calcium, Dissolved	**255000**	ug/L	400	20	09/25/12 14:11	10/03/12 14:06	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	09/28/12 04:02	7440-47-3	
Cobalt, Dissolved	**3.2**	ug/L	0.50	1	09/25/12 14:11	09/28/12 04:02	7440-48-4	
Copper, Dissolved	**9.2**	ug/L	0.50	1	09/25/12 14:11	09/28/12 04:02	7440-50-8	
Iron, Dissolved	**1020**	ug/L	50.0	1	09/25/12 14:11	09/28/12 04:02	7439-89-6	
Lead, Dissolved	**0.39**	ug/L	0.10	1	09/25/12 14:11	09/28/12 04:02	7439-92-1	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: DR-3_20120911 **Lab ID: 60128986003** Collected: 09/11/12 13:17 Received: 09/14/12 10:15 Matrix: Water

Comments: • This station may have been impacted by work operations occurring in the Blaine tunnel and 517 shaft at the time of sampling.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Magnesium, Dissolved	**19300**	ug/L	5.0	1	09/25/12 14:11	09/28/12 04:02	7439-95-4	
Manganese, Dissolved	**3000**	ug/L	10.0	20	09/25/12 14:11	10/02/12 04:01	7439-96-5	
Molybdenum, Dissolved	**13.9**	ug/L	0.50	1	09/25/12 14:11	09/28/12 04:02	7439-98-7	
Nickel, Dissolved	**6.5**	ug/L	0.50	1	09/25/12 14:11	09/28/12 04:02	7440-02-0	
Potassium, Dissolved	**1640**	ug/L	20.0	1	09/25/12 14:11	09/28/12 04:02	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	09/28/12 04:02	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	09/28/12 04:02	7440-22-4	
Sodium, Dissolved	**11000**	ug/L	50.0	1	09/25/12 14:11	09/28/12 04:02	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/25/12 14:11	09/28/12 04:02	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	09/25/12 14:11	09/28/12 04:02	7440-62-2	
Zinc, Dissolved	**3980**	ug/L	100	20	09/25/12 14:11	09/28/12 04:08	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**282**	ug/L	250	5	09/21/12 16:55	09/25/12 15:33	7429-90-5	
Antimony, Dissolved	**0.24J**	ug/L	5.0	5	09/21/12 16:55	09/25/12 15:33	7440-36-0	
Arsenic, Dissolved	**0.33J**	ug/L	1.0	1	09/21/12 16:55	09/25/12 09:44	7440-38-2	
Barium, Dissolved	**19.7**	ug/L	5.0	5	09/21/12 16:55	09/25/12 15:33	7440-39-3	B
Beryllium, Dissolved	**0.51**	ug/L	0.50	1	09/21/12 16:55	09/25/12 09:44	7440-41-7	
Cadmium, Dissolved	**20.6**	ug/L	0.50	1	09/21/12 16:55	09/25/12 09:44	7440-43-9	
Chromium, Dissolved	**1.3**	ug/L	1.0	1	09/21/12 16:55	09/25/12 09:44	7440-47-3	B
Cobalt, Dissolved	**2.8**	ug/L	1.0	1	09/21/12 16:55	09/25/12 09:44	7440-48-4	
Copper, Dissolved	**38.6**	ug/L	1.0	1	09/21/12 16:55	09/25/12 09:44	7440-50-8	
Iron, Dissolved	**3470**	ug/L	50.0	1	09/21/12 16:55	09/25/12 09:44	7439-89-6	B
Lead, Dissolved	**6.0**	ug/L	5.0	5	09/21/12 16:55	09/25/12 15:33	7439-92-1	
Manganese, Dissolved	**1940**	ug/L	1.0	1	09/21/12 16:55	09/25/12 09:44	7439-96-5	B
Molybdenum, Dissolved	**13.0**	ug/L	1.0	1	09/21/12 16:55	09/25/12 09:44	7439-98-7	
Nickel, Dissolved	**3.7**	ug/L	1.0	1	09/21/12 16:55	09/25/12 09:44	7440-02-0	
Selenium, Dissolved	ND	ug/L	1.0	1	09/21/12 16:55	09/25/12 09:44	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/21/12 16:55	09/25/12 09:44	7440-22-4	
Thallium, Dissolved	ND	ug/L	5.0	5	09/21/12 16:55	09/25/12 15:33	7440-28-0	D3
Vanadium, Dissolved	ND	ug/L	1.0	1	09/21/12 16:55	09/25/12 09:44	7440-62-2	
Zinc, Dissolved	**3910**	ug/L	10.0	1	09/21/12 16:55	09/25/12 09:44	7440-66-6	B
245.1 Mercury	Analytical Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/26/12 15:15	10/02/12 12:54	7439-97-6	B
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/20/12 00:00	10/04/12 12:34	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	09/21/12 15:00	09/24/12 11:37	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**1180**	umhos/cm	10.0	1		09/21/12 15:57		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: DR-3_20120911 **Lab ID: 60128986003** Collected: 09/11/12 13:17 Received: 09/14/12 10:15 Matrix: Water

Comments: • This station may have been impacted by work operations occurring in the Blaine tunnel and 517 shaft at the time of sampling.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**756**	mg/L	6.0	1		09/23/12 09:54		
Salinity (as seawater)	**0.59**	PSU	0.010	1		09/23/12 09:54		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**88.3**	mg/L	20.0	1		09/21/12 09:53		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/21/12 09:53		
Alkalinity, Total as CaCO3	**88.3**	mg/L	20.0	1		09/21/12 09:53		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1010**	mg/L	5.0	1		09/17/12 14:55		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**5.0**	mg/L	5.0	1		09/17/12 09:48		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/17/12 13:10	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	ND	mg/L	1.0	1		09/25/12 13:55	16887-00-6	
Sulfate	**589**	mg/L	100	100		09/25/12 14:11	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/18/12 13:51		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/24/12 17:18	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		09/26/12 13:53	7440-44-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: DR-4_20120911 **Lab ID: 60128986004** Collected: 09/11/12 14:30 Received: 09/14/12 10:15 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	**224000**	ug/L	500	5	09/21/12 15:50	09/25/12 13:41	7440-70-2	B,M1
Magnesium, Dissolved	**19600**	ug/L	250	5	09/21/12 15:50	09/25/12 13:41	7439-95-4	
Potassium, Dissolved	**1570**	ug/L	500	1	09/21/12 15:50	09/27/12 09:35	7440-09-7	
Sodium, Dissolved	**8990**	ug/L	2500	5	09/21/12 15:50	09/25/12 13:41	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	**142**	ug/L	4.0	1	09/26/12 13:22	09/28/12 10:54	7429-90-5	
Antimony	ND	ug/L	0.50	1	09/26/12 13:22	09/28/12 10:54	7440-36-0	
Arsenic	ND	ug/L	0.50	1	09/26/12 13:22	10/02/12 17:22	7440-38-2	
Barium	**20.9**	ug/L	0.30	1	09/26/12 13:22	09/28/12 10:54	7440-39-3	
Beryllium	**0.33**	ug/L	0.20	1	09/26/12 13:22	09/28/12 10:54	7440-41-7	
Cadmium	**20.5**	ug/L	0.080	1	09/26/12 13:22	09/28/12 10:54	7440-43-9	
Calcium	**250000**	ug/L	400	20	09/26/12 13:22	09/28/12 11:00	7440-70-2	
Chromium	ND	ug/L	0.50	1	09/26/12 13:22	09/28/12 10:54	7440-47-3	
Cobalt	**3.0**	ug/L	0.50	1	09/26/12 13:22	09/28/12 10:54	7440-48-4	
Copper	**27.3**	ug/L	0.50	1	09/26/12 13:22	09/28/12 10:54	7440-50-8	
Iron	**2240**	ug/L	50.0	1	09/26/12 13:22	09/28/12 10:54	7439-89-6	
Lead	**1.8**	ug/L	0.10	1	09/26/12 13:22	09/28/12 10:54	7439-92-1	
Magnesium	**19000**	ug/L	5.0	1	09/26/12 13:22	09/28/12 10:54	7439-95-4	
Manganese	**2040**	ug/L	10.0	20	09/26/12 13:22	09/28/12 11:00	7439-96-5	
Molybdenum	**13.8**	ug/L	0.50	1	09/26/12 13:22	09/28/12 10:54	7439-98-7	
Nickel	**5.4**	ug/L	0.50	1	09/26/12 13:22	09/28/12 10:54	7440-02-0	
Potassium	**1620**	ug/L	20.0	1	09/26/12 13:22	09/28/12 10:54	7440-09-7	
Selenium	ND	ug/L	0.50	1	09/26/12 13:22	09/28/12 10:54	7782-49-2	
Silica	**17600**	ug/L	1070	20	09/26/12 13:22	09/28/12 11:00	7631-86-9	
Silver	ND	ug/L	0.50	1	09/26/12 13:22	09/28/12 10:54	7440-22-4	
Sodium	**10700**	ug/L	50.0	1	09/26/12 13:22	09/28/12 10:54	7440-23-5	
Thallium	ND	ug/L	0.10	1	09/26/12 13:22	09/28/12 10:54	7440-28-0	
Total Hardness by 2340B	**703000**	ug/L	1420	20	09/26/12 13:22	09/28/12 11:00		
Vanadium	ND	ug/L	0.10	1	09/26/12 13:22	09/28/12 10:54	7440-62-2	
Zinc	**3980**	ug/L	100	20	09/26/12 13:22	09/28/12 11:00	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	**9.1**	ug/L	4.0	1	09/25/12 14:11	10/03/12 14:12	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	09/28/12 04:14	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	09/28/12 04:14	7440-38-2	B
Barium, Dissolved	**20.5**	ug/L	0.30	1	09/25/12 14:11	09/28/12 04:14	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	09/25/12 14:11	10/02/12 04:07	7440-41-7	
Cadmium, Dissolved	**18.5**	ug/L	0.080	1	09/25/12 14:11	09/28/12 04:14	7440-43-9	
Calcium, Dissolved	**255000**	ug/L	400	20	09/25/12 14:11	10/03/12 14:18	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	10/02/12 04:07	7440-47-3	
Cobalt, Dissolved	**3.1**	ug/L	0.50	1	09/25/12 14:11	09/28/12 04:14	7440-48-4	
Copper, Dissolved	**1.8**	ug/L	0.50	1	09/25/12 14:11	09/28/12 04:14	7440-50-8	B
Iron, Dissolved	ND	ug/L	50.0	1	09/25/12 14:11	10/02/12 04:07	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	09/25/12 14:11	09/28/12 04:14	7439-92-1	
Magnesium, Dissolved	**19700**	ug/L	5.0	1	09/25/12 14:11	10/02/12 04:07	7439-95-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: DR-4_20120911 **Lab ID: 60128986004** Collected: 09/11/12 14:30 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	**2890**	ug/L	10.0	20	09/25/12 14:11	10/02/12 04:13	7439-96-5	
Molybdenum, Dissolved	**14.0**	ug/L	0.50	1	09/25/12 14:11	09/28/12 04:14	7439-98-7	
Nickel, Dissolved	**5.4**	ug/L	0.50	1	09/25/12 14:11	09/28/12 04:14	7440-02-0	
Potassium, Dissolved	**1590**	ug/L	20.0	1	09/25/12 14:11	10/02/12 04:07	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	09/28/12 04:14	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	09/28/12 04:14	7440-22-4	
Sodium, Dissolved	**10600**	ug/L	50.0	1	09/25/12 14:11	10/02/12 04:07	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/25/12 14:11	09/28/12 04:14	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	09/25/12 14:11	10/02/12 04:07	7440-62-2	
Zinc, Dissolved	**4740**	ug/L	100	20	09/25/12 14:11	10/02/12 04:13	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**158J**	ug/L	250	5	09/21/12 16:55	09/25/12 15:38	7429-90-5	
Antimony, Dissolved	**0.23J**	ug/L	5.0	5	09/21/12 16:55	09/25/12 15:38	7440-36-0	
Arsenic, Dissolved	**0.26J**	ug/L	1.0	1	09/21/12 16:55	09/25/12 09:48	7440-38-2	
Barium, Dissolved	**18.7**	ug/L	5.0	5	09/21/12 16:55	09/25/12 15:38	7440-39-3	B
Beryllium, Dissolved	**0.32J**	ug/L	0.50	1	09/21/12 16:55	09/25/12 09:48	7440-41-7	
Cadmium, Dissolved	**19.6**	ug/L	0.50	1	09/21/12 16:55	09/25/12 09:48	7440-43-9	
Chromium, Dissolved	**0.86J**	ug/L	1.0	1	09/21/12 16:55	09/25/12 09:48	7440-47-3	B
Cobalt, Dissolved	**2.7**	ug/L	1.0	1	09/21/12 16:55	09/25/12 09:48	7440-48-4	
Copper, Dissolved	**25.0**	ug/L	1.0	1	09/21/12 16:55	09/25/12 09:48	7440-50-8	
Iron, Dissolved	**2150**	ug/L	50.0	1	09/21/12 16:55	09/25/12 09:48	7439-89-6	B
Lead, Dissolved	**1.7J**	ug/L	5.0	5	09/21/12 16:55	09/25/12 15:38	7439-92-1	
Manganese, Dissolved	**1890**	ug/L	1.0	1	09/21/12 16:55	09/25/12 09:48	7439-96-5	B
Molybdenum, Dissolved	**13.0**	ug/L	1.0	1	09/21/12 16:55	09/25/12 09:48	7439-98-7	
Nickel, Dissolved	**3.1**	ug/L	1.0	1	09/21/12 16:55	09/25/12 09:48	7440-02-0	
Selenium, Dissolved	ND	ug/L	1.0	1	09/21/12 16:55	09/25/12 09:48	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/21/12 16:55	09/25/12 09:48	7440-22-4	
Thallium, Dissolved	ND	ug/L	5.0	5	09/21/12 16:55	09/25/12 15:38	7440-28-0	D3
Vanadium, Dissolved	ND	ug/L	1.0	1	09/21/12 16:55	09/25/12 09:48	7440-62-2	
Zinc, Dissolved	**3650**	ug/L	10.0	1	09/21/12 16:55	09/25/12 09:48	7440-66-6	B
245.1 Mercury	Analytical Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/26/12 15:15	10/02/12 13:02	7439-97-6	B
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/20/12 00:00	10/04/12 12:37	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	09/21/12 15:00	09/24/12 11:39	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**1160**	umhos/cm	10.0	1		09/21/12 15:59		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**740**	mg/L	6.0	1		09/23/12 09:54		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: DR-4_20120911 **Lab ID: 60128986004** Collected: 09/11/12 14:30 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.57**	PSU	0.010	1		09/23/12 09:54		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**90.8**	mg/L	20.0	1		09/21/12 10:07		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/21/12 10:07		
Alkalinity, Total as CaCO3	**90.8**	mg/L	20.0	1		09/21/12 10:07		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1010**	mg/L	5.0	1		09/17/12 14:55		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	ND	mg/L	5.0	1		09/17/12 09:49		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/17/12 13:11	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	ND	mg/L	1.0	1		09/25/12 14:26	16887-00-6	
Sulfate	**578**	mg/L	50.0	50		09/25/12 14:42	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/18/12 13:52		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/24/12 17:18	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		09/27/12 18:37	7440-44-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: DR-5_20120911 **Lab ID: 60128986005** Collected: 09/13/12 09:53 Received: 09/14/12 10:15 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	**226000**	ug/L	500	5	09/21/12 15:50	09/25/12 13:54	7440-70-2	B
Magnesium, Dissolved	**20200**	ug/L	250	5	09/21/12 15:50	09/25/12 13:54	7439-95-4	
Potassium, Dissolved	**1770**	ug/L	500	1	09/21/12 15:50	09/27/12 09:37	7440-09-7	
Sodium, Dissolved	**8950**	ug/L	2500	5	09/21/12 15:50	09/25/12 13:54	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	**62.9**	ug/L	4.0	1	09/26/12 13:22	09/28/12 11:06	7429-90-5	
Antimony	ND	ug/L	0.50	1	09/26/12 13:22	09/28/12 11:06	7440-36-0	
Arsenic	ND	ug/L	0.50	1	09/26/12 13:22	10/02/12 17:27	7440-38-2	
Barium	**19.9**	ug/L	0.30	1	09/26/12 13:22	09/28/12 11:06	7440-39-3	
Beryllium	ND	ug/L	0.20	1	09/26/12 13:22	09/28/12 11:06	7440-41-7	
Cadmium	**17.5**	ug/L	0.080	1	09/26/12 13:22	09/28/12 11:06	7440-43-9	
Calcium	**247000**	ug/L	400	20	09/26/12 13:22	09/28/12 11:12	7440-70-2	
Chromium	ND	ug/L	0.50	1	09/26/12 13:22	09/28/12 11:06	7440-47-3	
Cobalt	**2.5**	ug/L	0.50	1	09/26/12 13:22	09/28/12 11:06	7440-48-4	
Copper	**12.4**	ug/L	0.50	1	09/26/12 13:22	09/28/12 11:06	7440-50-8	
Iron	**983**	ug/L	50.0	1	09/26/12 13:22	09/28/12 11:06	7439-89-6	
Lead	**0.68**	ug/L	0.10	1	09/26/12 13:22	09/28/12 11:06	7439-92-1	
Magnesium	**19300**	ug/L	5.0	1	09/26/12 13:22	09/28/12 11:06	7439-95-4	
Manganese	**1820**	ug/L	10.0	20	09/26/12 13:22	09/28/12 11:12	7439-96-5	
Molybdenum	**13.0**	ug/L	0.50	1	09/26/12 13:22	09/28/12 11:06	7439-98-7	
Nickel	**4.9**	ug/L	0.50	1	09/26/12 13:22	09/28/12 11:06	7440-02-0	
Potassium	**1770**	ug/L	20.0	1	09/26/12 13:22	09/28/12 11:06	7440-09-7	
Selenium	ND	ug/L	0.50	1	09/26/12 13:22	09/28/12 11:06	7782-49-2	
Silica	**17200**	ug/L	1070	20	09/26/12 13:22	09/28/12 11:12	7631-86-9	
Silver	ND	ug/L	0.50	1	09/26/12 13:22	09/28/12 11:06	7440-22-4	
Sodium	**10700**	ug/L	50.0	1	09/26/12 13:22	09/28/12 11:06	7440-23-5	
Thallium	ND	ug/L	0.10	1	09/26/12 13:22	09/28/12 11:06	7440-28-0	
Total Hardness by 2340B	**696000**	ug/L	1420	20	09/26/12 13:22	09/28/12 11:12		
Vanadium	ND	ug/L	0.10	1	09/26/12 13:22	09/28/12 11:06	7440-62-2	
Zinc	**3300**	ug/L	100	20	09/26/12 13:22	09/28/12 11:12	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	**13.3**	ug/L	4.0	1	09/25/12 14:11	10/03/12 14:23	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	09/28/12 04:26	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	09/28/12 04:26	7440-38-2	B
Barium, Dissolved	**20.1**	ug/L	0.30	1	09/25/12 14:11	09/28/12 04:26	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	09/25/12 14:11	10/02/12 04:19	7440-41-7	
Cadmium, Dissolved	**16.3**	ug/L	0.080	1	09/25/12 14:11	09/28/12 04:26	7440-43-9	
Calcium, Dissolved	**257000**	ug/L	400	20	09/25/12 14:11	10/03/12 14:29	7440-70-2	
Chromium, Dissolved	**1.3**	ug/L	0.50	1	09/25/12 14:11	10/02/12 04:19	7440-47-3	
Cobalt, Dissolved	**2.7**	ug/L	0.50	1	09/25/12 14:11	09/28/12 04:26	7440-48-4	
Copper, Dissolved	**2.0**	ug/L	0.50	1	09/25/12 14:11	09/28/12 04:26	7440-50-8	B
Iron, Dissolved	ND	ug/L	50.0	1	09/25/12 14:11	10/02/12 04:19	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	09/25/12 14:11	09/28/12 04:26	7439-92-1	
Magnesium, Dissolved	**20100**	ug/L	5.0	1	09/25/12 14:11	10/02/12 04:19	7439-95-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: DR-5_20120911 **Lab ID: 60128986005** Collected: 09/13/12 09:53 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	**2630**	ug/L	10.0	20	09/25/12 14:11	10/02/12 04:25	7439-96-5	
Molybdenum, Dissolved	**13.4**	ug/L	0.50	1	09/25/12 14:11	09/28/12 04:26	7439-98-7	
Nickel, Dissolved	**6.0**	ug/L	0.50	1	09/25/12 14:11	09/28/12 04:26	7440-02-0	
Potassium, Dissolved	**1790**	ug/L	20.0	1	09/25/12 14:11	10/02/12 04:19	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	09/28/12 04:26	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	09/28/12 04:26	7440-22-4	
Sodium, Dissolved	**10800**	ug/L	50.0	1	09/25/12 14:11	10/02/12 04:19	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/25/12 14:11	09/28/12 04:26	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	09/25/12 14:11	10/02/12 04:19	7440-62-2	
Zinc, Dissolved	**4420**	ug/L	100	20	09/25/12 14:11	10/02/12 04:25	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**66.9J**	ug/L	250	5	09/21/12 16:55	09/25/12 15:42	7429-90-5	
Antimony, Dissolved	**0.18J**	ug/L	5.0	5	09/21/12 16:55	09/25/12 15:42	7440-36-0	
Arsenic, Dissolved	**0.16J**	ug/L	1.0	1	09/21/12 16:55	09/25/12 09:52	7440-38-2	
Barium, Dissolved	**17.7**	ug/L	5.0	5	09/21/12 16:55	09/25/12 15:42	7440-39-3	B
Beryllium, Dissolved	**0.21J**	ug/L	0.50	1	09/21/12 16:55	09/25/12 09:52	7440-41-7	
Cadmium, Dissolved	**16.7**	ug/L	0.50	1	09/21/12 16:55	09/25/12 09:52	7440-43-9	
Chromium, Dissolved	**0.78J**	ug/L	1.0	1	09/21/12 16:55	09/25/12 09:52	7440-47-3	B
Cobalt, Dissolved	**2.4**	ug/L	1.0	1	09/21/12 16:55	09/25/12 09:52	7440-48-4	
Copper, Dissolved	**11.7**	ug/L	1.0	1	09/21/12 16:55	09/25/12 09:52	7440-50-8	
Iron, Dissolved	**960**	ug/L	50.0	1	09/21/12 16:55	09/25/12 09:52	7439-89-6	B
Lead, Dissolved	**0.66J**	ug/L	5.0	5	09/21/12 16:55	09/25/12 15:42	7439-92-1	
Manganese, Dissolved	**1710**	ug/L	1.0	1	09/21/12 16:55	09/25/12 09:52	7439-96-5	B,M1
Molybdenum, Dissolved	**12.1**	ug/L	1.0	1	09/21/12 16:55	09/25/12 09:52	7439-98-7	
Nickel, Dissolved	**2.8**	ug/L	1.0	1	09/21/12 16:55	09/25/12 09:52	7440-02-0	
Selenium, Dissolved	ND	ug/L	1.0	1	09/21/12 16:55	09/25/12 09:52	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/21/12 16:55	09/25/12 09:52	7440-22-4	
Thallium, Dissolved	ND	ug/L	5.0	5	09/21/12 16:55	09/25/12 15:42	7440-28-0	D3
Vanadium, Dissolved	ND	ug/L	1.0	1	09/21/12 16:55	09/25/12 09:52	7440-62-2	
Zinc, Dissolved	**3080**	ug/L	10.0	1	09/21/12 16:55	09/25/12 09:52	7440-66-6	B,M1
245.1 Mercury	Analytical Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/26/12 15:15	10/02/12 13:04	7439-97-6	B
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/20/12 00:00	10/04/12 12:39	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	09/21/12 15:00	09/24/12 11:42	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**1250**	umhos/cm	10.0	1		09/21/12 16:00		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**798**	mg/L	6.0	1		09/23/12 09:54		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: DR-5_20120911 **Lab ID: 60128986005** Collected: 09/13/12 09:53 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.62**	PSU	0.010	1		09/23/12 09:54		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**95.8**	mg/L	20.0	1		09/21/12 10:11		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/21/12 10:11		
Alkalinity, Total as CaCO3	**95.8**	mg/L	20.0	1		09/21/12 10:11		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1020**	mg/L	5.0	1		09/20/12 15:29		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**6.0**	mg/L	5.0	1		09/20/12 08:57		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/18/12 15:21	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	ND	mg/L	1.0	1		09/25/12 15:30	16887-00-6	
Sulfate	**578**	mg/L	50.0	50		09/25/12 15:46	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/18/12 13:53		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/24/12 17:19	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		09/27/12 19:05	7440-44-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: DR-6_20120911 **Lab ID: 60128986006** Collected: 09/13/12 10:00 Received: 09/14/12 10:15 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	**235000**	ug/L	500	5	09/21/12 15:50	09/25/12 13:56	7440-70-2	B
Magnesium, Dissolved	**22700**	ug/L	250	5	09/21/12 15:50	09/25/12 13:56	7439-95-4	
Potassium, Dissolved	**2630**	ug/L	500	1	09/21/12 15:50	09/27/12 09:39	7440-09-7	
Sodium, Dissolved	**11200**	ug/L	2500	5	09/21/12 15:50	09/25/12 13:56	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	**27.2**	ug/L	4.0	1	09/26/12 13:22	09/28/12 11:17	7429-90-5	
Antimony	ND	ug/L	0.50	1	09/26/12 13:22	09/28/12 11:17	7440-36-0	
Arsenic	ND	ug/L	0.50	1	09/26/12 13:22	10/02/12 17:33	7440-38-2	
Barium	**19.9**	ug/L	0.30	1	09/26/12 13:22	09/28/12 11:17	7440-39-3	
Beryllium	ND	ug/L	0.20	1	09/26/12 13:22	09/28/12 11:17	7440-41-7	
Cadmium	**11.4**	ug/L	0.080	1	09/26/12 13:22	09/28/12 11:17	7440-43-9	
Calcium	**190000**	ug/L	200	10	09/26/12 13:22	10/06/12 18:30	7440-70-2	
Chromium	ND	ug/L	0.50	1	09/26/12 13:22	09/28/12 11:17	7440-47-3	
Cobalt	**1.8**	ug/L	0.50	1	09/26/12 13:22	09/28/12 11:17	7440-48-4	
Copper	**5.2**	ug/L	0.50	1	09/26/12 13:22	09/28/12 11:17	7440-50-8	
Iron	**489**	ug/L	50.0	1	09/26/12 13:22	09/28/12 11:17	7439-89-6	
Lead	**0.90**	ug/L	0.10	1	09/26/12 13:22	09/28/12 11:17	7439-92-1	
Magnesium	**21200**	ug/L	5.0	1	09/26/12 13:22	09/28/12 11:17	7439-95-4	
Manganese	**1520**	ug/L	5.0	10	09/26/12 13:22	10/07/12 16:36	7439-96-5	
Molybdenum	**12.1**	ug/L	0.50	1	09/26/12 13:22	09/28/12 11:17	7439-98-7	
Nickel	**4.3**	ug/L	0.50	1	09/26/12 13:22	09/28/12 11:17	7440-02-0	
Potassium	**2610**	ug/L	20.0	1	09/26/12 13:22	09/28/12 11:17	7440-09-7	
Selenium	ND	ug/L	0.50	1	09/26/12 13:22	09/28/12 11:17	7782-49-2	
Silica	**16500**	ug/L	535	10	09/26/12 13:22	10/06/12 18:30	7631-86-9	
Silver	ND	ug/L	0.50	1	09/26/12 13:22	09/28/12 11:17	7440-22-4	
Sodium	**12800**	ug/L	50.0	1	09/26/12 13:22	09/28/12 11:17	7440-23-5	
Thallium	ND	ug/L	0.10	1	09/26/12 13:22	09/28/12 11:17	7440-28-0	
Total Hardness by 2340B	**562000**	ug/L	710	10	09/26/12 13:22	10/06/12 18:30		
Vanadium	ND	ug/L	0.10	1	09/26/12 13:22	09/28/12 11:17	7440-62-2	
Zinc	**2360**	ug/L	50.0	10	09/26/12 13:22	10/07/12 16:36	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	**4.4**	ug/L	4.0	1	09/25/12 14:11	10/03/12 14:35	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	09/28/12 04:38	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	09/28/12 04:38	7440-38-2	B
Barium, Dissolved	**19.9**	ug/L	0.30	1	09/25/12 14:11	09/28/12 04:38	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	09/25/12 14:11	10/02/12 04:30	7440-41-7	
Cadmium, Dissolved	**11.4**	ug/L	0.080	1	09/25/12 14:11	09/28/12 04:38	7440-43-9	
Calcium, Dissolved	**271000**	ug/L	400	20	09/25/12 14:11	10/03/12 14:41	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	10/02/12 04:30	7440-47-3	
Cobalt, Dissolved	**1.9**	ug/L	0.50	1	09/25/12 14:11	09/28/12 04:38	7440-48-4	
Copper, Dissolved	**2.5**	ug/L	0.50	1	09/25/12 14:11	09/28/12 04:38	7440-50-8	
Iron, Dissolved	ND	ug/L	50.0	1	09/25/12 14:11	10/02/12 04:30	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	09/25/12 14:11	09/28/12 04:38	7439-92-1	
Magnesium, Dissolved	**35000**	ug/L	100	20	09/25/12 14:11	10/02/12 04:36	7439-95-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: DR-6_20120911 **Lab ID: 60128986006** Collected: 09/13/12 10:00 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	**2250**	ug/L	10.0	20	09/25/12 14:11	10/02/12 04:36	7439-96-5	
Molybdenum, Dissolved	**12.6**	ug/L	0.50	1	09/25/12 14:11	09/28/12 04:38	7439-98-7	
Nickel, Dissolved	**5.9**	ug/L	0.50	1	09/25/12 14:11	09/28/12 04:38	7440-02-0	
Potassium, Dissolved	**2660**	ug/L	20.0	1	09/25/12 14:11	10/02/12 04:30	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	09/28/12 04:38	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	09/28/12 04:38	7440-22-4	
Sodium, Dissolved	**13000**	ug/L	50.0	1	09/25/12 14:11	10/02/12 04:30	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/25/12 14:11	09/28/12 04:38	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	09/25/12 14:11	10/02/12 04:30	7440-62-2	
Zinc, Dissolved	**3570**	ug/L	100	20	09/25/12 14:11	10/02/12 04:36	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**32.6J**	ug/L	250	5	09/21/12 16:55	09/25/12 16:07	7429-90-5	
Antimony, Dissolved	**0.18J**	ug/L	5.0	5	09/21/12 16:55	09/25/12 16:07	7440-36-0	
Arsenic, Dissolved	**0.26J**	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:17	7440-38-2	
Barium, Dissolved	**17.9**	ug/L	5.0	5	09/21/12 16:55	09/25/12 16:07	7440-39-3	B
Beryllium, Dissolved	**0.14J**	ug/L	0.50	1	09/21/12 16:55	09/25/12 10:17	7440-41-7	
Cadmium, Dissolved	**10.9**	ug/L	0.50	1	09/21/12 16:55	09/25/12 10:17	7440-43-9	
Chromium, Dissolved	**1.6**	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:17	7440-47-3	B
Cobalt, Dissolved	**1.7**	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:17	7440-48-4	
Copper, Dissolved	**5.1**	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:17	7440-50-8	
Iron, Dissolved	**482**	ug/L	50.0	1	09/21/12 16:55	09/25/12 10:17	7439-89-6	B
Lead, Dissolved	**0.98J**	ug/L	5.0	5	09/21/12 16:55	09/25/12 16:07	7439-92-1	
Manganese, Dissolved	**1440**	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:17	7439-96-5	B
Molybdenum, Dissolved	**11.2**	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:17	7439-98-7	
Nickel, Dissolved	**2.4**	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:17	7440-02-0	
Selenium, Dissolved	ND	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:17	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/21/12 16:55	09/25/12 10:17	7440-22-4	
Thallium, Dissolved	ND	ug/L	5.0	5	09/21/12 16:55	09/25/12 16:07	7440-28-0	D3
Vanadium, Dissolved	ND	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:17	7440-62-2	
Zinc, Dissolved	**2310**	ug/L	10.0	1	09/21/12 16:55	09/25/12 10:17	7440-66-6	B
245.1 Mercury	Analytical Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/26/12 15:15	10/02/12 13:07	7439-97-6	B
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/20/12 00:00	10/04/12 12:41	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	09/21/12 15:00	09/24/12 11:44	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**1250**	umhos/cm	10.0	1		09/21/12 16:01		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**800**	mg/L	6.0	1		09/23/12 09:54		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: DR-6_20120911 **Lab ID: 60128986006** Collected: 09/13/12 10:00 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.62**	PSU	0.010	1		09/23/12 09:54		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**123**	mg/L	20.0	1		09/21/12 10:15		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/21/12 10:15		
Alkalinity, Total as CaCO3	**123**	mg/L	20.0	1		09/21/12 10:15		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1080**	mg/L	5.0	1		09/20/12 15:29		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	ND	mg/L	5.0	1		09/20/12 08:57		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/18/12 15:21	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	ND	mg/L	1.0	1		09/25/12 16:02	16887-00-6	
Sulfate	**607**	mg/L	50.0	50		09/25/12 16:18	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/18/12 13:56		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/24/12 17:22	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		09/27/12 19:33	7440-44-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: DR-7_20120911 **Lab ID: 60128986007** Collected: 09/13/12 10:03 Received: 09/14/12 10:15 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	**103000**	ug/L	500	5	09/21/12 15:50	09/25/12 13:59	7440-70-2	B
Magnesium, Dissolved	**12400**	ug/L	250	5	09/21/12 15:50	09/25/12 13:59	7439-95-4	
Potassium, Dissolved	**1820**	ug/L	500	1	09/21/12 15:50	09/27/12 09:41	7440-09-7	
Sodium, Dissolved	**5400**	ug/L	2500	5	09/21/12 15:50	09/25/12 13:59	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	**69.9**	ug/L	4.0	1	09/26/12 13:22	09/28/12 11:29	7429-90-5	
Antimony	ND	ug/L	0.50	1	09/26/12 13:22	09/28/12 11:29	7440-36-0	
Arsenic	**1.3**	ug/L	0.50	1	09/26/12 13:22	09/28/12 11:29	7440-38-2	
Barium	**61.1**	ug/L	0.30	1	09/26/12 13:22	09/28/12 11:29	7440-39-3	
Beryllium	ND	ug/L	0.20	1	09/26/12 13:22	09/28/12 11:29	7440-41-7	
Cadmium	**3.2**	ug/L	0.080	1	09/26/12 13:22	09/28/12 11:29	7440-43-9	
Calcium	**115000**	ug/L	400	20	09/26/12 13:22	09/28/12 11:35	7440-70-2	
Chromium	ND	ug/L	0.50	1	09/26/12 13:22	09/28/12 11:29	7440-47-3	
Cobalt	**0.66**	ug/L	0.50	1	09/26/12 13:22	09/28/12 11:29	7440-48-4	
Copper	**3.9**	ug/L	0.50	1	09/26/12 13:22	09/28/12 11:29	7440-50-8	
Iron	**482**	ug/L	50.0	1	09/26/12 13:22	09/28/12 11:29	7439-89-6	
Lead	**1.2**	ug/L	0.10	1	09/26/12 13:22	09/28/12 11:29	7439-92-1	
Magnesium	**12400**	ug/L	5.0	1	09/26/12 13:22	09/28/12 11:29	7439-95-4	
Manganese	**535**	ug/L	10.0	20	09/26/12 13:22	09/28/12 11:35	7439-96-5	
Molybdenum	**4.1**	ug/L	0.50	1	09/26/12 13:22	09/28/12 11:29	7439-98-7	
Nickel	**1.5**	ug/L	0.50	1	09/26/12 13:22	09/28/12 11:29	7440-02-0	
Potassium	**1960**	ug/L	20.0	1	09/26/12 13:22	09/28/12 11:29	7440-09-7	
Selenium	ND	ug/L	0.50	1	09/26/12 13:22	09/28/12 11:29	7782-49-2	
Silica	**13700**	ug/L	1070	20	09/26/12 13:22	09/28/12 11:35	7631-86-9	
Silver	ND	ug/L	0.50	1	09/26/12 13:22	09/28/12 11:29	7440-22-4	
Sodium	**6910**	ug/L	50.0	1	09/26/12 13:22	09/28/12 11:29	7440-23-5	
Thallium	ND	ug/L	0.10	1	09/26/12 13:22	09/28/12 11:29	7440-28-0	
Total Hardness by 2340B	**338000**	ug/L	1420	20	09/26/12 13:22	09/28/12 11:35		
Vanadium	**0.19**	ug/L	0.10	1	09/26/12 13:22	09/28/12 11:29	7440-62-2	
Zinc	**639**	ug/L	100	20	09/26/12 13:22	09/28/12 11:35	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	**6.0**	ug/L	4.0	1	09/25/12 14:11	09/28/12 04:49	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	09/28/12 04:49	7440-36-0	
Arsenic, Dissolved	**0.99**	ug/L	0.50	1	09/25/12 14:11	09/28/12 04:49	7440-38-2	B
Barium, Dissolved	**60.4**	ug/L	0.30	1	09/25/12 14:11	09/28/12 04:49	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	09/25/12 14:11	09/28/12 04:49	7440-41-7	
Cadmium, Dissolved	**2.3**	ug/L	0.080	1	09/25/12 14:11	09/28/12 04:49	7440-43-9	
Calcium, Dissolved	**119000**	ug/L	400	20	09/25/12 14:11	10/03/12 14:47	7440-70-2	
Chromium, Dissolved	**0.58**	ug/L	0.50	1	09/25/12 14:11	09/28/12 04:49	7440-47-3	
Cobalt, Dissolved	**0.55**	ug/L	0.50	1	09/25/12 14:11	09/28/12 04:49	7440-48-4	
Copper, Dissolved	**0.94**	ug/L	0.50	1	09/25/12 14:11	09/28/12 04:49	7440-50-8	B
Iron, Dissolved	**92.6**	ug/L	50.0	1	09/25/12 14:11	09/28/12 04:49	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	09/25/12 14:11	09/28/12 04:49	7439-92-1	
Magnesium, Dissolved	**12800**	ug/L	5.0	1	09/25/12 14:11	09/28/12 04:49	7439-95-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: DR-7_20120911 **Lab ID: 60128986007** Collected: 09/13/12 10:03 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	**728**	ug/L	10.0	20	09/25/12 14:11	10/02/12 04:42	7439-96-5	
Molybdenum, Dissolved	**4.2**	ug/L	0.50	1	09/25/12 14:11	09/28/12 04:49	7439-98-7	
Nickel, Dissolved	**1.6**	ug/L	0.50	1	09/25/12 14:11	09/28/12 04:49	7440-02-0	
Potassium, Dissolved	**1960**	ug/L	20.0	1	09/25/12 14:11	09/28/12 04:49	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	09/28/12 04:49	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	09/28/12 04:49	7440-22-4	
Sodium, Dissolved	**7320**	ug/L	50.0	1	09/25/12 14:11	09/28/12 04:49	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/25/12 14:11	09/28/12 04:49	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	09/25/12 14:11	09/28/12 04:49	7440-62-2	
Zinc, Dissolved	**578**	ug/L	100	20	09/25/12 14:11	09/28/12 04:55	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**59.2J**	ug/L	250	5	09/21/12 16:55	09/25/12 16:12	7429-90-5	
Antimony, Dissolved	ND	ug/L	5.0	5	09/21/12 16:55	09/25/12 16:12	7440-36-0	D3
Arsenic, Dissolved	**0.92J**	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:21	7440-38-2	
Barium, Dissolved	**54.4**	ug/L	5.0	5	09/21/12 16:55	09/25/12 16:12	7440-39-3	B
Beryllium, Dissolved	**0.13J**	ug/L	0.50	1	09/21/12 16:55	09/25/12 10:21	7440-41-7	
Cadmium, Dissolved	**3.0**	ug/L	0.50	1	09/21/12 16:55	09/25/12 10:21	7440-43-9	
Chromium, Dissolved	**0.81J**	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:21	7440-47-3	B
Cobalt, Dissolved	**0.69J**	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:21	7440-48-4	
Copper, Dissolved	**5.2**	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:21	7440-50-8	
Iron, Dissolved	**547**	ug/L	50.0	1	09/21/12 16:55	09/25/12 10:21	7439-89-6	B
Lead, Dissolved	**1.9J**	ug/L	5.0	5	09/21/12 16:55	09/25/12 16:12	7439-92-1	
Manganese, Dissolved	**504**	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:21	7439-96-5	B
Molybdenum, Dissolved	**3.8**	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:21	7439-98-7	
Nickel, Dissolved	**0.87J**	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:21	7440-02-0	
Selenium, Dissolved	ND	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:21	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/21/12 16:55	09/25/12 10:21	7440-22-4	
Thallium, Dissolved	ND	ug/L	5.0	5	09/21/12 16:55	09/25/12 16:12	7440-28-0	D3
Vanadium, Dissolved	ND	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:21	7440-62-2	
Zinc, Dissolved	**601**	ug/L	10.0	1	09/21/12 16:55	09/25/12 10:21	7440-66-6	B
245.1 Mercury	Analytical Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/26/12 15:15	10/02/12 13:09	7439-97-6	B
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/20/12 00:00	10/04/12 12:43	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	09/21/12 15:00	09/24/12 11:46	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**681**	umhos/cm	10.0	1		09/21/12 16:02		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**436**	mg/L	6.0	1		09/23/12 09:54		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: DR-7_20120911 **Lab ID: 60128986007** Collected: 09/13/12 10:03 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.33**	PSU	0.010	1		09/23/12 09:54		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**116**	mg/L	20.0	1		09/21/12 10:25		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/21/12 10:25		
Alkalinity, Total as CaCO3	**116**	mg/L	20.0	1		09/21/12 10:25		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**470**	mg/L	5.0	1		09/20/12 15:29		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**8.0**	mg/L	5.0	1		09/20/12 08:57		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/18/12 15:27	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.4**	mg/L	1.0	1		09/25/12 16:34	16887-00-6	
Sulfate	**211**	mg/L	20.0	20		09/25/12 16:50	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/18/12 13:57		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/24/12 17:23	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		09/27/12 20:16	7440-44-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: DR-8_20120911 **Lab ID: 60128986008** Collected: 09/11/12 13:30 Received: 09/14/12 10:15 Matrix: Water

Comments: • This station may have been impacted by work operations occurring in the Blaine tunnel and 517 shaft at the time of sampling.

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	**229000**	ug/L	500	5	09/21/12 15:50	09/25/12 14:01	7440-70-2	B
Magnesium, Dissolved	**20100**	ug/L	250	5	09/21/12 15:50	09/25/12 14:01	7439-95-4	
Potassium, Dissolved	**1620**	ug/L	500	1	09/21/12 15:50	09/27/12 09:43	7440-09-7	
Sodium, Dissolved	**9050**	ug/L	2500	5	09/21/12 15:50	09/25/12 14:01	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	**280**	ug/L	4.0	1	09/26/12 13:22	10/02/12 17:39	7429-90-5	
Antimony	ND	ug/L	0.50	1	09/26/12 13:22	10/02/12 17:39	7440-36-0	
Arsenic	ND	ug/L	0.50	1	09/26/12 13:22	10/02/12 17:39	7440-38-2	
Barium	**21.5**	ug/L	0.30	1	09/26/12 13:22	10/02/12 17:39	7440-39-3	
Beryllium	**0.56**	ug/L	0.20	1	09/26/12 13:22	10/02/12 17:39	7440-41-7	
Cadmium	**22.0**	ug/L	0.080	1	09/26/12 13:22	10/02/12 17:39	7440-43-9	
Calcium	**184000**	ug/L	200	10	09/26/12 13:22	10/06/12 18:41	7440-70-2	
Chromium	ND	ug/L	0.50	1	09/26/12 13:22	10/02/12 17:39	7440-47-3	
Cobalt	**3.2**	ug/L	0.50	1	09/26/12 13:22	10/02/12 17:39	7440-48-4	
Copper	**39.1**	ug/L	0.50	1	09/26/12 13:22	10/02/12 17:39	7440-50-8	
Iron	**3590**	ug/L	50.0	1	09/26/12 13:22	10/02/12 17:39	7439-89-6	
Lead	**4.8**	ug/L	0.10	1	09/26/12 13:22	10/07/12 16:41	7439-92-1	
Magnesium	**18600**	ug/L	5.0	1	09/26/12 13:22	10/02/12 17:39	7439-95-4	
Manganese	**2080**	ug/L	5.0	10	09/26/12 13:22	10/07/12 16:48	7439-96-5	
Molybdenum	**12.9**	ug/L	0.50	1	09/26/12 13:22	10/02/12 17:39	7439-98-7	
Nickel	**9.7**	ug/L	0.50	1	09/26/12 13:22	10/02/12 17:39	7440-02-0	
Potassium	**1550**	ug/L	20.0	1	09/26/12 13:22	10/02/12 17:39	7440-09-7	
Selenium	ND	ug/L	0.50	1	09/26/12 13:22	10/02/12 17:39	7782-49-2	
Silica	**18300**	ug/L	535	10	09/26/12 13:22	10/07/12 16:48	7631-86-9	
Silver	ND	ug/L	0.50	1	09/26/12 13:22	10/02/12 17:39	7440-22-4	
Sodium	**9860**	ug/L	50.0	1	09/26/12 13:22	10/02/12 17:39	7440-23-5	
Thallium	ND	ug/L	0.10	1	09/26/12 13:22	10/06/12 18:35	7440-28-0	
Total Hardness by 2340B	**537000**	ug/L	710	10	09/26/12 13:22	10/06/12 18:41		
Vanadium	**0.18**	ug/L	0.10	1	09/26/12 13:22	10/02/12 17:39	7440-62-2	
Zinc	**4040**	ug/L	50.0	10	09/26/12 13:22	10/07/12 16:48	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	**34.7**	ug/L	4.0	1	09/25/12 14:11	09/28/12 05:31	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	09/28/12 05:31	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	10/02/12 05:07	7440-38-2	
Barium, Dissolved	**20.4**	ug/L	0.30	1	09/25/12 14:11	09/28/12 05:31	7440-39-3	
Beryllium, Dissolved	**0.41**	ug/L	0.20	1	09/25/12 14:11	09/28/12 05:31	7440-41-7	
Cadmium, Dissolved	**21.2**	ug/L	0.080	1	09/25/12 14:11	09/28/12 05:31	7440-43-9	
Calcium, Dissolved	**232000**	ug/L	400	20	09/25/12 14:11	09/28/12 05:37	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	09/28/12 05:31	7440-47-3	
Cobalt, Dissolved	**3.2**	ug/L	0.50	1	09/25/12 14:11	09/28/12 05:31	7440-48-4	
Copper, Dissolved	**6.9**	ug/L	0.50	1	09/25/12 14:11	09/28/12 05:31	7440-50-8	
Iron, Dissolved	**800**	ug/L	50.0	1	09/25/12 14:11	09/28/12 05:31	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	09/25/12 14:11	09/28/12 05:31	7439-92-1	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: DR-8_20120911 **Lab ID: 60128986008** Collected: 09/11/12 13:30 Received: 09/14/12 10:15 Matrix: Water

Comments: • This station may have been impacted by work operations occurring in the Blaine tunnel and 517 shaft at the time of sampling.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Magnesium, Dissolved	**19700**	ug/L	5.0	1	09/25/12 14:11	10/02/12 05:07	7439-95-4	
Manganese, Dissolved	**1960**	ug/L	10.0	20	09/25/12 14:11	09/28/12 05:37	7439-96-5	
Molybdenum, Dissolved	**13.6**	ug/L	0.50	1	09/25/12 14:11	09/28/12 05:31	7439-98-7	
Nickel, Dissolved	**5.8**	ug/L	0.50	1	09/25/12 14:11	09/28/12 05:31	7440-02-0	
Potassium, Dissolved	**1620**	ug/L	20.0	1	09/25/12 14:11	09/28/12 05:31	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	09/28/12 05:31	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	09/28/12 05:31	7440-22-4	
Sodium, Dissolved	**11100**	ug/L	50.0	1	09/25/12 14:11	09/28/12 05:31	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/25/12 14:11	09/28/12 05:31	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	09/25/12 14:11	09/28/12 05:31	7440-62-2	
Zinc, Dissolved	**3940**	ug/L	100	20	09/25/12 14:11	09/28/12 05:37	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**272**	ug/L	250	5	09/21/12 16:55	09/25/12 16:16	7429-90-5	
Antimony, Dissolved	**0.22J**	ug/L	5.0	5	09/21/12 16:55	09/25/12 16:16	7440-36-0	
Arsenic, Dissolved	**0.33J**	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:25	7440-38-2	
Barium, Dissolved	**19.7**	ug/L	5.0	5	09/21/12 16:55	09/25/12 16:16	7440-39-3	B
Beryllium, Dissolved	**0.53**	ug/L	0.50	1	09/21/12 16:55	09/25/12 10:25	7440-41-7	
Cadmium, Dissolved	**21.6**	ug/L	0.50	1	09/21/12 16:55	09/25/12 10:25	7440-43-9	
Chromium, Dissolved	**0.72J**	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:25	7440-47-3	B
Cobalt, Dissolved	**3.0**	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:25	7440-48-4	
Copper, Dissolved	**40.2**	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:25	7440-50-8	
Iron, Dissolved	**3580**	ug/L	50.0	1	09/21/12 16:55	09/25/12 10:25	7439-89-6	B
Lead, Dissolved	**5.6**	ug/L	5.0	5	09/21/12 16:55	09/25/12 16:16	7439-92-1	
Manganese, Dissolved	**2000**	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:25	7439-96-5	B
Molybdenum, Dissolved	**13.3**	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:25	7439-98-7	
Nickel, Dissolved	**3.5**	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:25	7440-02-0	
Selenium, Dissolved	ND	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:25	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/21/12 16:55	09/25/12 10:25	7440-22-4	
Thallium, Dissolved	ND	ug/L	5.0	5	09/21/12 16:55	09/25/12 16:16	7440-28-0	D3
Vanadium, Dissolved	ND	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:25	7440-62-2	
Zinc, Dissolved	**4040**	ug/L	10.0	1	09/21/12 16:55	09/25/12 10:25	7440-66-6	B
245.1 Mercury	Analytical Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/26/12 15:15	10/02/12 13:16	7439-97-6	B
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/20/12 00:00	10/04/12 12:45	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	09/21/12 15:00	09/24/12 11:48	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**1190**	umhos/cm	10.0	1		09/21/12 16:03		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: DR-8_20120911 **Lab ID: 60128986008** Collected: 09/11/12 13:30 Received: 09/14/12 10:15 Matrix: Water

Comments: • This station may have been impacted by work operations occurring in the Blaine tunnel and 517 shaft at the time of sampling.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**761**	mg/L	6.0	1		09/23/12 09:54		
Salinity (as seawater)	**0.59**	PSU	0.010	1		09/23/12 09:54		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**90.1**	mg/L	20.0	1		09/21/12 10:29		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/21/12 10:29		
Alkalinity, Total as CaCO3	**90.1**	mg/L	20.0	1		09/21/12 10:29		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1010**	mg/L	5.0	1		09/17/12 14:55		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**8.0**	mg/L	5.0	1		09/17/12 09:50		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/17/12 13:11	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	ND	mg/L	1.0	1		09/25/12 17:06	16887-00-6	
Sulfate	**595**	mg/L	50.0	50		09/25/12 17:21	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/18/12 13:57		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/24/12 17:24	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		09/27/12 20:30	7440-44-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: DR-4-SW_20120911 **Lab ID: 60128986009** Collected: 09/13/12 10:47 Received: 09/14/12 10:15 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	**65600**	ug/L	500	5	09/21/12 15:50	09/25/12 14:03	7440-70-2	B
Magnesium, Dissolved	**8820**	ug/L	250	5	09/21/12 15:50	09/25/12 14:03	7439-95-4	
Potassium, Dissolved	**1210**	ug/L	500	1	09/21/12 15:50	09/27/12 09:46	7440-09-7	
Sodium, Dissolved	**3020**	ug/L	2500	5	09/21/12 15:50	09/25/12 14:03	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	**47.3**	ug/L	4.0	1	10/09/12 11:01	10/10/12 10:47	7429-90-5	
Antimony	ND	ug/L	0.50	1	10/09/12 11:01	10/10/12 10:47	7440-36-0	
Arsenic	**0.52**	ug/L	0.50	1	10/09/12 11:01	10/10/12 10:47	7440-38-2	
Barium	**67.7**	ug/L	0.30	1	10/09/12 11:01	10/10/12 10:47	7440-39-3	
Beryllium	ND	ug/L	0.20	1	10/09/12 11:01	10/10/12 10:47	7440-41-7	
Cadmium	**0.67**	ug/L	0.080	1	10/09/12 11:01	10/10/12 10:47	7440-43-9	
Calcium	**69600**	ug/L	200	10	10/09/12 11:01	10/10/12 10:51	7440-70-2	
Chromium	ND	ug/L	0.50	1	10/09/12 11:01	10/10/12 10:47	7440-47-3	
Cobalt	ND	ug/L	0.50	1	10/09/12 11:01	10/10/12 10:47	7440-48-4	
Copper	**1.1**	ug/L	0.50	1	10/09/12 11:01	10/10/12 10:47	7440-50-8	
Iron	**166**	ug/L	50.0	1	10/09/12 11:01	10/10/12 10:47	7439-89-6	
Lead	**0.44**	ug/L	0.10	1	10/09/12 11:01	10/10/12 10:47	7439-92-1	
Magnesium	**9150**	ug/L	5.0	1	10/09/12 11:01	10/10/12 10:47	7439-95-4	
Manganese	**203**	ug/L	0.50	1	10/09/12 11:01	10/10/12 10:47	7439-96-5	
Molybdenum	**1.5**	ug/L	0.50	1	10/09/12 11:01	10/10/12 10:47	7439-98-7	
Nickel	**0.61**	ug/L	0.50	1	10/09/12 11:01	10/10/12 10:47	7440-02-0	
Potassium	**1230**	ug/L	20.0	1	10/09/12 11:01	10/10/12 10:47	7440-09-7	
Selenium	ND	ug/L	0.50	1	10/09/12 11:01	10/10/12 10:47	7782-49-2	
Silica	**9230**	ug/L	535	10	10/09/12 11:01	10/10/12 10:51	7631-86-9	
Silver	ND	ug/L	0.50	1	10/09/12 11:01	10/10/12 10:47	7440-22-4	
Sodium	**3920**	ug/L	50.0	1	10/09/12 11:01	10/10/12 10:47	7440-23-5	
Thallium	ND	ug/L	0.10	1	10/09/12 11:01	10/10/12 10:47	7440-28-0	
Total Hardness by 2340B	**211000**	ug/L	710	10	10/09/12 11:01	10/10/12 10:51		
Vanadium	**0.18**	ug/L	0.10	1	10/09/12 11:01	10/10/12 10:47	7440-62-2	
Zinc	**153**	ug/L	5.0	1	10/09/12 11:01	10/10/12 10:47	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	**7.0**	ug/L	4.0	1	09/25/12 14:11	09/28/12 05:43	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	09/28/12 05:43	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	10/02/12 05:19	7440-38-2	B
Barium, Dissolved	**69.0**	ug/L	0.30	1	09/25/12 14:11	09/28/12 05:43	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	09/25/12 14:11	09/28/12 05:43	7440-41-7	
Cadmium, Dissolved	**0.61**	ug/L	0.080	1	09/25/12 14:11	09/28/12 05:43	7440-43-9	
Calcium, Dissolved	**68200**	ug/L	400	20	09/25/12 14:11	09/28/12 05:49	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	09/28/12 05:43	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	09/28/12 05:43	7440-48-4	
Copper, Dissolved	**1.2**	ug/L	0.50	1	09/25/12 14:11	09/28/12 05:43	7440-50-8	B
Iron, Dissolved	ND	ug/L	50.0	1	09/25/12 14:11	09/28/12 05:43	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	09/25/12 14:11	09/28/12 05:43	7439-92-1	
Magnesium, Dissolved	**9140**	ug/L	5.0	1	09/25/12 14:11	10/02/12 05:19	7439-95-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: DR-4-SW_20120911 **Lab ID: 60128986009** Collected: 09/13/12 10:47 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	**202**	ug/L	0.50	1	09/25/12 14:11	09/28/12 05:43	7439-96-5	
Molybdenum, Dissolved	**1.6**	ug/L	0.50	1	09/25/12 14:11	09/28/12 05:43	7439-98-7	
Nickel, Dissolved	**1.3**	ug/L	0.50	1	09/25/12 14:11	09/28/12 05:43	7440-02-0	
Potassium, Dissolved	**1280**	ug/L	20.0	1	09/25/12 14:11	09/28/12 05:43	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	09/28/12 05:43	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	09/28/12 05:43	7440-22-4	
Sodium, Dissolved	**4210**	ug/L	50.0	1	09/25/12 14:11	09/28/12 05:43	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/25/12 14:11	09/28/12 05:43	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	09/25/12 14:11	09/28/12 05:43	7440-62-2	
Zinc, Dissolved	**131**	ug/L	5.0	1	09/25/12 14:11	09/28/12 05:43	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**27.0J**	ug/L	250	5	09/21/12 16:55	09/25/12 16:20	7429-90-5	
Antimony, Dissolved	ND	ug/L	5.0	5	09/21/12 16:55	09/25/12 16:20	7440-36-0	D3
Arsenic, Dissolved	**0.42J**	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:30	7440-38-2	
Barium, Dissolved	**64.0**	ug/L	5.0	5	09/21/12 16:55	09/25/12 16:20	7440-39-3	B
Beryllium, Dissolved	ND	ug/L	0.50	1	09/21/12 16:55	09/25/12 10:30	7440-41-7	
Cadmium, Dissolved	**0.63**	ug/L	0.50	1	09/21/12 16:55	09/25/12 10:30	7440-43-9	
Chromium, Dissolved	**0.74J**	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:30	7440-47-3	B
Cobalt, Dissolved	**0.27J**	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:30	7440-48-4	
Copper, Dissolved	**1.2**	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:30	7440-50-8	
Iron, Dissolved	**136**	ug/L	50.0	1	09/21/12 16:55	09/25/12 10:30	7439-89-6	B
Lead, Dissolved	**0.40J**	ug/L	5.0	5	09/21/12 16:55	09/25/12 16:20	7439-92-1	
Manganese, Dissolved	**196**	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:30	7439-96-5	B
Molybdenum, Dissolved	**1.6**	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:30	7439-98-7	
Nickel, Dissolved	ND	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:30	7440-02-0	
Selenium, Dissolved	ND	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:30	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/21/12 16:55	09/25/12 10:30	7440-22-4	
Thallium, Dissolved	ND	ug/L	5.0	5	09/21/12 16:55	09/25/12 16:20	7440-28-0	D3
Vanadium, Dissolved	ND	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:30	7440-62-2	
Zinc, Dissolved	**134**	ug/L	10.0	1	09/21/12 16:55	09/25/12 10:30	7440-66-6	B
245.1 Mercury	Analytical Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/26/12 15:15	10/02/12 13:19	7439-97-6	B
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/20/12 00:00	10/04/12 12:47	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	09/21/12 15:00	09/24/12 12:00	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**435**	umhos/cm	10.0	1		09/21/12 16:04		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**279**	mg/L	6.0	1		09/23/12 09:54		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: DR-4-SW_20120911 **Lab ID: 60128986009** Collected: 09/13/12 10:47 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.21**	PSU	0.010	1		09/23/12 09:54		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**113**	mg/L	20.0	1		09/21/12 10:33		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/21/12 10:33		
Alkalinity, Total as CaCO3	**113**	mg/L	20.0	1		09/21/12 10:33		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**285**	mg/L	5.0	1		09/20/12 15:29		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**7.0**	mg/L	5.0	1		09/20/12 08:58		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/18/12 15:27	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.6**	mg/L	1.0	1		09/25/12 17:37	16887-00-6	
Sulfate	**96.0**	mg/L	10.0	10		09/25/12 17:53	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/18/12 13:58		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/24/12 17:26	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		09/27/12 20:44	7440-44-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: DR-G_20120911 **Lab ID: 60128986010** Collected: 09/13/12 10:52 Received: 09/14/12 10:15 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	**63400**	ug/L	500	5	09/21/12 15:50	09/25/12 14:05	7440-70-2	B
Magnesium, Dissolved	**8680**	ug/L	250	5	09/21/12 15:50	09/25/12 14:05	7439-95-4	
Potassium, Dissolved	**1130**	ug/L	500	1	09/21/12 15:50	09/27/12 09:48	7440-09-7	
Sodium, Dissolved	**2890**	ug/L	2500	5	09/21/12 15:50	09/25/12 14:05	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	**46.9**	ug/L	4.0	1	10/09/12 11:01	10/10/12 10:56	7429-90-5	
Antimony	ND	ug/L	0.50	1	10/09/12 11:01	10/10/12 10:56	7440-36-0	
Arsenic	ND	ug/L	0.50	1	10/09/12 11:01	10/10/12 10:56	7440-38-2	
Barium	**75.1**	ug/L	0.30	1	10/09/12 11:01	10/10/12 10:56	7440-39-3	
Beryllium	ND	ug/L	0.20	1	10/09/12 11:01	10/10/12 10:56	7440-41-7	
Cadmium	**0.45**	ug/L	0.080	1	10/09/12 11:01	10/10/12 10:56	7440-43-9	
Calcium	**64500**	ug/L	200	10	10/09/12 11:01	10/10/12 11:00	7440-70-2	
Chromium	ND	ug/L	0.50	1	10/09/12 11:01	10/10/12 10:56	7440-47-3	
Cobalt	ND	ug/L	0.50	1	10/09/12 11:01	10/10/12 10:56	7440-48-4	
Copper	**0.82**	ug/L	0.50	1	10/09/12 11:01	10/10/12 10:56	7440-50-8	
Iron	**106**	ug/L	50.0	1	10/09/12 11:01	10/10/12 10:56	7439-89-6	
Lead	**0.30**	ug/L	0.10	1	10/09/12 11:01	10/10/12 10:56	7439-92-1	
Magnesium	**8700**	ug/L	5.0	1	10/09/12 11:01	10/10/12 10:56	7439-95-4	
Manganese	**66.7**	ug/L	0.50	1	10/09/12 11:01	10/10/12 10:56	7439-96-5	
Molybdenum	**1.1**	ug/L	0.50	1	10/09/12 11:01	10/10/12 10:56	7439-98-7	
Nickel	ND	ug/L	0.50	1	10/09/12 11:01	10/10/12 10:56	7440-02-0	
Potassium	**1100**	ug/L	20.0	1	10/09/12 11:01	10/10/12 10:56	7440-09-7	
Selenium	ND	ug/L	0.50	1	10/09/12 11:01	10/10/12 10:56	7782-49-2	
Silica	**8430**	ug/L	535	10	10/09/12 11:01	10/10/12 11:00	7631-86-9	
Silver	ND	ug/L	0.50	1	10/09/12 11:01	10/10/12 10:56	7440-22-4	
Sodium	**3600**	ug/L	50.0	1	10/09/12 11:01	10/10/12 10:56	7440-23-5	
Thallium	ND	ug/L	0.10	1	10/09/12 11:01	10/10/12 10:56	7440-28-0	
Total Hardness by 2340B	**197000**	ug/L	710	10	10/09/12 11:01	10/10/12 11:00		
Vanadium	**0.25**	ug/L	0.10	1	10/09/12 11:01	10/10/12 10:56	7440-62-2	
Zinc	**82.1**	ug/L	5.0	1	10/09/12 11:01	10/10/12 10:56	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	**12.3**	ug/L	4.0	1	09/25/12 14:11	09/28/12 05:55	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	09/28/12 05:55	7440-36-0	
Arsenic, Dissolved	**0.57**	ug/L	0.50	1	09/25/12 14:11	10/02/12 05:30	7440-38-2	B
Barium, Dissolved	**77.4**	ug/L	0.30	1	09/25/12 14:11	09/28/12 05:55	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	09/25/12 14:11	09/28/12 05:55	7440-41-7	
Cadmium, Dissolved	**0.35**	ug/L	0.080	1	09/25/12 14:11	09/28/12 05:55	7440-43-9	
Calcium, Dissolved	**63400**	ug/L	400	20	09/25/12 14:11	09/28/12 06:01	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	09/28/12 05:55	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	09/28/12 05:55	7440-48-4	
Copper, Dissolved	**1.1**	ug/L	0.50	1	09/25/12 14:11	09/28/12 05:55	7440-50-8	B
Iron, Dissolved	ND	ug/L	50.0	1	09/25/12 14:11	09/28/12 05:55	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	09/25/12 14:11	09/28/12 05:55	7439-92-1	
Magnesium, Dissolved	**8750**	ug/L	5.0	1	09/25/12 14:11	10/02/12 05:30	7439-95-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: DR-G_20120911 **Lab ID: 60128986010** Collected: 09/13/12 10:52 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	**60.5**	ug/L	0.50	1	09/25/12 14:11	09/28/12 05:55	7439-96-5	
Molybdenum, Dissolved	**1.3**	ug/L	0.50	1	09/25/12 14:11	09/28/12 05:55	7439-98-7	
Nickel, Dissolved	**0.64**	ug/L	0.50	1	09/25/12 14:11	09/28/12 05:55	7440-02-0	
Potassium, Dissolved	**1180**	ug/L	20.0	1	09/25/12 14:11	09/28/12 05:55	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	09/28/12 05:55	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	09/28/12 05:55	7440-22-4	
Sodium, Dissolved	**3960**	ug/L	50.0	1	09/25/12 14:11	09/28/12 05:55	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/25/12 14:11	09/28/12 05:55	7440-28-0	
Vanadium, Dissolved	**0.16**	ug/L	0.10	1	09/25/12 14:11	09/28/12 05:55	7440-62-2	
Zinc, Dissolved	**74.8**	ug/L	5.0	1	09/25/12 14:11	09/28/12 05:55	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	ND	ug/L	250	5	09/21/12 16:55	09/25/12 16:24	7429-90-5	D3
Antimony, Dissolved	ND	ug/L	5.0	5	09/21/12 16:55	09/25/12 16:24	7440-36-0	D3
Arsenic, Dissolved	**0.32J**	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:34	7440-38-2	
Barium, Dissolved	**73.4**	ug/L	5.0	5	09/21/12 16:55	09/25/12 16:24	7440-39-3	B
Beryllium, Dissolved	ND	ug/L	0.50	1	09/21/12 16:55	09/25/12 10:34	7440-41-7	
Cadmium, Dissolved	**0.44J**	ug/L	0.50	1	09/21/12 16:55	09/25/12 10:34	7440-43-9	
Chromium, Dissolved	**0.67J**	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:34	7440-47-3	B
Cobalt, Dissolved	**0.065J**	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:34	7440-48-4	
Copper, Dissolved	**1.2**	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:34	7440-50-8	
Iron, Dissolved	**74.1**	ug/L	50.0	1	09/21/12 16:55	09/25/12 10:34	7439-89-6	B
Lead, Dissolved	**0.26J**	ug/L	5.0	5	09/21/12 16:55	09/25/12 16:24	7439-92-1	
Manganese, Dissolved	**66.2**	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:34	7439-96-5	B
Molybdenum, Dissolved	**1.3**	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:34	7439-98-7	
Nickel, Dissolved	ND	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:34	7440-02-0	
Selenium, Dissolved	ND	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:34	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/21/12 16:55	09/25/12 10:34	7440-22-4	
Thallium, Dissolved	ND	ug/L	5.0	5	09/21/12 16:55	09/25/12 16:24	7440-28-0	D3
Vanadium, Dissolved	**0.71J**	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:34	7440-62-2	
Zinc, Dissolved	**86.7**	ug/L	10.0	1	09/21/12 16:55	09/25/12 10:34	7440-66-6	B
245.1 Mercury	Analytical Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/26/12 15:15	10/02/12 13:26	7439-97-6	B
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/20/12 00:00	10/04/12 12:58	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	09/21/12 15:00	09/24/12 12:02	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**404**	umhos/cm	10.0	1		09/21/12 16:05		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**258**	mg/L	6.0	1		09/23/12 09:54		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: DR-G_20120911 **Lab ID: 60128986010** Collected: 09/13/12 10:52 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.19**	PSU	0.010	1		09/23/12 09:54		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**118**	mg/L	20.0	1		09/21/12 10:37		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/21/12 10:37		
Alkalinity, Total as CaCO3	**118**	mg/L	20.0	1		09/21/12 10:37		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**257**	mg/L	5.0	1		09/20/12 15:29		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	ND	mg/L	5.0	1		09/20/12 08:58		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/18/12 15:27	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.6**	mg/L	1.0	1		09/25/12 18:41	16887-00-6	
Sulfate	**78.1**	mg/L	10.0	10		09/25/12 18:57	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/18/12 13:59		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/24/12 17:27	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		09/27/12 20:58	7440-44-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: FB_20120911 **Lab ID: 60128986011** Collected: 09/13/12 10:58 Received: 09/14/12 10:15 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	**66.5J**	ug/L	100	1	09/21/12 15:50	09/27/12 09:54	7440-70-2	B
Magnesium, Dissolved	ND	ug/L	250	5	09/21/12 15:50	09/25/12 14:07	7439-95-4	D3
Potassium, Dissolved	ND	ug/L	500	1	09/21/12 15:50	09/27/12 09:54	7440-09-7	
Sodium, Dissolved	**366J**	ug/L	500	1	09/21/12 15:50	09/27/12 09:54	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	ND	ug/L	4.0	1	09/26/12 13:22	10/02/12 19:27	7429-90-5	
Antimony	ND	ug/L	0.50	1	09/26/12 13:22	10/02/12 19:27	7440-36-0	
Arsenic	ND	ug/L	0.50	1	09/26/12 13:22	10/02/12 19:27	7440-38-2	
Barium	ND	ug/L	0.30	1	09/26/12 13:22	10/02/12 19:27	7440-39-3	
Beryllium	ND	ug/L	0.20	1	09/26/12 13:22	10/02/12 19:27	7440-41-7	
Cadmium	ND	ug/L	0.080	1	09/26/12 13:22	10/02/12 19:27	7440-43-9	
Calcium	ND	ug/L	20.0	1	09/26/12 13:22	10/02/12 19:27	7440-70-2	
Chromium	ND	ug/L	0.50	1	09/26/12 13:22	10/02/12 19:27	7440-47-3	
Cobalt	ND	ug/L	0.50	1	09/26/12 13:22	10/02/12 19:27	7440-48-4	
Copper	ND	ug/L	0.50	1	09/26/12 13:22	10/02/12 19:27	7440-50-8	
Iron	ND	ug/L	50.0	1	09/26/12 13:22	10/02/12 19:27	7439-89-6	
Lead	ND	ug/L	0.10	1	09/26/12 13:22	10/08/12 17:55	7439-92-1	
Magnesium	**5.8**	ug/L	5.0	1	09/26/12 13:22	10/02/12 19:27	7439-95-4	
Manganese	ND	ug/L	0.50	1	09/26/12 13:22	10/02/12 19:27	7439-96-5	
Molybdenum	ND	ug/L	0.50	1	09/26/12 13:22	10/02/12 19:27	7439-98-7	
Nickel	ND	ug/L	0.50	1	09/26/12 13:22	10/02/12 19:27	7440-02-0	
Potassium	ND	ug/L	20.0	1	09/26/12 13:22	10/02/12 19:27	7440-09-7	
Selenium	ND	ug/L	0.50	1	09/26/12 13:22	10/02/12 19:27	7782-49-2	
Silica	ND	ug/L	53.5	1	09/26/12 13:22	10/06/12 19:12	7631-86-9	
Silver	ND	ug/L	0.50	1	09/26/12 13:22	10/02/12 19:27	7440-22-4	
Sodium	**278**	ug/L	50.0	1	09/26/12 13:22	10/02/12 19:27	7440-23-5	
Thallium	ND	ug/L	0.10	1	09/26/12 13:22	10/06/12 19:12	7440-28-0	
Total Hardness by 2340B	ND	ug/L	71.0	1	09/26/12 13:22	10/02/12 19:27		
Vanadium	ND	ug/L	0.10	1	09/26/12 13:22	10/02/12 19:27	7440-62-2	
Zinc	ND	ug/L	5.0	1	09/26/12 13:22	10/02/12 19:27	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	ND	ug/L	4.0	1	09/25/12 14:11	09/28/12 06:07	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	09/28/12 06:07	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	09/28/12 06:07	7440-38-2	B
Barium, Dissolved	ND	ug/L	0.30	1	09/25/12 14:11	09/28/12 06:07	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	09/25/12 14:11	09/28/12 06:07	7440-41-7	
Cadmium, Dissolved	ND	ug/L	0.080	1	09/25/12 14:11	09/28/12 06:07	7440-43-9	
Calcium, Dissolved	**34.0**	ug/L	20.0	1	09/25/12 14:11	10/03/12 15:11	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	09/28/12 06:07	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	09/28/12 06:07	7440-48-4	
Copper, Dissolved	**0.70**	ug/L	0.50	1	09/25/12 14:11	09/28/12 06:07	7440-50-8	B,M1
Iron, Dissolved	ND	ug/L	50.0	1	09/25/12 14:11	09/28/12 06:07	7439-89-6	M1
Lead, Dissolved	ND	ug/L	0.10	1	09/25/12 14:11	09/28/12 06:07	7439-92-1	
Magnesium, Dissolved	**9.1**	ug/L	5.0	1	09/25/12 14:11	10/02/12 05:42	7439-95-4	M1

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: FB_20120911 **Lab ID: 60128986011** Collected: 09/13/12 10:58 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	**0.68**	ug/L	0.50	1	09/25/12 14:11	09/28/12 06:07	7439-96-5	
Molybdenum, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	09/28/12 06:07	7439-98-7	
Nickel, Dissolved	**0.82**	ug/L	0.50	1	09/25/12 14:11	09/28/12 06:07	7440-02-0	
Potassium, Dissolved	**26.6**	ug/L	20.0	1	09/25/12 14:11	09/28/12 06:07	7440-09-7	B
Selenium, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	09/28/12 06:07	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	09/28/12 06:07	7440-22-4	
Sodium, Dissolved	**357**	ug/L	50.0	1	09/25/12 14:11	09/28/12 06:07	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/25/12 14:11	09/28/12 06:07	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	09/25/12 14:11	09/28/12 06:07	7440-62-2	
Zinc, Dissolved	ND	ug/L	5.0	1	09/25/12 14:11	09/28/12 06:07	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	09/21/12 16:55	09/25/12 16:28	7429-90-5	
Antimony, Dissolved	ND	ug/L	1.0	1	09/21/12 16:55	09/25/12 16:28	7440-36-0	
Arsenic, Dissolved	ND	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:38	7440-38-2	
Barium, Dissolved	**0.24J**	ug/L	1.0	1	09/21/12 16:55	09/25/12 16:28	7440-39-3	B
Beryllium, Dissolved	ND	ug/L	0.50	1	09/21/12 16:55	09/25/12 10:38	7440-41-7	
Cadmium, Dissolved	ND	ug/L	0.50	1	09/21/12 16:55	09/25/12 10:38	7440-43-9	
Chromium, Dissolved	**0.71J**	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:38	7440-47-3	B
Cobalt, Dissolved	ND	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:38	7440-48-4	
Copper, Dissolved	ND	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:38	7440-50-8	
Iron, Dissolved	**6.1J**	ug/L	50.0	1	09/21/12 16:55	09/25/12 10:38	7439-89-6	B
Lead, Dissolved	**0.078J**	ug/L	1.0	1	09/21/12 16:55	09/25/12 16:28	7439-92-1	
Manganese, Dissolved	**0.52J**	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:38	7439-96-5	B
Molybdenum, Dissolved	ND	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:38	7439-98-7	
Nickel, Dissolved	ND	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:38	7440-02-0	
Selenium, Dissolved	ND	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:38	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/21/12 16:55	09/25/12 10:38	7440-22-4	
Thallium, Dissolved	ND	ug/L	1.0	1	09/21/12 16:55	09/25/12 16:28	7440-28-0	
Vanadium, Dissolved	ND	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:38	7440-62-2	
Zinc, Dissolved	**3.9J**	ug/L	10.0	1	09/21/12 16:55	09/25/12 10:38	7440-66-6	B
245.1 Mercury	Analytical Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/26/12 15:15	10/02/12 13:29	7439-97-6	B
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/20/12 00:00	10/04/12 13:00	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	09/21/12 15:00	09/24/12 12:04	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	ND	umhos/cm	10.0	1		09/21/12 16:07		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	ND	mg/L	6.0	1		09/23/12 09:54		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: FB_20120911 **Lab ID: 60128986011** Collected: 09/13/12 10:58 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.012**	PSU	0.010	1		09/23/12 09:54		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	20.0	1		09/21/12 10:41		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/21/12 10:41		
Alkalinity, Total as CaCO3	ND	mg/L	20.0	1		09/21/12 10:41		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	ND	mg/L	5.0	1		09/20/12 15:30		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	ND	mg/L	5.0	1		09/20/12 08:58		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/18/12 15:27	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	ND	mg/L	1.0	1		09/25/12 19:13	16887-00-6	
Sulfate	ND	mg/L	1.0	1		09/25/12 19:13	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/18/12 14:00		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/24/12 17:27	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		09/27/12 21:12	7440-44-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: GW-1_20120911 **Lab ID: 60128986012** Collected: 09/11/12 12:46 Received: 09/14/12 10:15 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	**53600**	ug/L	500	5	09/21/12 15:50	09/25/12 14:09	7440-70-2	B
Magnesium, Dissolved	**6700**	ug/L	250	5	09/21/12 15:50	09/25/12 14:09	7439-95-4	
Potassium, Dissolved	**974**	ug/L	500	1	09/21/12 15:50	09/27/12 09:56	7440-09-7	
Sodium, Dissolved	**2420**	ug/L	500	1	09/21/12 15:50	09/27/12 09:56	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	**6140**	ug/L	4.0	1	10/09/12 11:01	10/10/12 11:16	7429-90-5	
Antimony	ND	ug/L	0.50	1	10/09/12 11:01	10/10/12 11:16	7440-36-0	
Arsenic	**9.2**	ug/L	0.50	1	10/09/12 11:01	10/10/12 11:16	7440-38-2	
Barium	**174**	ug/L	0.30	1	10/09/12 11:01	10/10/12 11:16	7440-39-3	
Beryllium	**0.45**	ug/L	0.20	1	10/09/12 11:01	10/10/12 11:16	7440-41-7	
Cadmium	**0.83**	ug/L	0.080	1	10/09/12 11:01	10/10/12 11:16	7440-43-9	
Calcium	**54500**	ug/L	200	10	10/09/12 11:01	10/10/12 11:21	7440-70-2	
Chromium	**6.4**	ug/L	0.50	1	10/09/12 11:01	10/10/12 11:16	7440-47-3	
Cobalt	**6.2**	ug/L	0.50	1	10/09/12 11:01	10/10/12 11:16	7440-48-4	
Copper	**37.9**	ug/L	0.50	1	10/09/12 11:01	10/10/12 11:16	7440-50-8	
Iron	**10600**	ug/L	50.0	1	10/09/12 11:01	10/10/12 11:16	7439-89-6	
Lead	**34.4**	ug/L	0.10	1	10/09/12 11:01	10/10/12 11:16	7439-92-1	
Magnesium	**8610**	ug/L	5.0	1	10/09/12 11:01	10/10/12 11:16	7439-95-4	
Manganese	**1160**	ug/L	5.0	10	10/09/12 11:01	10/10/12 11:21	7439-96-5	
Molybdenum	**3.6**	ug/L	0.50	1	10/09/12 11:01	10/10/12 11:16	7439-98-7	
Nickel	**9.8**	ug/L	0.50	1	10/09/12 11:01	10/10/12 11:16	7440-02-0	
Potassium	**2380**	ug/L	20.0	1	10/09/12 11:01	10/10/12 11:16	7440-09-7	
Selenium	**0.73**	ug/L	0.50	1	10/09/12 11:01	10/10/12 11:16	7782-49-2	
Silica	**28700**	ug/L	535	10	10/09/12 11:01	10/10/12 11:21	7631-86-9	
Silver	ND	ug/L	0.50	1	10/09/12 11:01	10/10/12 11:16	7440-22-4	
Sodium	**2460**	ug/L	50.0	1	10/09/12 11:01	10/10/12 11:16	7440-23-5	
Thallium	**0.19**	ug/L	0.10	1	10/09/12 11:01	10/10/12 11:16	7440-28-0	
Total Hardness by 2340B	**172000**	ug/L	710	10	10/09/12 11:01	10/10/12 11:21		
Vanadium	**13.2**	ug/L	0.10	1	10/09/12 11:01	10/10/12 11:16	7440-62-2	
Zinc	**98.2**	ug/L	5.0	1	10/09/12 11:01	10/10/12 11:16	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	**4.3**	ug/L	4.0	1	09/25/12 14:11	10/03/12 15:23	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	09/28/12 06:55	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	10/02/12 05:54	7440-38-2	B
Barium, Dissolved	**70.1**	ug/L	0.30	1	09/25/12 14:11	09/28/12 06:55	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	09/25/12 14:11	10/02/12 05:54	7440-41-7	
Cadmium, Dissolved	ND	ug/L	0.080	1	09/25/12 14:11	09/28/12 06:55	7440-43-9	
Calcium, Dissolved	**56000**	ug/L	200	10	09/25/12 14:11	10/03/12 15:29	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	10/02/12 05:54	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	10/02/12 05:54	7440-48-4	
Copper, Dissolved	**1.2**	ug/L	0.50	1	09/25/12 14:11	10/02/12 05:54	7440-50-8	B
Iron, Dissolved	ND	ug/L	50.0	1	09/25/12 14:11	10/02/12 05:54	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	09/25/12 14:11	09/28/12 06:55	7439-92-1	
Magnesium, Dissolved	**6220**	ug/L	5.0	1	09/25/12 14:11	10/02/12 05:54	7439-95-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: GW-1_20120911 **Lab ID: 60128986012** Collected: 09/11/12 12:46 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	**1.6**	ug/L	0.50	1	09/25/12 14:11	10/02/12 05:54	7439-96-5	
Molybdenum, Dissolved	**1.6**	ug/L	0.50	1	09/25/12 14:11	10/02/12 05:54	7439-98-7	
Nickel, Dissolved	**2.0**	ug/L	0.50	1	09/25/12 14:11	10/02/12 05:54	7440-02-0	
Potassium, Dissolved	**807**	ug/L	20.0	1	09/25/12 14:11	10/02/12 05:54	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	10/02/12 05:54	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	09/28/12 06:55	7440-22-4	
Sodium, Dissolved	**2390**	ug/L	50.0	1	09/25/12 14:11	10/02/12 05:54	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/25/12 14:11	09/28/12 06:55	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	09/25/12 14:11	10/02/12 05:54	7440-62-2	
Zinc, Dissolved	ND	ug/L	5.0	1	09/25/12 14:11	10/02/12 05:54	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**1620**	ug/L	250	5	09/21/12 16:55	09/25/12 16:32	7429-90-5	
Antimony, Dissolved	**0.20J**	ug/L	5.0	5	09/21/12 16:55	09/25/12 16:32	7440-36-0	
Arsenic, Dissolved	**2.3**	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:42	7440-38-2	
Barium, Dissolved	**183**	ug/L	5.0	5	09/21/12 16:55	09/25/12 16:32	7440-39-3	B
Beryllium, Dissolved	**0.35J**	ug/L	0.50	1	09/21/12 16:55	09/25/12 10:42	7440-41-7	
Cadmium, Dissolved	**1.1**	ug/L	0.50	1	09/21/12 16:55	09/25/12 10:42	7440-43-9	
Chromium, Dissolved	**2.9**	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:42	7440-47-3	B
Cobalt, Dissolved	**4.2**	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:42	7440-48-4	
Copper, Dissolved	**28.0**	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:42	7440-50-8	
Iron, Dissolved	**3250**	ug/L	50.0	1	09/21/12 16:55	09/25/12 10:42	7439-89-6	B
Lead, Dissolved	**26.7**	ug/L	5.0	5	09/21/12 16:55	09/25/12 16:32	7439-92-1	
Manganese, Dissolved	**910**	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:42	7439-96-5	B
Molybdenum, Dissolved	**0.26J**	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:42	7439-98-7	
Nickel, Dissolved	**7.2**	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:42	7440-02-0	
Selenium, Dissolved	**0.53J**	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:42	7782-49-2	
Silver, Dissolved	**0.55**	ug/L	0.50	1	09/21/12 16:55	09/25/12 10:42	7440-22-4	
Thallium, Dissolved	ND	ug/L	5.0	5	09/21/12 16:55	09/25/12 16:32	7440-28-0	D3
Vanadium, Dissolved	**4.4**	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:42	7440-62-2	
Zinc, Dissolved	**74.5**	ug/L	10.0	1	09/21/12 16:55	09/25/12 10:42	7440-66-6	B
245.1 Mercury	Analytical Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/26/12 15:15	10/02/12 13:31	7439-97-6	B
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/20/12 00:00	10/04/12 13:03	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	09/21/12 15:00	09/24/12 12:08	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**324**	umhos/cm	10.0	1		09/21/12 16:10		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**207**	mg/L	6.0	1		09/23/12 09:54		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: GW-1_20120911 **Lab ID: 60128986012** Collected: 09/11/12 12:46 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.16**	PSU	0.010	1		09/23/12 09:54		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**106**	mg/L	20.0	1		09/21/12 10:45		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/21/12 10:45		
Alkalinity, Total as CaCO3	**106**	mg/L	20.0	1		09/21/12 10:45		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**192**	mg/L	5.0	1		09/17/12 14:55		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**596**	mg/L	5.0	1		09/17/12 09:50		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/17/12 13:11	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.3**	mg/L	1.0	1		09/25/12 19:29	16887-00-6	
Sulfate	**52.0**	mg/L	10.0	10		09/25/12 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		09/19/12 15:59		M1
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/24/12 17:31	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.0**	mg/L	1.0	1		09/27/12 21:26	7440-44-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: GW-3_20120911 **Lab ID: 60128986013** Collected: 09/11/12 08:16 Received: 09/14/12 10:15 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	**139000**	ug/L	500	5	09/21/12 15:50	09/25/12 14:12	7440-70-2	B
Magnesium, Dissolved	**18600**	ug/L	250	5	09/21/12 15:50	09/25/12 14:12	7439-95-4	
Potassium, Dissolved	**3200**	ug/L	1000	2	09/21/12 15:50	09/27/12 09:59	7440-09-7	
Sodium, Dissolved	**3310**	ug/L	1000	2	09/21/12 15:50	09/27/12 09:59	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	**4960**	ug/L	4.0	1	09/26/12 13:23	10/02/12 20:21	7429-90-5	
Antimony	ND	ug/L	0.50	1	09/26/12 13:23	10/02/12 20:21	7440-36-0	
Arsenic	**8.1**	ug/L	0.50	1	09/26/12 13:23	10/02/12 20:21	7440-38-2	
Barium	**108**	ug/L	0.30	1	09/26/12 13:23	10/02/12 20:21	7440-39-3	
Beryllium	**0.28**	ug/L	0.20	1	09/26/12 13:23	10/02/12 20:21	7440-41-7	
Cadmium	**2.0**	ug/L	0.080	1	09/26/12 13:23	10/02/12 20:21	7440-43-9	
Calcium	**121000**	ug/L	200	10	09/26/12 13:23	10/06/12 19:54	7440-70-2	
Chromium	**6.7**	ug/L	0.50	1	09/26/12 13:23	10/02/12 20:21	7440-47-3	
Cobalt	**3.6**	ug/L	0.50	1	09/26/12 13:23	10/02/12 20:21	7440-48-4	
Copper	**40.8**	ug/L	0.50	1	09/26/12 13:23	10/02/12 20:21	7440-50-8	
Iron	**8490**	ug/L	50.0	1	09/26/12 13:23	10/02/12 20:21	7439-89-6	
Lead	**81.8**	ug/L	1.0	10	09/26/12 13:23	10/07/12 17:38	7439-92-1	
Magnesium	**19200**	ug/L	5.0	1	09/26/12 13:23	10/02/12 20:21	7439-95-4	
Manganese	**1060**	ug/L	5.0	10	09/26/12 13:23	10/07/12 17:38	7439-96-5	
Molybdenum	**1.5**	ug/L	0.50	1	09/26/12 13:23	10/02/12 20:21	7439-98-7	
Nickel	**6.0**	ug/L	0.50	1	09/26/12 13:23	10/02/12 20:21	7440-02-0	
Potassium	**3830**	ug/L	20.0	1	09/26/12 13:23	10/02/12 20:21	7440-09-7	
Selenium	**2.2**	ug/L	0.50	1	09/26/12 13:23	10/02/12 20:21	7782-49-2	
Silica	**31200**	ug/L	535	10	09/26/12 13:23	10/06/12 19:54	7631-86-9	
Silver	**0.62**	ug/L	0.50	1	09/26/12 13:23	10/02/12 20:21	7440-22-4	
Sodium	**3180**	ug/L	50.0	1	09/26/12 13:23	10/02/12 20:21	7440-23-5	
Thallium	**0.16**	ug/L	0.10	1	09/26/12 13:23	10/06/12 19:48	7440-28-0	
Total Hardness by 2340B	**382000**	ug/L	710	10	09/26/12 13:23	10/06/12 19:54		
Vanadium	**10.8**	ug/L	0.10	1	09/26/12 13:23	10/02/12 20:21	7440-62-2	
Zinc	**277**	ug/L	5.0	1	09/26/12 13:23	10/02/12 20:21	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	**25.3**	ug/L	4.0	1	09/25/12 14:11	10/03/12 15:35	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	09/28/12 07:06	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	10/02/12 06:36	7440-38-2	B
Barium, Dissolved	**21.3**	ug/L	0.30	1	09/25/12 14:11	09/28/12 07:06	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	09/25/12 14:11	10/02/12 06:36	7440-41-7	
Cadmium, Dissolved	**0.78**	ug/L	0.080	1	09/25/12 14:11	09/28/12 07:06	7440-43-9	
Calcium, Dissolved	**156000**	ug/L	200	10	09/25/12 14:11	10/03/12 15:40	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	10/02/12 06:36	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	10/02/12 06:36	7440-48-4	
Copper, Dissolved	**5.4**	ug/L	0.50	1	09/25/12 14:11	10/02/12 06:36	7440-50-8	
Iron, Dissolved	ND	ug/L	50.0	1	09/25/12 14:11	10/02/12 06:36	7439-89-6	
Lead, Dissolved	**0.38**	ug/L	0.10	1	09/25/12 14:11	09/28/12 07:06	7439-92-1	
Magnesium, Dissolved	**17700**	ug/L	5.0	1	09/25/12 14:11	10/02/12 06:36	7439-95-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: GW-3_20120911 **Lab ID: 60128986013** Collected: 09/11/12 08:16 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	**111**	ug/L	0.50	1	09/25/12 14:11	10/02/12 06:36	7439-96-5	
Molybdenum, Dissolved	**0.59**	ug/L	0.50	1	09/25/12 14:11	10/02/12 06:36	7439-98-7	
Nickel, Dissolved	**2.8**	ug/L	0.50	1	09/25/12 14:11	10/02/12 06:36	7440-02-0	
Potassium, Dissolved	**3120**	ug/L	20.0	1	09/25/12 14:11	10/02/12 06:36	7440-09-7	
Selenium, Dissolved	**0.92**	ug/L	0.50	1	09/25/12 14:11	10/02/12 06:36	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	09/28/12 07:06	7440-22-4	
Sodium, Dissolved	**3170**	ug/L	50.0	1	09/25/12 14:11	10/02/12 06:36	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/25/12 14:11	09/28/12 07:06	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	09/25/12 14:11	10/02/12 06:36	7440-62-2	
Zinc, Dissolved	**76.5**	ug/L	5.0	1	09/25/12 14:11	10/02/12 06:36	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**1820**	ug/L	250	5	09/21/12 16:55	09/25/12 16:37	7429-90-5	
Antimony, Dissolved	**0.29J**	ug/L	5.0	5	09/21/12 16:55	09/25/12 16:37	7440-36-0	
Arsenic, Dissolved	**3.8**	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:46	7440-38-2	
Barium, Dissolved	**61.0**	ug/L	5.0	5	09/21/12 16:55	09/25/12 16:37	7440-39-3	B
Beryllium, Dissolved	**0.20J**	ug/L	0.50	1	09/21/12 16:55	09/25/12 10:46	7440-41-7	
Cadmium, Dissolved	**2.3**	ug/L	0.50	1	09/21/12 16:55	09/25/12 10:46	7440-43-9	
Chromium, Dissolved	**3.4**	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:46	7440-47-3	B
Cobalt, Dissolved	**2.9**	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:46	7440-48-4	
Copper, Dissolved	**40.1**	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:46	7440-50-8	
Iron, Dissolved	**3820**	ug/L	50.0	1	09/21/12 16:55	09/25/12 10:46	7439-89-6	B
Lead, Dissolved	**53.7**	ug/L	5.0	5	09/21/12 16:55	09/25/12 16:37	7439-92-1	
Manganese, Dissolved	**1050**	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:46	7439-96-5	B
Molybdenum, Dissolved	**0.20J**	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:46	7439-98-7	
Nickel, Dissolved	**2.8**	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:46	7440-02-0	
Selenium, Dissolved	**1.0**	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:46	7782-49-2	
Silver, Dissolved	**0.45J**	ug/L	0.50	1	09/21/12 16:55	09/25/12 10:46	7440-22-4	
Thallium, Dissolved	ND	ug/L	5.0	5	09/21/12 16:55	09/25/12 16:37	7440-28-0	D3
Vanadium, Dissolved	**3.8**	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:46	7440-62-2	
Zinc, Dissolved	**307**	ug/L	10.0	1	09/21/12 16:55	09/25/12 10:46	7440-66-6	B
245.1 Mercury	Analytical Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/26/12 15:15	10/02/12 13:34	7439-97-6	B
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/20/12 00:00	10/04/12 13:05	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	09/21/12 15:00	09/24/12 12:10	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**793**	umhos/cm	10.0	1		09/21/12 16:11		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**508**	mg/L	6.0	1		09/23/12 09:54		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: GW-3_20120911 **Lab ID: 60128986013** Collected: 09/11/12 08:16 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.39**	PSU	0.010	1		09/23/12 09:54		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**206**	mg/L	20.0	1		09/21/12 10:58		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/21/12 10:58		
Alkalinity, Total as CaCO3	**206**	mg/L	20.0	1		09/21/12 10:58		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**550**	mg/L	5.0	1		09/17/12 14:56		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**273**	mg/L	5.0	1		09/17/12 09:51		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/17/12 13:11	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.9**	mg/L	1.0	1		09/25/12 20:00	16887-00-6	
Sulfate	**207**	mg/L	20.0	20		09/25/12 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		09/19/12 16:01		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/24/12 17:35	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.5**	mg/L	1.0	1		09/27/12 21:41	7440-44-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: GW-4_20120911 **Lab ID: 60128986014** Collected: 09/11/12 15:14 Received: 09/14/12 10:15 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	500	5	09/21/12 15:50	09/25/12 14:18	7440-70-2	B
Magnesium, Dissolved	**20500**	ug/L	250	5	09/21/12 15:50	09/25/12 14:18	7439-95-4	
Potassium, Dissolved	**2320**	ug/L	500	1	09/21/12 15:50	09/27/12 10:01	7440-09-7	
Sodium, Dissolved	**3770**	ug/L	2500	5	09/21/12 15:50	09/25/12 14:18	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	**21400**	ug/L	4.0	1	09/26/12 13:23	10/02/12 20:33	7429-90-5	
Antimony	**0.55**	ug/L	0.50	1	09/26/12 13:23	10/02/12 20:33	7440-36-0	
Arsenic	**12.4**	ug/L	0.50	1	09/26/12 13:23	10/02/12 20:33	7440-38-2	
Barium	**370**	ug/L	0.30	1	09/26/12 13:23	10/02/12 20:33	7440-39-3	
Beryllium	**1.4**	ug/L	0.20	1	09/26/12 13:23	10/02/12 20:33	7440-41-7	
Cadmium	**11.7**	ug/L	0.080	1	09/26/12 13:23	10/02/12 20:33	7440-43-9	
Calcium	**140000**	ug/L	200	10	09/26/12 13:23	10/06/12 20:06	7440-70-2	
Chromium	**31.2**	ug/L	0.50	1	09/26/12 13:23	10/02/12 20:33	7440-47-3	
Cobalt	**12.1**	ug/L	0.50	1	09/26/12 13:23	10/02/12 20:33	7440-48-4	
Copper	**91.5**	ug/L	0.50	1	09/26/12 13:23	10/02/12 20:33	7440-50-8	
Iron	**34300**	ug/L	500	10	09/26/12 13:23	10/06/12 20:06	7439-89-6	
Lead	**95.0**	ug/L	1.0	10	09/26/12 13:23	10/07/12 17:44	7439-92-1	
Magnesium	**29000**	ug/L	100	20	09/26/12 13:23	10/07/12 17:50	7439-95-4	
Manganese	**1080**	ug/L	5.0	10	09/26/12 13:23	10/07/12 17:44	7439-96-5	
Molybdenum	**13.9**	ug/L	0.50	1	09/26/12 13:23	10/02/12 20:33	7439-98-7	
Nickel	**23.8**	ug/L	0.50	1	09/26/12 13:23	10/02/12 20:33	7440-02-0	
Potassium	**5400**	ug/L	20.0	1	09/26/12 13:23	10/02/12 20:33	7440-09-7	
Selenium	**1.8**	ug/L	0.50	1	09/26/12 13:23	10/02/12 20:33	7782-49-2	
Silica	**81100**	ug/L	1070	20	09/26/12 13:23	10/07/12 17:50	7631-86-9	
Silver	**1.5**	ug/L	0.50	1	09/26/12 13:23	10/02/12 20:33	7440-22-4	
Sodium	**5060**	ug/L	50.0	1	09/26/12 13:23	10/02/12 20:33	7440-23-5	
Thallium	**0.52**	ug/L	0.10	1	09/26/12 13:23	10/06/12 20:00	7440-28-0	
Total Hardness by 2340B	**469000**	ug/L	1420	20	09/26/12 13:23	10/07/12 17:50		
Vanadium	**47.2**	ug/L	0.10	1	09/26/12 13:23	10/02/12 20:33	7440-62-2	
Zinc	**790**	ug/L	50.0	10	09/26/12 13:23	10/07/12 17:44	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	**1720**	ug/L	40.0	10	09/25/12 14:11	10/03/12 15:46	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	09/28/12 07:18	7440-36-0	
Arsenic, Dissolved	**2.2**	ug/L	0.50	1	09/25/12 14:11	10/02/12 06:48	7440-38-2	
Barium, Dissolved	**60.5**	ug/L	0.30	1	09/25/12 14:11	09/28/12 07:18	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	09/25/12 14:11	10/02/12 06:48	7440-41-7	
Cadmium, Dissolved	**0.80**	ug/L	0.080	1	09/25/12 14:11	09/28/12 07:18	7440-43-9	
Calcium, Dissolved	**161000**	ug/L	200	10	09/25/12 14:11	10/03/12 15:46	7440-70-2	
Chromium, Dissolved	**2.4**	ug/L	0.50	1	09/25/12 14:11	10/02/12 06:48	7440-47-3	
Cobalt, Dissolved	**1.4**	ug/L	0.50	1	09/25/12 14:11	10/02/12 06:48	7440-48-4	
Copper, Dissolved	**7.3**	ug/L	0.50	1	09/25/12 14:11	10/02/12 06:48	7440-50-8	
Iron, Dissolved	**3690**	ug/L	50.0	1	09/25/12 14:11	10/02/12 06:48	7439-89-6	
Lead, Dissolved	**6.6**	ug/L	0.10	1	09/25/12 14:11	09/28/12 07:18	7439-92-1	
Magnesium, Dissolved	**18200**	ug/L	5.0	1	09/25/12 14:11	10/02/12 06:48	7439-95-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: GW-4_20120911 **Lab ID: 60128986014** Collected: 09/11/12 15:14 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	**852**	ug/L	10.0	20	09/25/12 14:11	10/02/12 06:54	7439-96-5	
Molybdenum, Dissolved	**10.7**	ug/L	0.50	1	09/25/12 14:11	10/02/12 06:48	7439-98-7	
Nickel, Dissolved	**5.0**	ug/L	0.50	1	09/25/12 14:11	10/02/12 06:48	7440-02-0	
Potassium, Dissolved	**2070**	ug/L	20.0	1	09/25/12 14:11	10/02/12 06:48	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	10/02/12 06:48	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	09/28/12 07:18	7440-22-4	
Sodium, Dissolved	**4660**	ug/L	50.0	1	09/25/12 14:11	10/02/12 06:48	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/25/12 14:11	09/28/12 07:18	7440-28-0	
Vanadium, Dissolved	**3.5**	ug/L	0.10	1	09/25/12 14:11	10/02/12 06:48	7440-62-2	
Zinc, Dissolved	**75.4**	ug/L	5.0	1	09/25/12 14:11	10/02/12 06:48	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**5240**	ug/L	250	5	09/21/12 16:55	09/25/12 16:41	7429-90-5	
Antimony, Dissolved	ND	ug/L	5.0	5	09/21/12 16:55	09/25/12 16:41	7440-36-0	D3
Arsenic, Dissolved	**4.0**	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:50	7440-38-2	
Barium, Dissolved	**90.8**	ug/L	5.0	5	09/21/12 16:55	09/25/12 16:41	7440-39-3	B
Beryllium, Dissolved	**0.76**	ug/L	0.50	1	09/21/12 16:55	09/25/12 10:50	7440-41-7	
Cadmium, Dissolved	**8.8**	ug/L	0.50	1	09/21/12 16:55	09/25/12 10:50	7440-43-9	
Chromium, Dissolved	**10**	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:50	7440-47-3	B
Cobalt, Dissolved	**5.4**	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:50	7440-48-4	
Copper, Dissolved	**55.8**	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:50	7440-50-8	
Iron, Dissolved	**11300**	ug/L	50.0	1	09/21/12 16:55	09/25/12 10:50	7439-89-6	B
Lead, Dissolved	**62.2**	ug/L	5.0	5	09/21/12 16:55	09/25/12 16:41	7439-92-1	
Manganese, Dissolved	**803**	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:50	7439-96-5	B
Molybdenum, Dissolved	**5.0**	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:50	7439-98-7	
Nickel, Dissolved	**8.1**	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:50	7440-02-0	
Selenium, Dissolved	**0.45J**	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:50	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/21/12 16:55	09/25/12 10:50	7440-22-4	
Thallium, Dissolved	**0.17J**	ug/L	5.0	5	09/21/12 16:55	09/25/12 16:41	7440-28-0	
Vanadium, Dissolved	**14.1**	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:50	7440-62-2	
Zinc, Dissolved	**552**	ug/L	10.0	1	09/21/12 16:55	09/25/12 10:50	7440-66-6	B
245.1 Mercury	Analytical Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/26/12 15:15	10/02/12 13:36	7439-97-6	B
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/20/12 00:00	10/04/12 13:07	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	09/21/12 15:00	09/24/12 12:15	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**824**	umhos/cm	10.0	1		09/21/12 16:13		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**530**	mg/L	6.0	1		09/23/12 09:54		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: GW-4_20120911 **Lab ID: 60128986014** Collected: 09/11/12 15:14 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.40**	PSU	0.010	1		09/23/12 09:54		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**190**	mg/L	20.0	1		09/21/12 11:03		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/21/12 11:03		
Alkalinity, Total as CaCO3	**190**	mg/L	20.0	1		09/21/12 11:03		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**559**	mg/L	5.0	1		09/17/12 14:56		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**1420**	mg/L	5.0	1		09/17/12 09:51		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/17/12 13:11	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.8**	mg/L	1.0	1		09/25/12 20:32	16887-00-6	
Sulfate	**248**	mg/L	20.0	20		09/25/12 20:48	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/19/12 16:02		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/24/12 17:36	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.6**	mg/L	1.0	1		09/27/12 21:55	7440-44-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: GW-5_20120911 **Lab ID: 60128986015** Collected: 09/11/12 13:35 Received: 09/14/12 10:15 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	**408000**	ug/L	500	5	09/21/12 15:50	09/25/12 14:22	7440-70-2	B
Magnesium, Dissolved	**51600**	ug/L	250	5	09/21/12 15:50	09/25/12 14:22	7439-95-4	
Potassium, Dissolved	**3300**	ug/L	2500	5	09/21/12 15:50	09/25/12 14:22	7440-09-7	
Sodium, Dissolved	**4780**	ug/L	2500	5	09/21/12 15:50	09/25/12 14:22	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	**7690**	ug/L	20.0	5	09/26/12 13:23	10/02/12 21:27	7429-90-5	
Antimony	ND	ug/L	2.5	5	09/26/12 13:23	10/02/12 21:27	7440-36-0	
Arsenic	**273**	ug/L	2.5	5	09/26/12 13:23	10/02/12 21:27	7440-38-2	
Barium	**61.4**	ug/L	1.5	5	09/26/12 13:23	10/02/12 21:27	7440-39-3	
Beryllium	**1.1**	ug/L	1.0	5	09/26/12 13:23	10/02/12 21:27	7440-41-7	
Cadmium	**91.2**	ug/L	0.40	5	09/26/12 13:23	10/02/12 21:27	7440-43-9	
Calcium	**377000**	ug/L	2000	100	09/26/12 13:23	10/06/12 20:18	7440-70-2	
Chromium	**7.6**	ug/L	2.5	5	09/26/12 13:23	10/02/12 21:27	7440-47-3	
Cobalt	**26.1**	ug/L	2.5	5	09/26/12 13:23	10/02/12 21:27	7440-48-4	
Copper	**1100**	ug/L	2.5	5	09/26/12 13:23	10/02/12 21:27	7440-50-8	
Iron	**53300**	ug/L	250	5	09/26/12 13:23	10/02/12 21:27	7439-89-6	
Lead	**11800**	ug/L	10.0	100	09/26/12 13:23	10/07/12 17:57	7439-92-1	
Magnesium	**50600**	ug/L	25.0	5	09/26/12 13:23	10/02/12 21:27	7439-95-4	
Manganese	**14100**	ug/L	50.0	100	09/26/12 13:23	10/07/12 17:57	7439-96-5	
Molybdenum	**18.2**	ug/L	2.5	5	09/26/12 13:23	10/02/12 21:27	7439-98-7	
Nickel	**34.7**	ug/L	2.5	5	09/26/12 13:23	10/02/12 21:27	7440-02-0	
Potassium	**5660**	ug/L	100	5	09/26/12 13:23	10/02/12 21:27	7440-09-7	
Selenium	**2.7**	ug/L	2.5	5	09/26/12 13:23	10/02/12 21:27	7782-49-2	
Silica	**65500**	ug/L	5350	100	09/26/12 13:23	10/06/12 20:18	7631-86-9	
Silver	**50.5**	ug/L	2.5	5	09/26/12 13:23	10/02/12 21:27	7440-22-4	
Sodium	**5440**	ug/L	250	5	09/26/12 13:23	10/02/12 21:27	7440-23-5	
Thallium	**1.5**	ug/L	0.50	5	09/26/12 13:23	10/06/12 20:12	7440-28-0	
Total Hardness by 2340B	**1150000**	ug/L	7100	100	09/26/12 13:23	10/06/12 20:18		
Vanadium	**11.9**	ug/L	0.50	5	09/26/12 13:23	10/02/12 21:27	7440-62-2	
Zinc	**22000**	ug/L	500	100	09/26/12 13:23	10/07/12 17:57	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	**9.4**	ug/L	4.0	1	09/25/12 14:11	10/03/12 15:52	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	09/28/12 07:30	7440-36-0	
Arsenic, Dissolved	**56.9**	ug/L	0.50	1	09/25/12 14:11	10/02/12 07:00	7440-38-2	
Barium, Dissolved	**12.7**	ug/L	0.30	1	09/25/12 14:11	09/28/12 07:30	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	09/25/12 14:11	10/02/12 07:00	7440-41-7	
Cadmium, Dissolved	**0.21**	ug/L	0.080	1	09/25/12 14:11	09/28/12 07:30	7440-43-9	
Calcium, Dissolved	**434000**	ug/L	1000	50	09/25/12 14:11	10/03/12 15:58	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	10/02/12 07:00	7440-47-3	
Cobalt, Dissolved	**10.2**	ug/L	0.50	1	09/25/12 14:11	10/02/12 07:00	7440-48-4	
Copper, Dissolved	**0.96**	ug/L	0.50	1	09/25/12 14:11	10/02/12 07:00	7440-50-8	
Iron, Dissolved	**11000**	ug/L	50.0	1	09/25/12 14:11	10/02/12 07:00	7439-89-6	
Lead, Dissolved	**7.4**	ug/L	0.10	1	09/25/12 14:11	09/28/12 07:30	7439-92-1	
Magnesium, Dissolved	**75200**	ug/L	100	20	09/25/12 14:11	10/02/12 07:06	7439-95-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: GW-5_20120911 **Lab ID: 60128986015** Collected: 09/11/12 13:35 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	**11100**	ug/L	25.0	50	09/25/12 14:11	10/03/12 15:58	7439-96-5	
Molybdenum, Dissolved	**7.0**	ug/L	0.50	1	09/25/12 14:11	10/02/12 07:00	7439-98-7	
Nickel, Dissolved	**13.4**	ug/L	0.50	1	09/25/12 14:11	10/02/12 07:00	7440-02-0	
Potassium, Dissolved	**4570**	ug/L	20.0	1	09/25/12 14:11	10/02/12 07:00	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	10/02/12 07:00	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	09/28/12 07:30	7440-22-4	
Sodium, Dissolved	**5660**	ug/L	50.0	1	09/25/12 14:11	10/02/12 07:00	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/25/12 14:11	09/28/12 07:30	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	09/25/12 14:11	10/02/12 07:00	7440-62-2	
Zinc, Dissolved	**6480**	ug/L	250	50	09/25/12 14:11	10/03/12 15:58	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**6430**	ug/L	250	5	09/21/12 16:55	09/25/12 16:45	7429-90-5	
Antimony, Dissolved	**1.3J**	ug/L	5.0	5	09/21/12 16:55	09/25/12 16:45	7440-36-0	
Arsenic, Dissolved	**269**	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:55	7440-38-2	
Barium, Dissolved	**7.6**	ug/L	5.0	5	09/21/12 16:55	09/25/12 16:45	7440-39-3	B
Beryllium, Dissolved	**0.86**	ug/L	0.50	1	09/21/12 16:55	09/25/12 10:55	7440-41-7	
Cadmium, Dissolved	**82.9**	ug/L	0.50	1	09/21/12 16:55	09/25/12 10:55	7440-43-9	
Chromium, Dissolved	**6.3**	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:55	7440-47-3	B
Cobalt, Dissolved	**19.4**	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:55	7440-48-4	
Copper, Dissolved	**721**	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:55	7440-50-8	M1
Iron, Dissolved	**39700**	ug/L	50.0	1	09/21/12 16:55	09/25/12 10:55	7439-89-6	B,M1
Lead, Dissolved	**5380**	ug/L	5.0	5	09/21/12 16:55	09/25/12 16:45	7439-92-1	M1
Manganese, Dissolved	**13200**	ug/L	5.0	5	09/21/12 16:55	09/25/12 16:45	7439-96-5	B,M1
Molybdenum, Dissolved	**7.5**	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:55	7439-98-7	
Nickel, Dissolved	**24.6**	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:55	7440-02-0	
Selenium, Dissolved	**0.64J**	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:55	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/21/12 16:55	09/25/12 10:55	7440-22-4	
Thallium, Dissolved	**0.84J**	ug/L	5.0	5	09/21/12 16:55	09/25/12 16:45	7440-28-0	
Vanadium, Dissolved	**10.9**	ug/L	1.0	1	09/21/12 16:55	09/25/12 10:55	7440-62-2	
Zinc, Dissolved	**25200**	ug/L	50.0	5	09/21/12 16:55	09/25/12 16:45	7440-66-6	B,M1
245.1 Mercury	Analytical Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/26/12 15:15	10/02/12 13:43	7439-97-6	B
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/20/12 00:00	10/04/12 13:09	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	09/21/12 15:00	09/24/12 12:17	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**2020**	umhos/cm	10.0	1		09/21/12 16:14		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**1290**	mg/L	6.0	1		09/23/12 09:54		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: GW-5_20120911 **Lab ID: 60128986015** Collected: 09/11/12 13:35 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**1.0**	PSU	0.010	1		09/23/12 09:54		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**12.1**	mg/L	2.0	1		09/21/12 11:08		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	2.0	1		09/21/12 11:08		
Alkalinity, Total as CaCO3	**12.1**	mg/L	2.0	1		09/21/12 11:08		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1800**	mg/L	5.0	1		09/17/12 14:56		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**876**	mg/L	5.0	1		09/17/12 09:55		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	**0.37**	mg/L	0.050	1		09/17/12 13:11	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	ND	mg/L	1.0	1		09/25/12 21:04	16887-00-6	
Sulfate	**1120**	mg/L	100	100		09/26/12 10:38	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/19/12 16:04		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/24/12 17:39	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		09/27/12 22:09	7440-44-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: GW-6_20120911 **Lab ID: 60128986016** Collected: 09/11/12 14:40 Received: 09/14/12 10:15 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	**388000**	ug/L	500	5	09/21/12 15:50	09/25/12 14:25	7440-70-2	B
Magnesium, Dissolved	**83400**	ug/L	250	5	09/21/12 15:50	09/25/12 14:25	7439-95-4	
Potassium, Dissolved	**19400**	ug/L	2500	5	09/21/12 15:50	09/25/12 14:25	7440-09-7	
Sodium, Dissolved	**3630**	ug/L	2500	5	09/21/12 15:50	09/25/12 14:25	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	**20200**	ug/L	20.0	5	09/26/12 13:23	10/02/12 22:15	7429-90-5	
Antimony	**2.6**	ug/L	2.5	5	09/26/12 13:23	10/02/12 22:15	7440-36-0	
Arsenic	**348**	ug/L	2.5	5	09/26/12 13:23	10/02/12 22:15	7440-38-2	
Barium	**214**	ug/L	1.5	5	09/26/12 13:23	10/02/12 22:15	7440-39-3	
Beryllium	**2.8**	ug/L	1.0	5	09/26/12 13:23	10/02/12 22:15	7440-41-7	
Cadmium	**39.0**	ug/L	0.40	5	09/26/12 13:23	10/02/12 22:15	7440-43-9	
Calcium	**453000**	ug/L	2000	100	09/26/12 13:23	10/02/12 22:27	7440-70-2	
Chromium	**17.1**	ug/L	2.5	5	09/26/12 13:23	10/02/12 22:15	7440-47-3	
Cobalt	**16.6**	ug/L	2.5	5	09/26/12 13:23	10/02/12 22:15	7440-48-4	
Copper	**430**	ug/L	2.5	5	09/26/12 13:23	10/02/12 22:15	7440-50-8	
Iron	**393000**	ug/L	1000	20	09/26/12 13:23	10/02/12 22:21	7439-89-6	
Lead	**5800**	ug/L	10.0	100	09/26/12 13:23	10/07/12 18:03	7439-92-1	
Magnesium	**85400**	ug/L	25.0	5	09/26/12 13:23	10/02/12 22:15	7439-95-4	
Manganese	**22900**	ug/L	50.0	100	09/26/12 13:23	10/02/12 22:27	7439-96-5	
Molybdenum	**18.4**	ug/L	2.5	5	09/26/12 13:23	10/02/12 22:15	7439-98-7	
Nickel	**27.4**	ug/L	2.5	5	09/26/12 13:23	10/02/12 22:15	7440-02-0	
Potassium	**24400**	ug/L	100	5	09/26/12 13:23	10/02/12 22:15	7440-09-7	
Selenium	**3.6**	ug/L	2.5	5	09/26/12 13:23	10/02/12 22:15	7782-49-2	
Silica	**108000**	ug/L	5350	100	09/26/12 13:23	10/06/12 20:30	7631-86-9	
Silver	**19.9**	ug/L	2.5	5	09/26/12 13:23	10/02/12 22:15	7440-22-4	
Sodium	**4190**	ug/L	250	5	09/26/12 13:23	10/02/12 22:15	7440-23-5	
Thallium	**0.84**	ug/L	0.50	5	09/26/12 13:23	10/06/12 20:24	7440-28-0	
Total Hardness by 2340B	**1480000**	ug/L	7100	100	09/26/12 13:23	10/02/12 22:27		
Vanadium	**39.5**	ug/L	0.50	5	09/26/12 13:23	10/02/12 22:15	7440-62-2	
Zinc	**11300**	ug/L	500	100	09/26/12 13:23	10/02/12 22:27	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	**300**	ug/L	4.0	1	09/25/12 14:11	10/03/12 16:22	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	09/28/12 07:42	7440-36-0	
Arsenic, Dissolved	**166**	ug/L	0.50	1	09/25/12 14:11	10/02/12 07:12	7440-38-2	
Barium, Dissolved	**27.0**	ug/L	0.30	1	09/25/12 14:11	09/28/12 07:42	7440-39-3	
Beryllium, Dissolved	**0.85**	ug/L	0.20	1	09/25/12 14:11	10/02/12 07:12	7440-41-7	
Cadmium, Dissolved	**0.69**	ug/L	0.080	1	09/25/12 14:11	09/28/12 07:42	7440-43-9	
Calcium, Dissolved	**422000**	ug/L	1000	50	09/25/12 14:11	10/03/12 16:28	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	10/02/12 07:12	7440-47-3	
Cobalt, Dissolved	**2.1**	ug/L	0.50	1	09/25/12 14:11	10/02/12 07:12	7440-48-4	
Copper, Dissolved	**5.0**	ug/L	0.50	1	09/25/12 14:11	10/02/12 07:12	7440-50-8	
Iron, Dissolved	**218000**	ug/L	1000	20	09/25/12 14:11	10/02/12 07:18	7439-89-6	
Lead, Dissolved	**63.8**	ug/L	0.10	1	09/25/12 14:11	09/28/12 07:42	7439-92-1	
Magnesium, Dissolved	**123000**	ug/L	100	20	09/25/12 14:11	10/02/12 07:18	7439-95-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: GW-6_20120911 **Lab ID: 60128986016** Collected: 09/11/12 14:40 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	**18500**	ug/L	25.0	50	09/25/12 14:11	10/03/12 16:28	7439-96-5	
Molybdenum, Dissolved	**10.7**	ug/L	0.50	1	09/25/12 14:11	10/02/12 07:12	7439-98-7	
Nickel, Dissolved	**3.4**	ug/L	0.50	1	09/25/12 14:11	10/02/12 07:12	7440-02-0	
Potassium, Dissolved	**34000**	ug/L	400	20	09/25/12 14:11	10/02/12 07:18	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	10/02/12 07:12	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	09/28/12 07:42	7440-22-4	
Sodium, Dissolved	**4260**	ug/L	50.0	1	09/25/12 14:11	10/02/12 07:12	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/25/12 14:11	09/28/12 07:42	7440-28-0	
Vanadium, Dissolved	**0.34**	ug/L	0.10	1	09/25/12 14:11	10/02/12 07:12	7440-62-2	
Zinc, Dissolved	**7210**	ug/L	100	20	09/25/12 14:11	10/02/12 07:18	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**5080**	ug/L	250	5	09/21/12 16:55	09/25/12 17:02	7429-90-5	
Antimony, Dissolved	**0.79J**	ug/L	5.0	5	09/21/12 16:55	09/25/12 17:02	7440-36-0	
Arsenic, Dissolved	**259**	ug/L	1.0	1	09/21/12 16:55	09/25/12 20:28	7440-38-2	
Barium, Dissolved	**29.9**	ug/L	5.0	5	09/21/12 16:55	09/25/12 17:02	7440-39-3	B
Beryllium, Dissolved	**1.6**	ug/L	0.50	1	09/21/12 16:55	09/25/12 20:28	7440-41-7	
Cadmium, Dissolved	**11.4**	ug/L	0.50	1	09/21/12 16:55	09/25/12 20:28	7440-43-9	
Chromium, Dissolved	**6.7**	ug/L	5.0	5	09/21/12 16:55	09/25/12 17:02	7440-47-3	B
Cobalt, Dissolved	**6.4**	ug/L	5.0	5	09/21/12 16:55	09/25/12 17:02	7440-48-4	
Copper, Dissolved	**158**	ug/L	5.0	5	09/21/12 16:55	09/25/12 17:02	7440-50-8	
Iron, Dissolved	**168000**	ug/L	250	5	09/21/12 16:55	09/25/12 17:02	7439-89-6	B
Lead, Dissolved	**2660**	ug/L	5.0	5	09/21/12 16:55	09/25/12 17:02	7439-92-1	
Manganese, Dissolved	**20700**	ug/L	5.0	5	09/21/12 16:55	09/25/12 17:02	7439-96-5	B
Molybdenum, Dissolved	**5.6**	ug/L	1.0	1	09/21/12 16:55	09/25/12 20:28	7439-98-7	
Nickel, Dissolved	**8.0**	ug/L	1.0	1	09/21/12 16:55	09/25/12 20:28	7440-02-0	
Selenium, Dissolved	**0.52J**	ug/L	1.0	1	09/21/12 16:55	09/25/12 20:28	7782-49-2	
Silver, Dissolved	**0.093J**	ug/L	0.50	1	09/21/12 16:55	09/25/12 20:28	7440-22-4	
Thallium, Dissolved	**0.28J**	ug/L	5.0	5	09/21/12 16:55	09/25/12 17:02	7440-28-0	
Vanadium, Dissolved	**12.9**	ug/L	1.0	1	09/21/12 16:55	09/25/12 20:28	7440-62-2	
Zinc, Dissolved	**7100**	ug/L	10.0	1	09/21/12 16:55	09/25/12 20:28	7440-66-6	B
245.1 Mercury	Analytical Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/26/12 15:15	10/02/12 13:46	7439-97-6	B
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/20/12 00:00	10/04/12 13:15	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	09/21/12 15:00	09/24/12 12:38	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**2220**	umhos/cm	10.0	1		09/21/12 16:15		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**1420**	mg/L	6.0	1		09/23/12 09:54		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: GW-6_20120911 **Lab ID: 60128986016** Collected: 09/11/12 14:40 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**1.1**	PSU	0.010	1		09/23/12 09:54		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	20.0	1		09/21/12 11:10		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/21/12 11:10		
Alkalinity, Total as CaCO3	ND	mg/L	20.0	1		09/21/12 11:10		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**2210**	mg/L	5.0	1		09/17/12 14:56		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**1130**	mg/L	5.0	1		09/17/12 09:55		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/17/12 13:11	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	ND	mg/L	1.0	1		09/26/12 10:54	16887-00-6	
Sulfate	**1530**	mg/L	200	200		09/27/12 13:47	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/19/12 16:05		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/24/12 17:39	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.2**	mg/L	1.0	1		09/27/12 22:23	7440-44-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: GW-7_20120911 **Lab ID: 60128986017** Collected: 09/11/12 14:00 Received: 09/14/12 10:15 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	**271000**	ug/L	500	5	09/21/12 15:50	09/25/12 14:27	7440-70-2	B
Magnesium, Dissolved	**27900**	ug/L	250	5	09/21/12 15:50	09/25/12 14:27	7439-95-4	
Potassium, Dissolved	**2870**	ug/L	1000	2	09/21/12 15:50	09/27/12 10:03	7440-09-7	
Sodium, Dissolved	**6380**	ug/L	2500	5	09/21/12 15:50	09/25/12 14:27	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	**5510**	ug/L	4.0	1	09/26/12 13:23	10/02/12 23:28	7429-90-5	
Antimony	ND	ug/L	0.50	1	09/26/12 13:23	10/02/12 23:28	7440-36-0	
Arsenic	**7.2**	ug/L	0.50	1	09/26/12 13:23	10/02/12 23:28	7440-38-2	
Barium	**27.0**	ug/L	0.30	1	09/26/12 13:23	10/02/12 23:28	7440-39-3	
Beryllium	**0.66**	ug/L	0.20	1	09/26/12 13:23	10/02/12 23:28	7440-41-7	
Cadmium	**5.0**	ug/L	0.080	1	09/26/12 13:23	10/02/12 23:28	7440-43-9	
Calcium	**227000**	ug/L	400	20	09/26/12 13:23	10/06/12 20:54	7440-70-2	
Chromium	**7.8**	ug/L	0.50	1	09/26/12 13:23	10/02/12 23:28	7440-47-3	
Cobalt	**2.5**	ug/L	0.50	1	09/26/12 13:23	10/02/12 23:28	7440-48-4	
Copper	**79.6**	ug/L	0.50	1	09/26/12 13:23	10/02/12 23:28	7440-50-8	
Iron	**13300**	ug/L	50.0	1	09/26/12 13:23	10/02/12 23:28	7439-89-6	
Lead	**316**	ug/L	2.0	20	09/26/12 13:23	10/07/12 18:09	7439-92-1	
Magnesium	**28600**	ug/L	100	20	09/26/12 13:23	10/07/12 18:09	7439-95-4	
Manganese	**109**	ug/L	0.50	1	09/26/12 13:23	10/02/12 23:28	7439-96-5	
Molybdenum	**2.6**	ug/L	0.50	1	09/26/12 13:23	10/02/12 23:28	7439-98-7	
Nickel	**7.4**	ug/L	0.50	1	09/26/12 13:23	10/02/12 23:28	7440-02-0	
Potassium	**3220**	ug/L	20.0	1	09/26/12 13:23	10/02/12 23:28	7440-09-7	
Selenium	**4.6**	ug/L	0.50	1	09/26/12 13:23	10/02/12 23:28	7782-49-2	
Silica	**23800**	ug/L	1070	20	09/26/12 13:23	10/06/12 20:54	7631-86-9	
Silver	**1.2**	ug/L	0.50	1	09/26/12 13:23	10/02/12 23:28	7440-22-4	
Sodium	**7030**	ug/L	50.0	1	09/26/12 13:23	10/02/12 23:28	7440-23-5	
Thallium	ND	ug/L	2.0	20	09/26/12 13:23	10/06/12 20:54	7440-28-0	
Total Hardness by 2340B	**685000**	ug/L	1420	20	09/26/12 13:23	10/07/12 18:09		
Vanadium	**6.3**	ug/L	0.10	1	09/26/12 13:23	10/02/12 23:28	7440-62-2	
Zinc	**501**	ug/L	100	20	09/26/12 13:23	10/07/12 18:09	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	**65.8**	ug/L	4.0	1	09/25/12 14:11	10/03/12 16:34	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	09/28/12 08:24	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	10/02/12 07:24	7440-38-2	B
Barium, Dissolved	**13.0**	ug/L	0.30	1	09/25/12 14:11	09/28/12 08:24	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	09/25/12 14:11	10/02/12 07:24	7440-41-7	
Cadmium, Dissolved	**3.7**	ug/L	0.080	1	09/25/12 14:11	09/28/12 08:24	7440-43-9	
Calcium, Dissolved	**299000**	ug/L	400	20	09/25/12 14:11	10/03/12 16:40	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	10/02/12 07:24	7440-47-3	
Cobalt, Dissolved	**0.79**	ug/L	0.50	1	09/25/12 14:11	10/02/12 07:24	7440-48-4	
Copper, Dissolved	**6.7**	ug/L	0.50	1	09/25/12 14:11	10/02/12 07:24	7440-50-8	
Iron, Dissolved	ND	ug/L	50.0	1	09/25/12 14:11	10/02/12 07:24	7439-89-6	
Lead, Dissolved	**4.4**	ug/L	0.10	1	09/25/12 14:11	09/28/12 08:24	7439-92-1	
Magnesium, Dissolved	**40200**	ug/L	100	20	09/25/12 14:11	10/02/12 07:30	7439-95-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: GW-7_20120911 **Lab ID: 60128986017** Collected: 09/11/12 14:00 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	**24.2**	ug/L	0.50	1	09/25/12 14:11	10/02/12 07:24	7439-96-5	
Molybdenum, Dissolved	**1.1**	ug/L	0.50	1	09/25/12 14:11	10/02/12 07:24	7439-98-7	
Nickel, Dissolved	**2.8**	ug/L	0.50	1	09/25/12 14:11	10/02/12 07:24	7440-02-0	
Potassium, Dissolved	**2620**	ug/L	20.0	1	09/25/12 14:11	10/02/12 07:24	7440-09-7	
Selenium, Dissolved	**1.6**	ug/L	0.50	1	09/25/12 14:11	10/02/12 07:24	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	09/28/12 08:24	7440-22-4	
Sodium, Dissolved	**7420**	ug/L	50.0	1	09/25/12 14:11	10/02/12 07:24	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/25/12 14:11	09/28/12 08:24	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	09/25/12 14:11	10/02/12 07:24	7440-62-2	
Zinc, Dissolved	**187**	ug/L	5.0	1	09/25/12 14:11	10/02/12 07:24	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**4790**	ug/L	250	5	09/21/12 16:55	09/25/12 17:06	7429-90-5	
Antimony, Dissolved	ND	ug/L	5.0	5	09/21/12 16:55	09/25/12 17:06	7440-36-0	D3
Arsenic, Dissolved	**4.4**	ug/L	1.0	1	09/21/12 16:55	09/25/12 20:32	7440-38-2	
Barium, Dissolved	**17.2**	ug/L	5.0	5	09/21/12 16:55	09/25/12 17:06	7440-39-3	B
Beryllium, Dissolved	**0.73**	ug/L	0.50	1	09/21/12 16:55	09/25/12 20:32	7440-41-7	
Cadmium, Dissolved	**4.4**	ug/L	0.50	1	09/21/12 16:55	09/25/12 20:32	7440-43-9	
Chromium, Dissolved	**5.9**	ug/L	5.0	5	09/21/12 16:55	09/25/12 17:06	7440-47-3	B
Cobalt, Dissolved	**2.5J**	ug/L	5.0	5	09/21/12 16:55	09/25/12 17:06	7440-48-4	
Copper, Dissolved	**113**	ug/L	5.0	5	09/21/12 16:55	09/25/12 17:06	7440-50-8	
Iron, Dissolved	**11400**	ug/L	50.0	1	09/21/12 16:55	09/25/12 20:32	7439-89-6	B
Lead, Dissolved	**437**	ug/L	5.0	5	09/21/12 16:55	09/25/12 17:06	7439-92-1	
Manganese, Dissolved	**65.5**	ug/L	1.0	1	09/21/12 16:55	09/25/12 20:32	7439-96-5	B
Molybdenum, Dissolved	**0.69J**	ug/L	1.0	1	09/21/12 16:55	09/25/12 20:32	7439-98-7	
Nickel, Dissolved	**4.9**	ug/L	1.0	1	09/21/12 16:55	09/25/12 20:32	7440-02-0	
Selenium, Dissolved	**2.5**	ug/L	1.0	1	09/21/12 16:55	09/25/12 20:32	7782-49-2	
Silver, Dissolved	**0.53**	ug/L	0.50	1	09/21/12 16:55	09/25/12 20:32	7440-22-4	
Thallium, Dissolved	**0.18J**	ug/L	5.0	5	09/21/12 16:55	09/25/12 17:06	7440-28-0	
Vanadium, Dissolved	**0.88J**	ug/L	1.0	1	09/21/12 16:55	09/25/12 20:32	7440-62-2	
Zinc, Dissolved	**513**	ug/L	10.0	1	09/21/12 16:55	09/25/12 20:32	7440-66-6	B
245.1 Mercury	Analytical Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/26/12 15:15	10/02/12 13:48	7439-97-6	B
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/20/12 00:00	10/04/12 13:18	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	09/21/12 15:00	09/24/12 12:45	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**1310**	umhos/cm	10.0	1		09/21/12 16:16		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**840**	mg/L	6.0	1		09/23/12 09:54		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: GW-7_20120911 **Lab ID: 60128986017** Collected: 09/11/12 14:00 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.65**	PSU	0.010	1		09/23/12 09:54		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**246**	mg/L	20.0	1		09/21/12 11:15		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/21/12 11:15		
Alkalinity, Total as CaCO3	**246**	mg/L	20.0	1		09/21/12 11:15		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1080**	mg/L	5.0	1		09/17/12 14:57		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**368**	mg/L	5.0	1		09/17/12 09:55		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/17/12 13:20	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	ND	mg/L	1.0	1		09/26/12 11:25	16887-00-6	
Sulfate	**534**	mg/L	100	100		09/26/12 12:13	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**0.50**	mg/L	0.10	1		09/19/12 16:06		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/24/12 17:40	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		09/27/12 23:06	7440-44-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: EB-1_20120911 **Lab ID: 60128986018** Collected: 09/11/12 13:51 Received: 09/14/12 10:15 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	**480000**	ug/L	500	5	09/21/12 15:50	09/25/12 14:29	7440-70-2	B
Magnesium, Dissolved	**32200**	ug/L	250	5	09/21/12 15:50	09/25/12 14:29	7439-95-4	
Potassium, Dissolved	**4390**	ug/L	2500	5	09/21/12 15:50	09/25/12 14:29	7440-09-7	
Sodium, Dissolved	**6260**	ug/L	2500	5	09/21/12 15:50	09/25/12 14:29	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	**677**	ug/L	4.0	1	09/26/12 13:23	10/02/12 23:39	7429-90-5	
Antimony	ND	ug/L	0.50	1	09/26/12 13:23	10/02/12 23:39	7440-36-0	
Arsenic	**6.7**	ug/L	0.50	1	09/26/12 13:23	10/02/12 23:39	7440-38-2	
Barium	**21.0**	ug/L	0.30	1	09/26/12 13:23	10/02/12 23:39	7440-39-3	
Beryllium	**0.23**	ug/L	0.20	1	09/26/12 13:23	10/02/12 23:39	7440-41-7	
Cadmium	**1.5**	ug/L	0.080	1	09/26/12 13:23	10/02/12 23:39	7440-43-9	
Calcium	**395000**	ug/L	400	20	09/26/12 13:23	10/06/12 21:06	7440-70-2	
Chromium	**0.78**	ug/L	0.50	1	09/26/12 13:23	10/02/12 23:39	7440-47-3	
Cobalt	**6.5**	ug/L	0.50	1	09/26/12 13:23	10/02/12 23:39	7440-48-4	
Copper	**31.0**	ug/L	0.50	1	09/26/12 13:23	10/02/12 23:39	7440-50-8	
Iron	**9470**	ug/L	50.0	1	09/26/12 13:23	10/02/12 23:39	7439-89-6	
Lead	**193**	ug/L	2.0	20	09/26/12 13:23	10/07/12 18:15	7439-92-1	
Magnesium	**31700**	ug/L	100	20	09/26/12 13:23	10/07/12 18:15	7439-95-4	
Manganese	**5050**	ug/L	25.0	50	09/26/12 13:23	10/02/12 23:51	7439-96-5	
Molybdenum	**13.4**	ug/L	0.50	1	09/26/12 13:23	10/02/12 23:39	7439-98-7	
Nickel	**6.6**	ug/L	0.50	1	09/26/12 13:23	10/02/12 23:39	7440-02-0	
Potassium	**6010**	ug/L	20.0	1	09/26/12 13:23	10/02/12 23:39	7440-09-7	
Selenium	ND	ug/L	0.50	1	09/26/12 13:23	10/02/12 23:39	7782-49-2	
Silica	**25400**	ug/L	1070	20	09/26/12 13:23	10/06/12 21:06	7631-86-9	
Silver	**1.0**	ug/L	0.50	1	09/26/12 13:23	10/02/12 23:39	7440-22-4	
Sodium	**6630**	ug/L	50.0	1	09/26/12 13:23	10/02/12 23:39	7440-23-5	
Thallium	ND	ug/L	0.10	1	09/26/12 13:23	10/06/12 21:01	7440-28-0	
Total Hardness by 2340B	**1120000**	ug/L	1420	20	09/26/12 13:23	10/07/12 18:15		
Vanadium	**1.1**	ug/L	0.10	1	09/26/12 13:23	10/02/12 23:39	7440-62-2	
Zinc	**1800**	ug/L	100	20	09/26/12 13:23	10/07/12 18:15	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	**22.8**	ug/L	4.0	1	09/25/12 14:11	10/03/12 16:46	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	09/28/12 08:36	7440-36-0	
Arsenic, Dissolved	**2.7**	ug/L	0.50	1	09/25/12 14:11	10/02/12 07:54	7440-38-2	
Barium, Dissolved	**14.7**	ug/L	0.30	1	09/25/12 14:11	09/28/12 08:36	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	09/25/12 14:11	10/02/12 07:54	7440-41-7	
Cadmium, Dissolved	**0.088**	ug/L	0.080	1	09/25/12 14:11	09/28/12 08:36	7440-43-9	
Calcium, Dissolved	**534000**	ug/L	1000	50	09/25/12 14:11	10/03/12 16:52	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	10/02/12 07:54	7440-47-3	
Cobalt, Dissolved	**5.8**	ug/L	0.50	1	09/25/12 14:11	10/02/12 07:54	7440-48-4	
Copper, Dissolved	**1.3**	ug/L	0.50	1	09/25/12 14:11	10/02/12 07:54	7440-50-8	B
Iron, Dissolved	**6680**	ug/L	50.0	1	09/25/12 14:11	10/02/12 07:54	7439-89-6	
Lead, Dissolved	**3.3**	ug/L	0.10	1	09/25/12 14:11	10/03/12 16:46	7439-92-1	
Magnesium, Dissolved	**47200**	ug/L	100	20	09/25/12 14:11	10/02/12 08:00	7439-95-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: EB-1_20120911 **Lab ID: 60128986018** Collected: 09/11/12 13:51 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	**7190**	ug/L	10.0	20	09/25/12 14:11	10/02/12 08:00	7439-96-5	
Molybdenum, Dissolved	**13.9**	ug/L	0.50	1	09/25/12 14:11	10/02/12 07:54	7439-98-7	
Nickel, Dissolved	**7.4**	ug/L	0.50	1	09/25/12 14:11	10/02/12 07:54	7440-02-0	
Potassium, Dissolved	**6250**	ug/L	20.0	1	09/25/12 14:11	10/02/12 07:54	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	10/02/12 07:54	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/25/12 14:11	09/28/12 08:36	7440-22-4	
Sodium, Dissolved	**7040**	ug/L	50.0	1	09/25/12 14:11	10/02/12 07:54	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/25/12 14:11	10/03/12 16:46	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	09/25/12 14:11	10/02/12 07:54	7440-62-2	
Zinc, Dissolved	**2280**	ug/L	100	20	09/25/12 14:11	10/02/12 08:00	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**391**	ug/L	250	5	09/21/12 16:55	09/25/12 17:10	7429-90-5	
Antimony, Dissolved	ND	ug/L	5.0	5	09/21/12 16:55	09/25/12 17:10	7440-36-0	D3
Arsenic, Dissolved	**5.6**	ug/L	1.0	1	09/21/12 16:55	09/25/12 20:36	7440-38-2	
Barium, Dissolved	**16.1**	ug/L	5.0	5	09/21/12 16:55	09/25/12 17:10	7440-39-3	B
Beryllium, Dissolved	**0.21J**	ug/L	0.50	1	09/21/12 16:55	09/25/12 20:36	7440-41-7	
Cadmium, Dissolved	**1.3**	ug/L	0.50	1	09/21/12 16:55	09/25/12 20:36	7440-43-9	
Chromium, Dissolved	**1.6J**	ug/L	5.0	5	09/21/12 16:55	09/25/12 17:10	7440-47-3	B
Cobalt, Dissolved	**6.2**	ug/L	5.0	5	09/21/12 16:55	09/25/12 17:10	7440-48-4	
Copper, Dissolved	**26.2**	ug/L	5.0	5	09/21/12 16:55	09/25/12 17:10	7440-50-8	
Iron, Dissolved	**7850**	ug/L	50.0	1	09/21/12 16:55	09/25/12 20:36	7439-89-6	B
Lead, Dissolved	**178**	ug/L	5.0	5	09/21/12 16:55	09/25/12 17:10	7439-92-1	
Manganese, Dissolved	**4820**	ug/L	1.0	1	09/21/12 16:55	09/25/12 20:36	7439-96-5	B
Molybdenum, Dissolved	**12.7**	ug/L	1.0	1	09/21/12 16:55	09/25/12 20:36	7439-98-7	
Nickel, Dissolved	**3.2**	ug/L	1.0	1	09/21/12 16:55	09/25/12 20:36	7440-02-0	
Selenium, Dissolved	ND	ug/L	1.0	1	09/21/12 16:55	09/25/12 20:36	7782-49-2	
Silver, Dissolved	**0.069J**	ug/L	0.50	1	09/21/12 16:55	09/25/12 20:36	7440-22-4	
Thallium, Dissolved	ND	ug/L	5.0	5	09/21/12 16:55	09/25/12 17:10	7440-28-0	D3
Vanadium, Dissolved	**0.63J**	ug/L	1.0	1	09/21/12 16:55	09/25/12 20:36	7440-62-2	
Zinc, Dissolved	**1720**	ug/L	10.0	1	09/21/12 16:55	09/25/12 20:36	7440-66-6	B
245.1 Mercury	Analytical Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/26/12 15:15	10/02/12 13:51	7439-97-6	B
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/20/12 00:00	10/04/12 13:20	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	09/21/12 15:00	09/24/12 12:47	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**2130**	umhos/cm	10.0	1		09/21/12 16:16		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**1370**	mg/L	6.0	1		09/23/12 09:54		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: EB-1_20120911 **Lab ID: 60128986018** Collected: 09/11/12 13:51 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**1.1**	PSU	0.010	1		09/23/12 09:54		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**189**	mg/L	20.0	1		09/26/12 08:01		H1
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/26/12 08:01		H1
Alkalinity, Total as CaCO3	**189**	mg/L	20.0	1		09/26/12 08:01		H1
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1950**	mg/L	5.0	1		09/17/12 14:58		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**41.0**	mg/L	5.0	1		09/17/12 09:55		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	**0.091**	mg/L	0.050	1		09/17/12 13:20	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	ND	mg/L	1.0	1		09/26/12 12:29	16887-00-6	
Sulfate	**1120**	mg/L	100	100		09/26/12 12:45	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/19/12 16:06		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/24/12 17:40	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		09/27/12 23:20	7440-44-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: EB-2_20120911 **Lab ID: 60128986019** Collected: 09/11/12 15:43 Received: 09/14/12 10:15 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	**356000**	ug/L	500	5	09/21/12 15:50	09/25/12 14:31	7440-70-2	B
Magnesium, Dissolved	**147000**	ug/L	250	5	09/21/12 15:50	09/25/12 14:31	7439-95-4	
Potassium, Dissolved	**11700**	ug/L	2500	5	09/21/12 15:50	09/25/12 14:31	7440-09-7	
Sodium, Dissolved	**6000**	ug/L	2500	5	09/21/12 15:50	09/25/12 14:31	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	**18200**	ug/L	20.0	5	10/09/12 11:01	10/10/12 11:25	7429-90-5	
Antimony	ND	ug/L	2.5	5	10/09/12 11:01	10/10/12 11:25	7440-36-0	D3
Arsenic	**186**	ug/L	2.5	5	10/09/12 11:01	10/10/12 11:25	7440-38-2	
Barium	**12.8**	ug/L	1.5	5	10/09/12 11:01	10/10/12 11:25	7440-39-3	
Beryllium	**8.2**	ug/L	1.0	5	10/09/12 11:01	10/10/12 11:25	7440-41-7	
Cadmium	**1.3**	ug/L	0.40	5	10/09/12 11:01	10/10/12 11:25	7440-43-9	
Calcium	**365000**	ug/L	1000	50	10/09/12 11:01	10/10/12 11:30	7440-70-2	
Chromium	ND	ug/L	2.5	5	10/09/12 11:01	10/10/12 11:25	7440-47-3	D3
Cobalt	**83.5**	ug/L	2.5	5	10/09/12 11:01	10/10/12 11:25	7440-48-4	
Copper	**16.2**	ug/L	2.5	5	10/09/12 11:01	10/10/12 11:25	7440-50-8	
Iron	**630000**	ug/L	2500	50	10/09/12 11:01	10/10/12 11:30	7439-89-6	
Lead	**128**	ug/L	0.50	5	10/09/12 11:01	10/10/12 11:25	7439-92-1	
Magnesium	**154000**	ug/L	250	50	10/09/12 11:01	10/10/12 11:30	7439-95-4	
Manganese	**33300**	ug/L	100	200	10/09/12 11:01	10/10/12 11:34	7439-96-5	
Molybdenum	**3.4**	ug/L	2.5	5	10/09/12 11:01	10/10/12 11:25	7439-98-7	
Nickel	**117**	ug/L	2.5	5	10/09/12 11:01	10/10/12 11:25	7440-02-0	
Potassium	**14300**	ug/L	100	5	10/09/12 11:01	10/10/12 11:25	7440-09-7	
Selenium	ND	ug/L	2.5	5	10/09/12 11:01	10/10/12 11:25	7782-49-2	D3
Silica	**36300**	ug/L	2680	50	10/09/12 11:01	10/10/12 11:30	7631-86-9	
Silver	ND	ug/L	2.5	5	10/09/12 11:01	10/10/12 11:25	7440-22-4	D3
Sodium	**6800**	ug/L	250	5	10/09/12 11:01	10/10/12 11:25	7440-23-5	
Thallium	ND	ug/L	0.50	5	10/09/12 11:01	10/10/12 11:25	7440-28-0	D3
Total Hardness by 2340B	**1550000**	ug/L	3550	50	10/09/12 11:01	10/10/12 11:30		
Vanadium	**0.50**	ug/L	0.50	5	10/09/12 11:01	10/10/12 11:25	7440-62-2	
Zinc	**58200**	ug/L	1000	200	10/09/12 11:01	10/10/12 11:34	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	**17100**	ug/L	20.0	5	09/27/12 15:11	10/07/12 00:51	7429-90-5	M6
Antimony, Dissolved	ND	ug/L	2.5	5	09/27/12 15:11	10/07/12 00:51	7440-36-0	
Arsenic, Dissolved	**159**	ug/L	2.5	5	09/27/12 15:11	10/07/12 00:51	7440-38-2	
Barium, Dissolved	**9.3**	ug/L	1.5	5	09/27/12 15:11	10/07/12 00:51	7440-39-3	
Beryllium, Dissolved	ND	ug/L	4.0	20	09/27/12 15:11	10/08/12 13:31	7440-41-7	
Cadmium, Dissolved	**0.66**	ug/L	0.40	5	09/27/12 15:11	10/07/12 00:51	7440-43-9	
Calcium, Dissolved	**398000**	ug/L	500	25	09/27/12 15:11	10/07/12 00:56	7440-70-2	M6
Chromium, Dissolved	ND	ug/L	2.5	5	09/27/12 15:11	10/07/12 00:51	7440-47-3	
Cobalt, Dissolved	**84.4**	ug/L	2.5	5	09/27/12 15:11	10/07/12 00:51	7440-48-4	
Copper, Dissolved	ND	ug/L	2.5	5	09/27/12 15:11	10/07/12 00:51	7440-50-8	
Iron, Dissolved	**630000**	ug/L	5000	100	09/27/12 15:11	10/07/12 01:02	7439-89-6	M6
Lead, Dissolved	ND	ug/L	0.50	5	09/27/12 15:11	10/07/12 00:51	7439-92-1	
Magnesium, Dissolved	**156000**	ug/L	500	100	09/27/12 15:11	10/07/12 01:02	7439-95-4	M6

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: EB-2_20120911 **Lab ID: 60128986019** Collected: 09/11/12 15:43 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	**33300**	ug/L	50.0	100	09/27/12 15:11	10/07/12 01:02	7439-96-5	M6
Molybdenum, Dissolved	**3.6**	ug/L	2.5	5	09/27/12 15:11	10/07/12 00:51	7439-98-7	
Nickel, Dissolved	**125**	ug/L	2.5	5	09/27/12 15:11	10/07/12 00:51	7440-02-0	
Potassium, Dissolved	**14600**	ug/L	100	5	09/27/12 15:11	10/07/12 00:51	7440-09-7	
Selenium, Dissolved	ND	ug/L	2.5	5	09/27/12 15:11	10/07/12 00:51	7782-49-2	
Silver, Dissolved	ND	ug/L	2.5	5	09/27/12 15:11	10/07/12 00:51	7440-22-4	
Sodium, Dissolved	**7050**	ug/L	250	5	09/27/12 15:11	10/07/12 00:51	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.50	5	09/27/12 15:11	10/07/12 00:51	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.50	5	09/27/12 15:11	10/07/12 00:51	7440-62-2	
Zinc, Dissolved	**61500**	ug/L	2500	500	09/27/12 15:11	10/07/12 22:39	7440-66-6	M6
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**17400**	ug/L	500	10	09/21/12 16:55	09/25/12 17:14	7429-90-5	
Antimony, Dissolved	ND	ug/L	10.0	10	09/21/12 16:55	09/25/12 17:14	7440-36-0	D3
Arsenic, Dissolved	**186**	ug/L	1.0	1	09/21/12 16:55	09/25/12 22:16	7440-38-2	
Barium, Dissolved	**10J**	ug/L	10.0	10	09/21/12 16:55	09/25/12 17:14	7440-39-3	B
Beryllium, Dissolved	**7.4**	ug/L	5.0	10	09/21/12 16:55	09/25/12 17:14	7440-41-7	
Cadmium, Dissolved	**1.2**	ug/L	0.50	1	09/21/12 16:55	09/25/12 22:16	7440-43-9	
Chromium, Dissolved	**1.0**	ug/L	1.0	1	09/21/12 16:55	09/25/12 22:16	7440-47-3	B
Cobalt, Dissolved	**80.6**	ug/L	1.0	1	09/21/12 16:55	09/25/12 22:16	7440-48-4	
Copper, Dissolved	**13.3**	ug/L	1.0	1	09/21/12 16:55	09/25/12 22:16	7440-50-8	
Iron, Dissolved	**639000**	ug/L	500	10	09/21/12 16:55	09/25/12 17:14	7439-89-6	B
Lead, Dissolved	**134**	ug/L	10.0	10	09/21/12 16:55	09/25/12 17:14	7439-92-1	
Manganese, Dissolved	**33800**	ug/L	10.0	10	09/21/12 16:55	09/25/12 17:14	7439-96-5	B
Molybdenum, Dissolved	**3.3**	ug/L	1.0	1	09/21/12 16:55	09/25/12 22:16	7439-98-7	
Nickel, Dissolved	**125**	ug/L	10.0	10	09/21/12 16:55	09/25/12 17:14	7440-02-0	
Selenium, Dissolved	**0.70J**	ug/L	1.0	1	09/21/12 16:55	09/25/12 22:16	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/21/12 16:55	09/25/12 22:16	7440-22-4	
Thallium, Dissolved	ND	ug/L	10.0	10	09/21/12 16:55	09/25/12 17:14	7440-28-0	D3
Vanadium, Dissolved	ND	ug/L	1.0	1	09/21/12 16:55	09/25/12 22:16	7440-62-2	
Zinc, Dissolved	**61000**	ug/L	100	10	09/21/12 16:55	09/25/12 17:14	7440-66-6	B
245.1 Mercury	Analytical Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/26/12 15:15	10/02/12 13:53	7439-97-6	B
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/20/12 00:00	10/04/12 13:22	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	09/21/12 15:00	09/24/12 12:49	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**3450**	umhos/cm	10.0	1		09/21/12 16:17		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**2210**	mg/L	6.0	1		09/23/12 09:54		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: EB-2_20120911 **Lab ID: 60128986019** Collected: 09/11/12 15:43 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**1.8**	PSU	0.010	1		09/23/12 09:54		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	20.0	1		09/26/12 08:08		H1
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/26/12 08:08		H1
Alkalinity, Total as CaCO3	ND	mg/L	20.0	1		09/26/12 08:08		H1
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**4340**	mg/L	5.0	1		09/17/12 14:58		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**126**	mg/L	5.0	1		09/17/12 09:56		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/17/12 13:21	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**4.7**	mg/L	1.0	1		09/26/12 13:01	16887-00-6	
Sulfate	**3260**	mg/L	500	500		09/27/12 02:35	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/19/12 16:07		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/24/12 17:43	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		09/27/12 23:34	7440-44-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: MW-1-DEEP_20120911 **Lab ID: 60128986020** Collected: 09/13/12 09:02 Received: 09/14/12 10:15 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	**130000**	ug/L	500	5	09/21/12 15:50	09/25/12 14:33	7440-70-2	B
Magnesium, Dissolved	**11800**	ug/L	250	5	09/21/12 15:50	09/25/12 14:33	7439-95-4	
Potassium, Dissolved	**7290**	ug/L	2500	5	09/21/12 15:50	09/25/12 14:33	7440-09-7	
Sodium, Dissolved	**14500**	ug/L	2500	5	09/21/12 15:50	09/25/12 14:33	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	**137**	ug/L	4.0	1	09/26/12 13:18	10/05/12 22:33	7429-90-5	M1
Antimony	ND	ug/L	0.50	1	09/26/12 13:18	10/05/12 22:33	7440-36-0	
Arsenic	**0.74**	ug/L	0.50	1	09/26/12 13:18	10/05/12 22:33	7440-38-2	
Barium	**17.9**	ug/L	0.30	1	09/26/12 13:18	10/05/12 22:33	7440-39-3	
Beryllium	ND	ug/L	0.20	1	09/26/12 13:18	10/05/12 22:33	7440-41-7	
Cadmium	**1.4**	ug/L	0.080	1	09/26/12 13:18	10/05/12 22:33	7440-43-9	
Calcium	**124000**	ug/L	400	20	09/26/12 13:18	10/07/12 02:04	7440-70-2	M1
Chromium	**3.1**	ug/L	0.50	1	09/26/12 13:18	10/05/12 22:33	7440-47-3	
Cobalt	ND	ug/L	0.50	1	09/26/12 13:18	10/05/12 22:33	7440-48-4	
Copper	**5.0**	ug/L	0.50	1	09/26/12 13:18	10/05/12 22:33	7440-50-8	
Iron	**387**	ug/L	50.0	1	09/26/12 13:18	10/05/12 22:33	7439-89-6	
Lead	**6.6**	ug/L	0.10	1	09/26/12 13:18	10/05/12 22:33	7439-92-1	
Magnesium	**10900**	ug/L	100	20	09/26/12 13:18	10/07/12 02:04	7439-95-4	M6
Manganese	**51.2**	ug/L	0.50	1	09/26/12 13:18	10/05/12 22:33	7439-96-5	
Molybdenum	**7.1**	ug/L	0.50	1	09/26/12 13:18	10/05/12 22:33	7439-98-7	
Nickel	**0.86**	ug/L	0.50	1	09/26/12 13:18	10/05/12 22:33	7440-02-0	
Potassium	**8250**	ug/L	400	20	09/26/12 13:18	10/07/12 02:04	7440-09-7	M6
Selenium	**6.0**	ug/L	0.50	1	09/26/12 13:18	10/05/12 22:33	7782-49-2	
Silica	**10600**	ug/L	268	5	09/26/12 13:18	10/08/12 05:53	7631-86-9	
Silver	ND	ug/L	0.50	1	09/26/12 13:18	10/05/12 22:33	7440-22-4	
Sodium	**16600**	ug/L	50.0	1	09/26/12 13:18	10/05/12 22:33	7440-23-5	M1
Thallium	ND	ug/L	0.50	5	09/26/12 13:18	10/05/12 22:39	7440-28-0	
Total Hardness by 2340B	**355000**	ug/L	1420	20	09/26/12 13:18	10/07/12 02:04		
Vanadium	**0.82**	ug/L	0.10	1	09/26/12 13:18	10/05/12 22:33	7440-62-2	
Zinc	**2250**	ug/L	25.0	5	09/26/12 13:18	10/05/12 22:39	7440-66-6	M1
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	**20.8**	ug/L	4.0	1	09/27/12 15:11	10/07/12 22:57	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/07/12 01:19	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/07/12 01:19	7440-38-2	
Barium, Dissolved	**15.5**	ug/L	0.30	1	09/27/12 15:11	10/07/12 01:19	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	09/27/12 15:11	10/07/12 01:19	7440-41-7	
Cadmium, Dissolved	**1.2**	ug/L	0.080	1	09/27/12 15:11	10/07/12 01:19	7440-43-9	
Calcium, Dissolved	**138000**	ug/L	400	20	09/27/12 15:11	10/07/12 23:02	7440-70-2	
Chromium, Dissolved	**2.7**	ug/L	0.50	1	09/27/12 15:11	10/07/12 22:57	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/07/12 01:19	7440-48-4	
Copper, Dissolved	**1.9**	ug/L	0.50	1	09/27/12 15:11	10/07/12 01:19	7440-50-8	
Iron, Dissolved	**70.4**	ug/L	50.0	1	09/27/12 15:11	10/07/12 22:57	7439-89-6	
Lead, Dissolved	**1.1**	ug/L	0.10	1	09/27/12 15:11	10/07/12 01:19	7439-92-1	
Magnesium, Dissolved	**7040**	ug/L	100	20	09/27/12 15:11	10/08/12 13:47	7439-95-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: MW-1-DEEP_20120911 **Lab ID: 60128986020** Collected: 09/13/12 09:02 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	**15.9**	ug/L	0.50	1	09/27/12 15:11	10/07/12 22:57	7439-96-5	
Molybdenum, Dissolved	**6.8**	ug/L	0.50	1	09/27/12 15:11	10/07/12 01:19	7439-98-7	
Nickel, Dissolved	**2.5**	ug/L	0.50	1	09/27/12 15:11	10/07/12 01:19	7440-02-0	
Potassium, Dissolved	**9240**	ug/L	20.0	1	09/27/12 15:11	10/07/12 22:57	7440-09-7	
Selenium, Dissolved	**6.4**	ug/L	0.50	1	09/27/12 15:11	10/07/12 01:19	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/07/12 01:19	7440-22-4	
Sodium, Dissolved	**16500**	ug/L	50.0	1	09/27/12 15:11	10/07/12 22:57	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/27/12 15:11	10/07/12 01:19	7440-28-0	
Vanadium, Dissolved	**0.55**	ug/L	0.10	1	09/27/12 15:11	10/07/12 22:57	7440-62-2	
Zinc, Dissolved	**2320**	ug/L	100	20	09/27/12 15:11	10/07/12 23:02	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**78.4J**	ug/L	250	5	09/21/12 16:55	09/25/12 17:18	7429-90-5	
Antimony, Dissolved	**0.29J**	ug/L	5.0	5	09/21/12 16:55	09/25/12 17:18	7440-36-0	
Arsenic, Dissolved	**0.80J**	ug/L	1.0	1	09/21/12 16:55	09/25/12 20:40	7440-38-2	
Barium, Dissolved	**16.1**	ug/L	5.0	5	09/21/12 16:55	09/25/12 17:18	7440-39-3	B
Beryllium, Dissolved	ND	ug/L	0.50	1	09/21/12 16:55	09/25/12 20:40	7440-41-7	
Cadmium, Dissolved	**1.4**	ug/L	0.50	1	09/21/12 16:55	09/25/12 20:40	7440-43-9	
Chromium, Dissolved	**3.5J**	ug/L	5.0	5	09/21/12 16:55	09/25/12 17:18	7440-47-3	B
Cobalt, Dissolved	ND	ug/L	5.0	5	09/21/12 16:55	09/25/12 17:18	7440-48-4	D3
Copper, Dissolved	**5.5**	ug/L	5.0	5	09/21/12 16:55	09/25/12 17:18	7440-50-8	
Iron, Dissolved	**361**	ug/L	50.0	1	09/21/12 16:55	09/25/12 20:40	7439-89-6	B
Lead, Dissolved	**7.7**	ug/L	5.0	5	09/21/12 16:55	09/25/12 17:18	7439-92-1	
Manganese, Dissolved	**56.0**	ug/L	1.0	1	09/21/12 16:55	09/25/12 20:40	7439-96-5	B
Molybdenum, Dissolved	**6.4**	ug/L	1.0	1	09/21/12 16:55	09/25/12 20:40	7439-98-7	
Nickel, Dissolved	ND	ug/L	1.0	1	09/21/12 16:55	09/25/12 20:40	7440-02-0	
Selenium, Dissolved	**5.3**	ug/L	1.0	1	09/21/12 16:55	09/25/12 20:40	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/21/12 16:55	09/25/12 20:40	7440-22-4	
Thallium, Dissolved	ND	ug/L	5.0	5	09/21/12 16:55	09/25/12 17:18	7440-28-0	D3
Vanadium, Dissolved	ND	ug/L	1.0	1	09/21/12 16:55	09/25/12 20:40	7440-62-2	
Zinc, Dissolved	**2190**	ug/L	10.0	1	09/21/12 16:55	09/25/12 20:40	7440-66-6	B
245.1 Mercury	Analytical Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/26/12 15:15	10/02/12 13:56	7439-97-6	B
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/20/12 00:00	10/04/12 13:24	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	09/21/12 15:00	09/24/12 12:52	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**790**	umhos/cm	10.0	1		09/21/12 16:18		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**505**	mg/L	6.0	1		09/23/12 09:54		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: MW-1-DEEP_20120911 **Lab ID: 60128986020** Collected: 09/13/12 09:02 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.39**	PSU	0.010	1		09/23/12 09:54		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**80.0**	mg/L	20.0	1		09/26/12 08:12		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/26/12 08:12		
Alkalinity, Total as CaCO3	**80.0**	mg/L	20.0	1		09/26/12 08:12		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**611**	mg/L	5.0	1		09/20/12 15:30		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**9.0**	mg/L	5.0	1		09/20/12 08:59		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/18/12 15:28	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.6**	mg/L	1.0	1		09/26/12 13:33	16887-00-6	
Sulfate	**336**	mg/L	20.0	20		09/26/12 13:48	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**0.20**	mg/L	0.10	1		09/19/12 16:10		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/24/12 17:43	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		09/27/12 23:48	7440-44-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: MW-1-SHALLOW_20120911 **Lab ID: 60128986021** Collected: 09/13/12 08:45 Received: 09/14/12 10:15 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	**224000**	ug/L	500	5	09/21/12 16:55	09/26/12 11:12	7440-70-2	
Magnesium, Dissolved	**21200**	ug/L	250	5	09/21/12 16:55	09/26/12 11:12	7439-95-4	
Potassium, Dissolved	**2170**	ug/L	1000	2	09/21/12 16:55	09/27/12 10:05	7440-09-7	
Sodium, Dissolved	**9150**	ug/L	2500	5	09/21/12 16:55	09/26/12 11:12	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	**9190**	ug/L	4.0	1	09/26/12 13:18	10/05/12 23:03	7429-90-5	
Antimony	ND	ug/L	0.50	1	09/26/12 13:18	10/05/12 23:03	7440-36-0	
Arsenic	**8.5**	ug/L	0.50	1	09/26/12 13:18	10/05/12 23:03	7440-38-2	
Barium	**129**	ug/L	0.30	1	09/26/12 13:18	10/05/12 23:03	7440-39-3	
Beryllium	**0.86**	ug/L	0.20	1	09/26/12 13:18	10/05/12 23:03	7440-41-7	
Cadmium	**1.1**	ug/L	0.080	1	09/26/12 13:18	10/05/12 23:03	7440-43-9	
Calcium	**220000**	ug/L	400	20	09/26/12 13:18	10/08/12 06:43	7440-70-2	
Chromium	**8.8**	ug/L	0.50	1	09/26/12 13:18	10/05/12 23:03	7440-47-3	
Cobalt	**7.9**	ug/L	0.50	1	09/26/12 13:18	10/05/12 23:03	7440-48-4	
Copper	**37.3**	ug/L	0.50	1	09/26/12 13:18	10/05/12 23:03	7440-50-8	
Iron	**10600**	ug/L	50.0	1	09/26/12 13:18	10/05/12 23:03	7439-89-6	
Lead	**60.9**	ug/L	0.10	1	09/26/12 13:18	10/05/12 23:03	7439-92-1	
Magnesium	**25300**	ug/L	50.0	10	09/26/12 13:18	10/10/12 07:31	7439-95-4	
Manganese	**885**	ug/L	10.0	20	09/26/12 13:18	10/08/12 06:43	7439-96-5	
Molybdenum	**7.9**	ug/L	0.50	1	09/26/12 13:18	10/05/12 23:03	7439-98-7	
Nickel	**9.4**	ug/L	0.50	1	09/26/12 13:18	10/05/12 23:03	7440-02-0	
Potassium	**4020**	ug/L	200	10	09/26/12 13:18	10/10/12 07:31	7440-09-7	
Selenium	**7.2**	ug/L	0.50	1	09/26/12 13:18	10/05/12 23:03	7782-49-2	
Silica	**42700**	ug/L	1070	20	09/26/12 13:18	10/08/12 06:43	7631-86-9	
Silver	ND	ug/L	10.0	20	09/26/12 13:18	10/05/12 23:10	7440-22-4	
Sodium	**10300**	ug/L	50.0	1	09/26/12 13:18	10/05/12 23:03	7440-23-5	
Thallium	ND	ug/L	2.0	20	09/26/12 13:18	10/05/12 23:10	7440-28-0	
Total Hardness by 2340B	**653000**	ug/L	1420	20	09/26/12 13:18	10/08/12 06:43		
Vanadium	**12.8**	ug/L	0.10	1	09/26/12 13:18	10/05/12 23:03	7440-62-2	
Zinc	**166**	ug/L	5.0	1	09/26/12 13:18	10/05/12 23:03	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	**111**	ug/L	4.0	1	09/27/12 15:11	10/07/12 01:49	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/07/12 01:49	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/07/12 01:49	7440-38-2	
Barium, Dissolved	**25.1**	ug/L	0.30	1	09/27/12 15:11	10/07/12 01:49	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	09/27/12 15:11	10/07/12 01:49	7440-41-7	
Cadmium, Dissolved	**0.16**	ug/L	0.080	1	09/27/12 15:11	10/07/12 01:49	7440-43-9	
Calcium, Dissolved	**250000**	ug/L	400	20	09/27/12 15:11	10/07/12 23:08	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/07/12 01:49	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/07/12 01:49	7440-48-4	
Copper, Dissolved	**1.3**	ug/L	0.50	1	09/27/12 15:11	10/07/12 01:49	7440-50-8	
Iron, Dissolved	**148**	ug/L	50.0	1	09/27/12 15:11	10/07/12 01:49	7439-89-6	
Lead, Dissolved	**0.77**	ug/L	0.10	1	09/27/12 15:11	10/07/12 01:49	7439-92-1	
Magnesium, Dissolved	**7240**	ug/L	100	20	09/27/12 15:11	10/08/12 13:53	7439-95-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: MW-1-SHALLOW_20120911 **Lab ID: 60128986021** Collected: 09/13/12 08:45 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	**12.0**	ug/L	0.50	1	09/27/12 15:11	10/07/12 01:49	7439-96-5	
Molybdenum, Dissolved	**7.9**	ug/L	0.50	1	09/27/12 15:11	10/07/12 01:49	7439-98-7	
Nickel, Dissolved	**2.9**	ug/L	0.50	1	09/27/12 15:11	10/07/12 01:49	7440-02-0	
Potassium, Dissolved	**2050**	ug/L	20.0	1	09/27/12 15:11	10/07/12 01:49	7440-09-7	
Selenium, Dissolved	**5.2**	ug/L	0.50	1	09/27/12 15:11	10/07/12 01:49	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/07/12 01:49	7440-22-4	
Sodium, Dissolved	**11100**	ug/L	50.0	1	09/27/12 15:11	10/07/12 01:49	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/27/12 15:11	10/07/12 01:49	7440-28-0	
Vanadium, Dissolved	**0.21**	ug/L	0.10	1	09/27/12 15:11	10/07/12 01:49	7440-62-2	
Zinc, Dissolved	**21.5**	ug/L	5.0	1	09/27/12 15:11	10/07/12 01:49	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**2840**	ug/L	250	5	09/21/12 15:50	09/25/12 17:27	7429-90-5	
Antimony, Dissolved	**0.24J**	ug/L	5.0	5	09/21/12 15:50	09/25/12 17:27	7440-36-0	
Arsenic, Dissolved	**2.4**	ug/L	1.0	1	09/21/12 15:50	09/25/12 20:48	7440-38-2	
Barium, Dissolved	**50.6**	ug/L	5.0	5	09/21/12 15:50	09/25/12 17:27	7440-39-3	B
Beryllium, Dissolved	**0.71**	ug/L	0.50	1	09/21/12 15:50	09/25/12 20:48	7440-41-7	
Cadmium, Dissolved	**0.97**	ug/L	0.50	1	09/21/12 15:50	09/25/12 20:48	7440-43-9	
Chromium, Dissolved	**3.8J**	ug/L	5.0	5	09/21/12 15:50	09/25/12 17:27	7440-47-3	B
Cobalt, Dissolved	**5.6**	ug/L	5.0	5	09/21/12 15:50	09/25/12 17:27	7440-48-4	
Copper, Dissolved	**23.4**	ug/L	5.0	5	09/21/12 15:50	09/25/12 17:27	7440-50-8	
Iron, Dissolved	**3910**	ug/L	50.0	1	09/21/12 15:50	09/25/12 20:48	7439-89-6	B
Lead, Dissolved	**57.5**	ug/L	5.0	5	09/21/12 15:50	09/25/12 17:27	7439-92-1	B
Manganese, Dissolved	**680**	ug/L	1.0	1	09/21/12 15:50	09/25/12 20:48	7439-96-5	B
Molybdenum, Dissolved	**2.4**	ug/L	1.0	1	09/21/12 15:50	09/25/12 20:48	7439-98-7	
Nickel, Dissolved	**3.9**	ug/L	1.0	1	09/21/12 15:50	09/25/12 20:48	7440-02-0	
Selenium, Dissolved	**5.0**	ug/L	1.0	1	09/21/12 15:50	09/25/12 20:48	7782-49-2	
Silver, Dissolved	**0.84**	ug/L	0.50	1	09/21/12 15:50	09/25/12 20:48	7440-22-4	
Thallium, Dissolved	**0.26J**	ug/L	5.0	5	09/21/12 15:50	09/25/12 17:27	7440-28-0	
Vanadium, Dissolved	**4.1**	ug/L	1.0	1	09/21/12 15:50	09/25/12 20:48	7440-62-2	
Zinc, Dissolved	**140**	ug/L	10.0	1	09/21/12 15:50	09/25/12 20:48	7440-66-6	B
245.1 Mercury	Analytical Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/26/12 15:18	10/02/12 13:35	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/20/12 15:00	10/03/12 13:42	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	09/21/12 15:00	09/24/12 12:54	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**1220**	umhos/cm	10.0	1		09/21/12 16:21		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: MW-1-SHALLOW_20120911 **Lab ID: 60128986021** Collected: 09/13/12 08:45 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**783**	mg/L	6.0	1		09/23/12 09:54		
Salinity (as seawater)	**0.61**	PSU	0.010	1		09/23/12 09:54		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**82.2**	mg/L	20.0	1		09/26/12 08:16		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/26/12 08:16		
Alkalinity, Total as CaCO3	**82.2**	mg/L	20.0	1		09/26/12 08:16		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**999**	mg/L	5.0	1		09/20/12 15:30		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**417**	mg/L	5.0	1		09/20/12 08:59		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/18/12 15:28	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	ND	mg/L	1.0	1		09/25/12 10:44	16887-00-6	
Sulfate	**669**	mg/L	50.0	50		09/25/12 11:00	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/19/12 16:11		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/24/12 17:44	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		09/28/12 00:02	7440-44-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: MW-2-DEEP_20120911 **Lab ID: 60128986022** Collected: 09/11/12 09:18 Received: 09/14/12 10:15 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	**242000**	ug/L	500	5	09/21/12 16:55	09/26/12 11:14	7440-70-2	
Magnesium, Dissolved	**22000**	ug/L	250	5	09/21/12 16:55	09/26/12 11:14	7439-95-4	
Potassium, Dissolved	**2090**	ug/L	1000	2	09/21/12 16:55	09/27/12 10:10	7440-09-7	
Sodium, Dissolved	**10400**	ug/L	2500	5	09/21/12 16:55	09/26/12 11:14	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	**298**	ug/L	4.0	1	09/26/12 13:18	10/05/12 23:16	7429-90-5	
Antimony	ND	ug/L	0.50	1	09/26/12 13:18	10/05/12 23:16	7440-36-0	
Arsenic	**0.54**	ug/L	0.50	1	09/26/12 13:18	10/05/12 23:16	7440-38-2	
Barium	**17.4**	ug/L	0.30	1	09/26/12 13:18	10/05/12 23:16	7440-39-3	
Beryllium	ND	ug/L	0.20	1	09/26/12 13:18	10/05/12 23:16	7440-41-7	
Cadmium	**1.2**	ug/L	0.080	1	09/26/12 13:18	10/05/12 23:16	7440-43-9	
Calcium	**214000**	ug/L	400	20	09/26/12 13:18	10/06/12 02:24	7440-70-2	
Chromium	**1.1**	ug/L	0.50	1	09/26/12 13:18	10/05/12 23:16	7440-47-3	
Cobalt	ND	ug/L	0.50	1	09/26/12 13:18	10/05/12 23:16	7440-48-4	
Copper	**2.3**	ug/L	0.50	1	09/26/12 13:18	10/05/12 23:16	7440-50-8	
Iron	**620**	ug/L	50.0	1	09/26/12 13:18	10/05/12 23:16	7439-89-6	
Lead	**4.1**	ug/L	0.10	1	09/26/12 13:18	10/05/12 23:16	7439-92-1	
Magnesium	**20000**	ug/L	50.0	10	09/26/12 13:18	10/10/12 07:37	7439-95-4	
Manganese	**20.9**	ug/L	0.50	1	09/26/12 13:18	10/05/12 23:16	7439-96-5	
Molybdenum	**9.0**	ug/L	0.50	1	09/26/12 13:18	10/05/12 23:16	7439-98-7	
Nickel	**0.58**	ug/L	0.50	1	09/26/12 13:18	10/05/12 23:16	7440-02-0	
Potassium	**1990**	ug/L	200	10	09/26/12 13:18	10/10/12 07:37	7440-09-7	
Selenium	**1.5**	ug/L	0.50	1	09/26/12 13:18	10/05/12 23:16	7782-49-2	
Silica	**13100**	ug/L	1070	20	09/26/12 13:18	10/06/12 02:24	7631-86-9	
Silver	ND	ug/L	0.50	1	09/26/12 13:18	10/05/12 23:16	7440-22-4	
Sodium	**11400**	ug/L	50.0	1	09/26/12 13:18	10/05/12 23:16	7440-23-5	
Thallium	ND	ug/L	0.10	1	09/26/12 13:18	10/07/12 02:47	7440-28-0	
Total Hardness by 2340B	**617000**	ug/L	1420	20	09/26/12 13:18	10/06/12 02:24		
Vanadium	**0.51**	ug/L	0.10	1	09/26/12 13:18	10/05/12 23:16	7440-62-2	
Zinc	**27.9**	ug/L	5.0	1	09/26/12 13:18	10/05/12 23:16	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	**5.1**	ug/L	4.0	1	09/27/12 15:11	10/07/12 23:14	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/07/12 02:01	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/07/12 02:01	7440-38-2	
Barium, Dissolved	**13.9**	ug/L	0.30	1	09/27/12 15:11	10/07/12 02:01	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	09/27/12 15:11	10/07/12 02:01	7440-41-7	
Cadmium, Dissolved	**1.0**	ug/L	0.080	1	09/27/12 15:11	10/07/12 02:01	7440-43-9	
Calcium, Dissolved	**255000**	ug/L	400	20	09/27/12 15:11	10/07/12 23:20	7440-70-2	
Chromium, Dissolved	**0.60**	ug/L	0.50	1	09/27/12 15:11	10/07/12 23:14	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/07/12 02:01	7440-48-4	
Copper, Dissolved	**0.73**	ug/L	0.50	1	09/27/12 15:11	10/07/12 02:01	7440-50-8	
Iron, Dissolved	ND	ug/L	50.0	1	09/27/12 15:11	10/07/12 23:14	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	09/27/12 15:11	10/07/12 02:01	7439-92-1	
Magnesium, Dissolved	**8020**	ug/L	100	20	09/27/12 15:11	10/08/12 13:59	7439-95-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: MW-2-DEEP_20120911 **Lab ID: 60128986022** Collected: 09/11/12 09:18 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	**0.60**	ug/L	0.50	1	09/27/12 15:11	10/07/12 23:14	7439-96-5	
Molybdenum, Dissolved	**8.5**	ug/L	0.50	1	09/27/12 15:11	10/07/12 02:01	7439-98-7	
Nickel, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/07/12 02:01	7440-02-0	
Potassium, Dissolved	**1970**	ug/L	20.0	1	09/27/12 15:11	10/07/12 23:14	7440-09-7	
Selenium, Dissolved	**1.5**	ug/L	0.50	1	09/27/12 15:11	10/07/12 02:01	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/07/12 02:01	7440-22-4	
Sodium, Dissolved	**11300**	ug/L	50.0	1	09/27/12 15:11	10/07/12 23:14	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/27/12 15:11	10/07/12 02:01	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	09/27/12 15:11	10/07/12 23:14	7440-62-2	
Zinc, Dissolved	**19.5**	ug/L	5.0	1	09/27/12 15:11	10/07/12 02:01	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**155J**	ug/L	250	5	09/21/12 15:50	09/25/12 17:31	7429-90-5	
Antimony, Dissolved	ND	ug/L	5.0	5	09/21/12 15:50	09/25/12 17:31	7440-36-0	D3
Arsenic, Dissolved	**0.41J**	ug/L	1.0	1	09/21/12 15:50	09/25/12 20:53	7440-38-2	
Barium, Dissolved	**15.6**	ug/L	5.0	5	09/21/12 15:50	09/25/12 17:31	7440-39-3	B
Beryllium, Dissolved	**0.075J**	ug/L	0.50	1	09/21/12 15:50	09/25/12 20:53	7440-41-7	
Cadmium, Dissolved	**1.2**	ug/L	0.50	1	09/21/12 15:50	09/25/12 20:53	7440-43-9	
Chromium, Dissolved	**1.9J**	ug/L	5.0	5	09/21/12 15:50	09/25/12 17:31	7440-47-3	B
Cobalt, Dissolved	ND	ug/L	5.0	5	09/21/12 15:50	09/25/12 17:31	7440-48-4	D3
Copper, Dissolved	**3.7J**	ug/L	5.0	5	09/21/12 15:50	09/25/12 17:31	7440-50-8	
Iron, Dissolved	**463**	ug/L	50.0	1	09/21/12 15:50	09/25/12 20:53	7439-89-6	B
Lead, Dissolved	**5.8**	ug/L	5.0	5	09/21/12 15:50	09/25/12 17:31	7439-92-1	B
Manganese, Dissolved	**24.4**	ug/L	1.0	1	09/21/12 15:50	09/25/12 20:53	7439-96-5	B
Molybdenum, Dissolved	**7.3**	ug/L	1.0	1	09/21/12 15:50	09/25/12 20:53	7439-98-7	
Nickel, Dissolved	ND	ug/L	5.0	5	09/21/12 15:50	09/25/12 17:31	7440-02-0	D3
Selenium, Dissolved	**1.3**	ug/L	1.0	1	09/21/12 15:50	09/25/12 20:53	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/21/12 15:50	09/25/12 20:53	7440-22-4	
Thallium, Dissolved	ND	ug/L	5.0	5	09/21/12 15:50	09/25/12 17:31	7440-28-0	D3
Vanadium, Dissolved	ND	ug/L	1.0	1	09/21/12 15:50	09/25/12 20:53	7440-62-2	
Zinc, Dissolved	**33.3**	ug/L	10.0	1	09/21/12 15:50	09/25/12 20:53	7440-66-6	B
245.1 Mercury	Analytical Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/26/12 15:18	10/02/12 13:41	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/20/12 15:00	10/03/12 13:49	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	09/21/12 15:00	09/24/12 13:03	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**1210**	umhos/cm	10.0	1		09/21/12 16:22		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**772**	mg/L	6.0	1		09/23/12 09:54		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: MW-2-DEEP_20120911 **Lab ID: 60128986022** Collected: 09/11/12 09:18 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.60**	PSU	0.010	1		09/23/12 09:54		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**85.1**	mg/L	20.0	1		09/26/12 08:20		H1
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/26/12 08:20		H1
Alkalinity, Total as CaCO3	**85.1**	mg/L	20.0	1		09/26/12 08:20		H1
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1050**	mg/L	5.0	1		09/17/12 14:58		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**8.0**	mg/L	5.0	1		09/17/12 09:56		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/17/12 13:21	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	ND	mg/L	1.0	1		09/25/12 12:50	16887-00-6	
Sulfate	**685**	mg/L	50.0	50		09/25/12 13:06	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/19/12 16:12		M1
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/24/12 17:48	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		09/28/12 00:16	7440-44-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: MW-3-DEEP_20120911 **Lab ID: 60128986023** Collected: 09/11/12 15:22 Received: 09/14/12 10:15 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	**234000**	ug/L	500	5	09/21/12 16:55	09/26/12 11:17	7440-70-2	
Magnesium, Dissolved	**24100**	ug/L	250	5	09/21/12 16:55	09/26/12 11:17	7439-95-4	
Potassium, Dissolved	**2230**	ug/L	1000	2	09/21/12 16:55	09/27/12 10:12	7440-09-7	
Sodium, Dissolved	**10800**	ug/L	2500	5	09/21/12 16:55	09/26/12 11:17	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	**109**	ug/L	4.0	1	10/11/12 13:57	10/12/12 12:06	7429-90-5	M6
Antimony	ND	ug/L	0.50	1	10/11/12 13:57	10/12/12 12:06	7440-36-0	
Arsenic	**0.56**	ug/L	0.50	1	10/11/12 13:57	10/12/12 12:06	7440-38-2	
Barium	**19.7**	ug/L	0.30	1	10/11/12 13:57	10/12/12 12:06	7440-39-3	
Beryllium	ND	ug/L	0.20	1	10/11/12 13:57	10/12/12 12:06	7440-41-7	
Cadmium	**0.22**	ug/L	0.080	1	10/11/12 13:57	10/12/12 12:06	7440-43-9	
Calcium	**269000**	ug/L	500	25	10/11/12 13:57	10/12/12 12:25	7440-70-2	M6
Chromium	ND	ug/L	0.50	1	10/11/12 13:57	10/12/12 12:06	7440-47-3	
Cobalt	**0.85**	ug/L	0.50	1	10/11/12 13:57	10/12/12 12:06	7440-48-4	
Copper	**1.6**	ug/L	0.50	1	10/11/12 13:57	10/12/12 12:06	7440-50-8	
Iron	**1120**	ug/L	50.0	1	10/11/12 13:57	10/12/12 12:06	7439-89-6	
Lead	**2.8**	ug/L	0.10	1	10/11/12 13:57	10/12/12 12:06	7439-92-1	
Magnesium	**23800**	ug/L	25.0	5	10/11/12 13:57	10/12/12 12:21	7439-95-4	M6
Manganese	**1260**	ug/L	2.5	5	10/11/12 13:57	10/12/12 12:21	7439-96-5	M6
Molybdenum	**12.1**	ug/L	0.50	1	10/11/12 13:57	10/12/12 12:06	7439-98-7	
Nickel	ND	ug/L	0.50	1	10/11/12 13:57	10/12/12 12:06	7440-02-0	
Potassium	**2190**	ug/L	20.0	1	10/11/12 13:57	10/12/12 12:06	7440-09-7	
Selenium	ND	ug/L	0.50	1	10/11/12 13:57	10/12/12 12:06	7782-49-2	
Silica	**11700**	ug/L	268	5	10/11/12 13:57	10/12/12 12:21	7631-86-9	
Silver	ND	ug/L	0.50	1	10/11/12 13:57	10/12/12 12:06	7440-22-4	
Sodium	**11600**	ug/L	50.0	1	10/11/12 13:57	10/12/12 12:06	7440-23-5	
Thallium	ND	ug/L	0.10	1	10/11/12 13:57	10/12/12 12:06	7440-28-0	
Total Hardness by 2340B	**769000**	ug/L	1780	25	10/11/12 13:57	10/12/12 12:25		
Vanadium	**0.26**	ug/L	0.10	1	10/11/12 13:57	10/12/12 12:06	7440-62-2	
Zinc	**74.2**	ug/L	5.0	1	10/11/12 13:57	10/12/12 12:06	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	ND	ug/L	4.0	1	09/27/12 15:11	10/07/12 23:56	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/07/12 02:12	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/07/12 02:12	7440-38-2	
Barium, Dissolved	**17.2**	ug/L	0.30	1	09/27/12 15:11	10/07/12 02:12	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	09/27/12 15:11	10/07/12 02:12	7440-41-7	
Cadmium, Dissolved	ND	ug/L	0.080	1	09/27/12 15:11	10/07/12 02:12	7440-43-9	
Calcium, Dissolved	**249000**	ug/L	400	20	09/27/12 15:11	10/07/12 02:18	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/07/12 23:56	7440-47-3	
Cobalt, Dissolved	**0.78**	ug/L	0.50	1	09/27/12 15:11	10/07/12 02:12	7440-48-4	
Copper, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/07/12 02:12	7440-50-8	
Iron, Dissolved	**712**	ug/L	50.0	1	09/27/12 15:11	10/07/12 23:56	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	09/27/12 15:11	10/07/12 02:12	7439-92-1	
Magnesium, Dissolved	**23700**	ug/L	100	20	09/27/12 15:11	10/07/12 02:18	7439-95-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: MW-3-DEEP_20120911 **Lab ID: 60128986023** Collected: 09/11/12 15:22 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	**1250**	ug/L	10.0	20	09/27/12 15:11	10/07/12 02:18	7439-96-5	
Molybdenum, Dissolved	**11.9**	ug/L	0.50	1	09/27/12 15:11	10/07/12 02:12	7439-98-7	
Nickel, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/07/12 02:12	7440-02-0	
Potassium, Dissolved	**2110**	ug/L	20.0	1	09/27/12 15:11	10/07/12 23:56	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/07/12 02:12	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/07/12 02:12	7440-22-4	
Sodium, Dissolved	**11800**	ug/L	1000	20	09/27/12 15:11	10/07/12 02:18	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/27/12 15:11	10/07/12 02:12	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	09/27/12 15:11	10/07/12 23:56	7440-62-2	
Zinc, Dissolved	**41.6**	ug/L	5.0	1	09/27/12 15:11	10/07/12 02:12	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**60.4J**	ug/L	250	5	09/21/12 15:50	09/25/12 17:35	7429-90-5	
Antimony, Dissolved	ND	ug/L	5.0	5	09/21/12 15:50	09/25/12 17:35	7440-36-0	D3
Arsenic, Dissolved	**0.39J**	ug/L	1.0	1	09/21/12 15:50	09/25/12 20:57	7440-38-2	
Barium, Dissolved	**18.1**	ug/L	5.0	5	09/21/12 15:50	09/25/12 17:35	7440-39-3	B
Beryllium, Dissolved	**0.070J**	ug/L	0.50	1	09/21/12 15:50	09/25/12 20:57	7440-41-7	
Cadmium, Dissolved	**0.26J**	ug/L	0.50	1	09/21/12 15:50	09/25/12 20:57	7440-43-9	
Chromium, Dissolved	**1.6J**	ug/L	5.0	5	09/21/12 15:50	09/25/12 17:35	7440-47-3	B
Cobalt, Dissolved	**0.90J**	ug/L	5.0	5	09/21/12 15:50	09/25/12 17:35	7440-48-4	
Copper, Dissolved	ND	ug/L	5.0	5	09/21/12 15:50	09/25/12 17:35	7440-50-8	D3
Iron, Dissolved	**1040**	ug/L	50.0	1	09/21/12 15:50	09/25/12 20:57	7439-89-6	B
Lead, Dissolved	**3.2J**	ug/L	5.0	5	09/21/12 15:50	09/25/12 17:35	7439-92-1	B
Manganese, Dissolved	**1270**	ug/L	1.0	1	09/21/12 15:50	09/25/12 20:57	7439-96-5	B
Molybdenum, Dissolved	**12.8**	ug/L	1.0	1	09/21/12 15:50	09/25/12 20:57	7439-98-7	
Nickel, Dissolved	ND	ug/L	1.0	1	09/21/12 15:50	09/25/12 20:57	7440-02-0	
Selenium, Dissolved	ND	ug/L	1.0	1	09/21/12 15:50	09/25/12 20:57	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/21/12 15:50	09/25/12 20:57	7440-22-4	
Thallium, Dissolved	ND	ug/L	5.0	5	09/21/12 15:50	09/25/12 17:35	7440-28-0	D3
Vanadium, Dissolved	ND	ug/L	1.0	1	09/21/12 15:50	09/25/12 20:57	7440-62-2	
Zinc, Dissolved	**70.1**	ug/L	10.0	1	09/21/12 15:50	09/25/12 20:57	7440-66-6	B
245.1 Mercury	Analytical Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/26/12 15:18	10/02/12 13:48	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/20/12 15:00	10/03/12 13:52	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	09/21/12 15:00	09/24/12 13:05	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**1210**	umhos/cm	10.0	1		09/21/12 16:27		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**774**	mg/L	6.0	1		09/23/12 09:54		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: MW-3-DEEP_20120911 **Lab ID: 60128986023** Collected: 09/11/12 15:22 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.60**	PSU	0.010	1		09/23/12 09:54		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**87.8**	mg/L	20.0	1		09/26/12 08:25		H1
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/26/12 08:25		H1
Alkalinity, Total as CaCO3	**87.8**	mg/L	20.0	1		09/26/12 08:25		H1
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1040**	mg/L	5.0	1		09/17/12 14:59		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	ND	mg/L	5.0	1		09/17/12 09:56		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/17/12 13:21	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	ND	mg/L	1.0	1		09/25/12 13:21	16887-00-6	
Sulfate	**684**	mg/L	50.0	50		09/25/12 13:37	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/19/12 16:13		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/24/12 17:48	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		09/28/12 00:30	7440-44-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: MW-4-DEEP_20120911 **Lab ID: 60128986024** Collected: 09/11/12 16:14 Received: 09/14/12 10:15 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	**286000**	ug/L	500	5	09/21/12 16:55	09/26/12 11:19	7440-70-2	M1
Magnesium, Dissolved	**35100**	ug/L	250	5	09/21/12 16:55	09/26/12 11:19	7439-95-4	
Potassium, Dissolved	**2600**	ug/L	1000	2	09/21/12 16:55	09/27/12 10:14	7440-09-7	
Sodium, Dissolved	**4760**	ug/L	2500	5	09/21/12 16:55	09/26/12 11:19	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	**2230**	ug/L	4.0	1	09/26/12 13:18	10/06/12 02:42	7429-90-5	
Antimony	ND	ug/L	0.50	1	09/26/12 13:18	10/06/12 02:42	7440-36-0	
Arsenic	**3.9**	ug/L	0.50	1	09/26/12 13:18	10/06/12 02:42	7440-38-2	
Barium	**41.2**	ug/L	0.30	1	09/26/12 13:18	10/06/12 02:42	7440-39-3	
Beryllium	ND	ug/L	4.0	20	09/26/12 13:18	10/06/12 02:48	7440-41-7	
Cadmium	**3.0**	ug/L	0.080	1	09/26/12 13:18	10/06/12 02:42	7440-43-9	
Calcium	**275000**	ug/L	400	20	09/26/12 13:18	10/08/12 07:02	7440-70-2	
Chromium	**2.3**	ug/L	0.50	1	09/26/12 13:18	10/06/12 02:42	7440-47-3	
Cobalt	**2.3**	ug/L	0.50	1	09/26/12 13:18	10/06/12 02:42	7440-48-4	
Copper	**22.8**	ug/L	0.50	1	09/26/12 13:18	10/06/12 02:42	7440-50-8	
Iron	**3580**	ug/L	50.0	1	09/26/12 13:18	10/06/12 02:42	7439-89-6	
Lead	**17.3**	ug/L	0.10	1	09/26/12 13:18	10/06/12 02:42	7439-92-1	
Magnesium	**36900**	ug/L	50.0	10	09/26/12 13:18	10/10/12 07:49	7439-95-4	
Manganese	**322**	ug/L	0.50	1	09/26/12 13:18	10/06/12 02:42	7439-96-5	
Molybdenum	**3.2**	ug/L	0.50	1	09/26/12 13:18	10/06/12 02:42	7439-98-7	
Nickel	**2.9**	ug/L	0.50	1	09/26/12 13:18	10/06/12 02:42	7440-02-0	
Potassium	**3180**	ug/L	200	10	09/26/12 13:18	10/10/12 07:49	7440-09-7	
Selenium	**31.9**	ug/L	0.50	1	09/26/12 13:18	10/06/12 02:42	7782-49-2	
Silica	**21500**	ug/L	1070	20	09/26/12 13:18	10/08/12 07:02	7631-86-9	
Silver	ND	ug/L	0.50	1	09/26/12 13:18	10/06/12 02:42	7440-22-4	
Sodium	**5400**	ug/L	50.0	1	09/26/12 13:18	10/06/12 02:42	7440-23-5	
Thallium	ND	ug/L	0.10	1	09/26/12 13:18	10/06/12 02:42	7440-28-0	
Total Hardness by 2340B	**839000**	ug/L	1420	20	09/26/12 13:18	10/08/12 07:02		
Vanadium	**3.7**	ug/L	0.10	1	09/26/12 13:18	10/06/12 02:42	7440-62-2	
Zinc	**423**	ug/L	5.0	1	09/26/12 13:18	10/06/12 02:42	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	**28.5**	ug/L	4.0	1	09/27/12 15:11	10/07/12 02:24	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/07/12 02:24	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/07/12 02:24	7440-38-2	
Barium, Dissolved	**17.9**	ug/L	0.30	1	09/27/12 15:11	10/07/12 02:24	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	09/27/12 15:11	10/08/12 14:05	7440-41-7	
Cadmium, Dissolved	**2.4**	ug/L	0.080	1	09/27/12 15:11	10/07/12 02:24	7440-43-9	
Calcium, Dissolved	**317000**	ug/L	400	20	09/27/12 15:11	10/07/12 02:30	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/07/12 02:24	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/07/12 02:24	7440-48-4	
Copper, Dissolved	**4.4**	ug/L	0.50	1	09/27/12 15:11	10/07/12 02:24	7440-50-8	
Iron, Dissolved	ND	ug/L	50.0	1	09/27/12 15:11	10/07/12 02:24	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	09/27/12 15:11	10/07/12 02:24	7439-92-1	
Magnesium, Dissolved	**35900**	ug/L	100	20	09/27/12 15:11	10/07/12 02:30	7439-95-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: MW-4-DEEP_20120911 **Lab ID: 60128986024** Collected: 09/11/12 16:14 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	**21.0**	ug/L	0.50	1	09/27/12 15:11	10/07/12 02:24	7439-96-5	
Molybdenum, Dissolved	**2.0**	ug/L	0.50	1	09/27/12 15:11	10/07/12 02:24	7439-98-7	
Nickel, Dissolved	**1.3**	ug/L	0.50	1	09/27/12 15:11	10/07/12 02:24	7440-02-0	
Potassium, Dissolved	**2550**	ug/L	20.0	1	09/27/12 15:11	10/07/12 02:24	7440-09-7	
Selenium, Dissolved	**31.1**	ug/L	0.50	1	09/27/12 15:11	10/07/12 02:24	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/07/12 02:24	7440-22-4	
Sodium, Dissolved	**5780**	ug/L	50.0	1	09/27/12 15:11	10/07/12 02:24	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/27/12 15:11	10/07/12 02:24	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	09/27/12 15:11	10/07/12 02:24	7440-62-2	
Zinc, Dissolved	**355**	ug/L	5.0	1	09/27/12 15:11	10/07/12 02:24	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**1050**	ug/L	250	5	09/21/12 15:50	09/25/12 18:00	7429-90-5	
Antimony, Dissolved	**0.29J**	ug/L	5.0	5	09/21/12 15:50	09/25/12 18:00	7440-36-0	D3
Arsenic, Dissolved	**2.7**	ug/L	1.0	1	09/21/12 15:50	09/25/12 21:14	7440-38-2	
Barium, Dissolved	**30.0**	ug/L	5.0	5	09/21/12 15:50	09/25/12 18:00	7440-39-3	B
Beryllium, Dissolved	**0.30J**	ug/L	0.50	1	09/21/12 15:50	09/25/12 21:14	7440-41-7	
Cadmium, Dissolved	**3.2**	ug/L	0.50	1	09/21/12 15:50	09/25/12 21:14	7440-43-9	
Chromium, Dissolved	**3.0**	ug/L	1.0	1	09/21/12 15:50	09/25/12 21:14	7440-47-3	B
Cobalt, Dissolved	**2.0**	ug/L	1.0	1	09/21/12 15:50	09/25/12 21:14	7440-48-4	
Copper, Dissolved	**23.9**	ug/L	1.0	1	09/21/12 15:50	09/25/12 21:14	7440-50-8	
Iron, Dissolved	**2370**	ug/L	50.0	1	09/21/12 15:50	09/25/12 21:14	7439-89-6	B
Lead, Dissolved	**18.6**	ug/L	5.0	5	09/21/12 15:50	09/25/12 18:00	7439-92-1	B
Manganese, Dissolved	**287**	ug/L	1.0	1	09/21/12 15:50	09/25/12 21:14	7439-96-5	B
Molybdenum, Dissolved	**1.1**	ug/L	1.0	1	09/21/12 15:50	09/25/12 21:14	7439-98-7	
Nickel, Dissolved	**0.88J**	ug/L	1.0	1	09/21/12 15:50	09/25/12 21:14	7440-02-0	
Selenium, Dissolved	**30.0**	ug/L	1.0	1	09/21/12 15:50	09/25/12 21:14	7782-49-2	
Silver, Dissolved	**0.21J**	ug/L	0.50	1	09/21/12 15:50	09/25/12 21:14	7440-22-4	
Thallium, Dissolved	ND	ug/L	5.0	5	09/21/12 15:50	09/25/12 18:00	7440-28-0	D3
Vanadium, Dissolved	**2.3**	ug/L	1.0	1	09/21/12 15:50	09/25/12 21:14	7440-62-2	
Zinc, Dissolved	**434**	ug/L	10.0	1	09/21/12 15:50	09/25/12 21:14	7440-66-6	B
245.1 Mercury	Analytical Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/26/12 15:18	10/02/12 13:50	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/20/12 15:00	10/03/12 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	09/21/12 15:00	09/24/12 13:07	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**1490**	umhos/cm	10.0	1		09/21/12 16:28		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**955**	mg/L	6.0	1		09/23/12 09:54		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: MW-4-DEEP_20120911 **Lab ID: 60128986024** Collected: 09/11/12 16:14 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.75**	PSU	0.010	1		09/23/12 09:54		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**358**	mg/L	20.0	1		09/26/12 08:31		H1
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/26/12 08:31		H1
Alkalinity, Total as CaCO3	**358**	mg/L	20.0	1		09/26/12 08:31		H1
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1140**	mg/L	5.0	1		09/17/12 14:59		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**55.0**	mg/L	5.0	1		09/17/12 09:56		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/17/12 13:23	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	ND	mg/L	1.0	1		09/25/12 13:53	16887-00-6	
Sulfate	**560**	mg/L	50.0	50		09/25/12 14:08	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/19/12 16:14		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/24/12 17:49	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		09/28/12 08:18	7440-44-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: MW-4-SHALLOW_20120911 **Lab ID: 60128986025** Collected: 09/11/12 08:28 Received: 09/14/12 10:15 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	**276000**	ug/L	500	5	09/21/12 16:55	09/26/12 11:27	7440-70-2	
Magnesium, Dissolved	**31700**	ug/L	250	5	09/21/12 16:55	09/26/12 11:27	7439-95-4	
Potassium, Dissolved	**2550**	ug/L	2500	5	09/21/12 16:55	09/26/12 11:27	7440-09-7	
Sodium, Dissolved	**5640**	ug/L	2500	5	09/21/12 16:55	09/26/12 11:27	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	**16200**	ug/L	4.0	1	09/26/12 13:18	10/06/12 02:53	7429-90-5	
Antimony	ND	ug/L	0.50	1	09/26/12 13:18	10/06/12 02:53	7440-36-0	
Arsenic	**12.8**	ug/L	0.50	1	09/26/12 13:18	10/06/12 02:53	7440-38-2	
Barium	**217**	ug/L	0.30	1	09/26/12 13:18	10/06/12 02:53	7440-39-3	
Beryllium	ND	ug/L	4.0	20	09/26/12 13:18	10/06/12 03:00	7440-41-7	
Cadmium	**2.2**	ug/L	0.080	1	09/26/12 13:18	10/06/12 02:53	7440-43-9	
Calcium	**256000**	ug/L	400	20	09/26/12 13:18	10/08/12 07:08	7440-70-2	
Chromium	**17.2**	ug/L	0.50	1	09/26/12 13:18	10/06/12 02:53	7440-47-3	
Cobalt	**9.7**	ug/L	0.50	1	09/26/12 13:18	10/06/12 02:53	7440-48-4	
Copper	**88.5**	ug/L	0.50	1	09/26/12 13:18	10/06/12 02:53	7440-50-8	
Iron	**18100**	ug/L	50.0	1	09/26/12 13:18	10/06/12 02:53	7439-89-6	
Lead	**106**	ug/L	0.10	1	09/26/12 13:18	10/06/12 02:53	7439-92-1	
Magnesium	**37400**	ug/L	50.0	10	09/26/12 13:18	10/10/12 07:54	7439-95-4	
Manganese	**913**	ug/L	10.0	20	09/26/12 13:18	10/08/12 07:08	7439-96-5	
Molybdenum	**4.1**	ug/L	0.50	1	09/26/12 13:18	10/06/12 02:53	7439-98-7	
Nickel	**14.4**	ug/L	0.50	1	09/26/12 13:18	10/06/12 02:53	7440-02-0	
Potassium	**7100**	ug/L	200	10	09/26/12 13:18	10/10/12 07:54	7440-09-7	
Selenium	**26.2**	ug/L	0.50	1	09/26/12 13:18	10/06/12 02:53	7782-49-2	
Silica	**65100**	ug/L	1070	20	09/26/12 13:18	10/08/12 07:08	7631-86-9	
Silver	**1.7**	ug/L	0.50	1	09/26/12 13:18	10/06/12 02:53	7440-22-4	
Sodium	**6140**	ug/L	50.0	1	09/26/12 13:18	10/06/12 02:53	7440-23-5	
Thallium	**0.32**	ug/L	0.10	1	09/26/12 13:18	10/06/12 02:53	7440-28-0	
Total Hardness by 2340B	**794000**	ug/L	1420	20	09/26/12 13:18	10/08/12 07:08		
Vanadium	**19.4**	ug/L	0.10	1	09/26/12 13:18	10/06/12 02:53	7440-62-2	
Zinc	**360**	ug/L	5.0	1	09/26/12 13:18	10/06/12 02:53	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	**160**	ug/L	4.0	1	09/27/12 15:11	10/07/12 02:35	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/07/12 02:35	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/07/12 02:35	7440-38-2	
Barium, Dissolved	**55.2**	ug/L	0.30	1	09/27/12 15:11	10/07/12 02:35	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	09/27/12 15:11	10/08/12 14:11	7440-41-7	
Cadmium, Dissolved	**1.4**	ug/L	0.080	1	09/27/12 15:11	10/07/12 02:35	7440-43-9	
Calcium, Dissolved	**311000**	ug/L	400	20	09/27/12 15:11	10/07/12 02:41	7440-70-2	
Chromium, Dissolved	**0.54**	ug/L	0.50	1	09/27/12 15:11	10/07/12 02:35	7440-47-3	
Cobalt, Dissolved	**1.2**	ug/L	0.50	1	09/27/12 15:11	10/07/12 02:35	7440-48-4	
Copper, Dissolved	**3.8**	ug/L	0.50	1	09/27/12 15:11	10/07/12 02:35	7440-50-8	
Iron, Dissolved	**159**	ug/L	50.0	1	09/27/12 15:11	10/07/12 02:35	7439-89-6	
Lead, Dissolved	**1.5**	ug/L	0.10	1	09/27/12 15:11	10/07/12 02:35	7439-92-1	
Magnesium, Dissolved	**31400**	ug/L	100	20	09/27/12 15:11	10/07/12 02:41	7439-95-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: MW-4-SHALLOW_20120911 **Lab ID: 60128986025** Collected: 09/11/12 08:28 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	**470**	ug/L	10.0	20	09/27/12 15:11	10/07/12 02:41	7439-96-5	
Molybdenum, Dissolved	**1.9**	ug/L	0.50	1	09/27/12 15:11	10/07/12 02:35	7439-98-7	
Nickel, Dissolved	**3.9**	ug/L	0.50	1	09/27/12 15:11	10/07/12 02:35	7440-02-0	
Potassium, Dissolved	**3520**	ug/L	20.0	1	09/27/12 15:11	10/07/12 02:35	7440-09-7	
Selenium, Dissolved	**24.6**	ug/L	0.50	1	09/27/12 15:11	10/07/12 02:35	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/07/12 02:35	7440-22-4	
Sodium, Dissolved	**6700**	ug/L	50.0	1	09/27/12 15:11	10/07/12 02:35	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/27/12 15:11	10/07/12 02:35	7440-28-0	
Vanadium, Dissolved	**0.23**	ug/L	0.10	1	09/27/12 15:11	10/07/12 02:35	7440-62-2	
Zinc, Dissolved	**129**	ug/L	5.0	1	09/27/12 15:11	10/07/12 02:35	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**4570**	ug/L	250	5	09/21/12 15:50	09/25/12 18:04	7429-90-5	M1
Antimony, Dissolved	ND	ug/L	5.0	5	09/21/12 15:50	09/25/12 18:04	7440-36-0	D3
Arsenic, Dissolved	**3.7**	ug/L	1.0	1	09/21/12 15:50	09/25/12 21:18	7440-38-2	
Barium, Dissolved	**75.0**	ug/L	5.0	5	09/21/12 15:50	09/25/12 18:04	7440-39-3	B
Beryllium, Dissolved	**1.1**	ug/L	0.50	1	09/21/12 15:50	09/25/12 21:18	7440-41-7	
Cadmium, Dissolved	**2.0**	ug/L	0.50	1	09/21/12 15:50	09/25/12 21:18	7440-43-9	
Chromium, Dissolved	**8.8**	ug/L	1.0	1	09/21/12 15:50	09/25/12 21:18	7440-47-3	B
Cobalt, Dissolved	**7.5**	ug/L	1.0	1	09/21/12 15:50	09/25/12 21:18	7440-48-4	
Copper, Dissolved	**68.7**	ug/L	1.0	1	09/21/12 15:50	09/25/12 21:18	7440-50-8	
Iron, Dissolved	**6750**	ug/L	50.0	1	09/21/12 15:50	09/25/12 21:18	7439-89-6	B,M1
Lead, Dissolved	**130**	ug/L	5.0	5	09/21/12 15:50	09/25/12 18:04	7439-92-1	B
Manganese, Dissolved	**878**	ug/L	1.0	1	09/21/12 15:50	09/25/12 21:18	7439-96-5	B,M1
Molybdenum, Dissolved	**1.3**	ug/L	1.0	1	09/21/12 15:50	09/25/12 21:18	7439-98-7	
Nickel, Dissolved	**4.9**	ug/L	1.0	1	09/21/12 15:50	09/25/12 21:18	7440-02-0	
Selenium, Dissolved	**22.3**	ug/L	1.0	1	09/21/12 15:50	09/25/12 21:18	7782-49-2	
Silver, Dissolved	**0.39J**	ug/L	0.50	1	09/21/12 15:50	09/25/12 21:18	7440-22-4	
Thallium, Dissolved	ND	ug/L	5.0	5	09/21/12 15:50	09/25/12 18:04	7440-28-0	D3
Vanadium, Dissolved	**4.6**	ug/L	1.0	1	09/21/12 15:50	09/25/12 21:18	7440-62-2	
Zinc, Dissolved	**328**	ug/L	10.0	1	09/21/12 15:50	09/25/12 21:18	7440-66-6	B,M1
245.1 Mercury	Analytical Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/26/12 15:18	10/02/12 13:52	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/20/12 15:00	10/03/12 14:02	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	09/21/12 15:00	09/24/12 13:12	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**1400**	umhos/cm	10.0	1		09/21/12 16:29		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: MW-4-SHALLOW_20120911 **Lab ID: 60128986025** Collected: 09/11/12 08:28 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**896**	mg/L	6.0	1		09/23/12 09:54		
Salinity (as seawater)	**0.70**	PSU	0.010	1		09/23/12 09:54		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**350**	mg/L	20.0	1		09/26/12 08:45		H1
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/26/12 08:45		H1
Alkalinity, Total as CaCO3	**350**	mg/L	20.0	1		09/26/12 08:45		H1
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1090**	mg/L	5.0	1		09/17/12 14:59		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**802**	mg/L	5.0	1		09/17/12 09:57		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/17/12 13:21	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.2**	mg/L	1.0	1		09/25/12 14:24	16887-00-6	
Sulfate	**525**	mg/L	50.0	50		09/25/12 14:40	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**0.75**	mg/L	0.10	1		09/19/12 16:15		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/24/12 17:51	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.0**	mg/L	1.0	1		09/28/12 08:47	7440-44-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: MW-5-DEEP_20120911 **Lab ID: 60128986026** Collected: 09/11/12 14:57 Received: 09/14/12 10:15 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	**333000**	ug/L	500	5	09/21/12 16:55	09/26/12 11:34	7440-70-2	
Magnesium, Dissolved	**67800**	ug/L	250	5	09/21/12 16:55	09/26/12 11:34	7439-95-4	
Potassium, Dissolved	**8720**	ug/L	2500	5	09/21/12 16:55	09/26/12 11:34	7440-09-7	
Sodium, Dissolved	**6660**	ug/L	2500	5	09/21/12 16:55	09/26/12 11:34	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	**1020**	ug/L	4.0	1	10/11/12 13:57	10/12/12 11:02	7429-90-5	
Antimony	ND	ug/L	0.50	1	10/11/12 13:57	10/12/12 11:02	7440-36-0	
Arsenic	**258**	ug/L	0.50	1	10/11/12 13:57	10/12/12 11:02	7440-38-2	
Barium	**15.0**	ug/L	0.30	1	10/11/12 13:57	10/12/12 11:02	7440-39-3	
Beryllium	**2.7**	ug/L	0.20	1	10/11/12 13:57	10/12/12 11:02	7440-41-7	
Cadmium	**0.30**	ug/L	0.080	1	10/11/12 13:57	10/12/12 11:02	7440-43-9	
Calcium	**358000**	ug/L	400	20	10/11/12 13:57	10/12/12 11:06	7440-70-2	
Chromium	**0.59**	ug/L	0.50	1	10/11/12 13:57	10/12/12 11:02	7440-47-3	
Cobalt	**12.6**	ug/L	0.50	1	10/11/12 13:57	10/12/12 11:02	7440-48-4	
Copper	**5.5**	ug/L	0.50	1	10/11/12 13:57	10/12/12 11:02	7440-50-8	
Iron	**108000**	ug/L	1000	20	10/11/12 13:57	10/12/12 11:06	7439-89-6	
Lead	**14.6**	ug/L	0.10	1	10/11/12 13:57	10/12/12 11:02	7439-92-1	
Magnesium	**69700**	ug/L	100	20	10/11/12 13:57	10/12/12 11:06	7439-95-4	
Manganese	**14200**	ug/L	10.0	20	10/11/12 13:57	10/12/12 11:06	7439-96-5	
Molybdenum	**13.9**	ug/L	0.50	1	10/11/12 13:57	10/12/12 11:02	7439-98-7	
Nickel	**13.2**	ug/L	0.50	1	10/11/12 13:57	10/12/12 11:02	7440-02-0	
Potassium	**10100**	ug/L	20.0	1	10/11/12 13:57	10/12/12 11:02	7440-09-7	
Selenium	ND	ug/L	0.50	1	10/11/12 13:57	10/12/12 11:02	7782-49-2	
Silica	**25100**	ug/L	1070	20	10/11/12 13:57	10/12/12 11:06	7631-86-9	
Silver	ND	ug/L	0.50	1	10/11/12 13:57	10/12/12 11:02	7440-22-4	
Sodium	**7300**	ug/L	50.0	1	10/11/12 13:57	10/12/12 11:02	7440-23-5	
Thallium	ND	ug/L	0.10	1	10/11/12 13:57	10/12/12 11:02	7440-28-0	
Total Hardness by 2340B	**1180000**	ug/L	1420	20	10/11/12 13:57	10/12/12 11:06		
Vanadium	**0.33**	ug/L	0.10	1	10/11/12 13:57	10/12/12 11:02	7440-62-2	
Zinc	**13100**	ug/L	100	20	10/11/12 13:57	10/12/12 11:06	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	**893**	ug/L	4.0	1	09/27/12 15:11	10/08/12 00:13	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/08/12 00:13	7440-36-0	
Arsenic, Dissolved	**168**	ug/L	0.50	1	09/27/12 15:11	10/08/12 00:13	7440-38-2	
Barium, Dissolved	**13.1**	ug/L	0.30	1	09/27/12 15:11	10/08/12 00:13	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	09/27/12 15:11	10/08/12 14:52	7440-41-7	
Cadmium, Dissolved	**0.24**	ug/L	0.080	1	09/27/12 15:11	10/08/12 00:13	7440-43-9	
Calcium, Dissolved	**372000**	ug/L	400	20	09/27/12 15:11	10/08/12 00:19	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/08/12 00:13	7440-47-3	
Cobalt, Dissolved	**13.4**	ug/L	0.50	1	09/27/12 15:11	10/08/12 00:13	7440-48-4	
Copper, Dissolved	**0.71**	ug/L	0.50	1	09/27/12 15:11	10/08/12 00:13	7440-50-8	
Iron, Dissolved	**106000**	ug/L	1000	20	09/27/12 15:11	10/08/12 00:19	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	09/27/12 15:11	10/08/12 14:52	7439-92-1	
Magnesium, Dissolved	**9440**	ug/L	5.0	1	09/27/12 15:11	10/08/12 14:52	7439-95-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: MW-5-DEEP_20120911 **Lab ID: 60128986026** Collected: 09/11/12 14:57 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	**15000**	ug/L	25.0	50	09/27/12 15:11	10/08/12 00:25	7439-96-5	
Molybdenum, Dissolved	**14.9**	ug/L	0.50	1	09/27/12 15:11	10/08/12 00:13	7439-98-7	
Nickel, Dissolved	**13.1**	ug/L	0.50	1	09/27/12 15:11	10/08/12 00:13	7440-02-0	
Potassium, Dissolved	**10500**	ug/L	20.0	1	09/27/12 15:11	10/08/12 00:13	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/08/12 00:13	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/08/12 00:13	7440-22-4	
Sodium, Dissolved	**7310**	ug/L	50.0	1	09/27/12 15:11	10/08/12 00:13	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/27/12 15:11	10/08/12 14:52	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	09/27/12 15:11	10/08/12 00:13	7440-62-2	
Zinc, Dissolved	**13600**	ug/L	250	50	09/27/12 15:11	10/08/12 00:25	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**1180**	ug/L	250	5	09/21/12 15:50	09/25/12 18:21	7429-90-5	
Antimony, Dissolved	**0.27J**	ug/L	5.0	5	09/21/12 15:50	09/25/12 18:21	7440-36-0	
Arsenic, Dissolved	**241**	ug/L	1.0	1	09/21/12 15:50	09/25/12 21:34	7440-38-2	
Barium, Dissolved	**14.2**	ug/L	5.0	5	09/21/12 15:50	09/25/12 18:21	7440-39-3	B
Beryllium, Dissolved	**2.4**	ug/L	0.50	1	09/21/12 15:50	09/25/12 21:34	7440-41-7	
Cadmium, Dissolved	**0.36J**	ug/L	0.50	1	09/21/12 15:50	09/25/12 21:34	7440-43-9	
Chromium, Dissolved	**1.0**	ug/L	1.0	1	09/21/12 15:50	09/25/12 21:34	7440-47-3	B
Cobalt, Dissolved	**12.2**	ug/L	1.0	1	09/21/12 15:50	09/25/12 21:34	7440-48-4	
Copper, Dissolved	**7.4**	ug/L	1.0	1	09/21/12 15:50	09/25/12 21:34	7440-50-8	
Iron, Dissolved	**107000**	ug/L	250	5	09/21/12 15:50	09/25/12 18:21	7439-89-6	B
Lead, Dissolved	**19.3**	ug/L	5.0	5	09/21/12 15:50	09/25/12 18:21	7439-92-1	B
Manganese, Dissolved	**14800**	ug/L	5.0	5	09/21/12 15:50	09/25/12 18:21	7439-96-5	B
Molybdenum, Dissolved	**13.9**	ug/L	1.0	1	09/21/12 15:50	09/25/12 21:34	7439-98-7	
Nickel, Dissolved	**10.3**	ug/L	1.0	1	09/21/12 15:50	09/25/12 21:34	7440-02-0	
Selenium, Dissolved	ND	ug/L	1.0	1	09/21/12 15:50	09/25/12 21:34	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/21/12 15:50	09/25/12 21:34	7440-22-4	
Thallium, Dissolved	**0.18J**	ug/L	5.0	5	09/21/12 15:50	09/25/12 18:21	7440-28-0	
Vanadium, Dissolved	**0.29J**	ug/L	1.0	1	09/21/12 15:50	09/25/12 21:34	7440-62-2	
Zinc, Dissolved	**12500**	ug/L	10.0	1	09/21/12 15:50	09/25/12 21:34	7440-66-6	B
245.1 Mercury	Analytical Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/26/12 15:18	10/02/12 13:54	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/20/12 15:00	10/03/12 14:04	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	09/21/12 15:00	09/24/12 13:14	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**2080**	umhos/cm	10.0	1		09/21/12 16:30		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**1330**	mg/L	6.0	1		09/23/12 09:54		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: MW-5-DEEP_20120911 **Lab ID: 60128986026** Collected: 09/11/12 14:57 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**1.1**	PSU	0.010	1		09/23/12 09:54		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**22.5**	mg/L	20.0	1		09/26/12 08:48		H1
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/26/12 08:48		H1
Alkalinity, Total as CaCO3	**22.5**	mg/L	20.0	1		09/26/12 08:48		H1
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**2010**	mg/L	5.0	1		09/17/12 15:00		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**64.0**	mg/L	5.0	1		09/17/12 09:57		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/17/12 13:21	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.3**	mg/L	1.0	1		09/25/12 15:41	16887-00-6	
Sulfate	**1500**	mg/L	100	100		09/25/12 15:56	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/19/12 16:16		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/24/12 17:52	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		09/28/12 09:15	7440-44-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: MW-5-SHALLOW_20120911 **Lab ID: 60128986027** Collected: 09/11/12 14:52 Received: 09/14/12 10:15 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	**452000**	ug/L	500	5	09/21/12 16:55	09/26/12 11:36	7440-70-2	
Magnesium, Dissolved	**87600**	ug/L	250	5	09/21/12 16:55	09/26/12 11:36	7439-95-4	
Potassium, Dissolved	**1460**	ug/L	500	1	09/21/12 16:55	09/27/12 10:07	7440-09-7	
Sodium, Dissolved	**5820**	ug/L	2500	5	09/21/12 16:55	09/26/12 11:36	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	**43400**	ug/L	80.0	20	09/26/12 13:18	10/06/12 17:30	7429-90-5	
Antimony	ND	ug/L	0.50	1	09/26/12 13:18	10/06/12 17:24	7440-36-0	
Arsenic	**179**	ug/L	0.50	1	09/26/12 13:18	10/06/12 17:24	7440-38-2	
Barium	**100**	ug/L	0.30	1	09/26/12 13:18	10/06/12 17:24	7440-39-3	
Beryllium	**6.2**	ug/L	0.20	1	09/26/12 13:18	10/06/12 17:24	7440-41-7	
Cadmium	**194**	ug/L	0.080	1	09/26/12 13:18	10/06/12 17:24	7440-43-9	
Calcium	**373000**	ug/L	400	20	09/26/12 13:18	10/06/12 17:30	7440-70-2	
Chromium	ND	ug/L	10.0	20	09/26/12 13:18	10/06/12 17:30	7440-47-3	D4
Cobalt	**70.0**	ug/L	0.50	1	09/26/12 13:18	10/06/12 17:24	7440-48-4	
Copper	**118**	ug/L	0.50	1	09/26/12 13:18	10/06/12 17:24	7440-50-8	
Iron	**326000**	ug/L	1000	20	09/26/12 13:18	10/06/12 17:30	7439-89-6	
Lead	**755**	ug/L	2.0	20	09/26/12 13:18	10/06/12 17:30	7439-92-1	
Magnesium	**85000**	ug/L	100	20	09/26/12 13:18	10/06/12 17:30	7439-95-4	
Manganese	**16100**	ug/L	50.0	100	09/26/12 13:18	10/06/12 17:36	7439-96-5	
Molybdenum	**0.80**	ug/L	0.50	1	09/26/12 13:18	10/06/12 17:24	7439-98-7	
Nickel	**120**	ug/L	0.50	1	09/26/12 13:18	10/06/12 17:24	7440-02-0	
Potassium	**2570**	ug/L	20.0	1	09/26/12 13:18	10/06/12 17:24	7440-09-7	
Selenium	**8.2**	ug/L	0.50	1	09/26/12 13:18	10/06/12 17:24	7782-49-2	
Silica	**89000**	ug/L	1070	20	09/26/12 13:18	10/06/12 17:30	7631-86-9	
Silver	**1.5**	ug/L	0.50	1	09/26/12 13:18	10/06/12 17:24	7440-22-4	
Sodium	**6240**	ug/L	50.0	1	09/26/12 13:18	10/06/12 17:24	7440-23-5	
Thallium	**0.34**	ug/L	0.10	1	09/26/12 13:18	10/06/12 17:24	7440-28-0	
Total Hardness by 2340B	**1280000**	ug/L	1420	20	09/26/12 13:18	10/06/12 17:30		
Vanadium	**6.7**	ug/L	0.10	1	09/26/12 13:18	10/06/12 17:24	7440-62-2	
Zinc	**6490**	ug/L	5000	1000	09/26/12 13:18	10/14/12 20:48	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	**44500**	ug/L	20.0	5	09/27/12 15:11	10/08/12 00:31	7429-90-5	
Antimony, Dissolved	ND	ug/L	2.5	5	09/27/12 15:11	10/08/12 00:31	7440-36-0	
Arsenic, Dissolved	**186**	ug/L	2.5	5	09/27/12 15:11	10/08/12 00:31	7440-38-2	
Barium, Dissolved	**11.8**	ug/L	1.5	5	09/27/12 15:11	10/08/12 00:31	7440-39-3	
Beryllium, Dissolved	ND	ug/L	1.0	5	09/27/12 15:11	10/08/12 15:04	7440-41-7	
Cadmium, Dissolved	**209**	ug/L	0.40	5	09/27/12 15:11	10/08/12 00:31	7440-43-9	
Calcium, Dissolved	**485000**	ug/L	2000	100	09/27/12 15:11	10/08/12 00:43	7440-70-2	
Chromium, Dissolved	**2.9**	ug/L	2.5	5	09/27/12 15:11	10/08/12 00:31	7440-47-3	
Cobalt, Dissolved	**76.1**	ug/L	2.5	5	09/27/12 15:11	10/08/12 00:31	7440-48-4	
Copper, Dissolved	**92.2**	ug/L	2.5	5	09/27/12 15:11	10/08/12 00:31	7440-50-8	
Iron, Dissolved	**384000**	ug/L	1000	20	09/27/12 15:11	10/08/12 00:37	7439-89-6	
Lead, Dissolved	ND	ug/L	0.50	5	09/27/12 15:11	10/08/12 15:04	7439-92-1	
Magnesium, Dissolved	**8900**	ug/L	25.0	5	09/27/12 15:11	10/08/12 15:04	7439-95-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: MW-5-SHALLOW_20120911 **Lab ID: 60128986027** Collected: 09/11/12 14:52 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	**16500**	ug/L	50.0	100	09/27/12 15:11	10/08/12 00:43	7439-96-5	
Molybdenum, Dissolved	ND	ug/L	2.5	5	09/27/12 15:11	10/08/12 00:31	7439-98-7	
Nickel, Dissolved	**139**	ug/L	2.5	5	09/27/12 15:11	10/08/12 00:31	7440-02-0	
Potassium, Dissolved	**1560**	ug/L	100	5	09/27/12 15:11	10/08/12 00:31	7440-09-7	
Selenium, Dissolved	**10.4**	ug/L	2.5	5	09/27/12 15:11	10/08/12 00:31	7782-49-2	
Silver, Dissolved	ND	ug/L	2.5	5	09/27/12 15:11	10/08/12 00:31	7440-22-4	
Sodium, Dissolved	**6490**	ug/L	250	5	09/27/12 15:11	10/08/12 00:31	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.50	5	09/27/12 15:11	10/08/12 15:04	7440-28-0	
Vanadium, Dissolved	**3.0**	ug/L	0.50	5	09/27/12 15:11	10/08/12 00:31	7440-62-2	
Zinc, Dissolved	**68200**	ug/L	2500	500	09/27/12 15:11	10/08/12 00:49	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**43800**	ug/L	500	10	09/21/12 15:50	09/25/12 18:25	7429-90-5	
Antimony, Dissolved	ND	ug/L	10.0	10	09/21/12 15:50	09/25/12 18:25	7440-36-0	D3
Arsenic, Dissolved	**166**	ug/L	1.0	1	09/21/12 15:50	09/25/12 22:21	7440-38-2	
Barium, Dissolved	**17.7**	ug/L	10.0	10	09/21/12 15:50	09/25/12 18:25	7440-39-3	B
Beryllium, Dissolved	**8.3**	ug/L	5.0	10	09/21/12 15:50	09/25/12 18:25	7440-41-7	
Cadmium, Dissolved	**206**	ug/L	0.50	1	09/21/12 15:50	09/25/12 22:21	7440-43-9	
Chromium, Dissolved	**4.3**	ug/L	1.0	1	09/21/12 15:50	09/25/12 22:21	7440-47-3	B
Cobalt, Dissolved	**67.8**	ug/L	1.0	1	09/21/12 15:50	09/25/12 22:21	7440-48-4	
Copper, Dissolved	**112**	ug/L	1.0	1	09/21/12 15:50	09/25/12 22:21	7440-50-8	
Iron, Dissolved	**349000**	ug/L	500	10	09/21/12 15:50	09/25/12 18:25	7439-89-6	B
Lead, Dissolved	**736**	ug/L	10.0	10	09/21/12 15:50	09/25/12 18:25	7439-92-1	B
Manganese, Dissolved	**15900**	ug/L	10.0	10	09/21/12 15:50	09/25/12 18:25	7439-96-5	B
Molybdenum, Dissolved	**0.38J**	ug/L	1.0	1	09/21/12 15:50	09/25/12 22:21	7439-98-7	
Nickel, Dissolved	**126**	ug/L	10.0	10	09/21/12 15:50	09/25/12 18:25	7440-02-0	
Selenium, Dissolved	**3.2**	ug/L	1.0	1	09/21/12 15:50	09/25/12 22:21	7782-49-2	
Silver, Dissolved	**0.18J**	ug/L	0.50	1	09/21/12 15:50	09/25/12 22:21	7440-22-4	
Thallium, Dissolved	**0.41J**	ug/L	10.0	10	09/21/12 15:50	09/25/12 18:25	7440-28-0	
Vanadium, Dissolved	**4.0**	ug/L	1.0	1	09/21/12 15:50	09/25/12 22:21	7440-62-2	
Zinc, Dissolved	**67900**	ug/L	100	10	09/21/12 15:50	09/25/12 18:25	7440-66-6	B
245.1 Mercury	Analytical Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/26/12 15:18	10/02/12 13:56	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/20/12 15:00	10/03/12 14:06	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	09/21/12 15:00	09/24/12 13:16	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**3310**	umhos/cm	10.0	1		09/21/12 16:31		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: MW-5-SHALLOW_20120911 **Lab ID: 60128986027** Collected: 09/11/12 14:52 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**2120**	mg/L	6.0	1		09/23/12 09:54		
Salinity (as seawater)	**1.7**	PSU	0.010	1		09/23/12 09:54		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	20.0	1		09/26/12 08:53		H1
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/26/12 08:53		H1
Alkalinity, Total as CaCO3	ND	mg/L	20.0	1		09/26/12 08:53		H1
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**3820**	mg/L	5.0	1		09/17/12 15:00		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**260**	mg/L	5.0	1		09/17/12 09:57		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/17/12 15:05	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.4**	mg/L	1.0	1		09/25/12 16:12	16887-00-6	
Sulfate	**3220**	mg/L	500	500		09/25/12 23:00	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/19/12 16:17		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/24/12 17:53	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.3**	mg/L	1.0	1		09/28/12 09:57	7440-44-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: MW-6-DEEP_20120911 **Lab ID: 60128986028** Collected: 09/11/12 16:05 Received: 09/14/12 10:15 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	**228000**	ug/L	500	5	09/21/12 16:55	09/26/12 11:38	7440-70-2	
Magnesium, Dissolved	**32300**	ug/L	250	5	09/21/12 16:55	09/26/12 11:38	7439-95-4	
Potassium, Dissolved	**4240**	ug/L	2500	5	09/21/12 16:55	09/26/12 11:38	7440-09-7	
Sodium, Dissolved	**4610**	ug/L	2500	5	09/21/12 16:55	09/26/12 11:38	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	**228**	ug/L	4.0	1	10/11/12 13:57	10/12/12 11:11	7429-90-5	
Antimony	ND	ug/L	0.50	1	10/11/12 13:57	10/12/12 11:11	7440-36-0	
Arsenic	**8.7**	ug/L	0.50	1	10/11/12 13:57	10/12/12 11:11	7440-38-2	
Barium	**17.1**	ug/L	0.30	1	10/11/12 13:57	10/12/12 11:11	7440-39-3	
Beryllium	**0.46**	ug/L	0.20	1	10/11/12 13:57	10/12/12 11:11	7440-41-7	
Cadmium	**0.42**	ug/L	0.080	1	10/11/12 13:57	10/12/12 11:11	7440-43-9	
Calcium	**241000**	ug/L	400	20	10/11/12 13:57	10/12/12 11:15	7440-70-2	
Chromium	ND	ug/L	0.50	1	10/11/12 13:57	10/12/12 11:11	7440-47-3	
Cobalt	**2.4**	ug/L	0.50	1	10/11/12 13:57	10/12/12 11:11	7440-48-4	
Copper	**3.0**	ug/L	0.50	1	10/11/12 13:57	10/12/12 11:11	7440-50-8	
Iron	**6060**	ug/L	50.0	1	10/11/12 13:57	10/12/12 11:11	7439-89-6	
Lead	**5.8**	ug/L	0.10	1	10/11/12 13:57	10/12/12 11:11	7439-92-1	
Magnesium	**32600**	ug/L	100	20	10/11/12 13:57	10/12/12 11:15	7439-95-4	
Manganese	**5450**	ug/L	10.0	20	10/11/12 13:57	10/12/12 11:15	7439-96-5	
Molybdenum	**4.8**	ug/L	0.50	1	10/11/12 13:57	10/12/12 11:11	7439-98-7	
Nickel	**2.8**	ug/L	0.50	1	10/11/12 13:57	10/12/12 11:11	7440-02-0	
Potassium	**4730**	ug/L	20.0	1	10/11/12 13:57	10/12/12 11:11	7440-09-7	
Selenium	**0.95**	ug/L	0.50	1	10/11/12 13:57	10/12/12 11:11	7782-49-2	
Silica	**13900**	ug/L	1070	20	10/11/12 13:57	10/12/12 11:15	7631-86-9	
Silver	ND	ug/L	0.50	1	10/11/12 13:57	10/12/12 11:11	7440-22-4	
Sodium	**5230**	ug/L	50.0	1	10/11/12 13:57	10/12/12 11:11	7440-23-5	
Thallium	ND	ug/L	0.10	1	10/11/12 13:57	10/12/12 11:11	7440-28-0	
Total Hardness by 2340B	**736000**	ug/L	1420	20	10/11/12 13:57	10/12/12 11:15		
Vanadium	**0.14**	ug/L	0.10	1	10/11/12 13:57	10/12/12 11:11	7440-62-2	
Zinc	**1340**	ug/L	100	20	10/11/12 13:57	10/12/12 11:15	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	**142**	ug/L	4.0	1	09/27/12 15:11	10/08/12 01:25	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/08/12 01:25	7440-36-0	
Arsenic, Dissolved	**2.1**	ug/L	0.50	1	09/27/12 15:11	10/08/12 01:25	7440-38-2	
Barium, Dissolved	**16.8**	ug/L	0.30	1	09/27/12 15:11	10/08/12 01:25	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	09/27/12 15:11	10/08/12 15:21	7440-41-7	
Cadmium, Dissolved	**0.34**	ug/L	0.080	1	09/27/12 15:11	10/08/12 01:25	7440-43-9	
Calcium, Dissolved	**254000**	ug/L	400	20	09/27/12 15:11	10/08/12 01:31	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/08/12 01:25	7440-47-3	
Cobalt, Dissolved	**2.4**	ug/L	0.50	1	09/27/12 15:11	10/08/12 01:25	7440-48-4	
Copper, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/08/12 01:25	7440-50-8	
Iron, Dissolved	**4920**	ug/L	50.0	1	09/27/12 15:11	10/08/12 01:25	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	09/27/12 15:11	10/08/12 01:25	7439-92-1	
Magnesium, Dissolved	**34000**	ug/L	100	20	09/27/12 15:11	10/08/12 01:31	7439-95-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: MW-6-DEEP_20120911 **Lab ID: 60128986028** Collected: 09/11/12 16:05 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	**5820**	ug/L	10.0	20	09/27/12 15:11	10/08/12 01:31	7439-96-5	
Molybdenum, Dissolved	**5.2**	ug/L	0.50	1	09/27/12 15:11	10/08/12 01:25	7439-98-7	
Nickel, Dissolved	**3.1**	ug/L	0.50	1	09/27/12 15:11	10/08/12 01:25	7440-02-0	
Potassium, Dissolved	**4770**	ug/L	20.0	1	09/27/12 15:11	10/08/12 01:25	7440-09-7	
Selenium, Dissolved	**0.93**	ug/L	0.50	1	09/27/12 15:11	10/08/12 01:25	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/08/12 01:25	7440-22-4	
Sodium, Dissolved	**5270**	ug/L	50.0	1	09/27/12 15:11	10/08/12 01:25	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/27/12 15:11	10/08/12 01:25	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	09/27/12 15:11	10/08/12 01:25	7440-62-2	
Zinc, Dissolved	**1340**	ug/L	100	20	09/27/12 15:11	10/08/12 01:31	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**321**	ug/L	250	5	09/21/12 15:50	09/25/12 18:29	7429-90-5	
Antimony, Dissolved	**0.30J**	ug/L	5.0	5	09/21/12 15:50	09/25/12 18:29	7440-36-0	
Arsenic, Dissolved	**8.0**	ug/L	1.0	1	09/21/12 15:50	09/25/12 21:39	7440-38-2	
Barium, Dissolved	**16.6**	ug/L	5.0	5	09/21/12 15:50	09/25/12 18:29	7440-39-3	B
Beryllium, Dissolved	**0.47J**	ug/L	0.50	1	09/21/12 15:50	09/25/12 21:39	7440-41-7	
Cadmium, Dissolved	**0.42J**	ug/L	0.50	1	09/21/12 15:50	09/25/12 21:39	7440-43-9	
Chromium, Dissolved	**0.92J**	ug/L	1.0	1	09/21/12 15:50	09/25/12 21:39	7440-47-3	B
Cobalt, Dissolved	**2.2**	ug/L	1.0	1	09/21/12 15:50	09/25/12 21:39	7440-48-4	
Copper, Dissolved	**3.7**	ug/L	1.0	1	09/21/12 15:50	09/25/12 21:39	7440-50-8	
Iron, Dissolved	**5910**	ug/L	50.0	1	09/21/12 15:50	09/25/12 21:39	7439-89-6	B
Lead, Dissolved	**6.6**	ug/L	5.0	5	09/21/12 15:50	09/25/12 18:29	7439-92-1	B
Manganese, Dissolved	**5400**	ug/L	5.0	5	09/21/12 15:50	09/25/12 18:29	7439-96-5	B
Molybdenum, Dissolved	**4.8**	ug/L	1.0	1	09/21/12 15:50	09/25/12 21:39	7439-98-7	
Nickel, Dissolved	**1.4**	ug/L	1.0	1	09/21/12 15:50	09/25/12 21:39	7440-02-0	
Selenium, Dissolved	**1.1**	ug/L	1.0	1	09/21/12 15:50	09/25/12 21:39	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/21/12 15:50	09/25/12 21:39	7440-22-4	
Thallium, Dissolved	ND	ug/L	5.0	5	09/21/12 15:50	09/25/12 18:29	7440-28-0	D3
Vanadium, Dissolved	ND	ug/L	1.0	1	09/21/12 15:50	09/25/12 21:39	7440-62-2	
Zinc, Dissolved	**1320**	ug/L	10.0	1	09/21/12 15:50	09/25/12 21:39	7440-66-6	B
245.1 Mercury	Analytical Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/26/12 15:18	10/02/12 14:03	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/20/12 15:00	10/03/12 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	09/21/12 15:00	09/24/12 13:18	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**1280**	umhos/cm	10.0	1		09/21/12 16:33		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**816**	mg/L	6.0	1		09/23/12 09:54		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: MW-6-DEEP_20120911 **Lab ID: 60128986028** Collected: 09/11/12 16:05 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.63**	PSU	0.010	1		09/23/12 09:54		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**183**	mg/L	20.0	1		09/26/12 08:57		H1
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/26/12 08:57		H1
Alkalinity, Total as CaCO3	**183**	mg/L	20.0	1		09/26/12 08:57		H1
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1010**	mg/L	5.0	1		09/17/12 15:00		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**11.0**	mg/L	5.0	1		09/17/12 09:58		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/17/12 15:06	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.1**	mg/L	1.0	1		09/25/12 16:43	16887-00-6	
Sulfate	**594**	mg/L	50.0	50		09/25/12 16:59	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/19/12 16:18		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/24/12 17:53	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		09/28/12 10:12	7440-44-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: MW-6-SHALLOW_20120911 **Lab ID: 60128986029** Collected: 09/11/12 15:55 Received: 09/14/12 10:15 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	**343000**	ug/L	500	5	09/21/12 16:55	09/26/12 11:40	7440-70-2	
Magnesium, Dissolved	**55800**	ug/L	250	5	09/21/12 16:55	09/26/12 11:40	7439-95-4	
Potassium, Dissolved	**10500**	ug/L	2500	5	09/21/12 16:55	09/26/12 11:40	7440-09-7	
Sodium, Dissolved	**3220**	ug/L	2500	5	09/21/12 16:55	09/26/12 11:40	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	**31100**	ug/L	80.0	20	09/26/12 13:18	10/06/12 15:29	7429-90-5	
Antimony	**0.71**	ug/L	0.50	1	09/26/12 13:18	10/06/12 15:23	7440-36-0	
Arsenic	**116**	ug/L	0.50	1	09/26/12 13:18	10/06/12 15:23	7440-38-2	
Barium	**152**	ug/L	0.30	1	09/26/12 13:18	10/06/12 15:23	7440-39-3	
Beryllium	**1.9**	ug/L	0.20	1	09/26/12 13:18	10/06/12 15:23	7440-41-7	
Cadmium	**23.4**	ug/L	0.080	1	09/26/12 13:18	10/06/12 15:23	7440-43-9	
Calcium	**328000**	ug/L	400	20	09/26/12 13:18	10/06/12 15:29	7440-70-2	
Chromium	**19.7**	ug/L	0.50	1	09/26/12 13:18	10/06/12 15:23	7440-47-3	
Cobalt	**17.4**	ug/L	0.50	1	09/26/12 13:18	10/06/12 15:23	7440-48-4	
Copper	**170**	ug/L	0.50	1	09/26/12 13:18	10/06/12 15:23	7440-50-8	
Iron	**83500**	ug/L	1000	20	09/26/12 13:18	10/06/12 15:29	7439-89-6	
Lead	**274**	ug/L	0.10	1	09/26/12 13:18	10/06/12 15:23	7439-92-1	
Magnesium	**65200**	ug/L	100	20	09/26/12 13:18	10/06/12 15:29	7439-95-4	
Manganese	**7380**	ug/L	10.0	20	09/26/12 13:18	10/06/12 15:29	7439-96-5	
Molybdenum	**8.5**	ug/L	0.50	1	09/26/12 13:18	10/06/12 15:23	7439-98-7	
Nickel	**32.1**	ug/L	0.50	1	09/26/12 13:18	10/06/12 15:23	7440-02-0	
Potassium	**12800**	ug/L	20.0	1	09/26/12 13:18	10/06/12 15:23	7440-09-7	
Selenium	**4.0**	ug/L	0.50	1	09/26/12 13:18	10/06/12 15:23	7782-49-2	
Silica	**126000**	ug/L	5350	100	09/26/12 13:18	10/06/12 15:35	7631-86-9	
Silver	**1.4**	ug/L	0.50	1	09/26/12 13:18	10/06/12 15:23	7440-22-4	
Sodium	**3800**	ug/L	50.0	1	09/26/12 13:18	10/06/12 15:23	7440-23-5	
Thallium	**0.70**	ug/L	0.10	1	09/26/12 13:18	10/06/12 15:23	7440-28-0	
Total Hardness by 2340B	**1090000**	ug/L	1420	20	09/26/12 13:18	10/06/12 15:29		
Vanadium	**30.8**	ug/L	0.10	1	09/26/12 13:18	10/06/12 15:23	7440-62-2	
Zinc	**4280**	ug/L	100	20	09/26/12 13:18	10/08/12 07:19	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	**914**	ug/L	4.0	1	09/27/12 15:11	10/08/12 01:37	7429-90-5	M6
Antimony, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/08/12 01:37	7440-36-0	
Arsenic, Dissolved	**43.9**	ug/L	0.50	1	09/27/12 15:11	10/08/12 01:37	7440-38-2	
Barium, Dissolved	**16.3**	ug/L	0.30	1	09/27/12 15:11	10/08/12 01:37	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	09/27/12 15:11	10/08/12 15:27	7440-41-7	
Cadmium, Dissolved	**0.17**	ug/L	0.080	1	09/27/12 15:11	10/08/12 01:37	7440-43-9	
Calcium, Dissolved	**375000**	ug/L	400	20	09/27/12 15:11	10/08/12 01:43	7440-70-2	M6
Chromium, Dissolved	**0.52**	ug/L	0.50	1	09/27/12 15:11	10/08/12 01:37	7440-47-3	
Cobalt, Dissolved	**3.7**	ug/L	0.50	1	09/27/12 15:11	10/08/12 01:37	7440-48-4	
Copper, Dissolved	**1.3**	ug/L	0.50	1	09/27/12 15:11	10/08/12 01:37	7440-50-8	
Iron, Dissolved	**51200**	ug/L	1000	20	09/27/12 15:11	10/08/12 01:43	7439-89-6	M6
Lead, Dissolved	**1.4**	ug/L	0.10	1	09/27/12 15:11	10/08/12 01:37	7439-92-1	
Magnesium, Dissolved	**53500**	ug/L	100	20	09/27/12 15:11	10/08/12 01:43	7439-95-4	M6

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: MW-6-SHALLOW_20120911 **Lab ID: 60128986029** Collected: 09/11/12 15:55 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Manganese, Dissolved	**7070**	ug/L	10.0	20	09/27/12 15:11	10/08/12 01:43	7439-96-5	M6
Molybdenum, Dissolved	**4.9**	ug/L	0.50	1	09/27/12 15:11	10/08/12 01:37	7439-98-7	
Nickel, Dissolved	**5.0**	ug/L	0.50	1	09/27/12 15:11	10/08/12 01:37	7440-02-0	
Potassium, Dissolved	**11600**	ug/L	20.0	1	09/27/12 15:11	10/08/12 01:37	7440-09-7	M6
Selenium, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/08/12 01:37	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/27/12 15:11	10/08/12 01:37	7440-22-4	
Sodium, Dissolved	**3740**	ug/L	50.0	1	09/27/12 15:11	10/08/12 01:37	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	09/27/12 15:11	10/08/12 01:37	7440-28-0	
Vanadium, Dissolved	**0.20**	ug/L	0.10	1	09/27/12 15:11	10/08/12 01:37	7440-62-2	
Zinc, Dissolved	**678**	ug/L	100	20	09/27/12 15:11	10/08/12 01:43	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**15800**	ug/L	250	5	09/21/12 15:50	09/25/12 18:34	7429-90-5	
Antimony, Dissolved	ND	ug/L	5.0	5	09/21/12 15:50	09/25/12 18:34	7440-36-0	D3
Arsenic, Dissolved	**100**	ug/L	1.0	1	09/21/12 15:50	09/25/12 21:43	7440-38-2	
Barium, Dissolved	**31.6**	ug/L	5.0	5	09/21/12 15:50	09/25/12 18:34	7440-39-3	B
Beryllium, Dissolved	**2.0**	ug/L	0.50	1	09/21/12 15:50	09/25/12 21:43	7440-41-7	
Cadmium, Dissolved	**33.8**	ug/L	0.50	1	09/21/12 15:50	09/25/12 21:43	7440-43-9	
Chromium, Dissolved	**14.0**	ug/L	1.0	1	09/21/12 15:50	09/25/12 21:43	7440-47-3	B
Cobalt, Dissolved	**16.1**	ug/L	1.0	1	09/21/12 15:50	09/25/12 21:43	7440-48-4	
Copper, Dissolved	**175**	ug/L	1.0	1	09/21/12 15:50	09/25/12 21:43	7440-50-8	
Iron, Dissolved	**68500**	ug/L	50.0	1	09/21/12 15:50	09/25/12 21:43	7439-89-6	B
Lead, Dissolved	**428**	ug/L	5.0	5	09/21/12 15:50	09/25/12 18:34	7439-92-1	B
Manganese, Dissolved	**6680**	ug/L	5.0	5	09/21/12 15:50	09/25/12 18:34	7439-96-5	B
Molybdenum, Dissolved	**1.8**	ug/L	1.0	1	09/21/12 15:50	09/25/12 21:43	7439-98-7	
Nickel, Dissolved	**26.6**	ug/L	1.0	1	09/21/12 15:50	09/25/12 21:43	7440-02-0	
Selenium, Dissolved	**1.2**	ug/L	1.0	1	09/21/12 15:50	09/25/12 21:43	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	09/21/12 15:50	09/25/12 21:43	7440-22-4	
Thallium, Dissolved	**0.56J**	ug/L	5.0	5	09/21/12 15:50	09/25/12 18:34	7440-28-0	
Vanadium, Dissolved	**17.1**	ug/L	1.0	1	09/21/12 15:50	09/25/12 21:43	7440-62-2	
Zinc, Dissolved	**6120**	ug/L	10.0	1	09/21/12 15:50	09/25/12 21:43	7440-66-6	B
245.1 Mercury	Analytical Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/26/12 15:18	10/02/12 14:05	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/20/12 15:00	10/03/12 14:11	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	09/21/12 15:00	09/24/12 13:21	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**1790**	umhos/cm	10.0	1		09/21/12 16:34		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Sample: MW-6-SHALLOW_20120911 **Lab ID: 60128986029** Collected: 09/11/12 15:55 Received: 09/14/12 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**1150**	mg/L	6.0	1		09/23/12 09:54		
Salinity (as seawater)	**0.90**	PSU	0.010	1		09/23/12 09:54		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**85.4**	mg/L	20.0	1		09/26/12 09:02		H1
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/26/12 09:02		H1
Alkalinity, Total as CaCO3	**85.4**	mg/L	20.0	1		09/26/12 09:02		H1
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1630**	mg/L	5.0	1		09/17/12 15:00		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**1460**	mg/L	5.0	1		09/17/12 09:58		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		09/17/12 15:08	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.6**	mg/L	1.0	1		09/25/12 17:14	16887-00-6	
Sulfate	**1170**	mg/L	100	100		09/25/12 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		09/19/12 16:20		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/24/12 17:56	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.2**	mg/L	1.0	1		09/28/12 10:26	7440-44-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Appendix D

Laboratory QC Results

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

QC Batch: ICPM/35240 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: 200.8 MET
Associated Lab Samples: 60128975001, 60128975005

METHOD BLANK: 1290934 Matrix: Water
Associated Lab Samples: 60128975001, 60128975005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	4.0	10/05/12 22:20	
Antimony	ug/L	ND	0.50	10/05/12 22:20	
Arsenic	ug/L	ND	0.50	10/05/12 22:20	
Barium	ug/L	ND	0.30	10/05/12 22:20	
Beryllium	ug/L	ND	0.20	10/05/12 22:20	
Cadmium	ug/L	0.10	0.080	10/10/12 06:39	P8
Calcium	ug/L	ND	20.0	10/05/12 22:20	
Chromium	ug/L	ND	0.50	10/05/12 22:20	
Cobalt	ug/L	ND	0.50	10/05/12 22:20	
Copper	ug/L	ND	0.50	10/05/12 22:20	
Iron	ug/L	ND	50.0	10/05/12 22:20	
Lead	ug/L	ND	0.10	10/10/12 06:39	
Magnesium	ug/L	ND	5.0	10/10/12 06:39	
Manganese	ug/L	0.70	0.50	10/05/12 22:20	
Molybdenum	ug/L	ND	0.50	10/05/12 22:20	
Nickel	ug/L	ND	0.50	10/05/12 22:20	
Potassium	ug/L	ND	20.0	10/10/12 06:39	
Selenium	ug/L	ND	0.50	10/05/12 22:20	
Silica	ug/L	ND	53.5	10/05/12 22:20	
Silver	ug/L	ND	0.50	10/05/12 22:20	
Sodium	ug/L	ND	50.0	10/05/12 22:20	
Thallium	ug/L	ND	0.10	10/05/12 22:20	
Total Hardness by 2340B	ug/L	ND	71.0	10/10/12 06:39	
Vanadium	ug/L	ND	0.10	10/05/12 22:20	
Zinc	ug/L	ND	5.0	10/05/12 22:20	

LABORATORY CONTROL SAMPLE: 1290935

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	80	89.4	112	85-115	
Antimony	ug/L	80	77.5	97	85-115	
Arsenic	ug/L	80	82.3	103	85-115	
Barium	ug/L	80	78.6	98	85-115	
Beryllium	ug/L	80	80.5	101	85-115	
Cadmium	ug/L	80	81.2	102	85-115	
Calcium	ug/L	1000	1080	108	85-115	
Chromium	ug/L	80	80.9	101	85-115	
Cobalt	ug/L	80	84.6	106	85-115	
Copper	ug/L	80	84.5	106	85-115	
Iron	ug/L	1000	997	100	85-115	
Lead	ug/L	80	76.9	96	85-115	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

LABORATORY CONTROL SAMPLE: 1290935

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Magnesium	ug/L	1000	1050	105	85-115	
Manganese	ug/L	80	76.6	96	85-115	
Molybdenum	ug/L	80	82.7	103	85-115	
Nickel	ug/L	80	82.6	103	85-115	
Potassium	ug/L	1000	1030	103	85-115	
Selenium	ug/L	80	77.9	97	85-115	
Silica	ug/L	2140	2240	104	85-115	
Silver	ug/L	80	84.4	105	85-115	
Sodium	ug/L	1000	985	98	85-115	
Thallium	ug/L	80	82.6	103	85-115	
Total Hardness by 2340B	ug/L	6620	7020	106	85-115	
Vanadium	ug/L	80	79.2	99	85-115	
Zinc	ug/L	80	77.6	97	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1290936 1290937

Parameter	Units	60128986020 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	137	80	80	245	239	134	128	70-130	2	20	M1
Antimony	ug/L	ND	80	80	78.9	77.5	98	96	70-130	2	20	
Arsenic	ug/L	0.74	80	80	84.1	84.0	104	104	70-130	.1	20	
Barium	ug/L	17.9	80	80	97.9	94.7	100	96	70-130	3	20	
Beryllium	ug/L	ND	80	80	80.7	79.8	101	100	70-130	1	20	
Cadmium	ug/L	1.4	80	80	82.4	81.4	101	100	70-130	1	20	
Calcium	ug/L	124000	1000	1000	133000	130000	922	632	70-130	2	20	E,M1
Chromium	ug/L	3.1	80	80	82.3	82.0	99	99	70-130	.3	20	
Cobalt	ug/L	ND	80	80	83.6	82.8	104	103	70-130	1	20	
Copper	ug/L	5.0	80	80	86.8	86.2	102	102	70-130	.6	20	
Iron	ug/L	387	1000	1000	1340	1340	96	95	70-130	.7	20	
Lead	ug/L	6.6	80	80	82.2	81.4	94	94	70-130	.9	20	
Magnesium	ug/L	10900	1000	1000	11900	13200	108	233	70-130	10	20	M6
Manganese	ug/L	51.2	80	80	127	127	95	94	70-130	.4	20	
Molybdenum	ug/L	7.1	80	80	91.2	89.0	105	102	70-130	2	20	
Nickel	ug/L	0.86	80	80	81.9	81.0	101	100	70-130	1	20	
Potassium	ug/L	8250	1000	1000	9430	10500	118	223	70-130	11	20	M6
Selenium	ug/L	6.0	80	80	82.8	83.4	96	97	70-130	.8	20	
Silica	ug/L	10600	2140	2140	13500	13500	135	135	70-130	0	20	M1
Silver	ug/L	ND	80	80	80.0	79.1	100	99	70-130	1	20	
Sodium	ug/L	16600	1000	1000	17000	17200	42	62	70-130	1	20	M1
Thallium	ug/L	ND	80	80	79.8	78.8	100	98	70-130	1	20	
Total Hardness by 2340B	ug/L	355000	6620	6620	382000	380000	415	383	70-130	.5	20	M1
Vanadium	ug/L	0.82	80	80	78.7	78.2	97	97	70-130	.6	20	
Zinc	ug/L	2250	80	80	2320	2300	82	56	70-130	.9	20	E,M1

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

MATRIX SPIKE SAMPLE: 1290938

Parameter	Units	60128975001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	392	80	502	136	70-130	M1
Antimony	ug/L	ND	80	78.0	97	70-130	
Arsenic	ug/L	ND	80	82.6	102	70-130	
Barium	ug/L	68.2	80	148	100	70-130	
Beryllium	ug/L	ND	80	83.6	104	70-130	
Cadmium	ug/L	ND	80	80.2	100	70-130	
Calcium	ug/L	34500	1000	35500	106	70-130	
Chromium	ug/L	ND	80	80.8	99	70-130	
Cobalt	ug/L	ND	80	82.8	103	70-130	
Copper	ug/L	ND	80	82.0	101	70-130	
Iron	ug/L	300	1000	1270	97	70-130	
Lead	ug/L	0.39	80	78.2	97	70-130	
Magnesium	ug/L	5820	1000	7270	145	70-130	M6
Manganese	ug/L	15.2	80	93.5	98	70-130	
Molybdenum	ug/L	ND	80	81.0	100	70-130	
Nickel	ug/L	ND	80	80.4	99	70-130	
Potassium	ug/L	857	1000	1890	103	70-130	
Selenium	ug/L	ND	80	80.1	99	70-130	
Silica	ug/L	8010	2140	9620	75	70-130	
Silver	ug/L	ND	80	82.8	103	70-130	
Sodium	ug/L	2380	1000	3380	100	70-130	
Thallium	ug/L	ND	80	82.9	103	70-130	
Total Hardness by 2340B	ug/L	110000	6620	119000	131	70-130	M1
Vanadium	ug/L	1.1	80	79.8	98	70-130	
Zinc	ug/L	32.8	80	78.0	57	70-130	M1

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

QC Batch: ICPM/35241 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: 200.8 MET
Associated Lab Samples: 60128975009, 60128975010, 60128975011, 60128975012, 60128975013, 60128975014, 60128975015, 60128975016, 60128975017, 60128975018, 60128975019, 60128975020, 60128975021, 60128975022, 60128975023, 60128975024, 60128975025, 60128975026, 60128975027

METHOD BLANK: 1290939 Matrix: Water
Associated Lab Samples: 60128975009, 60128975010, 60128975011, 60128975012, 60128975013, 60128975014, 60128975015, 60128975016, 60128975017, 60128975018, 60128975019, 60128975020, 60128975021, 60128975022, 60128975023, 60128975024, 60128975025, 60128975026, 60128975027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	4.0	10/08/12 10:15	
Antimony	ug/L	ND	0.50	10/07/12 05:24	
Arsenic	ug/L	ND	0.50	10/07/12 05:24	
Barium	ug/L	ND	0.30	10/07/12 05:24	
Beryllium	ug/L	ND	0.20	10/07/12 05:24	
Cadmium	ug/L	ND	0.080	10/07/12 05:24	
Calcium	ug/L	ND	20.0	10/07/12 05:24	
Chromium	ug/L	ND	0.50	10/07/12 05:24	
Cobalt	ug/L	ND	0.50	10/07/12 05:24	
Copper	ug/L	ND	0.50	10/07/12 05:24	
Iron	ug/L	ND	50.0	10/07/12 05:24	
Lead	ug/L	ND	0.10	10/07/12 05:24	
Magnesium	ug/L	ND	5.0	10/10/12 14:05	
Manganese	ug/L	ND	0.50	10/07/12 05:24	
Molybdenum	ug/L	ND	0.50	10/07/12 05:24	
Nickel	ug/L	ND	0.50	10/07/12 05:24	
Potassium	ug/L	ND	20.0	10/10/12 14:05	
Selenium	ug/L	ND	0.50	10/07/12 05:24	
Silica	ug/L	ND	53.5	10/10/12 14:05	
Silver	ug/L	ND	0.50	10/07/12 05:24	
Sodium	ug/L	ND	50.0	10/07/12 05:24	
Thallium	ug/L	ND	0.10	10/07/12 05:24	
Total Hardness by 2340B	ug/L	ND	71.0	10/10/12 14:05	
Vanadium	ug/L	ND	0.10	10/07/12 05:24	
Zinc	ug/L	ND	5.0	10/08/12 10:15	

LABORATORY CONTROL SAMPLE: 1290940

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	80	83.1	104	85-115	
Antimony	ug/L	80	83.3	104	85-115	
Arsenic	ug/L	80	82.6	103	85-115	
Barium	ug/L	80	82.3	103	85-115	
Beryllium	ug/L	80	84.7	106	85-115	
Cadmium	ug/L	80	82.8	104	85-115	
Calcium	ug/L	1000	1080	108	85-115	
Chromium	ug/L	80	83.0	104	85-115	
Cobalt	ug/L	80	79.0	99	85-115	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

LABORATORY CONTROL SAMPLE: 1290940

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Copper	ug/L	80	81.0	101	85-115	
Iron	ug/L	1000	1090	109	85-115	
Lead	ug/L	80	85.0	106	85-115	
Magnesium	ug/L	1000	1080	108	85-115	
Manganese	ug/L	80	82.0	102	85-115	
Molybdenum	ug/L	80	80.0	100	85-115	
Nickel	ug/L	80	78.3	98	85-115	
Potassium	ug/L	1000	1050	105	85-115	
Selenium	ug/L	80	84.5	106	85-115	
Silica	ug/L	2140	2320	108	85-115	
Silver	ug/L	80	85.4	107	85-115	
Sodium	ug/L	1000	981	98	85-115	
Thallium	ug/L	80	86.7	108	85-115	
Total Hardness by 2340B	ug/L	6620	7120	108	85-115	
Vanadium	ug/L	80	82.1	103	85-115	
Zinc	ug/L	80	78.8	98	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1290941 1290942

Parameter	Units	60128975009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	346	80	80	711	692	457	432	70-130	3	20	M1
Antimony	ug/L	ND	80	80	83.2	83.0	104	104	70-130	.3	20	
Arsenic	ug/L	0.51	80	80	83.6	83.1	104	103	70-130	.5	20	
Barium	ug/L	72.6	80	80	155	155	103	103	70-130	.03	20	
Beryllium	ug/L	ND	80	80	84.9	85.1	106	106	70-130	.2	20	
Cadmium	ug/L	ND	80	80	83.0	81.7	104	102	70-130	2	20	
Calcium	ug/L	48200	1000	1000	48200	48300	-.5	10	70-130	.2	20	M1
Chromium	ug/L	0.63	80	80	82.6	82.9	102	103	70-130	.4	20	
Cobalt	ug/L	ND	80	80	79.0	78.6	98	98	70-130	.4	20	
Copper	ug/L	1.1	80	80	80.4	79.4	99	98	70-130	1	20	
Iron	ug/L	453	1000	1000	1540	1530	109	107	70-130	.8	20	
Lead	ug/L	0.51	80	80	84.6	83.5	105	104	70-130	1	20	
Magnesium	ug/L	6860	1000	1000	8020	7780	116	92	70-130	3	20	
Manganese	ug/L	89.2	80	80	170	170	101	101	70-130	.06	20	
Molybdenum	ug/L	1.3	80	80	81.6	81.8	100	101	70-130	.3	20	
Nickel	ug/L	0.64	80	80	77.4	78.2	96	97	70-130	1	20	
Potassium	ug/L	983	1000	1000	2080	2040	110	105	70-130	2	20	
Selenium	ug/L	ND	80	80	84.0	84.2	104	105	70-130	.2	20	
Silica	ug/L	7550	2140	2140	11600	11400	190	182	70-130	2	20	M1
Silver	ug/L	ND	80	80	83.9	84.0	105	105	70-130	.1	20	
Sodium	ug/L	2720	1000	1000	3640	3660	92	94	70-130	.7	20	
Thallium	ug/L	ND	80	80	85.6	84.6	107	106	70-130	1	20	
Total Hardness by 2340B	ug/L	149000	6620	6620	153000	153000	72	61	70-130	.5	20	
Vanadium	ug/L	0.90	80	80	83.8	83.6	104	103	70-130	.1	20	
Zinc	ug/L	ND	80	80	77.7	75.2	93	89	70-130	3	20	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

MATRIX SPIKE SAMPLE: 1290943

Parameter	Units	60128975019 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	218	80	930	890	70-130	M1
Antimony	ug/L	ND	80	85.4	107	70-130	
Arsenic	ug/L	0.62	80	86.5	107	70-130	
Barium	ug/L	72.3	80	162	112	70-130	
Beryllium	ug/L	ND	80	80.6	101	70-130	
Cadmium	ug/L	0.26	80	85.6	107	70-130	
Calcium	ug/L	57600	1000	59200	170	70-130	M1
Chromium	ug/L	ND	80	86.4	107	70-130	
Cobalt	ug/L	ND	80	80.7	101	70-130	
Copper	ug/L	0.84	80	81.7	101	70-130	
Iron	ug/L	450	1000	1790	134	70-130	M1
Lead	ug/L	0.57	80	85.2	106	70-130	
Magnesium	ug/L	7920	1000	9160	124	70-130	
Manganese	ug/L	132	80	222	112	70-130	
Molybdenum	ug/L	1.2	80	82.8	102	70-130	
Nickel	ug/L	0.64	80	79.4	99	70-130	
Potassium	ug/L	1170	1000	2280	111	70-130	
Selenium	ug/L	ND	80	87.5	109	70-130	
Silica	ug/L	9870	2140	12500	124	70-130	
Silver	ug/L	ND	80	85.4	107	70-130	
Sodium	ug/L	3300	1000	4370	108	70-130	
Thallium	ug/L	ND	80	88.9	111	70-130	
Total Hardness by 2340B	ug/L	176000	6620	186000	141	70-130	M1
Vanadium	ug/L	0.64	80	87.2	108	70-130	
Zinc	ug/L	46.5	80	163	145	70-130	M1

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

QC Batch: ICPM/35654 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: 200.8 MET
Associated Lab Samples: 60128975002, 60128975003, 60128975004, 60128975006, 60128975007, 60128975008

METHOD BLANK: 1306967 Matrix: Water
Associated Lab Samples: 60128975002, 60128975003, 60128975004, 60128975006, 60128975007, 60128975008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	4.0	10/12/12 10:52	
Antimony	ug/L	ND	0.50	10/12/12 10:52	
Arsenic	ug/L	ND	0.50	10/12/12 10:52	
Barium	ug/L	ND	0.30	10/12/12 10:52	
Beryllium	ug/L	ND	0.20	10/12/12 10:52	
Cadmium	ug/L	ND	0.080	10/12/12 10:52	
Calcium	ug/L	ND	20.0	10/12/12 10:52	
Chromium	ug/L	ND	0.50	10/12/12 10:52	
Cobalt	ug/L	ND	0.50	10/12/12 10:52	
Copper	ug/L	ND	0.50	10/12/12 10:52	
Iron	ug/L	ND	50.0	10/12/12 10:52	
Lead	ug/L	ND	0.10	10/12/12 10:52	
Magnesium	ug/L	ND	5.0	10/12/12 10:52	
Manganese	ug/L	ND	0.50	10/12/12 10:52	
Molybdenum	ug/L	ND	0.50	10/12/12 10:52	
Nickel	ug/L	ND	0.50	10/12/12 10:52	
Potassium	ug/L	ND	20.0	10/12/12 10:52	
Selenium	ug/L	ND	0.50	10/12/12 10:52	
Silica	ug/L	ND	53.5	10/12/12 10:52	
Silver	ug/L	ND	0.50	10/12/12 10:52	
Sodium	ug/L	ND	50.0	10/12/12 10:52	
Thallium	ug/L	ND	0.10	10/12/12 10:52	
Total Hardness by 2340B	ug/L	ND	71.0	10/12/12 10:52	
Vanadium	ug/L	ND	0.10	10/12/12 10:52	
Zinc	ug/L	ND	5.0	10/12/12 10:52	

LABORATORY CONTROL SAMPLE: 1306968

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	80	79.3	99	85-115	
Antimony	ug/L	80	81.6	102	85-115	
Arsenic	ug/L	80	83.7	105	85-115	
Barium	ug/L	80	80.0	100	85-115	
Beryllium	ug/L	80	86.0	107	85-115	
Cadmium	ug/L	80	83.3	104	85-115	
Calcium	ug/L	1000	1080	108	85-115	
Chromium	ug/L	80	80.5	101	85-115	
Cobalt	ug/L	80	79.4	99	85-115	
Copper	ug/L	80	81.7	102	85-115	
Iron	ug/L	1000	1020	102	85-115	
Lead	ug/L	80	81.5	102	85-115	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

LABORATORY CONTROL SAMPLE: 1306968

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Magnesium	ug/L	1000	1030	103	85-115	
Manganese	ug/L	80	81.1	101	85-115	
Molybdenum	ug/L	80	77.0	96	85-115	
Nickel	ug/L	80	84.6	106	85-115	
Potassium	ug/L	1000	999	100	85-115	
Selenium	ug/L	80	90.0	112	85-115	
Silica	ug/L	2140	2190	102	85-115	
Silver	ug/L	80	80.8	101	85-115	
Sodium	ug/L	1000	994	99	85-115	
Thallium	ug/L	80	80.4	100	85-115	
Total Hardness by 2340B	ug/L	6620	6950	105	85-115	
Vanadium	ug/L	80	81.2	102	85-115	
Zinc	ug/L	80	85.4	107	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1306969 1306970

Parameter	Units	60128986023 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	109	80	80	214	210	132	126	70-130	2	20	M6
Antimony	ug/L	ND	80	80	79.5	78.0	99	97	70-130	2	20	
Arsenic	ug/L	0.56	80	80	84.6	85.2	105	106	70-130	.7	20	
Barium	ug/L	19.7	80	80	100	97.2	101	97	70-130	3	20	
Beryllium	ug/L	ND	80	80	75.4	82.7	94	103	70-130	9	20	
Cadmium	ug/L	0.22	80	80	80.5	78.5	100	98	70-130	2	20	
Calcium	ug/L	269000	1000	1000	251000	242000	-1780	-2640	70-130	4	20	E,M6
Chromium	ug/L	ND	80	80	83.0	81.2	103	101	70-130	2	20	
Cobalt	ug/L	0.85	80	80	84.1	81.0	104	100	70-130	4	20	
Copper	ug/L	1.6	80	80	85.1	84.6	104	104	70-130	.6	20	
Iron	ug/L	1120	1000	1000	2160	2130	104	101	70-130	2	20	
Lead	ug/L	2.8	80	80	81.8	80.5	99	97	70-130	2	20	
Magnesium	ug/L	23800	1000	1000	25500	24600	168	82	70-130	3	20	M6
Manganese	ug/L	1260	80	80	1380	1320	139	68	70-130	4	20	M6
Molybdenum	ug/L	12.1	80	80	99.3	91.3	109	99	70-130	8	20	
Nickel	ug/L	ND	80	80	88.5	87.6	111	109	70-130	1	20	
Potassium	ug/L	2190	1000	1000	3220	3120	103	93	70-130	3	20	
Selenium	ug/L	ND	80	80	85.0	83.0	106	104	70-130	2	20	
Silica	ug/L	11700	2140	2140	15000	14300	155	120	70-130	5	20	M1
Silver	ug/L	ND	80	80	80.8	78.3	101	98	70-130	3	20	
Sodium	ug/L	11600	1000	1000	12700	12300	115	77	70-130	3	20	
Thallium	ug/L	ND	80	80	78.5	77.7	98	97	70-130	.9	20	
Total Hardness by 2340B	ug/L	769000	6620	6620	732000	706000	-566	-948	70-130	4	20	M1
Vanadium	ug/L	0.26	80	80	83.5	80.8	104	101	70-130	3	20	
Zinc	ug/L	74.2	80	80	140	139	82	81	70-130	.7	20	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

QC Batch: ICPM/35244 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: 200.8 MET Dissolved
Associated Lab Samples: 60128975001, 60128975002, 60128975003, 60128975004, 60128975005, 60128975006, 60128975007

METHOD BLANK: 1290954 Matrix: Water
Associated Lab Samples: 60128975001, 60128975002, 60128975003, 60128975004, 60128975005, 60128975006, 60128975007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	4.0	10/07/12 00:39	
Antimony, Dissolved	ug/L	ND	0.50	10/07/12 00:39	
Arsenic, Dissolved	ug/L	ND	0.50	10/07/12 00:39	
Barium, Dissolved	ug/L	ND	0.30	10/07/12 00:39	
Beryllium, Dissolved	ug/L	ND	0.20	10/07/12 00:39	
Cadmium, Dissolved	ug/L	ND	0.080	10/07/12 00:39	
Calcium, Dissolved	ug/L	ND	20.0	10/07/12 00:39	
Chromium, Dissolved	ug/L	ND	0.50	10/07/12 00:39	
Cobalt, Dissolved	ug/L	ND	0.50	10/07/12 00:39	
Copper, Dissolved	ug/L	ND	0.50	10/07/12 00:39	
Iron, Dissolved	ug/L	ND	50.0	10/07/12 00:39	
Lead, Dissolved	ug/L	ND	0.10	10/07/12 00:39	
Magnesium, Dissolved	ug/L	ND	5.0	10/07/12 00:39	
Manganese, Dissolved	ug/L	ND	0.50	10/07/12 00:39	
Molybdenum, Dissolved	ug/L	ND	0.50	10/07/12 00:39	
Nickel, Dissolved	ug/L	ND	0.50	10/07/12 00:39	
Potassium, Dissolved	ug/L	ND	20.0	10/07/12 00:39	
Selenium, Dissolved	ug/L	ND	0.50	10/07/12 00:39	
Silver, Dissolved	ug/L	ND	0.50	10/07/12 00:39	
Sodium, Dissolved	ug/L	ND	50.0	10/07/12 00:39	
Thallium, Dissolved	ug/L	ND	0.10	10/07/12 00:39	
Vanadium, Dissolved	ug/L	ND	0.10	10/07/12 00:39	
Zinc, Dissolved	ug/L	ND	5.0	10/07/12 00:39	

LABORATORY CONTROL SAMPLE: 1290955

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	80	85.8	107	85-115	
Antimony, Dissolved	ug/L	80	78.4	98	85-115	
Arsenic, Dissolved	ug/L	80	81.2	101	85-115	
Barium, Dissolved	ug/L	80	76.4	96	85-115	
Beryllium, Dissolved	ug/L	80	88.0	110	85-115	
Cadmium, Dissolved	ug/L	80	81.1	101	85-115	
Calcium, Dissolved	ug/L	1000	973	97	85-115	
Chromium, Dissolved	ug/L	80	80.5	101	85-115	
Cobalt, Dissolved	ug/L	80	78.4	98	85-115	
Copper, Dissolved	ug/L	80	84.2	105	85-115	
Iron, Dissolved	ug/L	1000	1000	100	85-115	
Lead, Dissolved	ug/L	80	80.7	101	85-115	
Magnesium, Dissolved	ug/L	1000	1020	102	85-115	
Manganese, Dissolved	ug/L	80	80.1	100	85-115	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

LABORATORY CONTROL SAMPLE: 1290955

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Molybdenum, Dissolved	ug/L	80	75.7	95	85-115	
Nickel, Dissolved	ug/L	80	83.0	104	85-115	
Potassium, Dissolved	ug/L	1000	1000	100	85-115	
Selenium, Dissolved	ug/L	80	81.8	102	85-115	
Silver, Dissolved	ug/L	80	83.9	105	85-115	
Sodium, Dissolved	ug/L	1000	1020	102	85-115	
Thallium, Dissolved	ug/L	80	81.5	102	85-115	
Vanadium, Dissolved	ug/L	80	78.6	98	85-115	
Zinc, Dissolved	ug/L	80	82.8	104	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1290956 1290957

Parameter	Units	60128986019 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	17100	80	80	17500	17500	550	588	70-130	.2	20	M6
Antimony, Dissolved	ug/L	ND	80	80	78.4	79.0	98	99	70-130	.7	20	
Arsenic, Dissolved	ug/L	159	80	80	240	242	101	103	70-130	.7	20	
Barium, Dissolved	ug/L	9.3	80	80	86.9	86.5	97	96	70-130	.4	20	
Beryllium, Dissolved	ug/L	ND	80	80	90.1	88.5	112	110	70-130	2	20	
Cadmium, Dissolved	ug/L	0.66	80	80	80.4	80.7	100	100	70-130	.4	20	
Calcium, Dissolved	ug/L	398000	1000	1000	388000	388000	-935	-935	70-130	0	20	M6
Chromium, Dissolved	ug/L	ND	80	80	77.8	79.3	97	99	70-130	2	20	
Cobalt, Dissolved	ug/L	84.4	80	80	162	164	97	100	70-130	1	20	
Copper, Dissolved	ug/L	ND	80	80	81.4	81.9	100	101	70-130	.6	20	
Iron, Dissolved	ug/L	630000	1000	1000	652000	654000	2210	2350	70-130	.2	20	E,M6
Lead, Dissolved	ug/L	ND	80	80	75.9	77.2	94	96	70-130	2	20	
Magnesium, Dissolved	ug/L	156000	1000	1000	151000	151000	-540	-480	70-130	.4	20	M6
Manganese, Dissolved	ug/L	33300	80	80	33500	33800	275	538	70-130	.6	20	E,M6
Molybdenum, Dissolved	ug/L	3.6	80	80	79.6	79.4	95	95	70-130	.3	20	
Nickel, Dissolved	ug/L	125	80	80	211	215	107	113	70-130	2	20	
Potassium, Dissolved	ug/L	14600	1000	1000	15600	15700	102	110	70-130	.5	20	
Selenium, Dissolved	ug/L	ND	80	80	83.7	83.0	102	101	70-130	.8	20	
Silver, Dissolved	ug/L	ND	80	80	78.1	78.8	97	98	70-130	.9	20	
Sodium, Dissolved	ug/L	7050	1000	1000	8150	8190	110	114	70-130	.5	20	
Thallium, Dissolved	ug/L	ND	80	80	76.1	76.5	95	95	70-130	.5	20	
Vanadium, Dissolved	ug/L	ND	80	80	78.4	76.8	98	96	70-130	2	20	
Zinc, Dissolved	ug/L	61500	80	80	61400	62600	-62	1340	70-130	2	20	E,M6

MATRIX SPIKE SAMPLE: 1290958

Parameter	Units	60128986029 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	914	80	1060	185	70-130	M6
Antimony, Dissolved	ug/L	ND	80	80.4	100	70-130	
Arsenic, Dissolved	ug/L	43.9	80	127	104	70-130	
Barium, Dissolved	ug/L	16.3	80	94.2	97	70-130	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

MATRIX SPIKE SAMPLE: 1290958

Parameter	Units	60128986029 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Beryllium, Dissolved	ug/L	ND	80	89.8	112	70-130	
Cadmium, Dissolved	ug/L	0.17	80	79.8	100	70-130	
Calcium, Dissolved	ug/L	375000	1000	371000	-450	70-130	E,M6
Chromium, Dissolved	ug/L	0.52	80	81.7	102	70-130	
Cobalt, Dissolved	ug/L	3.7	80	86.0	103	70-130	
Copper, Dissolved	ug/L	1.3	80	85.2	105	70-130	
Iron, Dissolved	ug/L	51200	1000	51400	15	70-130	M6
Lead, Dissolved	ug/L	1.4	80	79.7	98	70-130	
Magnesium, Dissolved	ug/L	53500	1000	53600	7	70-130	M6
Manganese, Dissolved	ug/L	7070	80	7070	-8	70-130	E,M6
Molybdenum, Dissolved	ug/L	4.9	80	85.8	101	70-130	
Nickel, Dissolved	ug/L	5.0	80	86.5	102	70-130	
Potassium, Dissolved	ug/L	11600	1000	12000	39	70-130	M6
Selenium, Dissolved	ug/L	ND	80	84.7	106	70-130	
Silver, Dissolved	ug/L	ND	80	79.6	100	70-130	
Sodium, Dissolved	ug/L	3740	1000	4760	102	70-130	
Thallium, Dissolved	ug/L	ND	80	79.2	99	70-130	
Vanadium, Dissolved	ug/L	0.20	80	81.5	102	70-130	
Zinc, Dissolved	ug/L	678	80	751	92	70-130	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

QC Batch: ICPM/35245 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: 200.8 MET Dissolved
Associated Lab Samples: 60128975008, 60128975009, 60128975010, 60128975011, 60128975012, 60128975013, 60128975014, 60128975015, 60128975016, 60128975017, 60128975018, 60128975019, 60128975020, 60128975021, 60128975022, 60128975023, 60128975024, 60128975025, 60128975026, 60128975027

METHOD BLANK: 1290959 Matrix: Water
Associated Lab Samples: 60128975008, 60128975009, 60128975010, 60128975011, 60128975012, 60128975013, 60128975014, 60128975015, 60128975016, 60128975017, 60128975018, 60128975019, 60128975020, 60128975021, 60128975022, 60128975023, 60128975024, 60128975025, 60128975026, 60128975027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	4.0	10/07/12 06:41	
Antimony, Dissolved	ug/L	ND	0.50	10/07/12 06:41	
Arsenic, Dissolved	ug/L	ND	0.50	10/07/12 06:41	
Barium, Dissolved	ug/L	ND	0.30	10/07/12 06:41	
Beryllium, Dissolved	ug/L	ND	0.20	10/07/12 06:41	
Cadmium, Dissolved	ug/L	ND	0.080	10/07/12 06:41	
Calcium, Dissolved	ug/L	ND	20.0	10/07/12 06:41	
Chromium, Dissolved	ug/L	ND	0.50	10/07/12 06:41	
Cobalt, Dissolved	ug/L	ND	0.50	10/07/12 06:41	
Copper, Dissolved	ug/L	ND	0.50	10/07/12 06:41	
Iron, Dissolved	ug/L	ND	50.0	10/07/12 06:41	
Lead, Dissolved	ug/L	ND	0.10	10/07/12 06:41	
Magnesium, Dissolved	ug/L	ND	5.0	10/07/12 06:41	
Manganese, Dissolved	ug/L	ND	0.50	10/07/12 06:41	
Molybdenum, Dissolved	ug/L	ND	0.50	10/07/12 06:41	
Nickel, Dissolved	ug/L	ND	0.50	10/07/12 06:41	
Potassium, Dissolved	ug/L	ND	20.0	10/07/12 06:41	
Selenium, Dissolved	ug/L	ND	0.50	10/07/12 06:41	
Silver, Dissolved	ug/L	ND	0.50	10/07/12 06:41	
Sodium, Dissolved	ug/L	ND	50.0	10/07/12 06:41	
Thallium, Dissolved	ug/L	ND	0.10	10/07/12 06:41	
Vanadium, Dissolved	ug/L	ND	0.10	10/07/12 06:41	
Zinc, Dissolved	ug/L	ND	5.0	10/07/12 06:41	

LABORATORY CONTROL SAMPLE: 1290960

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	80	88.0	110	85-115	
Antimony, Dissolved	ug/L	80	82.0	103	85-115	
Arsenic, Dissolved	ug/L	80	84.3	105	85-115	
Barium, Dissolved	ug/L	80	81.2	101	85-115	
Beryllium, Dissolved	ug/L	80	84.2	105	85-115	
Cadmium, Dissolved	ug/L	80	83.6	105	85-115	
Calcium, Dissolved	ug/L	1000	989	99	85-115	
Chromium, Dissolved	ug/L	80	83.5	104	85-115	
Cobalt, Dissolved	ug/L	80	82.2	103	85-115	
Copper, Dissolved	ug/L	80	88.0	110	85-115	
Iron, Dissolved	ug/L	1000	1040	104	85-115	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

LABORATORY CONTROL SAMPLE: 1290960

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead, Dissolved	ug/L	80	82.9	104	85-115	
Magnesium, Dissolved	ug/L	1000	1060	106	85-115	
Manganese, Dissolved	ug/L	80	84.4	106	85-115	
Molybdenum, Dissolved	ug/L	80	77.6	97	85-115	
Nickel, Dissolved	ug/L	80	86.8	109	85-115	
Potassium, Dissolved	ug/L	1000	1050	105	85-115	
Selenium, Dissolved	ug/L	80	85.0	106	85-115	
Silver, Dissolved	ug/L	80	86.5	108	85-115	
Sodium, Dissolved	ug/L	1000	1070	107	85-115	
Thallium, Dissolved	ug/L	80	86.2	108	85-115	
Vanadium, Dissolved	ug/L	80	80.9	101	85-115	
Zinc, Dissolved	ug/L	80	85.2	107	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1290961 1290962

Parameter	Units	60128975008 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	203	80	80	667	698	580	619	70-130	5	20	M1
Antimony, Dissolved	ug/L	ND	80	80	81.2	81.4	101	102	70-130	.2	20	
Arsenic, Dissolved	ug/L	ND	80	80	83.7	84.2	104	105	70-130	.7	20	
Barium, Dissolved	ug/L	71.1	80	80	153	152	102	101	70-130	.3	20	
Beryllium, Dissolved	ug/L	ND	80	80	84.8	85.2	106	106	70-130	.5	20	
Cadmium, Dissolved	ug/L	ND	80	80	83.0	82.7	104	103	70-130	.4	20	
Calcium, Dissolved	ug/L	51000	1000	1000	52600	52000	150	100	70-130	1	20	M1
Chromium, Dissolved	ug/L	ND	80	80	84.0	85.0	105	106	70-130	1	20	
Cobalt, Dissolved	ug/L	ND	80	80	81.2	82.6	101	103	70-130	2	20	
Copper, Dissolved	ug/L	0.96	80	80	86.2	87.5	107	108	70-130	1	20	
Iron, Dissolved	ug/L	296	1000	1000	1460	1490	116	120	70-130	2	20	
Lead, Dissolved	ug/L	0.39	80	80	81.5	81.9	101	102	70-130	.5	20	
Magnesium, Dissolved	ug/L	6760	1000	1000	7820	7880	105	111	70-130	.8	20	
Manganese, Dissolved	ug/L	89.4	80	80	174	176	106	108	70-130	.9	20	
Molybdenum, Dissolved	ug/L	1.1	80	80	79.6	80.4	98	99	70-130	1	20	
Nickel, Dissolved	ug/L	0.64	80	80	86.0	85.8	107	106	70-130	.2	20	
Potassium, Dissolved	ug/L	886	1000	1000	2000	2030	111	114	70-130	1	20	
Selenium, Dissolved	ug/L	0.51	80	80	78.4	81.3	97	101	70-130	4	20	
Silver, Dissolved	ug/L	ND	80	80	84.6	85.0	106	106	70-130	.5	20	
Sodium, Dissolved	ug/L	2900	1000	1000	3960	3980	106	108	70-130	.5	20	
Thallium, Dissolved	ug/L	ND	80	80	83.2	83.8	104	105	70-130	.8	20	
Vanadium, Dissolved	ug/L	0.56	80	80	83.8	83.8	104	104	70-130	.1	20	
Zinc, Dissolved	ug/L	6.1	80	80	88.6	88.5	103	103	70-130	.2	20	

MATRIX SPIKE SAMPLE: 1290963

Parameter	Units	60128975018 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	7.5	80	103	119	70-130	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

MATRIX SPIKE SAMPLE: 1290963

Parameter	Units	60128975018 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony, Dissolved	ug/L	ND	80	82.3	103	70-130	
Arsenic, Dissolved	ug/L	ND	80	84.9	106	70-130	
Barium, Dissolved	ug/L	70.7	80	150	99	70-130	
Beryllium, Dissolved	ug/L	ND	80	87.3	109	70-130	
Cadmium, Dissolved	ug/L	0.29	80	83.4	104	70-130	
Calcium, Dissolved	ug/L	63800	1000	63400	-33	70-130	M1
Chromium, Dissolved	ug/L	ND	80	84.6	106	70-130	
Cobalt, Dissolved	ug/L	ND	80	83.3	104	70-130	
Copper, Dissolved	ug/L	0.93	80	87.9	109	70-130	
Iron, Dissolved	ug/L	ND	1000	1070	106	70-130	
Lead, Dissolved	ug/L	ND	80	82.7	103	70-130	
Magnesium, Dissolved	ug/L	8070	1000	9020	94	70-130	
Manganese, Dissolved	ug/L	136	80	219	104	70-130	
Molybdenum, Dissolved	ug/L	1.4	80	81.7	100	70-130	
Nickel, Dissolved	ug/L	3.3	80	88.6	107	70-130	
Potassium, Dissolved	ug/L	1090	1000	2120	102	70-130	
Selenium, Dissolved	ug/L	ND	80	83.5	104	70-130	
Silver, Dissolved	ug/L	ND	80	85.4	107	70-130	
Sodium, Dissolved	ug/L	3660	1000	4290	63	70-130	M1
Thallium, Dissolved	ug/L	ND	80	84.7	106	70-130	
Vanadium, Dissolved	ug/L	ND	80	82.1	103	70-130	
Zinc, Dissolved	ug/L	64.2	80	147	104	70-130	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

QC Batch: MERC/7538 Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury
Associated Lab Samples: 60128975001, 60128975002, 60128975003, 60128975004, 60128975005, 60128975006, 60128975007, 60128975008, 60128975009, 60128975010, 60128975011

METHOD BLANK: 1291890 Matrix: Water
Associated Lab Samples: 60128975001, 60128975002, 60128975003, 60128975004, 60128975005, 60128975006, 60128975007, 60128975008, 60128975009, 60128975010, 60128975011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	10/02/12 13:27	

LABORATORY CONTROL SAMPLE: 1291891

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: 1291892 1291893

Parameter	Units	60128986021 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	4.7	4.7	94	94	85-115	.6	30	

MATRIX SPIKE SAMPLE: 1291894

Parameter	Units	60128975011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	5	4.9	98	85-115	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

QC Batch: MERC/7541 — Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 — Analysis Description: 245.1 Mercury
Associated Lab Samples: 60128975012, 60128975013, 60128975014, 60128975015, 60128975016, 60128975017, 60128975018, 60128975019, 60128975020, 60128975021, 60128975022, 60128975023, 60128975024, 60128975025, 60128975026, 60128975027

METHOD BLANK: 1291938 — Matrix: Water
Associated Lab Samples: 60128975012, 60128975013, 60128975014, 60128975015, 60128975016, 60128975017, 60128975018, 60128975019, 60128975020, 60128975021, 60128975022, 60128975023, 60128975024, 60128975025, 60128975026, 60128975027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	10/03/12 15:06	

LABORATORY CONTROL SAMPLE: 1291939

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: 1291940 1291941

Parameter	Units	60128975012 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	5.3	5.4	105	107	85-115	1	30	

MATRIX SPIKE SAMPLE: 1291942

Parameter	Units	60128975027 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	5	4.6	91	85-115	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

QC Batch: MERC/7534 Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury - Dissolved
Associated Lab Samples: 60128975001, 60128975002, 60128975003, 60128975004, 60128975005, 60128975006, 60128975007, 60128975008, 60128975009, 60128975010, 60128975011

METHOD BLANK: 1291865 Matrix: Water
Associated Lab Samples: 60128975001, 60128975002, 60128975003, 60128975004, 60128975005, 60128975006, 60128975007, 60128975008, 60128975009, 60128975010, 60128975011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	10/03/12 13:37	

LABORATORY CONTROL SAMPLE: 1291866

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.0	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1291867 1291868

Parameter	Units	60128986021 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	5.4	5.1	107	102	85-115	5	20	

MATRIX SPIKE SAMPLE: 1291869

Parameter	Units	60128975011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	ND	5	5.3	105	85-115	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

QC Batch: MERC/7535 | Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 | Analysis Description: 245.1 Mercury - Dissolved

Associated Lab Samples: 60128975012, 60128975013, 60128975014, 60128975015, 60128975016, 60128975017, 60128975018, 60128975019, 60128975020, 60128975021, 60128975022, 60128975023, 60128975024, 60128975025, 60128975026, 60128975027

METHOD BLANK: 1291870 | Matrix: Water

Associated Lab Samples: 60128975012, 60128975013, 60128975014, 60128975015, 60128975016, 60128975017, 60128975018, 60128975019, 60128975020, 60128975021, 60128975022, 60128975023, 60128975024, 60128975025, 60128975026, 60128975027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	10/02/12 14:54	

LABORATORY CONTROL SAMPLE: 1291871

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.0	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1291872 1291873

Parameter	Units	60128975012 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	5.0	5.1	99	101	85-115	3	20	

MATRIX SPIKE SAMPLE: 1291874

Parameter	Units	60128975027 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	ND	5	4.7	94	85-115	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

QC Batch: MERP/6637 Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury, Potentially Dissolved
Associated Lab Samples: 60128975001, 60128975002, 60128975003, 60128975004, 60128975005, 60128975006, 60128975007, 60128975008, 60128975009, 60128975010, 60128975011, 60128975012, 60128975013, 60128975014, 60128975015

METHOD BLANK: 1063878 Matrix: Water
Associated Lab Samples: 60128975001, 60128975002, 60128975003, 60128975004, 60128975005, 60128975006, 60128975007, 60128975008, 60128975009, 60128975010, 60128975011, 60128975012, 60128975013, 60128975014, 60128975015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	09/21/12 09:53	

LABORATORY CONTROL SAMPLE: 1063879

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.8	95	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1063880 1063881

Parameter	Units	60128975001 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	4.8	4.9	96	98	70-130	2	20	

MATRIX SPIKE SAMPLE: 1063882

Parameter	Units	60128975002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	ND	5	4.5	90	70-130	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

QC Batch: MERP/6638 Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury, Potentially Dissolved
Associated Lab Samples: 60128975016, 60128975017, 60128975018, 60128975019, 60128975020, 60128975021, 60128975022, 60128975023, 60128975024, 60128975025, 60128975026, 60128975027

METHOD BLANK: 1063894 Matrix: Water
Associated Lab Samples: 60128975016, 60128975017, 60128975018, 60128975019, 60128975020, 60128975021, 60128975022, 60128975023, 60128975024, 60128975025, 60128975026, 60128975027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	09/21/12 10:51	

LABORATORY CONTROL SAMPLE: 1063895

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.7	93	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1063896 1063897

Parameter	Units	60128975016 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	4.4	97	88	70-130	9	20	

MATRIX SPIKE SAMPLE: 1063898

Parameter	Units	60128975017 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	ND	5	5.2	105	70-130	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

QC Batch: MPRP/19590 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Potentially Dissolved Metals
Associated Lab Samples: 60128975001, 60128975002, 60128975003, 60128975004, 60128975005, 60128975006, 60128975007, 60128975008, 60128975009, 60128975010, 60128975011, 60128975012, 60128975013, 60128975014, 60128975015, 60128975016, 60128975017, 60128975018, 60128975019, 60128975020

METHOD BLANK: 1064429 Matrix: Water
Associated Lab Samples: 60128975001, 60128975002, 60128975003, 60128975004, 60128975005, 60128975006, 60128975007, 60128975008, 60128975009, 60128975010, 60128975011, 60128975012, 60128975013, 60128975014, 60128975015, 60128975016, 60128975017, 60128975018, 60128975019, 60128975020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Calcium, Dissolved	ug/L	65.5J	100	09/25/12 10:51	
Magnesium, Dissolved	ug/L	ND	50.0	09/25/12 10:51	
Potassium, Dissolved	ug/L	ND	500	09/25/12 10:51	
Sodium, Dissolved	ug/L	ND	500	09/25/12 10:51	

LABORATORY CONTROL SAMPLE: 1064430

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium, Dissolved	ug/L	10000	9780	98	85-115	
Magnesium, Dissolved	ug/L	10000	10100	101	85-115	
Potassium, Dissolved	ug/L	10000	9150	91	85-115	
Sodium, Dissolved	ug/L	10000	9740	97	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1064431 1064432

Parameter	Units	60128975003 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	38200	10000	10000	48300	48100	102	100	70-130	0	20	
Magnesium, Dissolved	ug/L	5790	10000	10000	15600	15700	98	99	70-130	1	20	
Potassium, Dissolved	ug/L	542	10000	10000	9990	9860	94	93	70-130	1	20	
Sodium, Dissolved	ug/L	2270	10000	10000	12300	12200	100	99	70-130	1	20	

MATRIX SPIKE SAMPLE: 1064433

Parameter	Units	60128975013 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Calcium, Dissolved	ug/L	75700	10000	85700	100	70-130	
Magnesium, Dissolved	ug/L	9940	10000	19700	97	70-130	
Potassium, Dissolved	ug/L	1340	10000	10600	92	70-130	
Sodium, Dissolved	ug/L	4920	10000	14800	98	70-130	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

QC Batch: MPRP/19591 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Potentially Dissolved Metals
Associated Lab Samples: 60128975021, 60128975022, 60128975023, 60128975024, 60128975025, 60128975026, 60128975027

METHOD BLANK: 1064435 Matrix: Water
Associated Lab Samples: 60128975021, 60128975022, 60128975023, 60128975024, 60128975025, 60128975026, 60128975027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Calcium, Dissolved	ug/L	89.0J	100	09/25/12 11:58	
Magnesium, Dissolved	ug/L	ND	50.0	09/25/12 11:58	
Potassium, Dissolved	ug/L	ND	500	09/25/12 11:58	
Sodium, Dissolved	ug/L	ND	500	09/25/12 11:58	

LABORATORY CONTROL SAMPLE: 1064436

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium, Dissolved	ug/L	10000	9670	97	85-115	
Magnesium, Dissolved	ug/L	10000	10000	100	85-115	
Potassium, Dissolved	ug/L	10000	8990	90	85-115	
Sodium, Dissolved	ug/L	10000	9660	97	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1064437 1064438

Parameter	Units	60128975023 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	57600	10000	10000	68300	68900	107	113	70-130	1	20	
Magnesium, Dissolved	ug/L	7770	10000	10000	17500	17800	97	100	70-130	2	20	
Potassium, Dissolved	ug/L	806	10000	10000	10000	10400	92	96	70-130	3	20	
Sodium, Dissolved	ug/L	3310	10000	10000	13100	13300	98	100	70-130	2	20	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

QC Batch: MPRP/19588 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: 200.8 Potentially Dissolved Metals
Associated Lab Samples: 60128975001, 60128975002, 60128975003, 60128975004, 60128975005, 60128975006, 60128975007, 60128975008, 60128975009, 60128975010, 60128975011, 60128975012, 60128975013, 60128975014, 60128975015, 60128975016, 60128975017, 60128975018, 60128975019, 60128975020

METHOD BLANK: 1064390 Matrix: Water
Associated Lab Samples: 60128975001, 60128975002, 60128975003, 60128975004, 60128975005, 60128975006, 60128975007, 60128975008, 60128975009, 60128975010, 60128975011, 60128975012, 60128975013, 60128975014, 60128975015, 60128975016, 60128975017, 60128975018, 60128975019, 60128975020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	50.0	09/24/12 15:28	
Antimony, Dissolved	ug/L	ND	1.0	09/24/12 10:55	
Arsenic, Dissolved	ug/L	ND	1.0	09/24/12 10:55	
Barium, Dissolved	ug/L	0.37J	1.0	09/24/12 10:55	
Beryllium, Dissolved	ug/L	ND	0.50	09/24/12 15:28	
Cadmium, Dissolved	ug/L	ND	0.50	09/24/12 10:55	
Chromium, Dissolved	ug/L	0.35J	1.0	09/24/12 10:55	
Cobalt, Dissolved	ug/L	ND	1.0	09/24/12 10:55	
Copper, Dissolved	ug/L	ND	1.0	09/24/12 10:55	
Iron, Dissolved	ug/L	4.8J	50.0	09/24/12 10:55	
Lead, Dissolved	ug/L	ND	1.0	09/24/12 10:55	
Manganese, Dissolved	ug/L	0.32J	1.0	09/24/12 10:55	
Molybdenum, Dissolved	ug/L	ND	1.0	09/24/12 10:55	
Nickel, Dissolved	ug/L	0.37J	1.0	09/24/12 10:55	
Selenium, Dissolved	ug/L	ND	1.0	09/24/12 10:55	
Silver, Dissolved	ug/L	ND	0.50	09/24/12 10:55	
Thallium, Dissolved	ug/L	ND	1.0	09/24/12 10:55	
Vanadium, Dissolved	ug/L	ND	1.0	09/24/12 10:55	
Zinc, Dissolved	ug/L	4.3J	10.0	09/24/12 10:55	

LABORATORY CONTROL SAMPLE: 1064391

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	1000	990	99	85-115	
Antimony, Dissolved	ug/L	40	39.4	99	85-115	
Arsenic, Dissolved	ug/L	40	39.5	99	85-115	
Barium, Dissolved	ug/L	40	38.9	97	85-115	
Beryllium, Dissolved	ug/L	40	41.8	105	85-115	
Cadmium, Dissolved	ug/L	40	39.3	98	85-115	
Chromium, Dissolved	ug/L	40	40.0	100	85-115	
Cobalt, Dissolved	ug/L	40	39.3	98	85-115	
Copper, Dissolved	ug/L	40	39.1	98	85-115	
Iron, Dissolved	ug/L	1000	990	99	85-115	
Lead, Dissolved	ug/L	40	39.3	98	85-115	
Manganese, Dissolved	ug/L	40	40.2	101	85-115	
Molybdenum, Dissolved	ug/L	40	39.4	99	85-115	
Nickel, Dissolved	ug/L	40	39.3	98	85-115	
Selenium, Dissolved	ug/L	40	39.3	98	85-115	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

LABORATORY CONTROL SAMPLE: 1064391

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Silver, Dissolved	ug/L	20	19.4	97	85-115	
Thallium, Dissolved	ug/L	40	37.9	95	85-115	
Vanadium, Dissolved	ug/L	40	40.1	100	85-115	
Zinc, Dissolved	ug/L	100	103	103	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1064392 1064393

Parameter	Units	60128975002 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	40.7J	1000	1000	998	1020	96	98	70-130	3	20	
Antimony, Dissolved	ug/L	0.071J	40	40	39.5	40.8	99	102	70-130	3	20	
Arsenic, Dissolved	ug/L	0.18J	40	40	39.9	40.4	99	100	70-130	1	20	
Barium, Dissolved	ug/L	64.7	40	40	104	104	99	98	70-130	0	20	
Beryllium, Dissolved	ug/L	ND	40	40	39.6	40.6	99	101	70-130	2	20	
Cadmium, Dissolved	ug/L	ND	40	40	39.2	39.5	98	99	70-130	1	20	
Chromium, Dissolved	ug/L	0.53J	40	40	40.1	40.7	99	100	70-130	1	20	
Cobalt, Dissolved	ug/L	0.10J	40	40	38.4	39.5	96	98	70-130	3	20	
Copper, Dissolved	ug/L	1.1	40	40	38.7	38.7	94	94	70-130	0	20	
Iron, Dissolved	ug/L	109	1000	1000	1090	1100	98	99	70-130	0	20	
Lead, Dissolved	ug/L	0.26J	40	40	39.3	40.0	98	99	70-130	2	20	
Manganese, Dissolved	ug/L	14.0	40	40	53.0	54.1	98	100	70-130	2	20	
Molybdenum, Dissolved	ug/L	0.93J	40	40	40.8	42.0	100	103	70-130	3	20	
Nickel, Dissolved	ug/L	0.53J	40	40	38.0	39.7	94	98	70-130	4	20	
Selenium, Dissolved	ug/L	0.42J	40	40	38.6	39.2	95	97	70-130	1	20	
Silver, Dissolved	ug/L	ND	20	20	19.3	19.8	97	99	70-130	2	20	
Thallium, Dissolved	ug/L	ND	40	40	37.5	38.2	94	95	70-130	2	20	
Vanadium, Dissolved	ug/L	ND	40	40	39.3	39.3	98	98	70-130	0	20	
Zinc, Dissolved	ug/L	3.8J	100	100	104	105	100	101	70-130	2	20	

MATRIX SPIKE SAMPLE: 1064415

Parameter	Units	60128975012 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	56.0	1000	1040	98	70-130	
Antimony, Dissolved	ug/L	0.066J	40	40.2	100	70-130	
Arsenic, Dissolved	ug/L	0.42J	40	40.1	99	70-130	
Barium, Dissolved	ug/L	64.9	40	104	99	70-130	
Beryllium, Dissolved	ug/L	ND	40	41.2	103	70-130	
Cadmium, Dissolved	ug/L	ND	40	39.7	99	70-130	
Chromium, Dissolved	ug/L	0.57J	40	40.9	101	70-130	
Cobalt, Dissolved	ug/L	0.16J	40	38.8	96	70-130	
Copper, Dissolved	ug/L	0.80J	40	38.9	95	70-130	
Iron, Dissolved	ug/L	187	1000	1180	99	70-130	
Lead, Dissolved	ug/L	0.42J	40	40.3	100	70-130	
Manganese, Dissolved	ug/L	110	40	148	95	70-130	
Molybdenum, Dissolved	ug/L	1.2	40	42.2	103	70-130	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

MATRIX SPIKE SAMPLE: 1064415

Parameter	Units	60128975012 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nickel, Dissolved	ug/L	0.41J	40	39.5	98	70-130	
Selenium, Dissolved	ug/L	0.42J	40	39.2	97	70-130	
Silver, Dissolved	ug/L	ND	20	19.6	98	70-130	
Thallium, Dissolved	ug/L	ND	40	37.9	95	70-130	
Vanadium, Dissolved	ug/L	ND	40	40.8	102	70-130	
Zinc, Dissolved	ug/L	6.4J	100	107	101	70-130	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

QC Batch: MPRP/19589 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: 200.8 Potentially Dissolved Metals
Associated Lab Samples: 60128975021, 60128975022, 60128975023, 60128975024, 60128975025, 60128975026, 60128975027

METHOD BLANK: 1064407 Matrix: Water
Associated Lab Samples: 60128975021, 60128975022, 60128975023, 60128975024, 60128975025, 60128975026, 60128975027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	50.0	09/24/12 16:36	
Antimony, Dissolved	ug/L	ND	1.0	09/24/12 13:22	
Arsenic, Dissolved	ug/L	ND	1.0	09/24/12 13:22	
Barium, Dissolved	ug/L	0.12J	1.0	09/24/12 13:22	
Beryllium, Dissolved	ug/L	ND	0.50	09/24/12 16:36	
Cadmium, Dissolved	ug/L	ND	0.50	09/24/12 13:22	
Chromium, Dissolved	ug/L	0.27J	1.0	09/24/12 13:22	
Cobalt, Dissolved	ug/L	ND	1.0	09/24/12 13:22	
Copper, Dissolved	ug/L	ND	1.0	09/24/12 13:22	
Iron, Dissolved	ug/L	ND	50.0	09/24/12 13:22	
Lead, Dissolved	ug/L	ND	1.0	09/24/12 13:22	
Manganese, Dissolved	ug/L	ND	1.0	09/24/12 13:22	
Molybdenum, Dissolved	ug/L	ND	1.0	09/24/12 13:22	
Nickel, Dissolved	ug/L	ND	1.0	09/24/12 13:22	
Selenium, Dissolved	ug/L	ND	1.0	09/24/12 13:22	
Silver, Dissolved	ug/L	ND	0.50	09/24/12 13:22	
Thallium, Dissolved	ug/L	ND	1.0	09/24/12 13:22	
Vanadium, Dissolved	ug/L	ND	1.0	09/24/12 13:22	
Zinc, Dissolved	ug/L	5.0J	10.0	09/24/12 13:22	

LABORATORY CONTROL SAMPLE: 1064408

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	1000	957	96	85-115	
Antimony, Dissolved	ug/L	40	39.9	100	85-115	
Arsenic, Dissolved	ug/L	40	39.0	98	85-115	
Barium, Dissolved	ug/L	40	39.1	98	85-115	
Beryllium, Dissolved	ug/L	40	40.7	102	85-115	
Cadmium, Dissolved	ug/L	40	39.6	99	85-115	
Chromium, Dissolved	ug/L	40	40.4	101	85-115	
Cobalt, Dissolved	ug/L	40	39.3	98	85-115	
Copper, Dissolved	ug/L	40	39.2	98	85-115	
Iron, Dissolved	ug/L	1000	980	98	85-115	
Lead, Dissolved	ug/L	40	39.4	99	85-115	
Manganese, Dissolved	ug/L	40	40.1	100	85-115	
Molybdenum, Dissolved	ug/L	40	39.6	99	85-115	
Nickel, Dissolved	ug/L	40	39.6	99	85-115	
Selenium, Dissolved	ug/L	40	39.0	97	85-115	
Silver, Dissolved	ug/L	20	19.3	96	85-115	
Thallium, Dissolved	ug/L	40	37.8	95	85-115	
Vanadium, Dissolved	ug/L	40	39.4	98	85-115	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

LABORATORY CONTROL SAMPLE: 1064408

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Zinc, Dissolved	ug/L	100	103	103	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1064409 1064410

Parameter	Units	60128975022 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	31.8J	1000	1000	924	926	89	89	70-130	0	20	
Antimony, Dissolved	ug/L	0.077J	40	40	40.1	40.7	100	101	70-130	1	20	
Arsenic, Dissolved	ug/L	0.40J	40	40	39.7	39.9	98	99	70-130	0	20	
Barium, Dissolved	ug/L	65.8	40	40	105	106	98	99	70-130	0	20	
Beryllium, Dissolved	ug/L	ND	40	40	37.7	37.5	94	94	70-130	1	20	
Cadmium, Dissolved	ug/L	0.54	40	40	40.2	40.5	99	100	70-130	1	20	
Chromium, Dissolved	ug/L	2.3	40	40	42.6	43.0	101	102	70-130	1	20	
Cobalt, Dissolved	ug/L	0.22J	40	40	39.0	39.4	97	98	70-130	1	20	
Copper, Dissolved	ug/L	1.2	40	40	38.8	39.5	94	96	70-130	2	20	
Iron, Dissolved	ug/L	184	1000	1000	1150	1180	96	99	70-130	2	20	
Lead, Dissolved	ug/L	0.59J	40	40	39.8	40.1	98	99	70-130	1	20	
Manganese, Dissolved	ug/L	147	40	40	185	187	94	101	70-130	2	20	
Molybdenum, Dissolved	ug/L	1.4	40	40	42.2	42.5	102	103	70-130	1	20	
Nickel, Dissolved	ug/L	0.78J	40	40	39.7	40.6	97	100	70-130	2	20	
Selenium, Dissolved	ug/L	0.42J	40	40	39.0	39.2	97	97	70-130	0	20	
Silver, Dissolved	ug/L	ND	20	20	19.7	19.6	98	98	70-130	0	20	
Thallium, Dissolved	ug/L	0.022J	40	40	37.8	38.0	94	95	70-130	1	20	
Vanadium, Dissolved	ug/L	ND	40	40	39.2	39.0	98	98	70-130	0	20	
Zinc, Dissolved	ug/L	110	100	100	209	214	99	104	70-130	3	20	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

QC Batch: MT/10164 | Analysis Method: SM 2510B
QC Batch Method: SM 2510B | Analysis Description: 2510B Specific Conductance

Associated Lab Samples: 60128975001, 60128975002, 60128975003, 60128975004, 60128975005, 60128975006, 60128975007, 60128975008, 60128975009, 60128975010, 60128975011, 60128975012, 60128975013, 60128975014, 60128975015, 60128975016, 60128975017, 60128975018

METHOD BLANK: 1291181 | Matrix: Water

Associated Lab Samples: 60128975001, 60128975002, 60128975003, 60128975004, 60128975005, 60128975006, 60128975007, 60128975008, 60128975009, 60128975010, 60128975011, 60128975012, 60128975013, 60128975014, 60128975015, 60128975016, 60128975017, 60128975018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Specific Conductance	umhos/cm	ND	10.0	09/20/12 14:29	

LABORATORY CONTROL SAMPLE: 1291182

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Specific Conductance	umhos/cm	1000	1020	102	90-110	

SAMPLE DUPLICATE: 1291183

Parameter	Units	10205247002 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Conductance	umhos/cm	395	404	2	20	

SAMPLE DUPLICATE: 1291184

Parameter	Units	60128975012 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Conductance	umhos/cm	354	357	1	20	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

QC Batch: MT/10165 Analysis Method: SM 2510B
QC Batch Method: SM 2510B Analysis Description: 2510B Specific Conductance
Associated Lab Samples: 60128975019, 60128975020, 60128975021, 60128975022, 60128975023, 60128975024, 60128975025, 60128975026, 60128975027

METHOD BLANK: 1291186 Matrix: Water
Associated Lab Samples: 60128975019, 60128975020, 60128975021, 60128975022, 60128975023, 60128975024, 60128975025, 60128975026, 60128975027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Specific Conductance	umhos/cm	ND	10.0	09/23/12 14:57	

LABORATORY CONTROL SAMPLE: 1291187

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Specific Conductance	umhos/cm	1000	1010	101	90-110	

SAMPLE DUPLICATE: 1291188

Parameter	Units	60128975020 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Conductance	umhos/cm	354	355	.4	20	

SAMPLE DUPLICATE: 1291189

Parameter	Units	10205697004 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Conductance	umhos/cm	1280	1360	6	20	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

QC Batch: WET/37242 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 60128975001, 60128975002, 60128975003, 60128975004, 60128975005, 60128975006, 60128975007, 60128975008, 60128975009, 60128975010, 60128975011, 60128975012, 60128975013, 60128975014, 60128975015, 60128975016, 60128975017, 60128975018, 60128975019, 60128975020

METHOD BLANK: 1063603 Matrix: Water
Associated Lab Samples: 60128975001, 60128975002, 60128975003, 60128975004, 60128975005, 60128975006, 60128975007, 60128975008, 60128975009, 60128975010, 60128975011, 60128975012, 60128975013, 60128975014, 60128975015, 60128975016, 60128975017, 60128975018, 60128975019, 60128975020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	20.0	09/20/12 10:50	
Alkalinity, Total as CaCO3	mg/L	ND	20.0	09/20/12 10:50	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	20.0	09/20/12 10:50	

LABORATORY CONTROL SAMPLE: 1063604

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	485	97	90-110	

SAMPLE DUPLICATE: 1063605

Parameter	Units	60128975001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	ND		24	
Alkalinity, Total as CaCO3	mg/L	78.0	77.4	1	9	
Alkalinity,Bicarbonate (CaCO3)	mg/L	78.0	77.4	1	9	

SAMPLE DUPLICATE: 1063606

Parameter	Units	60128975010 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	ND		24	
Alkalinity, Total as CaCO3	mg/L	89.9	86.1	4	9	
Alkalinity,Bicarbonate (CaCO3)	mg/L	89.9	86.1	4	9	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

QC Batch: WET/37244 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 60128975021, 60128975022, 60128975023, 60128975024, 60128975025, 60128975026, 60128975027

METHOD BLANK: 1063754 Matrix: Water
Associated Lab Samples: 60128975021, 60128975022, 60128975023, 60128975024, 60128975025, 60128975026, 60128975027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	20.0	09/20/12 13:23	
Alkalinity, Total as CaCO3	mg/L	ND	20.0	09/20/12 13:23	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	20.0	09/20/12 13:23	

LABORATORY CONTROL SAMPLE: 1063755

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	484	97	90-110	

SAMPLE DUPLICATE: 1063756

Parameter	Units	60129096001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	ND		24	
Alkalinity, Total as CaCO3	mg/L	1080	1070	1	9	
Alkalinity,Bicarbonate (CaCO3)	mg/L	1080	1070	1	9	

SAMPLE DUPLICATE: 1063757

Parameter	Units	60128975026 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	ND		24	
Alkalinity, Total as CaCO3	mg/L	99.1	101	2	9	
Alkalinity,Bicarbonate (CaCO3)	mg/L	99.1	101	2	9	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

QC Batch: WET/37163 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 60128975001, 60128975002, 60128975003, 60128975004, 60128975005, 60128975006, 60128975007, 60128975008, 60128975009, 60128975010

METHOD BLANK: 1061921 Matrix: Water
Associated Lab Samples: 60128975001, 60128975002, 60128975003, 60128975004, 60128975005, 60128975006, 60128975007, 60128975008, 60128975009, 60128975010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	09/17/12 15:01	

SAMPLE DUPLICATE: 1061922

Parameter	Units	60128975001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	152	152	0	17	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

QC Batch: WET/37221 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 60128975011, 60128975012, 60128975013, 60128975014, 60128975015, 60128975016, 60128975017, 60128975018, 60128975019, 60128975020, 60128975021, 60128975022, 60128975023, 60128975024, 60128975025, 60128975026, 60128975027

METHOD BLANK: 1063122 Matrix: Water
Associated Lab Samples: 60128975011, 60128975012, 60128975013, 60128975014, 60128975015, 60128975016, 60128975017, 60128975018, 60128975019, 60128975020, 60128975021, 60128975022, 60128975023, 60128975024, 60128975025, 60128975026, 60128975027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	09/19/12 15:25	

SAMPLE DUPLICATE: 1063123

Parameter	Units	60128975011 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	208	210	1	17	

SAMPLE DUPLICATE: 1063124

Parameter	Units	60128975021 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	238	242	2	17	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

QC Batch: WET/37188 | Analysis Method: SM 2540D
QC Batch Method: SM 2540D | Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 60128975001, 60128975002

METHOD BLANK: 1062204 | Matrix: Water
Associated Lab Samples: 60128975001, 60128975002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	09/18/12 10:24	

SAMPLE DUPLICATE: 1062205

Parameter	Units	60128909004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	ND	ND		25	

SAMPLE DUPLICATE: 1062206

Parameter	Units	60128929001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	ND	ND		25	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

QC Batch: WET/37206 Analysis Method: SM 2540D
QC Batch Method: SM 2540D Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 60128975003, 60128975004, 60128975005, 60128975006, 60128975007, 60128975008, 60128975009, 60128975010, 60128975011, 60128975012, 60128975013, 60128975014, 60128975015, 60128975016, 60128975017, 60128975018, 60128975019, 60128975020, 60128975021

METHOD BLANK: 1062687 Matrix: Water
Associated Lab Samples: 60128975003, 60128975004, 60128975005, 60128975006, 60128975007, 60128975008, 60128975009, 60128975010, 60128975011, 60128975012, 60128975013, 60128975014, 60128975015, 60128975016, 60128975017, 60128975018, 60128975019, 60128975020, 60128975021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	09/19/12 10:15	

SAMPLE DUPLICATE: 1062688

Parameter	Units	60129203002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	39.0	39.0	0	25	

SAMPLE DUPLICATE: 1062689

Parameter	Units	60128975012 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	5.0	7.0	33	25	D6

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

QC Batch: WET/37207 Analysis Method: SM 2540D
QC Batch Method: SM 2540D Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 60128975022, 60128975023, 60128975024, 60128975025, 60128975026, 60128975027

METHOD BLANK: 1062691 Matrix: Water
Associated Lab Samples: 60128975022, 60128975023, 60128975024, 60128975025, 60128975026, 60128975027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	09/19/12 10:24	

SAMPLE DUPLICATE: 1062692

Parameter	Units	60128975022 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	ND	5.0		25	

SAMPLE DUPLICATE: 1062693

Parameter	Units	60129105002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	26.0	29.0	11	25	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

QC Batch: WET/37145 Analysis Method: SM 4500-S-2 D
QC Batch Method: SM 4500-S-2 D Analysis Description: 4500S2D Sulfide, Total
Associated Lab Samples: 60128975001, 60128975002, 60128975003, 60128975004, 60128975005

METHOD BLANK: 1061728 Matrix: Water
Associated Lab Samples: 60128975001, 60128975002, 60128975003, 60128975004, 60128975005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.050	09/17/12 14:57	

LABORATORY CONTROL SAMPLE: 1061729

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	.5	0.50	100	80-120	

MATRIX SPIKE SAMPLE: 1061730

Parameter	Units	60128975005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	ND	.5	0.41	76	75-125	

SAMPLE DUPLICATE: 1061731

Parameter	Units	60128986028 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 1061732

Parameter	Units	60128986028 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

QC Batch: WET/37146 Analysis Method: SM 4500-S-2 D
QC Batch Method: SM 4500-S-2 D Analysis Description: 4500S2D Sulfide, Total
Associated Lab Samples: 60128975006, 60128975007, 60128975008, 60128975009, 60128975010, 60128975011, 60128975012, 60128975013, 60128975014, 60128975015, 60128975016, 60128975017, 60128975018, 60128975019, 60128975020, 60128975021, 60128975022, 60128975023, 60128975024, 60128975025

METHOD BLANK: 1061733 Matrix: Water
Associated Lab Samples: 60128975006, 60128975007, 60128975008, 60128975009, 60128975010, 60128975011, 60128975012, 60128975013, 60128975014, 60128975015, 60128975016, 60128975017, 60128975018, 60128975019, 60128975020, 60128975021, 60128975022, 60128975023, 60128975024, 60128975025

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.050	09/18/12 13:36	

LABORATORY CONTROL SAMPLE: 1061734

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	.5	0.50	101	80-120	

MATRIX SPIKE SAMPLE: 1061735

Parameter	Units	60128975006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	ND	.5	0.45	81	75-125	

SAMPLE DUPLICATE: 1061736

Parameter	Units	60128975007 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 1061737

Parameter	Units	60128975015 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

QC Batch: WET/37147 | Analysis Method: SM 4500-S-2 D
QC Batch Method: SM 4500-S-2 D | Analysis Description: 4500S2D Sulfide, Total
Associated Lab Samples: 60128975026, 60128975027

METHOD BLANK: 1061738 | Matrix: Water
Associated Lab Samples: 60128975026, 60128975027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.050	09/18/12 15:14	

LABORATORY CONTROL SAMPLE: 1061739

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	.5	0.50	101	80-120	

MATRIX SPIKE SAMPLE: 1061740

Parameter	Units	60128975026 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	ND	.5	0.46	92	75-125	

SAMPLE DUPLICATE: 1061741

Parameter	Units	60128975027 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 1061742

Parameter	Units	60128986011 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

QC Batch: WETA/21713 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60128975001, 60128975002, 60128975003, 60128975004, 60128975005, 60128975006, 60128975007, 60128975008, 60128975009, 60128975010, 60128975011, 60128975012, 60128975013, 60128975014, 60128975015, 60128975016, 60128975017, 60128975018, 60128975019, 60128975020

METHOD BLANK: 1064596 Matrix: Water
Associated Lab Samples: 60128975001, 60128975002, 60128975003, 60128975004, 60128975005, 60128975006, 60128975007, 60128975008, 60128975009, 60128975010, 60128975011, 60128975012, 60128975013, 60128975014, 60128975015, 60128975016, 60128975017, 60128975018, 60128975019, 60128975020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	09/21/12 19:21	

METHOD BLANK: 1065994 Matrix: Water
Associated Lab Samples: 60128975001, 60128975002, 60128975003, 60128975004, 60128975005, 60128975006, 60128975007, 60128975008, 60128975009, 60128975010, 60128975011, 60128975012, 60128975013, 60128975014, 60128975015, 60128975016, 60128975017, 60128975018, 60128975019, 60128975020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	1.0	09/23/12 12:44	

LABORATORY CONTROL SAMPLE: 1064597

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	5.2	103	90-110	

LABORATORY CONTROL SAMPLE: 1065995

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	5	5.2	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1064598 1064902

Parameter	Units	60128975001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1.1	5	5	6.2	6.2	101	101	64-118	0	12	
Sulfate	mg/L	49.5	50	50	100	105	101	110	61-119	4	10	

MATRIX SPIKE SAMPLE: 1064599

Parameter	Units	60128975010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.2	5	6.1	98	64-118	
Sulfate	mg/L	66.4	50	117	102	61-119	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

QC Batch: WETA/21736 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60128975021, 60128975022, 60128975023, 60128975024, 60128975025, 60128975026, 60128975027

METHOD BLANK: 1066138 Matrix: Water
Associated Lab Samples: 60128975021, 60128975022, 60128975023, 60128975024, 60128975025, 60128975026, 60128975027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	09/24/12 22:48	
Sulfate	mg/L	ND	1.0	09/24/12 22:48	

LABORATORY CONTROL SAMPLE: 1066139

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.9	97	90-110	
Sulfate	mg/L	5	5.0	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1066140 1066141

Parameter	Units	60128975021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1.5	5	5	6.0	5.8	90	86	64-118	3	12	
Sulfate	mg/L	87.0	25	25	110	111	91	98	61-119	2	10	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

QC Batch: WETA/21656 | Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 | Analysis Description: 353.2 Nitrate + Nitrite, preserved

Associated Lab Samples: 60128975001, 60128975002, 60128975003, 60128975004, 60128975005, 60128975006, 60128975007, 60128975008, 60128975009, 60128975010, 60128975011, 60128975012, 60128975013, 60128975014, 60128975015, 60128975016, 60128975017, 60128975018

METHOD BLANK: 1061743 | Matrix: Water

Associated Lab Samples: 60128975001, 60128975002, 60128975003, 60128975004, 60128975005, 60128975006, 60128975007, 60128975008, 60128975009, 60128975010, 60128975011, 60128975012, 60128975013, 60128975014, 60128975015, 60128975016, 60128975017, 60128975018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	0.10	09/17/12 11:53	

LABORATORY CONTROL SAMPLE: 1061744

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2	1.9	97	90-110	

MATRIX SPIKE SAMPLE: 1061745

Parameter	Units	60128925001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	7.6	4	10.1	63	90-110	M1

MATRIX SPIKE SAMPLE: 1061747

Parameter	Units	60128975009 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	2	1.9	95	90-110	

SAMPLE DUPLICATE: 1061746

Parameter	Units	60128975001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.31	ND		13	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

QC Batch: WETA/21657 | Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 | Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 60128975019, 60128975020, 60128975021, 60128975022, 60128975023, 60128975024, 60128975025, 60128975026, 60128975027

METHOD BLANK: 1061975 | Matrix: Water
Associated Lab Samples: 60128975019, 60128975020, 60128975021, 60128975022, 60128975023, 60128975024, 60128975025, 60128975026, 60128975027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	0.10	09/18/12 13:36	

LABORATORY CONTROL SAMPLE: 1061976

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2	2.0	102	90-110	

MATRIX SPIKE SAMPLE: 1061977

Parameter	Units	60128975019 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	2	2.1	104	90-110	

MATRIX SPIKE SAMPLE: 1061979

Parameter	Units	60128986002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	2	2.0	101	90-110	

SAMPLE DUPLICATE: 1061978

Parameter	Units	60128975021 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	ND		13	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

QC Batch: WETA/21720 Analysis Method: SM 4500-CN-E
QC Batch Method: SM 4500-CN-E Analysis Description: 4500CNE Cyanide, Total
Associated Lab Samples: 60128975001, 60128975002, 60128975003, 60128975004, 60128975005, 60128975006, 60128975007, 60128975008, 60128975009, 60128975010, 60128975011, 60128975012, 60128975013, 60128975014, 60128975015, 60128975016, 60128975017, 60128975018

METHOD BLANK: 1065158 Matrix: Water
Associated Lab Samples: 60128975001, 60128975002, 60128975003, 60128975004, 60128975005, 60128975006, 60128975007, 60128975008, 60128975009, 60128975010, 60128975011, 60128975012, 60128975013, 60128975014, 60128975015, 60128975016, 60128975017, 60128975018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	mg/L	ND	0.0050	09/24/12 13:51	

LABORATORY CONTROL SAMPLE: 1065159

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	.1	0.092	92	69-126	

MATRIX SPIKE SAMPLE: 1065161

Parameter	Units	60128975002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	ND	.1	0.094	94	41-136	

SAMPLE DUPLICATE: 1065162

Parameter	Units	60128975003 Result	Dup Result	RPD	Max RPD	Qualifiers
Cyanide	mg/L	ND	ND		26	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

QC Batch: WETA/21721 Analysis Method: SM 4500-CN-E
QC Batch Method: SM 4500-CN-E Analysis Description: 4500CNE Cyanide, Total
Associated Lab Samples: 60128975019, 60128975020, 60128975021, 60128975022, 60128975023, 60128975024, 60128975025, 60128975026, 60128975027

METHOD BLANK: 1065164 Matrix: Water
Associated Lab Samples: 60128975019, 60128975020, 60128975021, 60128975022, 60128975023, 60128975024, 60128975025, 60128975026, 60128975027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	mg/L	ND	0.0050	09/24/12 16:58	

LABORATORY CONTROL SAMPLE: 1065165

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	.1	0.085	85	69-126	

MATRIX SPIKE SAMPLE: 1065166

Parameter	Units	60128975019 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	ND	.1	0.095	95	41-136	

SAMPLE DUPLICATE: 1065167

Parameter	Units	60128975020 Result	Dup Result	RPD	Max RPD	Qualifiers
Cyanide	mg/L	ND	ND		26	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

QC Batch: WETA/21750 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 60128975001, 60128975002, 60128975003, 60128975004, 60128975005, 60128975006, 60128975007, 60128975008, 60128975009, 60128975010

METHOD BLANK: 1066363 Matrix: Water
Associated Lab Samples: 60128975001, 60128975002, 60128975003, 60128975004, 60128975005, 60128975006, 60128975007, 60128975008, 60128975009, 60128975010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	09/24/12 17:21	

LABORATORY CONTROL SAMPLE: 1066364

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	5.1	101	80-120	

MATRIX SPIKE SAMPLE: 1066365

Parameter	Units	60128660001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	2.9	5	8.1	104	80-120	

SAMPLE DUPLICATE: 1066366

Parameter	Units	60128660002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	1.0	1.1	7	25	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

QC Batch: WETA/21769 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 60128975011, 60128975012, 60128975013, 60128975014, 60128975015, 60128975016, 60128975017, 60128975018, 60128975019, 60128975020, 60128975021, 60128975022, 60128975023, 60128975024, 60128975025, 60128975026, 60128975027

METHOD BLANK: 1067125 Matrix: Water
Associated Lab Samples: 60128975011, 60128975012, 60128975013, 60128975014, 60128975015, 60128975016, 60128975017, 60128975018, 60128975019, 60128975020, 60128975021, 60128975022, 60128975023, 60128975024, 60128975025, 60128975026, 60128975027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	09/26/12 07:30	

LABORATORY CONTROL SAMPLE: 1067126

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	4.6	92	80-120	

MATRIX SPIKE SAMPLE: 1067127

Parameter	Units	60128975011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	ND	5	6.6	115	80-120	

SAMPLE DUPLICATE: 1067128

Parameter	Units	60128975012 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	1.0	1.0	1	25	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALIFIERS

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

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-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.
D6	The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
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.
P8	Analyte was detected in the method blank. All associated samples had concentrations of at least ten times greater than the blank or were below the reporting limit.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60128975001	**RICODR-1_SEC1_20120912**	EPA 200.7	MPRP/19590	EPA 200.7	ICP/16152
60128975002	**RICODR-1_SEC2_20120912**	EPA 200.7	MPRP/19590	EPA 200.7	ICP/16152
60128975003	**RICODR-1_SEC3_20120912**	EPA 200.7	MPRP/19590	EPA 200.7	ICP/16152
60128975004	**RICODR-1_SEC4_20120912**	EPA 200.7	MPRP/19590	EPA 200.7	ICP/16152
60128975005	**RICODR-1_SEC5_20120912**	EPA 200.7	MPRP/19590	EPA 200.7	ICP/16152
60128975006	**RICODR-1_SEC6_20120912**	EPA 200.7	MPRP/19590	EPA 200.7	ICP/16152
60128975007	**RICODR-2_SEC1_20120912**	EPA 200.7	MPRP/19590	EPA 200.7	ICP/16152
60128975008	**RICODR-2_SEC2_20120912**	EPA 200.7	MPRP/19590	EPA 200.7	ICP/16152
60128975009	**RICODR-2_SEC3_20120912**	EPA 200.7	MPRP/19590	EPA 200.7	ICP/16152
60128975010	**RICODR-2_SEC4_20120912**	EPA 200.7	MPRP/19590	EPA 200.7	ICP/16152
60128975011	**RICODR-2_SEC5_20120912**	EPA 200.7	MPRP/19590	EPA 200.7	ICP/16152
60128975012	**RICODR-2_SEC6_20120912**	EPA 200.7	MPRP/19590	EPA 200.7	ICP/16152
60128975013	**RICODR-7_SEC1_20120912**	EPA 200.7	MPRP/19590	EPA 200.7	ICP/16152
60128975014	**RICODR-7_SEC2_20120912**	EPA 200.7	MPRP/19590	EPA 200.7	ICP/16152
60128975015	**RICODR-7_SEC3_20120912**	EPA 200.7	MPRP/19590	EPA 200.7	ICP/16152
60128975016	**RICODR-7_SEC4_20120912**	EPA 200.7	MPRP/19590	EPA 200.7	ICP/16152
60128975017	**RICODR-7_SEC5_20120912**	EPA 200.7	MPRP/19590	EPA 200.7	ICP/16152
60128975018	**RICODR-7_SEC6_20120912**	EPA 200.7	MPRP/19590	EPA 200.7	ICP/16152
60128975019	**RICODR-7_SEC7_20120912**	EPA 200.7	MPRP/19590	EPA 200.7	ICP/16152
60128975020	**RICODR-7_SEC8_20120912**	EPA 200.7	MPRP/19590	EPA 200.7	ICP/16152
60128975021	**RICODR-4-SW_SEC1_20120912**	EPA 200.7	MPRP/19591	EPA 200.7	ICP/16153
60128975022	**RICODR-4-SW_SEC2_20120912**	EPA 200.7	MPRP/19591	EPA 200.7	ICP/16153
60128975023	**RICODR-4-SW_SEC3_20120912**	EPA 200.7	MPRP/19591	EPA 200.7	ICP/16153
60128975024	**RICODR-4-SW_SEC4_20120912**	EPA 200.7	MPRP/19591	EPA 200.7	ICP/16153
60128975025	**RICODR-4-SW_SEC5_20120912**	EPA 200.7	MPRP/19591	EPA 200.7	ICP/16153
60128975026	**RICODR-4-SW_SEC6_20120912**	EPA 200.7	MPRP/19591	EPA 200.7	ICP/16153
60128975027	**RICODR-4-SW_SEC7_20120912**	EPA 200.7	MPRP/19591	EPA 200.7	ICP/16153
60128975001	**RICODR-1_SEC1_20120912**	EPA 200.8	ICPM/35240	EPA 200.8	ICPM/13884
60128975002	**RICODR-1_SEC2_20120912**	EPA 200.8	ICPM/35654	EPA 200.8	ICPM/14072
60128975003	**RICODR-1_SEC3_20120912**	EPA 200.8	ICPM/35654	EPA 200.8	ICPM/14072
60128975004	**RICODR-1_SEC4_20120912**	EPA 200.8	ICPM/35654	EPA 200.8	ICPM/14072
60128975005	**RICODR-1_SEC5_20120912**	EPA 200.8	ICPM/35240	EPA 200.8	ICPM/13884
60128975006	**RICODR-1_SEC6_20120912**	EPA 200.8	ICPM/35654	EPA 200.8	ICPM/14072
60128975007	**RICODR-2_SEC1_20120912**	EPA 200.8	ICPM/35654	EPA 200.8	ICPM/14072
60128975008	**RICODR-2_SEC2_20120912**	EPA 200.8	ICPM/35654	EPA 200.8	ICPM/14072
60128975009	**RICODR-2_SEC3_20120912**	EPA 200.8	ICPM/35241	EPA 200.8	ICPM/13994
60128975010	**RICODR-2_SEC4_20120912**	EPA 200.8	ICPM/35241	EPA 200.8	ICPM/13994
60128975011	**RICODR-2_SEC5_20120912**	EPA 200.8	ICPM/35241	EPA 200.8	ICPM/13994
60128975012	**RICODR-2_SEC6_20120912**	EPA 200.8	ICPM/35241	EPA 200.8	ICPM/13994
60128975013	**RICODR-7_SEC1_20120912**	EPA 200.8	ICPM/35241	EPA 200.8	ICPM/13994
60128975014	**RICODR-7_SEC2_20120912**	EPA 200.8	ICPM/35241	EPA 200.8	ICPM/13994
60128975015	**RICODR-7_SEC3_20120912**	EPA 200.8	ICPM/35241	EPA 200.8	ICPM/13994
60128975016	**RICODR-7_SEC4_20120912**	EPA 200.8	ICPM/35241	EPA 200.8	ICPM/13994
60128975017	**RICODR-7_SEC5_20120912**	EPA 200.8	ICPM/35241	EPA 200.8	ICPM/13994
60128975018	**RICODR-7_SEC6_20120912**	EPA 200.8	ICPM/35241	EPA 200.8	ICPM/13994
60128975019	**RICODR-7_SEC7_20120912**	EPA 200.8	ICPM/35241	EPA 200.8	ICPM/13994

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60128975020	**RICODR-7_SEC8_20120912**	EPA 200.8	ICPM/35241	EPA 200.8	ICPM/13994
60128975021	**RICODR-4-SW_SEC1_20120912**	EPA 200.8	ICPM/35241	EPA 200.8	ICPM/13994
60128975022	**RICODR-4-SW_SEC2_20120912**	EPA 200.8	ICPM/35241	EPA 200.8	ICPM/13994
60128975023	**RICODR-4-SW_SEC3_20120912**	EPA 200.8	ICPM/35241	EPA 200.8	ICPM/13994
60128975024	**RICODR-4-SW_SEC4_20120912**	EPA 200.8	ICPM/35241	EPA 200.8	ICPM/13994
60128975025	**RICODR-4-SW_SEC5_20120912**	EPA 200.8	ICPM/35241	EPA 200.8	ICPM/13994
60128975026	**RICODR-4-SW_SEC6_20120912**	EPA 200.8	ICPM/35241	EPA 200.8	ICPM/13994
60128975027	**RICODR-4-SW_SEC7_20120912**	EPA 200.8	ICPM/35241	EPA 200.8	ICPM/13994
60128975001	**RICODR-1_SEC1_20120912**	EPA 200.8	ICPM/35244	EPA 200.8	ICPM/13995
60128975002	**RICODR-1_SEC2_20120912**	EPA 200.8	ICPM/35244	EPA 200.8	ICPM/13995
60128975003	**RICODR-1_SEC3_20120912**	EPA 200.8	ICPM/35244	EPA 200.8	ICPM/13995
60128975004	**RICODR-1_SEC4_20120912**	EPA 200.8	ICPM/35244	EPA 200.8	ICPM/13995
60128975005	**RICODR-1_SEC5_20120912**	EPA 200.8	ICPM/35244	EPA 200.8	ICPM/13995
60128975006	**RICODR-1_SEC6_20120912**	EPA 200.8	ICPM/35244	EPA 200.8	ICPM/13995
60128975007	**RICODR-2_SEC1_20120912**	EPA 200.8	ICPM/35244	EPA 200.8	ICPM/13995
60128975008	**RICODR-2_SEC2_20120912**	EPA 200.8	ICPM/35245	EPA 200.8	ICPM/13996
60128975009	**RICODR-2_SEC3_20120912**	EPA 200.8	ICPM/35245	EPA 200.8	ICPM/13996
60128975010	**RICODR-2_SEC4_20120912**	EPA 200.8	ICPM/35245	EPA 200.8	ICPM/13996
60128975011	**RICODR-2_SEC5_20120912**	EPA 200.8	ICPM/35245	EPA 200.8	ICPM/13996
60128975012	**RICODR-2_SEC6_20120912**	EPA 200.8	ICPM/35245	EPA 200.8	ICPM/13996
60128975013	**RICODR-7_SEC1_20120912**	EPA 200.8	ICPM/35245	EPA 200.8	ICPM/13996
60128975014	**RICODR-7_SEC2_20120912**	EPA 200.8	ICPM/35245	EPA 200.8	ICPM/13996
60128975015	**RICODR-7_SEC3_20120912**	EPA 200.8	ICPM/35245	EPA 200.8	ICPM/13996
60128975016	**RICODR-7_SEC4_20120912**	EPA 200.8	ICPM/35245	EPA 200.8	ICPM/13996
60128975017	**RICODR-7_SEC5_20120912**	EPA 200.8	ICPM/35245	EPA 200.8	ICPM/13996
60128975018	**RICODR-7_SEC6_20120912**	EPA 200.8	ICPM/35245	EPA 200.8	ICPM/13996
60128975019	**RICODR-7_SEC7_20120912**	EPA 200.8	ICPM/35245	EPA 200.8	ICPM/13996
60128975020	**RICODR-7_SEC8_20120912**	EPA 200.8	ICPM/35245	EPA 200.8	ICPM/13996
60128975021	**RICODR-4-SW_SEC1_20120912**	EPA 200.8	ICPM/35245	EPA 200.8	ICPM/13996
60128975022	**RICODR-4-SW_SEC2_20120912**	EPA 200.8	ICPM/35245	EPA 200.8	ICPM/13996
60128975023	**RICODR-4-SW_SEC3_20120912**	EPA 200.8	ICPM/35245	EPA 200.8	ICPM/13996
60128975024	**RICODR-4-SW_SEC4_20120912**	EPA 200.8	ICPM/35245	EPA 200.8	ICPM/13996
60128975025	**RICODR-4-SW_SEC5_20120912**	EPA 200.8	ICPM/35245	EPA 200.8	ICPM/13996
60128975026	**RICODR-4-SW_SEC6_20120912**	EPA 200.8	ICPM/35245	EPA 200.8	ICPM/13996
60128975027	**RICODR-4-SW_SEC7_20120912**	EPA 200.8	ICPM/35245	EPA 200.8	ICPM/13996
60128975001	**RICODR-1_SEC1_20120912**	EPA 200.8	MPRP/19588	EPA 200.8	ICPM/1651
60128975002	**RICODR-1_SEC2_20120912**	EPA 200.8	MPRP/19588	EPA 200.8	ICPM/1651
60128975003	**RICODR-1_SEC3_20120912**	EPA 200.8	MPRP/19588	EPA 200.8	ICPM/1651
60128975004	**RICODR-1_SEC4_20120912**	EPA 200.8	MPRP/19588	EPA 200.8	ICPM/1651
60128975005	**RICODR-1_SEC5_20120912**	EPA 200.8	MPRP/19588	EPA 200.8	ICPM/1651
60128975006	**RICODR-1_SEC6_20120912**	EPA 200.8	MPRP/19588	EPA 200.8	ICPM/1651
60128975007	**RICODR-2_SEC1_20120912**	EPA 200.8	MPRP/19588	EPA 200.8	ICPM/1651
60128975008	**RICODR-2_SEC2_20120912**	EPA 200.8	MPRP/19588	EPA 200.8	ICPM/1651
60128975009	**RICODR-2_SEC3_20120912**	EPA 200.8	MPRP/19588	EPA 200.8	ICPM/1651
60128975010	**RICODR-2_SEC4_20120912**	EPA 200.8	MPRP/19588	EPA 200.8	ICPM/1651
60128975011	**RICODR-2_SEC5_20120912**	EPA 200.8	MPRP/19588	EPA 200.8	ICPM/1651
60128975012	**RICODR-2_SEC6_20120912**	EPA 200.8	MPRP/19588	EPA 200.8	ICPM/1651

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60128975013	**RICODR-7_SEC1_20120912**	EPA 200.8	MPRP/19588	EPA 200.8	ICPM/1651
60128975014	**RICODR-7_SEC2_20120912**	EPA 200.8	MPRP/19588	EPA 200.8	ICPM/1651
60128975015	**RICODR-7_SEC3_20120912**	EPA 200.8	MPRP/19588	EPA 200.8	ICPM/1651
60128975016	**RICODR-7_SEC4_20120912**	EPA 200.8	MPRP/19588	EPA 200.8	ICPM/1651
60128975017	**RICODR-7_SEC5_20120912**	EPA 200.8	MPRP/19588	EPA 200.8	ICPM/1651
60128975018	**RICODR-7_SEC6_20120912**	EPA 200.8	MPRP/19588	EPA 200.8	ICPM/1651
60128975019	**RICODR-7_SEC7_20120912**	EPA 200.8	MPRP/19588	EPA 200.8	ICPM/1651
60128975020	**RICODR-7_SEC8_20120912**	EPA 200.8	MPRP/19588	EPA 200.8	ICPM/1651
60128975021	**RICODR-4-SW_SEC1_20120912**	EPA 200.8	MPRP/19589	EPA 200.8	ICPM/1652
60128975022	**RICODR-4-SW_SEC2_20120912**	EPA 200.8	MPRP/19589	EPA 200.8	ICPM/1652
60128975023	**RICODR-4-SW_SEC3_20120912**	EPA 200.8	MPRP/19589	EPA 200.8	ICPM/1652
60128975024	**RICODR-4-SW_SEC4_20120912**	EPA 200.8	MPRP/19589	EPA 200.8	ICPM/1652
60128975025	**RICODR-4-SW_SEC5_20120912**	EPA 200.8	MPRP/19589	EPA 200.8	ICPM/1652
60128975026	**RICODR-4-SW_SEC6_20120912**	EPA 200.8	MPRP/19589	EPA 200.8	ICPM/1652
60128975027	**RICODR-4-SW_SEC7_20120912**	EPA 200.8	MPRP/19589	EPA 200.8	ICPM/1652
60128975001	**RICODR-1_SEC1_20120912**	EPA 245.1	MERC/7538	EPA 245.1	MERC/8441
60128975002	**RICODR-1_SEC2_20120912**	EPA 245.1	MERC/7538	EPA 245.1	MERC/8441
60128975003	**RICODR-1_SEC3_20120912**	EPA 245.1	MERC/7538	EPA 245.1	MERC/8441
60128975004	**RICODR-1_SEC4_20120912**	EPA 245.1	MERC/7538	EPA 245.1	MERC/8441
60128975005	**RICODR-1_SEC5_20120912**	EPA 245.1	MERC/7538	EPA 245.1	MERC/8441
60128975006	**RICODR-1_SEC6_20120912**	EPA 245.1	MERC/7538	EPA 245.1	MERC/8441
60128975007	**RICODR-2_SEC1_20120912**	EPA 245.1	MERC/7538	EPA 245.1	MERC/8441
60128975008	**RICODR-2_SEC2_20120912**	EPA 245.1	MERC/7538	EPA 245.1	MERC/8441
60128975009	**RICODR-2_SEC3_20120912**	EPA 245.1	MERC/7538	EPA 245.1	MERC/8441
60128975010	**RICODR-2_SEC4_20120912**	EPA 245.1	MERC/7538	EPA 245.1	MERC/8441
60128975011	**RICODR-2_SEC5_20120912**	EPA 245.1	MERC/7538	EPA 245.1	MERC/8441
60128975012	**RICODR-2_SEC6_20120912**	EPA 245.1	MERC/7541	EPA 245.1	MERC/8472
60128975013	**RICODR-7_SEC1_20120912**	EPA 245.1	MERC/7541	EPA 245.1	MERC/8472
60128975014	**RICODR-7_SEC2_20120912**	EPA 245.1	MERC/7541	EPA 245.1	MERC/8472
60128975015	**RICODR-7_SEC3_20120912**	EPA 245.1	MERC/7541	EPA 245.1	MERC/8472
60128975016	**RICODR-7_SEC4_20120912**	EPA 245.1	MERC/7541	EPA 245.1	MERC/8472
60128975017	**RICODR-7_SEC5_20120912**	EPA 245.1	MERC/7541	EPA 245.1	MERC/8472
60128975018	**RICODR-7_SEC6_20120912**	EPA 245.1	MERC/7541	EPA 245.1	MERC/8472
60128975019	**RICODR-7_SEC7_20120912**	EPA 245.1	MERC/7541	EPA 245.1	MERC/8472
60128975020	**RICODR-7_SEC8_20120912**	EPA 245.1	MERC/7541	EPA 245.1	MERC/8472
60128975021	**RICODR-4-SW_SEC1_20120912**	EPA 245.1	MERC/7541	EPA 245.1	MERC/8472
60128975022	**RICODR-4-SW_SEC2_20120912**	EPA 245.1	MERC/7541	EPA 245.1	MERC/8472
60128975023	**RICODR-4-SW_SEC3_20120912**	EPA 245.1	MERC/7541	EPA 245.1	MERC/8472
60128975024	**RICODR-4-SW_SEC4_20120912**	EPA 245.1	MERC/7541	EPA 245.1	MERC/8472
60128975025	**RICODR-4-SW_SEC5_20120912**	EPA 245.1	MERC/7541	EPA 245.1	MERC/8472
60128975026	**RICODR-4-SW_SEC6_20120912**	EPA 245.1	MERC/7541	EPA 245.1	MERC/8472
60128975027	**RICODR-4-SW_SEC7_20120912**	EPA 245.1	MERC/7541	EPA 245.1	MERC/8472
60128975001	**RICODR-1_SEC1_20120912**	EPA 245.1	MERC/7534	EPA 245.1	MERC/8454
60128975002	**RICODR-1_SEC2_20120912**	EPA 245.1	MERC/7534	EPA 245.1	MERC/8454
60128975003	**RICODR-1_SEC3_20120912**	EPA 245.1	MERC/7534	EPA 245.1	MERC/8454
60128975004	**RICODR-1_SEC4_20120912**	EPA 245.1	MERC/7534	EPA 245.1	MERC/8454
60128975005	**RICODR-1_SEC5_20120912**	EPA 245.1	MERC/7534	EPA 245.1	MERC/8454

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60128975006	**RICODR-1_SEC6_20120912**	EPA 245.1	MERC/7534	EPA 245.1	MERC/8454
60128975007	**RICODR-2_SEC1_20120912**	EPA 245.1	MERC/7534	EPA 245.1	MERC/8454
60128975008	**RICODR-2_SEC2_20120912**	EPA 245.1	MERC/7534	EPA 245.1	MERC/8454
60128975009	**RICODR-2_SEC3_20120912**	EPA 245.1	MERC/7534	EPA 245.1	MERC/8454
60128975010	**RICODR-2_SEC4_20120912**	EPA 245.1	MERC/7534	EPA 245.1	MERC/8454
60128975011	**RICODR-2_SEC5_20120912**	EPA 245.1	MERC/7534	EPA 245.1	MERC/8454
60128975012	**RICODR-2_SEC6_20120912**	EPA 245.1	MERC/7535	EPA 245.1	MERC/8455
60128975013	**RICODR-7_SEC1_20120912**	EPA 245.1	MERC/7535	EPA 245.1	MERC/8455
60128975014	**RICODR-7_SEC2_20120912**	EPA 245.1	MERC/7535	EPA 245.1	MERC/8455
60128975015	**RICODR-7_SEC3_20120912**	EPA 245.1	MERC/7535	EPA 245.1	MERC/8455
60128975016	**RICODR-7_SEC4_20120912**	EPA 245.1	MERC/7535	EPA 245.1	MERC/8455
60128975017	**RICODR-7_SEC5_20120912**	EPA 245.1	MERC/7535	EPA 245.1	MERC/8455
60128975018	**RICODR-7_SEC6_20120912**	EPA 245.1	MERC/7535	EPA 245.1	MERC/8455
60128975019	**RICODR-7_SEC7_20120912**	EPA 245.1	MERC/7535	EPA 245.1	MERC/8455
60128975020	**RICODR-7_SEC8_20120912**	EPA 245.1	MERC/7535	EPA 245.1	MERC/8455
60128975021	**RICODR-4-SW_SEC1_20120912**	EPA 245.1	MERC/7535	EPA 245.1	MERC/8455
60128975022	**RICODR-4-SW_SEC2_20120912**	EPA 245.1	MERC/7535	EPA 245.1	MERC/8455
60128975023	**RICODR-4-SW_SEC3_20120912**	EPA 245.1	MERC/7535	EPA 245.1	MERC/8455
60128975024	**RICODR-4-SW_SEC4_20120912**	EPA 245.1	MERC/7535	EPA 245.1	MERC/8455
60128975025	**RICODR-4-SW_SEC5_20120912**	EPA 245.1	MERC/7535	EPA 245.1	MERC/8455
60128975026	**RICODR-4-SW_SEC6_20120912**	EPA 245.1	MERC/7535	EPA 245.1	MERC/8455
60128975027	**RICODR-4-SW_SEC7_20120912**	EPA 245.1	MERC/7535	EPA 245.1	MERC/8455
60128975001	**RICODR-1_SEC1_20120912**	EPA 245.1	MERP/6637	EPA 245.1	MERC/6598
60128975002	**RICODR-1_SEC2_20120912**	EPA 245.1	MERP/6637	EPA 245.1	MERC/6598
60128975003	**RICODR-1_SEC3_20120912**	EPA 245.1	MERP/6637	EPA 245.1	MERC/6598
60128975004	**RICODR-1_SEC4_20120912**	EPA 245.1	MERP/6637	EPA 245.1	MERC/6598
60128975005	**RICODR-1_SEC5_20120912**	EPA 245.1	MERP/6637	EPA 245.1	MERC/6598
60128975006	**RICODR-1_SEC6_20120912**	EPA 245.1	MERP/6637	EPA 245.1	MERC/6598
60128975007	**RICODR-2_SEC1_20120912**	EPA 245.1	MERP/6637	EPA 245.1	MERC/6598
60128975008	**RICODR-2_SEC2_20120912**	EPA 245.1	MERP/6637	EPA 245.1	MERC/6598
60128975009	**RICODR-2_SEC3_20120912**	EPA 245.1	MERP/6637	EPA 245.1	MERC/6598
60128975010	**RICODR-2_SEC4_20120912**	EPA 245.1	MERP/6637	EPA 245.1	MERC/6598
60128975011	**RICODR-2_SEC5_20120912**	EPA 245.1	MERP/6637	EPA 245.1	MERC/6598
60128975012	**RICODR-2_SEC6_20120912**	EPA 245.1	MERP/6637	EPA 245.1	MERC/6598
60128975013	**RICODR-7_SEC1_20120912**	EPA 245.1	MERP/6637	EPA 245.1	MERC/6598
60128975014	**RICODR-7_SEC2_20120912**	EPA 245.1	MERP/6637	EPA 245.1	MERC/6598
60128975015	**RICODR-7_SEC3_20120912**	EPA 245.1	MERP/6637	EPA 245.1	MERC/6598
60128975016	**RICODR-7_SEC4_20120912**	EPA 245.1	MERP/6638	EPA 245.1	MERC/6599
60128975017	**RICODR-7_SEC5_20120912**	EPA 245.1	MERP/6638	EPA 245.1	MERC/6599
60128975018	**RICODR-7_SEC6_20120912**	EPA 245.1	MERP/6638	EPA 245.1	MERC/6599
60128975019	**RICODR-7_SEC7_20120912**	EPA 245.1	MERP/6638	EPA 245.1	MERC/6599
60128975020	**RICODR-7_SEC8_20120912**	EPA 245.1	MERP/6638	EPA 245.1	MERC/6599
60128975021	**RICODR-4-SW_SEC1_20120912**	EPA 245.1	MERP/6638	EPA 245.1	MERC/6599
60128975022	**RICODR-4-SW_SEC2_20120912**	EPA 245.1	MERP/6638	EPA 245.1	MERC/6599
60128975023	**RICODR-4-SW_SEC3_20120912**	EPA 245.1	MERP/6638	EPA 245.1	MERC/6599
60128975024	**RICODR-4-SW_SEC4_20120912**	EPA 245.1	MERP/6638	EPA 245.1	MERC/6599
60128975025	**RICODR-4-SW_SEC5_20120912**	EPA 245.1	MERP/6638	EPA 245.1	MERC/6599

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60128975026	**RICODR-4-SW_SEC6_20120912**	EPA 245.1	MERP/6638	EPA 245.1	MERC/6599
60128975027	**RICODR-4-SW_SEC7_20120912**	EPA 245.1	MERP/6638	EPA 245.1	MERC/6599
60128975001	**RICODR-1_SEC1_20120912**	SM 2510B	MT/10164		
60128975002	**RICODR-1_SEC2_20120912**	SM 2510B	MT/10164		
60128975003	**RICODR-1_SEC3_20120912**	SM 2510B	MT/10164		
60128975004	**RICODR-1_SEC4_20120912**	SM 2510B	MT/10164		
60128975005	**RICODR-1_SEC5_20120912**	SM 2510B	MT/10164		
60128975006	**RICODR-1_SEC6_20120912**	SM 2510B	MT/10164		
60128975007	**RICODR-2_SEC1_20120912**	SM 2510B	MT/10164		
60128975008	**RICODR-2_SEC2_20120912**	SM 2510B	MT/10164		
60128975009	**RICODR-2_SEC3_20120912**	SM 2510B	MT/10164		
60128975010	**RICODR-2_SEC4_20120912**	SM 2510B	MT/10164		
60128975011	**RICODR-2_SEC5_20120912**	SM 2510B	MT/10164		
60128975012	**RICODR-2_SEC6_20120912**	SM 2510B	MT/10164		
60128975013	**RICODR-7_SEC1_20120912**	SM 2510B	MT/10164		
60128975014	**RICODR-7_SEC2_20120912**	SM 2510B	MT/10164		
60128975015	**RICODR-7_SEC3_20120912**	SM 2510B	MT/10164		
60128975016	**RICODR-7_SEC4_20120912**	SM 2510B	MT/10164		
60128975017	**RICODR-7_SEC5_20120912**	SM 2510B	MT/10164		
60128975018	**RICODR-7_SEC6_20120912**	SM 2510B	MT/10164		
60128975019	**RICODR-7_SEC7_20120912**	SM 2510B	MT/10165		
60128975020	**RICODR-7_SEC8_20120912**	SM 2510B	MT/10165		
60128975021	**RICODR-4-SW_SEC1_20120912**	SM 2510B	MT/10165		
60128975022	**RICODR-4-SW_SEC2_20120912**	SM 2510B	MT/10165		
60128975023	**RICODR-4-SW_SEC3_20120912**	SM 2510B	MT/10165		
60128975024	**RICODR-4-SW_SEC4_20120912**	SM 2510B	MT/10165		
60128975025	**RICODR-4-SW_SEC5_20120912**	SM 2510B	MT/10165		
60128975026	**RICODR-4-SW_SEC6_20120912**	SM 2510B	MT/10165		
60128975027	**RICODR-4-SW_SEC7_20120912**	SM 2510B	MT/10165		
60128975001	**RICODR-1_SEC1_20120912**	Calculated	MT/10166		
60128975002	**RICODR-1_SEC2_20120912**	Calculated	MT/10166		
60128975003	**RICODR-1_SEC3_20120912**	Calculated	MT/10166		
60128975004	**RICODR-1_SEC4_20120912**	Calculated	MT/10166		
60128975005	**RICODR-1_SEC5_20120912**	Calculated	MT/10166		
60128975006	**RICODR-1_SEC6_20120912**	Calculated	MT/10166		
60128975007	**RICODR-2_SEC1_20120912**	Calculated	MT/10166		
60128975008	**RICODR-2_SEC2_20120912**	Calculated	MT/10166		
60128975009	**RICODR-2_SEC3_20120912**	Calculated	MT/10166		
60128975010	**RICODR-2_SEC4_20120912**	Calculated	MT/10166		
60128975011	**RICODR-2_SEC5_20120912**	Calculated	MT/10166		
60128975012	**RICODR-2_SEC6_20120912**	Calculated	MT/10166		
60128975013	**RICODR-7_SEC1_20120912**	Calculated	MT/10166		
60128975014	**RICODR-7_SEC2_20120912**	Calculated	MT/10166		
60128975015	**RICODR-7_SEC3_20120912**	Calculated	MT/10166		
60128975016	**RICODR-7_SEC4_20120912**	Calculated	MT/10166		
60128975017	**RICODR-7_SEC5_20120912**	Calculated	MT/10166		
60128975018	**RICODR-7_SEC6_20120912**	Calculated	MT/10166		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60128975019	**RICODR-7_SEC7_20120912**	Calculated	MT/10166		
60128975020	**RICODR-7_SEC8_20120912**	Calculated	MT/10166		
60128975021	**RICODR-4-SW_SEC1_20120912**	Calculated	MT/10166		
60128975022	**RICODR-4-SW_SEC2_20120912**	Calculated	MT/10166		
60128975023	**RICODR-4-SW_SEC3_20120912**	Calculated	MT/10166		
60128975024	**RICODR-4-SW_SEC4_20120912**	Calculated	MT/10166		
60128975025	**RICODR-4-SW_SEC5_20120912**	Calculated	MT/10166		
60128975026	**RICODR-4-SW_SEC6_20120912**	Calculated	MT/10166		
60128975027	**RICODR-4-SW_SEC7_20120912**	Calculated	MT/10166		
60128975001	**RICODR-1_SEC1_20120912**	SM 2320B	WET/37242		
60128975002	**RICODR-1_SEC2_20120912**	SM 2320B	WET/37242		
60128975003	**RICODR-1_SEC3_20120912**	SM 2320B	WET/37242		
60128975004	**RICODR-1_SEC4_20120912**	SM 2320B	WET/37242		
60128975005	**RICODR-1_SEC5_20120912**	SM 2320B	WET/37242		
60128975006	**RICODR-1_SEC6_20120912**	SM 2320B	WET/37242		
60128975007	**RICODR-2_SEC1_20120912**	SM 2320B	WET/37242		
60128975008	**RICODR-2_SEC2_20120912**	SM 2320B	WET/37242		
60128975009	**RICODR-2_SEC3_20120912**	SM 2320B	WET/37242		
60128975010	**RICODR-2_SEC4_20120912**	SM 2320B	WET/37242		
60128975011	**RICODR-2_SEC5_20120912**	SM 2320B	WET/37242		
60128975012	**RICODR-2_SEC6_20120912**	SM 2320B	WET/37242		
60128975013	**RICODR-7_SEC1_20120912**	SM 2320B	WET/37242		
60128975014	**RICODR-7_SEC2_20120912**	SM 2320B	WET/37242		
60128975015	**RICODR-7_SEC3_20120912**	SM 2320B	WET/37242		
60128975016	**RICODR-7_SEC4_20120912**	SM 2320B	WET/37242		
60128975017	**RICODR-7_SEC5_20120912**	SM 2320B	WET/37242		
60128975018	**RICODR-7_SEC6_20120912**	SM 2320B	WET/37242		
60128975019	**RICODR-7_SEC7_20120912**	SM 2320B	WET/37242		
60128975020	**RICODR-7_SEC8_20120912**	SM 2320B	WET/37242		
60128975021	**RICODR-4-SW_SEC1_20120912**	SM 2320B	WET/37244		
60128975022	**RICODR-4-SW_SEC2_20120912**	SM 2320B	WET/37244		
60128975023	**RICODR-4-SW_SEC3_20120912**	SM 2320B	WET/37244		
60128975024	**RICODR-4-SW_SEC4_20120912**	SM 2320B	WET/37244		
60128975025	**RICODR-4-SW_SEC5_20120912**	SM 2320B	WET/37244		
60128975026	**RICODR-4-SW_SEC6_20120912**	SM 2320B	WET/37244		
60128975027	**RICODR-4-SW_SEC7_20120912**	SM 2320B	WET/37244		
60128975001	**RICODR-1_SEC1_20120912**	SM 2540C	WET/37163		
60128975002	**RICODR-1_SEC2_20120912**	SM 2540C	WET/37163		
60128975003	**RICODR-1_SEC3_20120912**	SM 2540C	WET/37163		
60128975004	**RICODR-1_SEC4_20120912**	SM 2540C	WET/37163		
60128975005	**RICODR-1_SEC5_20120912**	SM 2540C	WET/37163		
60128975006	**RICODR-1_SEC6_20120912**	SM 2540C	WET/37163		
60128975007	**RICODR-2_SEC1_20120912**	SM 2540C	WET/37163		
60128975008	**RICODR-2_SEC2_20120912**	SM 2540C	WET/37163		
60128975009	**RICODR-2_SEC3_20120912**	SM 2540C	WET/37163		
60128975010	**RICODR-2_SEC4_20120912**	SM 2540C	WET/37163		
60128975011	**RICODR-2_SEC5_20120912**	SM 2540C	WET/37221		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60128975012	**RICODR-2_SEC6_20120912**	SM 2540C	WET/37221		
60128975013	**RICODR-7_SEC1_20120912**	SM 2540C	WET/37221		
60128975014	**RICODR-7_SEC2_20120912**	SM 2540C	WET/37221		
60128975015	**RICODR-7_SEC3_20120912**	SM 2540C	WET/37221		
60128975016	**RICODR-7_SEC4_20120912**	SM 2540C	WET/37221		
60128975017	**RICODR-7_SEC5_20120912**	SM 2540C	WET/37221		
60128975018	**RICODR-7_SEC6_20120912**	SM 2540C	WET/37221		
60128975019	**RICODR-7_SEC7_20120912**	SM 2540C	WET/37221		
60128975020	**RICODR-7_SEC8_20120912**	SM 2540C	WET/37221		
60128975021	**RICODR-4-SW_SEC1_20120912**	SM 2540C	WET/37221		
60128975022	**RICODR-4-SW_SEC2_20120912**	SM 2540C	WET/37221		
60128975023	**RICODR-4-SW_SEC3_20120912**	SM 2540C	WET/37221		
60128975024	**RICODR-4-SW_SEC4_20120912**	SM 2540C	WET/37221		
60128975025	**RICODR-4-SW_SEC5_20120912**	SM 2540C	WET/37221		
60128975026	**RICODR-4-SW_SEC6_20120912**	SM 2540C	WET/37221		
60128975027	**RICODR-4-SW_SEC7_20120912**	SM 2540C	WET/37221		
60128975001	**RICODR-1_SEC1_20120912**	SM 2540D	WET/37188		
60128975002	**RICODR-1_SEC2_20120912**	SM 2540D	WET/37188		
60128975003	**RICODR-1_SEC3_20120912**	SM 2540D	WET/37206		
60128975004	**RICODR-1_SEC4_20120912**	SM 2540D	WET/37206		
60128975005	**RICODR-1_SEC5_20120912**	SM 2540D	WET/37206		
60128975006	**RICODR-1_SEC6_20120912**	SM 2540D	WET/37206		
60128975007	**RICODR-2_SEC1_20120912**	SM 2540D	WET/37206		
60128975008	**RICODR-2_SEC2_20120912**	SM 2540D	WET/37206		
60128975009	**RICODR-2_SEC3_20120912**	SM 2540D	WET/37206		
60128975010	**RICODR-2_SEC4_20120912**	SM 2540D	WET/37206		
60128975011	**RICODR-2_SEC5_20120912**	SM 2540D	WET/37206		
60128975012	**RICODR-2_SEC6_20120912**	SM 2540D	WET/37206		
60128975013	**RICODR-7_SEC1_20120912**	SM 2540D	WET/37206		
60128975014	**RICODR-7_SEC2_20120912**	SM 2540D	WET/37206		
60128975015	**RICODR-7_SEC3_20120912**	SM 2540D	WET/37206		
60128975016	**RICODR-7_SEC4_20120912**	SM 2540D	WET/37206		
60128975017	**RICODR-7_SEC5_20120912**	SM 2540D	WET/37206		
60128975018	**RICODR-7_SEC6_20120912**	SM 2540D	WET/37206		
60128975019	**RICODR-7_SEC7_20120912**	SM 2540D	WET/37206		
60128975020	**RICODR-7_SEC8_20120912**	SM 2540D	WET/37206		
60128975021	**RICODR-4-SW_SEC1_20120912**	SM 2540D	WET/37206		
60128975022	**RICODR-4-SW_SEC2_20120912**	SM 2540D	WET/37207		
60128975023	**RICODR-4-SW_SEC3_20120912**	SM 2540D	WET/37207		
60128975024	**RICODR-4-SW_SEC4_20120912**	SM 2540D	WET/37207		
60128975025	**RICODR-4-SW_SEC5_20120912**	SM 2540D	WET/37207		
60128975026	**RICODR-4-SW_SEC6_20120912**	SM 2540D	WET/37207		
60128975027	**RICODR-4-SW_SEC7_20120912**	SM 2540D	WET/37207		
60128975001	**RICODR-1_SEC1_20120912**	SM 4500-S-2 D	WET/37145		
60128975002	**RICODR-1_SEC2_20120912**	SM 4500-S-2 D	WET/37145		
60128975003	**RICODR-1_SEC3_20120912**	SM 4500-S-2 D	WET/37145		
60128975004	**RICODR-1_SEC4_20120912**	SM 4500-S-2 D	WET/37145		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60128975005	**RICODR-1_SEC5_20120912**	SM 4500-S-2 D	WET/37145		
60128975006	**RICODR-1_SEC6_20120912**	SM 4500-S-2 D	WET/37146		
60128975007	**RICODR-2_SEC1_20120912**	SM 4500-S-2 D	WET/37146		
60128975008	**RICODR-2_SEC2_20120912**	SM 4500-S-2 D	WET/37146		
60128975009	**RICODR-2_SEC3_20120912**	SM 4500-S-2 D	WET/37146		
60128975010	**RICODR-2_SEC4_20120912**	SM 4500-S-2 D	WET/37146		
60128975011	**RICODR-2_SEC5_20120912**	SM 4500-S-2 D	WET/37146		
60128975012	**RICODR-2_SEC6_20120912**	SM 4500-S-2 D	WET/37146		
60128975013	**RICODR-7_SEC1_20120912**	SM 4500-S-2 D	WET/37146		
60128975014	**RICODR-7_SEC2_20120912**	SM 4500-S-2 D	WET/37146		
60128975015	**RICODR-7_SEC3_20120912**	SM 4500-S-2 D	WET/37146		
60128975016	**RICODR-7_SEC4_20120912**	SM 4500-S-2 D	WET/37146		
60128975017	**RICODR-7_SEC5_20120912**	SM 4500-S-2 D	WET/37146		
60128975018	**RICODR-7_SEC6_20120912**	SM 4500-S-2 D	WET/37146		
60128975019	**RICODR-7_SEC7_20120912**	SM 4500-S-2 D	WET/37146		
60128975020	**RICODR-7_SEC8_20120912**	SM 4500-S-2 D	WET/37146		
60128975021	**RICODR-4-SW_SEC1_20120912**	SM 4500-S-2 D	WET/37146		
60128975022	**RICODR-4-SW_SEC2_20120912**	SM 4500-S-2 D	WET/37146		
60128975023	**RICODR-4-SW_SEC3_20120912**	SM 4500-S-2 D	WET/37146		
60128975024	**RICODR-4-SW_SEC4_20120912**	SM 4500-S-2 D	WET/37146		
60128975025	**RICODR-4-SW_SEC5_20120912**	SM 4500-S-2 D	WET/37146		
60128975026	**RICODR-4-SW_SEC6_20120912**	SM 4500-S-2 D	WET/37147		
60128975027	**RICODR-4-SW_SEC7_20120912**	SM 4500-S-2 D	WET/37147		
60128975001	**RICODR-1_SEC1_20120912**	EPA 300.0	WETA/21713		
60128975002	**RICODR-1_SEC2_20120912**	EPA 300.0	WETA/21713		
60128975003	**RICODR-1_SEC3_20120912**	EPA 300.0	WETA/21713		
60128975004	**RICODR-1_SEC4_20120912**	EPA 300.0	WETA/21713		
60128975005	**RICODR-1_SEC5_20120912**	EPA 300.0	WETA/21713		
60128975006	**RICODR-1_SEC6_20120912**	EPA 300.0	WETA/21713		
60128975007	**RICODR-2_SEC1_20120912**	EPA 300.0	WETA/21713		
60128975008	**RICODR-2_SEC2_20120912**	EPA 300.0	WETA/21713		
60128975009	**RICODR-2_SEC3_20120912**	EPA 300.0	WETA/21713		
60128975010	**RICODR-2_SEC4_20120912**	EPA 300.0	WETA/21713		
60128975011	**RICODR-2_SEC5_20120912**	EPA 300.0	WETA/21713		
60128975012	**RICODR-2_SEC6_20120912**	EPA 300.0	WETA/21713		
60128975013	**RICODR-7_SEC1_20120912**	EPA 300.0	WETA/21713		
60128975014	**RICODR-7_SEC2_20120912**	EPA 300.0	WETA/21713		
60128975015	**RICODR-7_SEC3_20120912**	EPA 300.0	WETA/21713		
60128975016	**RICODR-7_SEC4_20120912**	EPA 300.0	WETA/21713		
60128975017	**RICODR-7_SEC5_20120912**	EPA 300.0	WETA/21713		
60128975018	**RICODR-7_SEC6_20120912**	EPA 300.0	WETA/21713		
60128975019	**RICODR-7_SEC7_20120912**	EPA 300.0	WETA/21713		
60128975020	**RICODR-7_SEC8_20120912**	EPA 300.0	WETA/21713		
60128975021	**RICODR-4-SW_SEC1_20120912**	EPA 300.0	WETA/21736		
60128975022	**RICODR-4-SW_SEC2_20120912**	EPA 300.0	WETA/21736		
60128975023	**RICODR-4-SW_SEC3_20120912**	EPA 300.0	WETA/21736		
60128975024	**RICODR-4-SW_SEC4_20120912**	EPA 300.0	WETA/21736		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60128975025	**RICODR-4-SW_SEC5_20120912**	EPA 300.0	WETA/21736		
60128975026	**RICODR-4-SW_SEC6_20120912**	EPA 300.0	WETA/21736		
60128975027	**RICODR-4-SW_SEC7_20120912**	EPA 300.0	WETA/21736		
60128975001	**RICODR-1_SEC1_20120912**	EPA 353.2	WETA/21656		
60128975002	**RICODR-1_SEC2_20120912**	EPA 353.2	WETA/21656		
60128975003	**RICODR-1_SEC3_20120912**	EPA 353.2	WETA/21656		
60128975004	**RICODR-1_SEC4_20120912**	EPA 353.2	WETA/21656		
60128975005	**RICODR-1_SEC5_20120912**	EPA 353.2	WETA/21656		
60128975006	**RICODR-1_SEC6_20120912**	EPA 353.2	WETA/21656		
60128975007	**RICODR-2_SEC1_20120912**	EPA 353.2	WETA/21656		
60128975008	**RICODR-2_SEC2_20120912**	EPA 353.2	WETA/21656		
60128975009	**RICODR-2_SEC3_20120912**	EPA 353.2	WETA/21656		
60128975010	**RICODR-2_SEC4_20120912**	EPA 353.2	WETA/21656		
60128975011	**RICODR-2_SEC5_20120912**	EPA 353.2	WETA/21656		
60128975012	**RICODR-2_SEC6_20120912**	EPA 353.2	WETA/21656		
60128975013	**RICODR-7_SEC1_20120912**	EPA 353.2	WETA/21656		
60128975014	**RICODR-7_SEC2_20120912**	EPA 353.2	WETA/21656		
60128975015	**RICODR-7_SEC3_20120912**	EPA 353.2	WETA/21656		
60128975016	**RICODR-7_SEC4_20120912**	EPA 353.2	WETA/21656		
60128975017	**RICODR-7_SEC5_20120912**	EPA 353.2	WETA/21656		
60128975018	**RICODR-7_SEC6_20120912**	EPA 353.2	WETA/21656		
60128975019	**RICODR-7_SEC7_20120912**	EPA 353.2	WETA/21657		
60128975020	**RICODR-7_SEC8_20120912**	EPA 353.2	WETA/21657		
60128975021	**RICODR-4-SW_SEC1_20120912**	EPA 353.2	WETA/21657		
60128975022	**RICODR-4-SW_SEC2_20120912**	EPA 353.2	WETA/21657		
60128975023	**RICODR-4-SW_SEC3_20120912**	EPA 353.2	WETA/21657		
60128975024	**RICODR-4-SW_SEC4_20120912**	EPA 353.2	WETA/21657		
60128975025	**RICODR-4-SW_SEC5_20120912**	EPA 353.2	WETA/21657		
60128975026	**RICODR-4-SW_SEC6_20120912**	EPA 353.2	WETA/21657		
60128975027	**RICODR-4-SW_SEC7_20120912**	EPA 353.2	WETA/21657		
60128975001	**RICODR-1_SEC1_20120912**	SM 4500-CN-E	WETA/21720		
60128975002	**RICODR-1_SEC2_20120912**	SM 4500-CN-E	WETA/21720		
60128975003	**RICODR-1_SEC3_20120912**	SM 4500-CN-E	WETA/21720		
60128975004	**RICODR-1_SEC4_20120912**	SM 4500-CN-E	WETA/21720		
60128975005	**RICODR-1_SEC5_20120912**	SM 4500-CN-E	WETA/21720		
60128975006	**RICODR-1_SEC6_20120912**	SM 4500-CN-E	WETA/21720		
60128975007	**RICODR-2_SEC1_20120912**	SM 4500-CN-E	WETA/21720		
60128975008	**RICODR-2_SEC2_20120912**	SM 4500-CN-E	WETA/21720		
60128975009	**RICODR-2_SEC3_20120912**	SM 4500-CN-E	WETA/21720		
60128975010	**RICODR-2_SEC4_20120912**	SM 4500-CN-E	WETA/21720		
60128975011	**RICODR-2_SEC5_20120912**	SM 4500-CN-E	WETA/21720		
60128975012	**RICODR-2_SEC6_20120912**	SM 4500-CN-E	WETA/21720		
60128975013	**RICODR-7_SEC1_20120912**	SM 4500-CN-E	WETA/21720		
60128975014	**RICODR-7_SEC2_20120912**	SM 4500-CN-E	WETA/21720		
60128975015	**RICODR-7_SEC3_20120912**	SM 4500-CN-E	WETA/21720		
60128975016	**RICODR-7_SEC4_20120912**	SM 4500-CN-E	WETA/21720		
60128975017	**RICODR-7_SEC5_20120912**	SM 4500-CN-E	WETA/21720		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RICO SEPT 2012 DOLORES RIVER
Pace Project No.: 60128975

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60128975018	**RICODR-7_SEC6_20120912**	SM 4500-CN-E	WETA/21720		
60128975019	**RICODR-7_SEC7_20120912**	SM 4500-CN-E	WETA/21721		
60128975020	**RICODR-7_SEC8_20120912**	SM 4500-CN-E	WETA/21721		
60128975021	**RICODR-4-SW_SEC1_20120912**	SM 4500-CN-E	WETA/21721		
60128975022	**RICODR-4-SW_SEC2_20120912**	SM 4500-CN-E	WETA/21721		
60128975023	**RICODR-4-SW_SEC3_20120912**	SM 4500-CN-E	WETA/21721		
60128975024	**RICODR-4-SW_SEC4_20120912**	SM 4500-CN-E	WETA/21721		
60128975025	**RICODR-4-SW_SEC5_20120912**	SM 4500-CN-E	WETA/21721		
60128975026	**RICODR-4-SW_SEC6_20120912**	SM 4500-CN-E	WETA/21721		
60128975027	**RICODR-4-SW_SEC7_20120912**	SM 4500-CN-E	WETA/21721		
60128975001	**RICODR-1_SEC1_20120912**	SM 5310C	WETA/21750		
60128975002	**RICODR-1_SEC2_20120912**	SM 5310C	WETA/21750		
60128975003	**RICODR-1_SEC3_20120912**	SM 5310C	WETA/21750		
60128975004	**RICODR-1_SEC4_20120912**	SM 5310C	WETA/21750		
60128975005	**RICODR-1_SEC5_20120912**	SM 5310C	WETA/21750		
60128975006	**RICODR-1_SEC6_20120912**	SM 5310C	WETA/21750		
60128975007	**RICODR-2_SEC1_20120912**	SM 5310C	WETA/21750		
60128975008	**RICODR-2_SEC2_20120912**	SM 5310C	WETA/21750		
60128975009	**RICODR-2_SEC3_20120912**	SM 5310C	WETA/21750		
60128975010	**RICODR-2_SEC4_20120912**	SM 5310C	WETA/21750		
60128975011	**RICODR-2_SEC5_20120912**	SM 5310C	WETA/21769		
60128975012	**RICODR-2_SEC6_20120912**	SM 5310C	WETA/21769		
60128975013	**RICODR-7_SEC1_20120912**	SM 5310C	WETA/21769		
60128975014	**RICODR-7_SEC2_20120912**	SM 5310C	WETA/21769		
60128975015	**RICODR-7_SEC3_20120912**	SM 5310C	WETA/21769		
60128975016	**RICODR-7_SEC4_20120912**	SM 5310C	WETA/21769		
60128975017	**RICODR-7_SEC5_20120912**	SM 5310C	WETA/21769		
60128975018	**RICODR-7_SEC6_20120912**	SM 5310C	WETA/21769		
60128975019	**RICODR-7_SEC7_20120912**	SM 5310C	WETA/21769		
60128975020	**RICODR-7_SEC8_20120912**	SM 5310C	WETA/21769		
60128975021	**RICODR-4-SW_SEC1_20120912**	SM 5310C	WETA/21769		
60128975022	**RICODR-4-SW_SEC2_20120912**	SM 5310C	WETA/21769		
60128975023	**RICODR-4-SW_SEC3_20120912**	SM 5310C	WETA/21769		
60128975024	**RICODR-4-SW_SEC4_20120912**	SM 5310C	WETA/21769		
60128975025	**RICODR-4-SW_SEC5_20120912**	SM 5310C	WETA/21769		
60128975026	**RICODR-4-SW_SEC6_20120912**	SM 5310C	WETA/21769		
60128975027	**RICODR-4-SW_SEC7_20120912**	SM 5310C	WETA/21769		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

QC Batch: ICPM/35239 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: 200.8 MET
Associated Lab Samples: 60128986001, 60128986003, 60128986004, 60128986005, 60128986006, 60128986007, 60128986008, 60128986011, 60128986013, 60128986014, 60128986015, 60128986016, 60128986017, 60128986018

METHOD BLANK: 1290920 Matrix: Water
Associated Lab Samples: 60128986001, 60128986003, 60128986004, 60128986005, 60128986006, 60128986007, 60128986008, 60128986011, 60128986013, 60128986014, 60128986015, 60128986016, 60128986017, 60128986018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	4.0	09/28/12 09:18	
Antimony	ug/L	ND	0.50	09/28/12 09:18	
Arsenic	ug/L	ND	0.50	10/06/12 18:24	
Barium	ug/L	ND	0.30	09/28/12 09:18	
Beryllium	ug/L	ND	0.20	09/28/12 09:18	
Cadmium	ug/L	0.12	0.080	10/02/12 15:15	P8
Calcium	ug/L	ND	20.0	10/02/12 15:15	
Chromium	ug/L	ND	0.50	09/28/12 09:18	
Cobalt	ug/L	ND	0.50	09/28/12 09:18	
Copper	ug/L	ND	0.50	09/28/12 09:18	
Iron	ug/L	ND	50.0	09/28/12 09:18	
Lead	ug/L	ND	0.10	09/28/12 09:18	
Magnesium	ug/L	ND	5.0	09/28/12 09:18	
Manganese	ug/L	ND	0.50	10/02/12 15:15	
Molybdenum	ug/L	ND	0.50	09/28/12 09:18	
Nickel	ug/L	ND	0.50	09/28/12 09:18	
Potassium	ug/L	ND	20.0	09/28/12 09:18	
Selenium	ug/L	ND	0.50	09/28/12 09:18	
Silica	ug/L	ND	53.5	10/06/12 18:24	
Silver	ug/L	ND	0.50	09/28/12 09:18	
Sodium	ug/L	ND	50.0	09/28/12 09:18	
Thallium	ug/L	ND	0.10	09/28/12 09:18	
Total Hardness by 2340B	ug/L	ND	71.0	10/02/12 15:15	
Vanadium	ug/L	ND	0.10	09/28/12 09:18	
Zinc	ug/L	ND	5.0	09/28/12 09:18	

LABORATORY CONTROL SAMPLE: 1290921

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	80	83.9	105	85-115	
Antimony	ug/L	80	84.6	106	85-115	
Arsenic	ug/L	80	84.9	106	85-115	
Barium	ug/L	80	83.4	104	85-115	
Beryllium	ug/L	80	86.2	108	85-115	
Cadmium	ug/L	80	82.6	103	85-115	
Calcium	ug/L	1000	1050	105	85-115	
Chromium	ug/L	80	85.2	107	85-115	
Cobalt	ug/L	80	81.1	101	85-115	
Copper	ug/L	80	86.2	108	85-115	
Iron	ug/L	1000	1050	105	85-115	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

LABORATORY CONTROL SAMPLE: 1290921

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	80	86.3	108	85-115	
Magnesium	ug/L	1000	1010	101	85-115	
Manganese	ug/L	80	84.6	106	85-115	
Molybdenum	ug/L	80	82.9	104	85-115	
Nickel	ug/L	80	84.5	106	85-115	
Potassium	ug/L	1000	1050	105	85-115	
Selenium	ug/L	80	84.2	105	85-115	
Silica	ug/L	2140	2330	109	85-115	
Silver	ug/L	80	83.1	104	85-115	
Sodium	ug/L	1000	1020	102	85-115	
Thallium	ug/L	80	86.8	109	85-115	
Total Hardness by 2340B	ug/L	6620	6790	103	85-115	
Vanadium	ug/L	80	84.8	106	85-115	
Zinc	ug/L	80	84.8	106	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1290922 1290923

Parameter	Units	60128986001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	20.7	80	80	104	112	104	114	70-130	7	20	
Antimony	ug/L	ND	80	80	83.6	83.2	104	104	70-130	.4	20	
Arsenic	ug/L	ND	80	80	86.3	86.6	107	108	70-130	.3	20	
Barium	ug/L	77.8	80	80	159	160	102	103	70-130	.8	20	
Beryllium	ug/L	ND	80	80	83.8	85.2	105	106	70-130	2	20	
Cadmium	ug/L	ND	80	80	81.9	82.2	102	103	70-130	.4	20	
Calcium	ug/L	45700	1000	1000	46900	47100	112	138	70-130	.6	20	M1
Chromium	ug/L	0.54	80	80	83.0	83.6	103	104	70-130	.6	20	
Cobalt	ug/L	ND	80	80	78.4	79.1	98	99	70-130	.9	20	
Copper	ug/L	0.77	80	80	82.8	85.3	103	106	70-130	3	20	
Iron	ug/L	50.5	1000	1000	1070	1090	102	104	70-130	2	20	
Lead	ug/L	0.13	80	80	83.4	84.8	104	106	70-130	2	20	
Magnesium	ug/L	6210	1000	1000	7250	7240	104	103	70-130	.1	20	
Manganese	ug/L	11.8	80	80	94.0	93.8	103	103	70-130	.2	20	
Molybdenum	ug/L	1.0	80	80	83.2	83.8	103	103	70-130	.7	20	
Nickel	ug/L	ND	80	80	83.4	81.6	104	102	70-130	2	20	
Potassium	ug/L	731	1000	1000	1760	1770	103	104	70-130	.5	20	
Selenium	ug/L	ND	80	80	82.9	85.6	103	106	70-130	3	20	
Silica	ug/L	6410	2140	2140	8810	9070	112	125	70-130	3	20	
Silver	ug/L	ND	80	80	80.7	81.8	101	102	70-130	1	20	
Sodium	ug/L	2570	1000	1000	3520	3560	95	99	70-130	1	20	
Thallium	ug/L	ND	80	80	83.4	85.2	104	106	70-130	2	20	
Total Hardness by 2340B	ug/L	140000	6620	6620	147000	147000	107	116	70-130	.4	20	
Vanadium	ug/L	0.20	80	80	83.6	83.2	104	104	70-130	.4	20	
Zinc	ug/L	ND	80	80	84.2	86.0	102	105	70-130	2	20	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

MATRIX SPIKE SAMPLE: 1290924

Parameter	Units	60128986011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	ND	80	86.5	104	70-130	
Antimony	ug/L	ND	80	82.0	102	70-130	
Arsenic	ug/L	ND	80	78.4	98	70-130	
Barium	ug/L	ND	80	83.2	104	70-130	
Beryllium	ug/L	ND	80	82.0	103	70-130	
Cadmium	ug/L	ND	80	82.6	103	70-130	
Calcium	ug/L	ND	1000	1000	98	70-130	
Chromium	ug/L	ND	80	78.9	98	70-130	
Cobalt	ug/L	ND	80	77.2	97	70-130	
Copper	ug/L	ND	80	80.0	100	70-130	
Iron	ug/L	ND	1000	1030	102	70-130	
Lead	ug/L	ND	80	84.2	105	70-130	
Magnesium	ug/L	5.8	1000	1030	102	70-130	
Manganese	ug/L	ND	80	80.8	101	70-130	
Molybdenum	ug/L	ND	80	75.0	94	70-130	
Nickel	ug/L	ND	80	76.8	96	70-130	
Potassium	ug/L	ND	1000	1020	101	70-130	
Selenium	ug/L	ND	80	80.5	101	70-130	
Silica	ug/L	ND	2140	2300	106	70-130	
Silver	ug/L	ND	80	83.9	105	70-130	
Sodium	ug/L	278	1000	1230	96	70-130	
Thallium	ug/L	ND	80	84.4	105	70-130	
Total Hardness by 2340B	ug/L	ND	6620	6740	101	70-130	
Vanadium	ug/L	ND	80	80.8	101	70-130	
Zinc	ug/L	ND	80	82.8	98	70-130	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

QC Batch: ICPM/35240 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: 200.8 MET
Associated Lab Samples: 60128986020, 60128986021, 60128986022, 60128986024, 60128986025, 60128986027, 60128986029

METHOD BLANK: 1290934 Matrix: Water
Associated Lab Samples: 60128986020, 60128986021, 60128986022, 60128986024, 60128986025, 60128986027, 60128986029

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	4.0	10/05/12 22:20	
Antimony	ug/L	ND	0.50	10/05/12 22:20	
Arsenic	ug/L	ND	0.50	10/05/12 22:20	
Barium	ug/L	ND	0.30	10/05/12 22:20	
Beryllium	ug/L	ND	0.20	10/05/12 22:20	
Cadmium	ug/L	0.10	0.080	10/10/12 06:39	P8
Calcium	ug/L	ND	20.0	10/05/12 22:20	
Chromium	ug/L	ND	0.50	10/05/12 22:20	
Cobalt	ug/L	ND	0.50	10/05/12 22:20	
Copper	ug/L	ND	0.50	10/05/12 22:20	
Iron	ug/L	ND	50.0	10/05/12 22:20	
Lead	ug/L	ND	0.10	10/10/12 06:39	
Magnesium	ug/L	ND	5.0	10/10/12 06:39	
Manganese	ug/L	0.70	0.50	10/05/12 22:20	
Molybdenum	ug/L	ND	0.50	10/05/12 22:20	
Nickel	ug/L	ND	0.50	10/05/12 22:20	
Potassium	ug/L	ND	20.0	10/10/12 06:39	
Selenium	ug/L	ND	0.50	10/05/12 22:20	
Silica	ug/L	ND	53.5	10/05/12 22:20	
Silver	ug/L	ND	0.50	10/05/12 22:20	
Sodium	ug/L	ND	50.0	10/05/12 22:20	
Thallium	ug/L	ND	0.10	10/05/12 22:20	
Total Hardness by 2340B	ug/L	ND	71.0	10/10/12 06:39	
Vanadium	ug/L	ND	0.10	10/05/12 22:20	
Zinc	ug/L	ND	5.0	10/05/12 22:20	

LABORATORY CONTROL SAMPLE: 1290935

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	80	89.4	112	85-115	
Antimony	ug/L	80	77.5	97	85-115	
Arsenic	ug/L	80	82.3	103	85-115	
Barium	ug/L	80	78.6	98	85-115	
Beryllium	ug/L	80	80.5	101	85-115	
Cadmium	ug/L	80	81.2	102	85-115	
Calcium	ug/L	1000	1080	108	85-115	
Chromium	ug/L	80	80.9	101	85-115	
Cobalt	ug/L	80	84.6	106	85-115	
Copper	ug/L	80	84.5	106	85-115	
Iron	ug/L	1000	997	100	85-115	
Lead	ug/L	80	76.9	96	85-115	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

LABORATORY CONTROL SAMPLE: 1290935

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Magnesium	ug/L	1000	1050	105	85-115	
Manganese	ug/L	80	76.6	96	85-115	
Molybdenum	ug/L	80	82.7	103	85-115	
Nickel	ug/L	80	82.6	103	85-115	
Potassium	ug/L	1000	1030	103	85-115	
Selenium	ug/L	80	77.9	97	85-115	
Silica	ug/L	2140	2240	104	85-115	
Silver	ug/L	80	84.4	105	85-115	
Sodium	ug/L	1000	985	98	85-115	
Thallium	ug/L	80	82.6	103	85-115	
Total Hardness by 2340B	ug/L	6620	7020	106	85-115	
Vanadium	ug/L	80	79.2	99	85-115	
Zinc	ug/L	80	77.6	97	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1290936 1290937

Parameter	Units	60128986020 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	137	80	80	245	239	134	128	70-130	2	20	M1
Antimony	ug/L	ND	80	80	78.9	77.5	98	96	70-130	2	20	
Arsenic	ug/L	0.74	80	80	84.1	84.0	104	104	70-130	.1	20	
Barium	ug/L	17.9	80	80	97.9	94.7	100	96	70-130	3	20	
Beryllium	ug/L	ND	80	80	80.7	79.8	101	100	70-130	1	20	
Cadmium	ug/L	1.4	80	80	82.4	81.4	101	100	70-130	1	20	
Calcium	ug/L	124000	1000	1000	133000	130000	922	632	70-130	2	20	E,M1
Chromium	ug/L	3.1	80	80	82.3	82.0	99	99	70-130	.3	20	
Cobalt	ug/L	ND	80	80	83.6	82.8	104	103	70-130	1	20	
Copper	ug/L	5.0	80	80	86.8	86.2	102	102	70-130	.6	20	
Iron	ug/L	387	1000	1000	1340	1340	96	95	70-130	.7	20	
Lead	ug/L	6.6	80	80	82.2	81.4	94	94	70-130	.9	20	
Magnesium	ug/L	10900	1000	1000	11900	13200	108	233	70-130	10	20	M6
Manganese	ug/L	51.2	80	80	127	127	95	94	70-130	.4	20	
Molybdenum	ug/L	7.1	80	80	91.2	89.0	105	102	70-130	2	20	
Nickel	ug/L	0.86	80	80	81.9	81.0	101	100	70-130	1	20	
Potassium	ug/L	8250	1000	1000	9430	10500	118	223	70-130	11	20	M6
Selenium	ug/L	6.0	80	80	82.8	83.4	96	97	70-130	.8	20	
Silica	ug/L	10600	2140	2140	13500	13500	135	135	70-130	0	20	M1
Silver	ug/L	ND	80	80	80.0	79.1	100	99	70-130	1	20	
Sodium	ug/L	16600	1000	1000	17000	17200	42	62	70-130	1	20	M1
Thallium	ug/L	ND	80	80	79.8	78.8	100	98	70-130	1	20	
Total Hardness by 2340B	ug/L	355000	6620	6620	382000	380000	415	383	70-130	.5	20	M1
Vanadium	ug/L	0.82	80	80	78.7	78.2	97	97	70-130	.6	20	
Zinc	ug/L	2250	80	80	2320	2300	82	56	70-130	.9	20	E,M1

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

MATRIX SPIKE SAMPLE: 1290938

Parameter	Units	60128975001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	392	80	502	136	70-130	M1
Antimony	ug/L	ND	80	78.0	97	70-130	
Arsenic	ug/L	ND	80	82.6	102	70-130	
Barium	ug/L	68.2	80	148	100	70-130	
Beryllium	ug/L	ND	80	83.6	104	70-130	
Cadmium	ug/L	ND	80	80.2	100	70-130	
Calcium	ug/L	34500	1000	35500	106	70-130	
Chromium	ug/L	ND	80	80.8	99	70-130	
Cobalt	ug/L	ND	80	82.8	103	70-130	
Copper	ug/L	ND	80	82.0	101	70-130	
Iron	ug/L	300	1000	1270	97	70-130	
Lead	ug/L	0.39	80	78.2	97	70-130	
Magnesium	ug/L	5820	1000	7270	145	70-130	M6
Manganese	ug/L	15.2	80	93.5	98	70-130	
Molybdenum	ug/L	ND	80	81.0	100	70-130	
Nickel	ug/L	ND	80	80.4	99	70-130	
Potassium	ug/L	857	1000	1890	103	70-130	
Selenium	ug/L	ND	80	80.1	99	70-130	
Silica	ug/L	8010	2140	9620	75	70-130	
Silver	ug/L	ND	80	82.8	103	70-130	
Sodium	ug/L	2380	1000	3380	100	70-130	
Thallium	ug/L	ND	80	82.9	103	70-130	
Total Hardness by 2340B	ug/L	110000	6620	119000	131	70-130	M1
Vanadium	ug/L	1.1	80	79.8	98	70-130	
Zinc	ug/L	32.8	80	78.0	57	70-130	M1

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

QC Batch: ICPM/35604 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: 200.8 MET
Associated Lab Samples: 60128986002, 60128986009, 60128986010, 60128986012, 60128986019

METHOD BLANK: 1304792 Matrix: Water
Associated Lab Samples: 60128986002, 60128986009, 60128986010, 60128986012, 60128986019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	4.0	10/10/12 10:18	
Antimony	ug/L	ND	0.50	10/10/12 10:18	
Arsenic	ug/L	ND	0.50	10/10/12 10:18	
Barium	ug/L	ND	0.30	10/10/12 10:18	
Beryllium	ug/L	ND	0.20	10/10/12 10:18	
Cadmium	ug/L	ND	0.080	10/10/12 10:18	
Calcium	ug/L	ND	20.0	10/10/12 10:18	
Chromium	ug/L	ND	0.50	10/10/12 10:18	
Cobalt	ug/L	ND	0.50	10/10/12 10:18	
Copper	ug/L	ND	0.50	10/10/12 10:18	
Iron	ug/L	ND	50.0	10/10/12 10:18	
Lead	ug/L	ND	0.10	10/10/12 10:18	
Magnesium	ug/L	ND	5.0	10/10/12 10:18	
Manganese	ug/L	ND	0.50	10/10/12 10:18	
Molybdenum	ug/L	ND	0.50	10/10/12 10:18	
Nickel	ug/L	ND	0.50	10/10/12 10:18	
Potassium	ug/L	ND	20.0	10/10/12 10:18	
Selenium	ug/L	ND	0.50	10/10/12 10:18	
Silica	ug/L	ND	53.5	10/10/12 10:18	
Silver	ug/L	ND	0.50	10/10/12 10:18	
Sodium	ug/L	ND	50.0	10/10/12 10:18	
Thallium	ug/L	ND	0.10	10/10/12 10:18	
Total Hardness by 2340B	ug/L	ND	71.0	10/10/12 10:18	
Vanadium	ug/L	ND	0.10	10/10/12 10:18	
Zinc	ug/L	ND	5.0	10/10/12 10:18	

LABORATORY CONTROL SAMPLE: 1304793

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	80	86.2	108	85-115	
Antimony	ug/L	80	83.2	104	85-115	
Arsenic	ug/L	80	82.1	103	85-115	
Barium	ug/L	80	82.4	103	85-115	
Beryllium	ug/L	80	83.0	104	85-115	
Cadmium	ug/L	80	82.8	104	85-115	
Calcium	ug/L	1000	1070	107	85-115	
Chromium	ug/L	80	83.3	104	85-115	
Cobalt	ug/L	80	81.9	102	85-115	
Copper	ug/L	80	85.5	107	85-115	
Iron	ug/L	1000	1050	105	85-115	
Lead	ug/L	80	85.5	107	85-115	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

LABORATORY CONTROL SAMPLE: 1304793

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Magnesium	ug/L	1000	1060	106	85-115	
Manganese	ug/L	80	83.1	104	85-115	
Molybdenum	ug/L	80	79.5	99	85-115	
Nickel	ug/L	80	79.3	99	85-115	
Potassium	ug/L	1000	1010	101	85-115	
Selenium	ug/L	80	85.0	106	85-115	
Silica	ug/L	2140	2160	101	85-115	
Silver	ug/L	80	79.7	100	85-115	
Sodium	ug/L	1000	993	99	85-115	
Thallium	ug/L	80	84.3	105	85-115	
Total Hardness by 2340B	ug/L	6620	7040	106	85-115	
Vanadium	ug/L	80	82.9	104	85-115	
Zinc	ug/L	80	81.4	102	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1304794 1304795

Parameter	Units	60128986002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	76.2	80	80	190	180	143	130	70-130	6	20	M6
Antimony	ug/L	ND	80	80	81.5	78.2	102	97	70-130	4	20	
Arsenic	ug/L	ND	80	80	82.8	81.3	103	101	70-130	2	20	
Barium	ug/L	69.0	80	80	147	143	98	92	70-130	3	20	
Beryllium	ug/L	ND	80	80	87.5	76.5	109	96	70-130	13	20	
Cadmium	ug/L	ND	80	80	77.8	79.4	97	99	70-130	2	20	
Calcium	ug/L	54200	1000	1000	54600	54900	40	71	70-130	.6	20	M6
Chromium	ug/L	ND	80	80	81.3	78.8	101	98	70-130	3	20	
Cobalt	ug/L	ND	80	80	81.6	79.1	102	99	70-130	3	20	
Copper	ug/L	2.6	80	80	83.2	85.7	101	104	70-130	3	20	
Iron	ug/L	168	1000	1000	1160	1130	99	96	70-130	3	20	
Lead	ug/L	0.22	80	80	82.5	82.0	103	102	70-130	.6	20	
Magnesium	ug/L	7350	1000	1000	8300	8200	95	85	70-130	1	20	
Manganese	ug/L	136	80	80	216	214	99	97	70-130	.8	20	
Molybdenum	ug/L	1.2	80	80	79.7	80.0	98	98	70-130	.4	20	
Nickel	ug/L	ND	80	80	78.2	77.2	97	96	70-130	1	20	
Potassium	ug/L	829	1000	1000	1810	1780	98	96	70-130	1	20	
Selenium	ug/L	ND	80	80	82.8	81.0	103	101	70-130	2	20	
Silica	ug/L	7120	2140	2140	9240	9120	99	94	70-130	1	20	
Silver	ug/L	ND	80	80	73.6	73.9	92	92	70-130	.3	20	
Sodium	ug/L	2880	1000	1000	3780	3740	90	86	70-130	1	20	
Thallium	ug/L	ND	80	80	81.7	80.8	102	101	70-130	1	20	
Total Hardness by 2340B	ug/L	165000	6620	6620	170000	171000	74	80	70-130	.2	20	
Vanadium	ug/L	0.29	80	80	82.3	79.9	103	100	70-130	3	20	
Zinc	ug/L	50.9	80	80	84.2	80.1	42	36	70-130	5	20	M6

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

QC Batch: ICPM/35654 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: 200.8 MET
Associated Lab Samples: 60128986023, 60128986026, 60128986028

METHOD BLANK: 1306967 Matrix: Water
Associated Lab Samples: 60128986023, 60128986026, 60128986028

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	4.0	10/12/12 10:52	
Antimony	ug/L	ND	0.50	10/12/12 10:52	
Arsenic	ug/L	ND	0.50	10/12/12 10:52	
Barium	ug/L	ND	0.30	10/12/12 10:52	
Beryllium	ug/L	ND	0.20	10/12/12 10:52	
Cadmium	ug/L	ND	0.080	10/12/12 10:52	
Calcium	ug/L	ND	20.0	10/12/12 10:52	
Chromium	ug/L	ND	0.50	10/12/12 10:52	
Cobalt	ug/L	ND	0.50	10/12/12 10:52	
Copper	ug/L	ND	0.50	10/12/12 10:52	
Iron	ug/L	ND	50.0	10/12/12 10:52	
Lead	ug/L	ND	0.10	10/12/12 10:52	
Magnesium	ug/L	ND	5.0	10/12/12 10:52	
Manganese	ug/L	ND	0.50	10/12/12 10:52	
Molybdenum	ug/L	ND	0.50	10/12/12 10:52	
Nickel	ug/L	ND	0.50	10/12/12 10:52	
Potassium	ug/L	ND	20.0	10/12/12 10:52	
Selenium	ug/L	ND	0.50	10/12/12 10:52	
Silica	ug/L	ND	53.5	10/12/12 10:52	
Silver	ug/L	ND	0.50	10/12/12 10:52	
Sodium	ug/L	ND	50.0	10/12/12 10:52	
Thallium	ug/L	ND	0.10	10/12/12 10:52	
Total Hardness by 2340B	ug/L	ND	71.0	10/12/12 10:52	
Vanadium	ug/L	ND	0.10	10/12/12 10:52	
Zinc	ug/L	ND	5.0	10/12/12 10:52	

LABORATORY CONTROL SAMPLE: 1306968

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	80	79.3	99	85-115	
Antimony	ug/L	80	81.6	102	85-115	
Arsenic	ug/L	80	83.7	105	85-115	
Barium	ug/L	80	80.0	100	85-115	
Beryllium	ug/L	80	86.0	107	85-115	
Cadmium	ug/L	80	83.3	104	85-115	
Calcium	ug/L	1000	1080	108	85-115	
Chromium	ug/L	80	80.5	101	85-115	
Cobalt	ug/L	80	79.4	99	85-115	
Copper	ug/L	80	81.7	102	85-115	
Iron	ug/L	1000	1020	102	85-115	
Lead	ug/L	80	81.5	102	85-115	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

LABORATORY CONTROL SAMPLE: 1306968

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Magnesium	ug/L	1000	1030	103	85-115	
Manganese	ug/L	80	81.1	101	85-115	
Molybdenum	ug/L	80	77.0	96	85-115	
Nickel	ug/L	80	84.6	106	85-115	
Potassium	ug/L	1000	999	100	85-115	
Selenium	ug/L	80	90.0	112	85-115	
Silica	ug/L	2140	2190	102	85-115	
Silver	ug/L	80	80.8	101	85-115	
Sodium	ug/L	1000	994	99	85-115	
Thallium	ug/L	80	80.4	100	85-115	
Total Hardness by 2340B	ug/L	6620	6950	105	85-115	
Vanadium	ug/L	80	81.2	102	85-115	
Zinc	ug/L	80	85.4	107	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1306969 1306970

Parameter	Units	60128986023 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	109	80	80	214	210	132	126	70-130	2	20	M6
Antimony	ug/L	ND	80	80	79.5	78.0	99	97	70-130	2	20	
Arsenic	ug/L	0.56	80	80	84.6	85.2	105	106	70-130	.7	20	
Barium	ug/L	19.7	80	80	100	97.2	101	97	70-130	3	20	
Beryllium	ug/L	ND	80	80	75.4	82.7	94	103	70-130	9	20	
Cadmium	ug/L	0.22	80	80	80.5	78.5	100	98	70-130	2	20	
Calcium	ug/L	269000	1000	1000	251000	242000	-1780	-2640	70-130	4	20	E,M6
Chromium	ug/L	ND	80	80	83.0	81.2	103	101	70-130	2	20	
Cobalt	ug/L	0.85	80	80	84.1	81.0	104	100	70-130	4	20	
Copper	ug/L	1.6	80	80	85.1	84.6	104	104	70-130	.6	20	
Iron	ug/L	1120	1000	1000	2160	2130	104	101	70-130	2	20	
Lead	ug/L	2.8	80	80	81.8	80.5	99	97	70-130	2	20	
Magnesium	ug/L	23800	1000	1000	25500	24600	168	82	70-130	3	20	M6
Manganese	ug/L	1260	80	80	1380	1320	139	68	70-130	4	20	M6
Molybdenum	ug/L	12.1	80	80	99.3	91.3	109	99	70-130	8	20	
Nickel	ug/L	ND	80	80	88.5	87.6	111	109	70-130	1	20	
Potassium	ug/L	2190	1000	1000	3220	3120	103	93	70-130	3	20	
Selenium	ug/L	ND	80	80	85.0	83.0	106	104	70-130	2	20	
Silica	ug/L	11700	2140	2140	15000	14300	155	120	70-130	5	20	M1
Silver	ug/L	ND	80	80	80.8	78.3	101	98	70-130	3	20	
Sodium	ug/L	11600	1000	1000	12700	12300	115	77	70-130	3	20	
Thallium	ug/L	ND	80	80	78.5	77.7	98	97	70-130	.9	20	
Total Hardness by 2340B	ug/L	769000	6620	6620	732000	706000	-566	-948	70-130	4	20	M1
Vanadium	ug/L	0.26	80	80	83.5	80.8	104	101	70-130	3	20	
Zinc	ug/L	74.2	80	80	140	139	82	81	70-130	.7	20	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

QC Batch: ICPM/35243 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: 200.8 MET Dissolved
Associated Lab Samples: 60128986001, 60128986002, 60128986003, 60128986004, 60128986005, 60128986006, 60128986007, 60128986008, 60128986009, 60128986010, 60128986011, 60128986012, 60128986013, 60128986014, 60128986015, 60128986016, 60128986017, 60128986018

METHOD BLANK: 1290948 Matrix: Water
Associated Lab Samples: 60128986001, 60128986002, 60128986003, 60128986004, 60128986005, 60128986006, 60128986007, 60128986008, 60128986009, 60128986010, 60128986011, 60128986012, 60128986013, 60128986014, 60128986015, 60128986016, 60128986017, 60128986018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	4.0	10/03/12 14:00	
Antimony, Dissolved	ug/L	ND	0.50	09/28/12 02:38	
Arsenic, Dissolved	ug/L	ND	0.50	09/28/12 02:38	
Barium, Dissolved	ug/L	ND	0.30	09/28/12 02:38	
Beryllium, Dissolved	ug/L	ND	0.20	09/28/12 02:38	
Cadmium, Dissolved	ug/L	ND	0.080	09/28/12 02:38	
Calcium, Dissolved	ug/L	ND	20.0	09/28/12 02:38	
Chromium, Dissolved	ug/L	ND	0.50	09/28/12 02:38	
Cobalt, Dissolved	ug/L	ND	0.50	09/28/12 02:38	
Copper, Dissolved	ug/L	ND	0.50	10/02/12 03:55	
Iron, Dissolved	ug/L	ND	50.0	09/28/12 02:38	
Lead, Dissolved	ug/L	ND	0.10	09/28/12 02:38	
Magnesium, Dissolved	ug/L	ND	5.0	09/28/12 02:38	
Manganese, Dissolved	ug/L	ND	0.50	09/28/12 02:38	
Molybdenum, Dissolved	ug/L	ND	0.50	09/28/12 02:38	
Nickel, Dissolved	ug/L	ND	0.50	09/28/12 02:38	
Potassium, Dissolved	ug/L	ND	20.0	09/28/12 02:38	
Selenium, Dissolved	ug/L	ND	0.50	09/28/12 02:38	
Silver, Dissolved	ug/L	ND	0.50	09/28/12 02:38	
Sodium, Dissolved	ug/L	ND	50.0	09/28/12 02:38	
Thallium, Dissolved	ug/L	ND	0.10	09/28/12 02:38	
Vanadium, Dissolved	ug/L	ND	0.10	09/28/12 02:38	
Zinc, Dissolved	ug/L	ND	5.0	09/28/12 02:38	

LABORATORY CONTROL SAMPLE: 1290949

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	80	88.8	111	85-115	
Antimony, Dissolved	ug/L	80	82.2	103	85-115	
Arsenic, Dissolved	ug/L	80	82.6	103	85-115	
Barium, Dissolved	ug/L	80	81.6	102	85-115	
Beryllium, Dissolved	ug/L	80	83.5	104	85-115	
Cadmium, Dissolved	ug/L	80	82.8	103	85-115	
Calcium, Dissolved	ug/L	1000	1110	111	85-115	
Chromium, Dissolved	ug/L	80	82.9	104	85-115	
Cobalt, Dissolved	ug/L	80	81.6	102	85-115	
Copper, Dissolved	ug/L	80	87.5	109	85-115	
Iron, Dissolved	ug/L	1000	1030	103	85-115	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

LABORATORY CONTROL SAMPLE: 1290949

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead, Dissolved	ug/L	80	81.9	102	85-115	
Magnesium, Dissolved	ug/L	1000	1020	102	85-115	
Manganese, Dissolved	ug/L	80	83.2	104	85-115	
Molybdenum, Dissolved	ug/L	80	84.0	105	85-115	
Nickel, Dissolved	ug/L	80	85.0	106	85-115	
Potassium, Dissolved	ug/L	1000	1070	107	85-115	
Selenium, Dissolved	ug/L	80	79.6	99	85-115	
Silver, Dissolved	ug/L	80	84.5	106	85-115	
Sodium, Dissolved	ug/L	1000	1050	105	85-115	
Thallium, Dissolved	ug/L	80	82.9	104	85-115	
Vanadium, Dissolved	ug/L	80	82.2	103	85-115	
Zinc, Dissolved	ug/L	80	84.0	105	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1290950 1290951

Parameter	Units	60128986001 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	6.8	80	80	92.7	96.8	107	112	70-130	4	20	
Antimony, Dissolved	ug/L	ND	80	80	80.8	79.2	101	99	70-130	2	20	
Arsenic, Dissolved	ug/L	ND	80	80	84.0	82.2	105	102	70-130	2	20	
Barium, Dissolved	ug/L	80.0	80	80	156	154	95	92	70-130	2	20	
Beryllium, Dissolved	ug/L	ND	80	80	83.3	80.6	104	101	70-130	3	20	
Cadmium, Dissolved	ug/L	ND	80	80	81.1	80.6	101	101	70-130	.7	20	
Calcium, Dissolved	ug/L	46600	1000	1000	47200	45900	54	-71	70-130	3	20	M1
Chromium, Dissolved	ug/L	1.2	80	80	83.7	81.5	103	100	70-130	3	20	
Cobalt, Dissolved	ug/L	ND	80	80	81.7	79.2	102	99	70-130	3	20	
Copper, Dissolved	ug/L	ND	80	80	87.2	83.6	108	104	70-130	4	20	
Iron, Dissolved	ug/L	ND	1000	1000	1040	1000	102	98	70-130	4	20	
Lead, Dissolved	ug/L	ND	80	80	80.0	78.0	100	98	70-130	2	20	
Magnesium, Dissolved	ug/L	6680	1000	1000	7700	7420	102	74	70-130	4	20	
Manganese, Dissolved	ug/L	8.9	80	80	90.7	86.9	102	97	70-130	4	20	
Molybdenum, Dissolved	ug/L	1.1	80	80	83.4	82.7	103	102	70-130	.8	20	
Nickel, Dissolved	ug/L	ND	80	80	86.4	83.2	107	103	70-130	4	20	
Potassium, Dissolved	ug/L	763	1000	1000	1780	1750	102	99	70-130	2	20	
Selenium, Dissolved	ug/L	ND	80	80	81.0	78.9	101	98	70-130	3	20	
Silver, Dissolved	ug/L	ND	80	80	82.6	80.9	103	101	70-130	2	20	
Sodium, Dissolved	ug/L	2820	1000	1000	3790	3720	97	89	70-130	2	20	
Thallium, Dissolved	ug/L	ND	80	80	80.6	79.2	101	99	70-130	2	20	
Vanadium, Dissolved	ug/L	0.12	80	80	81.8	79.2	102	99	70-130	3	20	
Zinc, Dissolved	ug/L	ND	80	80	84.2	82.2	103	101	70-130	2	20	

MATRIX SPIKE SAMPLE: 1290952

Parameter	Units	60128986011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	ND	80	99.3	120	70-130	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

MATRIX SPIKE SAMPLE: 1290952

Parameter	Units	60128986011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony, Dissolved	ug/L	ND	80	77.4	97	70-130	
Arsenic, Dissolved	ug/L	ND	80	78.0	97	70-130	
Barium, Dissolved	ug/L	ND	80	77.6	97	70-130	
Beryllium, Dissolved	ug/L	ND	80	80.7	101	70-130	
Cadmium, Dissolved	ug/L	ND	80	79.5	99	70-130	
Calcium, Dissolved	ug/L	34.0	1000	1160	112	70-130	
Chromium, Dissolved	ug/L	ND	80	78.2	97	70-130	
Cobalt, Dissolved	ug/L	ND	80	76.8	96	70-130	
Copper, Dissolved	ug/L	0.70	80	160	199	70-130	M1
Iron, Dissolved	ug/L	ND	1000	1850	183	70-130	M1
Lead, Dissolved	ug/L	ND	80	78.7	98	70-130	
Magnesium, Dissolved	ug/L	9.1	1000	5580	557	70-130	M1
Manganese, Dissolved	ug/L	0.68	80	92.4	115	70-130	
Molybdenum, Dissolved	ug/L	ND	80	77.8	97	70-130	
Nickel, Dissolved	ug/L	0.82	80	80.8	100	70-130	
Potassium, Dissolved	ug/L	26.6	1000	1020	100	70-130	
Selenium, Dissolved	ug/L	ND	80	76.6	96	70-130	
Silver, Dissolved	ug/L	ND	80	78.0	98	70-130	
Sodium, Dissolved	ug/L	357	1000	1330	97	70-130	
Thallium, Dissolved	ug/L	ND	80	78.7	98	70-130	
Vanadium, Dissolved	ug/L	ND	80	77.0	96	70-130	
Zinc, Dissolved	ug/L	ND	80	93.1	114	70-130	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

QC Batch: ICPM/35244 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: 200.8 MET Dissolved
Associated Lab Samples: 60128986019, 60128986020, 60128986021, 60128986022, 60128986023, 60128986024, 60128986025, 60128986026, 60128986027, 60128986028, 60128986029

METHOD BLANK: 1290954 Matrix: Water
Associated Lab Samples: 60128986019, 60128986020, 60128986021, 60128986022, 60128986023, 60128986024, 60128986025, 60128986026, 60128986027, 60128986028, 60128986029

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	4.0	10/07/12 00:39	
Antimony, Dissolved	ug/L	ND	0.50	10/07/12 00:39	
Arsenic, Dissolved	ug/L	ND	0.50	10/07/12 00:39	
Barium, Dissolved	ug/L	ND	0.30	10/07/12 00:39	
Beryllium, Dissolved	ug/L	ND	0.20	10/07/12 00:39	
Cadmium, Dissolved	ug/L	ND	0.080	10/07/12 00:39	
Calcium, Dissolved	ug/L	ND	20.0	10/07/12 00:39	
Chromium, Dissolved	ug/L	ND	0.50	10/07/12 00:39	
Cobalt, Dissolved	ug/L	ND	0.50	10/07/12 00:39	
Copper, Dissolved	ug/L	ND	0.50	10/07/12 00:39	
Iron, Dissolved	ug/L	ND	50.0	10/07/12 00:39	
Lead, Dissolved	ug/L	ND	0.10	10/07/12 00:39	
Magnesium, Dissolved	ug/L	ND	5.0	10/07/12 00:39	
Manganese, Dissolved	ug/L	ND	0.50	10/07/12 00:39	
Molybdenum, Dissolved	ug/L	ND	0.50	10/07/12 00:39	
Nickel, Dissolved	ug/L	ND	0.50	10/07/12 00:39	
Potassium, Dissolved	ug/L	ND	20.0	10/07/12 00:39	
Selenium, Dissolved	ug/L	ND	0.50	10/07/12 00:39	
Silver, Dissolved	ug/L	ND	0.50	10/07/12 00:39	
Sodium, Dissolved	ug/L	ND	50.0	10/07/12 00:39	
Thallium, Dissolved	ug/L	ND	0.10	10/07/12 00:39	
Vanadium, Dissolved	ug/L	ND	0.10	10/07/12 00:39	
Zinc, Dissolved	ug/L	ND	5.0	10/07/12 00:39	

LABORATORY CONTROL SAMPLE: 1290955

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	80	85.8	107	85-115	
Antimony, Dissolved	ug/L	80	78.4	98	85-115	
Arsenic, Dissolved	ug/L	80	81.2	101	85-115	
Barium, Dissolved	ug/L	80	76.4	96	85-115	
Beryllium, Dissolved	ug/L	80	88.0	110	85-115	
Cadmium, Dissolved	ug/L	80	81.1	101	85-115	
Calcium, Dissolved	ug/L	1000	973	97	85-115	
Chromium, Dissolved	ug/L	80	80.5	101	85-115	
Cobalt, Dissolved	ug/L	80	78.4	98	85-115	
Copper, Dissolved	ug/L	80	84.2	105	85-115	
Iron, Dissolved	ug/L	1000	1000	100	85-115	
Lead, Dissolved	ug/L	80	80.7	101	85-115	
Magnesium, Dissolved	ug/L	1000	1020	102	85-115	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

LABORATORY CONTROL SAMPLE: 1290955

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese, Dissolved	ug/L	80	80.1	100	85-115	
Molybdenum, Dissolved	ug/L	80	75.7	95	85-115	
Nickel, Dissolved	ug/L	80	83.0	104	85-115	
Potassium, Dissolved	ug/L	1000	1000	100	85-115	
Selenium, Dissolved	ug/L	80	81.8	102	85-115	
Silver, Dissolved	ug/L	80	83.9	105	85-115	
Sodium, Dissolved	ug/L	1000	1020	102	85-115	
Thallium, Dissolved	ug/L	80	81.5	102	85-115	
Vanadium, Dissolved	ug/L	80	78.6	98	85-115	
Zinc, Dissolved	ug/L	80	82.8	104	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1290956 1290957

Parameter	Units	60128986019 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	17100	80	80	17500	17500	550	588	70-130	.2	20	M6
Antimony, Dissolved	ug/L	ND	80	80	78.4	79.0	98	99	70-130	.7	20	
Arsenic, Dissolved	ug/L	159	80	80	240	242	101	103	70-130	.7	20	
Barium, Dissolved	ug/L	9.3	80	80	86.9	86.5	97	96	70-130	.4	20	
Beryllium, Dissolved	ug/L	ND	80	80	90.1	88.5	112	110	70-130	2	20	
Cadmium, Dissolved	ug/L	0.66	80	80	80.4	80.7	100	100	70-130	.4	20	
Calcium, Dissolved	ug/L	398000	1000	1000	388000	388000	-935	-935	70-130	0	20	M6
Chromium, Dissolved	ug/L	ND	80	80	77.8	79.3	97	99	70-130	2	20	
Cobalt, Dissolved	ug/L	84.4	80	80	162	164	97	100	70-130	1	20	
Copper, Dissolved	ug/L	ND	80	80	81.4	81.9	100	101	70-130	.6	20	
Iron, Dissolved	ug/L	630000	1000	1000	652000	654000	2210	2350	70-130	.2	20	E,M6
Lead, Dissolved	ug/L	ND	80	80	75.9	77.2	94	96	70-130	2	20	
Magnesium, Dissolved	ug/L	156000	1000	1000	151000	151000	-540	-480	70-130	.4	20	M6
Manganese, Dissolved	ug/L	33300	80	80	33500	33800	275	538	70-130	.6	20	E,M6
Molybdenum, Dissolved	ug/L	3.6	80	80	79.6	79.4	95	95	70-130	.3	20	
Nickel, Dissolved	ug/L	125	80	80	211	215	107	113	70-130	2	20	
Potassium, Dissolved	ug/L	14600	1000	1000	15600	15700	102	110	70-130	.5	20	
Selenium, Dissolved	ug/L	ND	80	80	83.7	83.0	102	101	70-130	.8	20	
Silver, Dissolved	ug/L	ND	80	80	78.1	78.8	97	98	70-130	.9	20	
Sodium, Dissolved	ug/L	7050	1000	1000	8150	8190	110	114	70-130	.5	20	
Thallium, Dissolved	ug/L	ND	80	80	76.1	76.5	95	95	70-130	.5	20	
Vanadium, Dissolved	ug/L	ND	80	80	78.4	76.8	98	96	70-130	2	20	
Zinc, Dissolved	ug/L	61500	80	80	61400	62600	-62	1340	70-130	2	20	E,M6

MATRIX SPIKE SAMPLE: 1290958

Parameter	Units	60128986029 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	914	80	1060	185	70-130	M6
Antimony, Dissolved	ug/L	ND	80	80.4	100	70-130	
Arsenic, Dissolved	ug/L	43.9	80	127	104	70-130	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

MATRIX SPIKE SAMPLE: 1290958

Parameter	Units	60128986029 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Barium, Dissolved	ug/L	16.3	80	94.2	97	70-130	
Beryllium, Dissolved	ug/L	ND	80	89.8	112	70-130	
Cadmium, Dissolved	ug/L	0.17	80	79.8	100	70-130	
Calcium, Dissolved	ug/L	375000	1000	371000	-450	70-130	E,M6
Chromium, Dissolved	ug/L	0.52	80	81.7	102	70-130	
Cobalt, Dissolved	ug/L	3.7	80	86.0	103	70-130	
Copper, Dissolved	ug/L	1.3	80	85.2	105	70-130	
Iron, Dissolved	ug/L	51200	1000	51400	15	70-130	M6
Lead, Dissolved	ug/L	1.4	80	79.7	98	70-130	
Magnesium, Dissolved	ug/L	53500	1000	53600	7	70-130	M6
Manganese, Dissolved	ug/L	7070	80	7070	-8	70-130	E,M6
Molybdenum, Dissolved	ug/L	4.9	80	85.8	101	70-130	
Nickel, Dissolved	ug/L	5.0	80	86.5	102	70-130	
Potassium, Dissolved	ug/L	11600	1000	12000	39	70-130	M6
Selenium, Dissolved	ug/L	ND	80	84.7	106	70-130	
Silver, Dissolved	ug/L	ND	80	79.6	100	70-130	
Sodium, Dissolved	ug/L	3740	1000	4760	102	70-130	
Thallium, Dissolved	ug/L	ND	80	79.2	99	70-130	
Vanadium, Dissolved	ug/L	0.20	80	81.5	102	70-130	
Zinc, Dissolved	ug/L	678	80	751	92	70-130	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

QC Batch: MERC/7537 Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury
Associated Lab Samples: 60128986001, 60128986002, 60128986003, 60128986004, 60128986005, 60128986006, 60128986007, 60128986008, 60128986009, 60128986010, 60128986011, 60128986012, 60128986013, 60128986014, 60128986015, 60128986016, 60128986017, 60128986018, 60128986019, 60128986020

METHOD BLANK: 1291880 Matrix: Water
Associated Lab Samples: 60128986001, 60128986002, 60128986003, 60128986004, 60128986005, 60128986006, 60128986007, 60128986008, 60128986009, 60128986010, 60128986011, 60128986012, 60128986013, 60128986014, 60128986015, 60128986016, 60128986017, 60128986018, 60128986019, 60128986020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	10/02/12 12:40	

LABORATORY CONTROL SAMPLE: 1291881

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.0	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1291882 1291883

Parameter	Units	60128986001 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	4.8	4.9	95	98	85-115	2	30	

MATRIX SPIKE SAMPLE: 1291884

Parameter	Units	60128986020 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	5	5.0	99	85-115	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

QC Batch: MERC/7538 Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury
Associated Lab Samples: 60128986021, 60128986022, 60128986023, 60128986024, 60128986025, 60128986026, 60128986027, 60128986028, 60128986029

METHOD BLANK: 1291890 Matrix: Water
Associated Lab Samples: 60128986021, 60128986022, 60128986023, 60128986024, 60128986025, 60128986026, 60128986027, 60128986028, 60128986029

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	10/02/12 13:27	

LABORATORY CONTROL SAMPLE: 1291891

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: 1291892 1291893

Parameter	Units	60128986021 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	4.7	4.7	94	94	85-115	.6	30	

MATRIX SPIKE SAMPLE: 1291894

Parameter	Units	60128975011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	5	4.9	98	85-115	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

QC Batch: MERC/7533 — Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 — Analysis Description: 245.1 Mercury - Dissolved
Associated Lab Samples: 60128986001, 60128986002, 60128986003, 60128986004, 60128986005, 60128986006, 60128986007, 60128986008, 60128986009, 60128986010, 60128986011, 60128986012, 60128986013, 60128986014, 60128986015, 60128986016, 60128986017, 60128986018, 60128986019, 60128986020

METHOD BLANK: 1291855 — Matrix: Water
Associated Lab Samples: 60128986001, 60128986002, 60128986003, 60128986004, 60128986005, 60128986006, 60128986007, 60128986008, 60128986009, 60128986010, 60128986011, 60128986012, 60128986013, 60128986014, 60128986015, 60128986016, 60128986017, 60128986018, 60128986019, 60128986020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	10/04/12 12:14	

LABORATORY CONTROL SAMPLE: 1291856

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.1	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1291857 — 1291858

Parameter	Units	60128986001 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	5.7	98	113	85-115	14	20	

MATRIX SPIKE SAMPLE: 1291859

Parameter	Units	60128986020 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	ND	5	5.9	119	85-115	M1

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

QC Batch: MERC/7534 Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury - Dissolved
Associated Lab Samples: 60128986021, 60128986022, 60128986023, 60128986024, 60128986025, 60128986026, 60128986027, 60128986028, 60128986029

METHOD BLANK: 1291865 Matrix: Water
Associated Lab Samples: 60128986021, 60128986022, 60128986023, 60128986024, 60128986025, 60128986026, 60128986027, 60128986028, 60128986029

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	10/03/12 13:37	

LABORATORY CONTROL SAMPLE: 1291866

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.0	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1291867 1291868

Parameter	Units	60128986021 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	5.4	5.1	107	102	85-115	5	20	

MATRIX SPIKE SAMPLE: 1291869

Parameter	Units	60128975011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	ND	5	5.3	105	85-115	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

QC Batch: MERP/6641 | Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 | Analysis Description: 245.1 Mercury, Potentially Dissolved
Associated Lab Samples: 60128986001, 60128986002, 60128986003, 60128986004, 60128986005, 60128986006, 60128986007, 60128986008, 60128986009, 60128986010, 60128986011, 60128986012, 60128986013, 60128986014, 60128986015

METHOD BLANK: 1064749 | Matrix: Water
Associated Lab Samples: 60128986001, 60128986002, 60128986003, 60128986004, 60128986005, 60128986006, 60128986007, 60128986008, 60128986009, 60128986010, 60128986011, 60128986012, 60128986013, 60128986014, 60128986015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	09/24/12 11:05	

LABORATORY CONTROL SAMPLE: 1064750

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.1	103	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1064751 1064752

Parameter	Units	60128986001 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	5.0	98	101	70-130	3	20	

MATRIX SPIKE SAMPLE: 1064766

Parameter	Units	60128986013 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	ND	5	4.7	94	70-130	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

QC Batch: MERP/6642 — Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 — Analysis Description: 245.1 Mercury, Potentially Dissolved
Associated Lab Samples: 60128986016, 60128986017, 60128986018, 60128986019, 60128986020, 60128986021, 60128986022, 60128986023, 60128986024, 60128986025, 60128986026, 60128986027, 60128986028, 60128986029

METHOD BLANK: 1064760 — Matrix: Water
Associated Lab Samples: 60128986016, 60128986017, 60128986018, 60128986019, 60128986020, 60128986021, 60128986022, 60128986023, 60128986024, 60128986025, 60128986026, 60128986027, 60128986028, 60128986029

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	09/24/12 12:19	

LABORATORY CONTROL SAMPLE: 1064761

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.8	96	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1064762 — 1064763

Parameter	Units	60128986016 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	4.9	98	98	70-130	0	20	

MATRIX SPIKE SAMPLE: 1064764

Parameter	Units	60128986017 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	ND	5	4.8	95	70-130	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

QC Batch: MPRP/19594 | Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 | Analysis Description: 200.7 Potentially Dissolved Metals

Associated Lab Samples: 60128986001, 60128986002, 60128986003, 60128986004, 60128986005, 60128986006, 60128986007, 60128986008, 60128986009, 60128986010, 60128986011, 60128986012, 60128986013, 60128986014, 60128986015, 60128986016, 60128986017, 60128986018, 60128986019, 60128986020

METHOD BLANK: 1064771 | Matrix: Water

Associated Lab Samples: 60128986001, 60128986002, 60128986003, 60128986004, 60128986005, 60128986006, 60128986007, 60128986008, 60128986009, 60128986010, 60128986011, 60128986012, 60128986013, 60128986014, 60128986015, 60128986016, 60128986017, 60128986018, 60128986019, 60128986020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Calcium, Dissolved	ug/L	49.4J	100	09/25/12 13:31	
Magnesium, Dissolved	ug/L	ND	50.0	09/25/12 13:31	
Potassium, Dissolved	ug/L	ND	500	09/25/12 13:31	
Sodium, Dissolved	ug/L	ND	500	09/25/12 13:31	

LABORATORY CONTROL SAMPLE: 1064772

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium, Dissolved	ug/L	10000	9680	97	85-115	
Magnesium, Dissolved	ug/L	10000	9940	99	85-115	
Potassium, Dissolved	ug/L	10000	8750	87	85-115	
Sodium, Dissolved	ug/L	10000	9470	95	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1064773 1064774

Parameter	Units	60128986004 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	224000	10000	10000	231000	235000	68	113	70-130	2	20	M1
Magnesium, Dissolved	ug/L	19600	10000	10000	29000	29200	95	97	70-130	1	20	
Potassium, Dissolved	ug/L	1570	10000	10000	9280	8920	77	74	70-130	4	20	
Sodium, Dissolved	ug/L	8990	10000	10000	18000	18200	90	92	70-130	1	20	

MATRIX SPIKE SAMPLE: 1064775

Parameter	Units	60128986014 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Calcium, Dissolved	ug/L	156000	10000	164000	83	70-130	
Magnesium, Dissolved	ug/L	20500	10000	30200	98	70-130	
Potassium, Dissolved	ug/L	2320	10000	9780	75	70-130	
Sodium, Dissolved	ug/L	3770	10000	12900	91	70-130	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

QC Batch: MPRP/19595 | Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 | Analysis Description: 200.7 Potentially Dissolved Metals
Associated Lab Samples: 60128986021, 60128986022, 60128986023, 60128986024, 60128986025, 60128986026, 60128986027, 60128986028, 60128986029

METHOD BLANK: 1064778 | Matrix: Water
Associated Lab Samples: 60128986021, 60128986022, 60128986023, 60128986024, 60128986025, 60128986026, 60128986027, 60128986028, 60128986029

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Calcium, Dissolved	ug/L	ND	100	09/26/12 11:08	
Magnesium, Dissolved	ug/L	ND	50.0	09/26/12 11:08	
Potassium, Dissolved	ug/L	ND	500	09/26/12 11:08	
Sodium, Dissolved	ug/L	ND	500	09/26/12 11:08	

LABORATORY CONTROL SAMPLE: 1064779

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium, Dissolved	ug/L	10000	9540	95	85-115	
Magnesium, Dissolved	ug/L	10000	9850	98	85-115	
Potassium, Dissolved	ug/L	10000	9410	94	85-115	
Sodium, Dissolved	ug/L	10000	9900	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1064780 1064781

Parameter	Units	60128986024 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	286000	10000	10000	298000	287000	122	10	70-130	4	20	M1
Magnesium, Dissolved	ug/L	35100	10000	10000	44700	43600	97	85	70-130	3	20	
Potassium, Dissolved	ug/L	2600	10000	10000	11400	11200	88	86	70-130	2	20	
Sodium, Dissolved	ug/L	4760	10000	10000	14600	14300	98	95	70-130	2	20	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

QC Batch: MPRP/19596 | Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 | Analysis Description: 200.8 Potentially Dissolved Metals
Associated Lab Samples: 60128986001, 60128986002, 60128986003, 60128986004, 60128986005, 60128986006, 60128986007, 60128986008, 60128986009, 60128986010, 60128986011, 60128986012, 60128986013, 60128986014, 60128986015, 60128986016, 60128986017, 60128986018, 60128986019, 60128986020

METHOD BLANK: 1064783 | Matrix: Water
Associated Lab Samples: 60128986001, 60128986002, 60128986003, 60128986004, 60128986005, 60128986006, 60128986007, 60128986008, 60128986009, 60128986010, 60128986011, 60128986012, 60128986013, 60128986014, 60128986015, 60128986016, 60128986017, 60128986018, 60128986019, 60128986020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	50.0	09/25/12 15:17	
Antimony, Dissolved	ug/L	ND	1.0	09/25/12 15:17	
Arsenic, Dissolved	ug/L	ND	1.0	09/25/12 09:27	
Barium, Dissolved	ug/L	0.12J	1.0	09/25/12 15:17	
Beryllium, Dissolved	ug/L	ND	0.50	09/25/12 09:27	
Cadmium, Dissolved	ug/L	ND	0.50	09/25/12 09:27	
Chromium, Dissolved	ug/L	0.44J	1.0	09/25/12 09:27	
Cobalt, Dissolved	ug/L	ND	1.0	09/25/12 09:27	
Copper, Dissolved	ug/L	ND	1.0	09/25/12 09:27	
Iron, Dissolved	ug/L	5.1J	50.0	09/25/12 09:27	
Lead, Dissolved	ug/L	ND	1.0	09/25/12 15:17	
Manganese, Dissolved	ug/L	0.85J	1.0	09/25/12 09:27	
Molybdenum, Dissolved	ug/L	ND	1.0	09/25/12 09:27	
Nickel, Dissolved	ug/L	ND	1.0	09/25/12 09:27	
Selenium, Dissolved	ug/L	ND	1.0	09/25/12 09:27	
Silver, Dissolved	ug/L	ND	0.50	09/25/12 09:27	
Thallium, Dissolved	ug/L	ND	1.0	09/25/12 15:17	
Vanadium, Dissolved	ug/L	ND	1.0	09/25/12 09:27	
Zinc, Dissolved	ug/L	2.7J	10.0	09/25/12 09:27	

LABORATORY CONTROL SAMPLE: 1064784

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	1000	1050	105	85-115	
Antimony, Dissolved	ug/L	40	38.8	97	85-115	
Arsenic, Dissolved	ug/L	40	39.1	98	85-115	
Barium, Dissolved	ug/L	40	38.2	96	85-115	
Beryllium, Dissolved	ug/L	40	42.3	106	85-115	
Cadmium, Dissolved	ug/L	40	39.2	98	85-115	
Chromium, Dissolved	ug/L	40	39.5	99	85-115	
Cobalt, Dissolved	ug/L	40	38.7	97	85-115	
Copper, Dissolved	ug/L	40	39.3	98	85-115	
Iron, Dissolved	ug/L	1000	978	98	85-115	
Lead, Dissolved	ug/L	40	38.4	96	85-115	
Manganese, Dissolved	ug/L	40	39.6	99	85-115	
Molybdenum, Dissolved	ug/L	40	40.2	100	85-115	
Nickel, Dissolved	ug/L	40	39.0	98	85-115	
Selenium, Dissolved	ug/L	40	38.7	97	85-115	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

LABORATORY CONTROL SAMPLE: 1064784

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Silver, Dissolved	ug/L	20	19.2	96	85-115	
Thallium, Dissolved	ug/L	40	37.0	92	85-115	
Vanadium, Dissolved	ug/L	40	39.6	99	85-115	
Zinc, Dissolved	ug/L	100	104	104	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1064785 1064786

Parameter	Units	60128986005 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	66.9J	1000	1000	1040	1060	97	99	70-130	2	20	
Antimony, Dissolved	ug/L	0.18J	40	40	39.9	39.5	99	98	70-130	1	20	
Arsenic, Dissolved	ug/L	0.16J	40	40	41.3	40.4	103	101	70-130	2	20	
Barium, Dissolved	ug/L	17.7	40	40	55.9	55.9	95	95	70-130	0	20	
Beryllium, Dissolved	ug/L	0.21J	40	40	34.4	35.3	85	88	70-130	3	20	
Cadmium, Dissolved	ug/L	16.7	40	40	56.2	56.4	99	99	70-130	0	20	
Chromium, Dissolved	ug/L	0.78J	40	40	40.3	40.4	99	99	70-130	0	20	
Cobalt, Dissolved	ug/L	2.4	40	40	40.5	40.8	95	96	70-130	1	20	
Copper, Dissolved	ug/L	11.7	40	40	49.3	49.0	94	93	70-130	1	20	
Iron, Dissolved	ug/L	960	1000	1000	1920	1930	96	97	70-130	1	20	
Lead, Dissolved	ug/L	0.66J	40	40	39.7	39.3	98	97	70-130	1	20	
Manganese, Dissolved	ug/L	1710	40	40	1770	1760	162	118	70-130	1	20	M1
Molybdenum, Dissolved	ug/L	12.1	40	40	54.7	54.4	107	106	70-130	1	20	
Nickel, Dissolved	ug/L	2.8	40	40	42.1	40.8	98	95	70-130	3	20	
Selenium, Dissolved	ug/L	ND	40	40	40.9	40.7	102	101	70-130	1	20	
Silver, Dissolved	ug/L	ND	20	20	19.1	19.4	95	97	70-130	2	20	
Thallium, Dissolved	ug/L	ND	40	40	36.7	37.4	92	93	70-130	2	20	
Vanadium, Dissolved	ug/L	ND	40	40	39.6	39.7	99	99	70-130	0	20	
Zinc, Dissolved	ug/L	3080	100	100	3230	3180	148	95	70-130	2	20	M1

MATRIX SPIKE SAMPLE: 1064787

Parameter	Units	60128986015 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	6430	1000	7320	89	70-130	
Antimony, Dissolved	ug/L	1.3J	40	40.4	98	70-130	
Arsenic, Dissolved	ug/L	269	40	305	90	70-130	
Barium, Dissolved	ug/L	7.6	40	45.5	95	70-130	
Beryllium, Dissolved	ug/L	0.86	40	29.4	71	70-130	
Cadmium, Dissolved	ug/L	82.9	40	118	88	70-130	
Chromium, Dissolved	ug/L	6.3	40	46.1	99	70-130	
Cobalt, Dissolved	ug/L	19.4	40	59.6	101	70-130	
Copper, Dissolved	ug/L	721	40	804	208	70-130	M1
Iron, Dissolved	ug/L	39700	1000	39900	18	70-130	M1
Lead, Dissolved	ug/L	5380	40	5380	-12	70-130	M1
Manganese, Dissolved	ug/L	13200	40	13300	150	70-130	M1
Molybdenum, Dissolved	ug/L	7.5	40	48.6	103	70-130	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

MATRIX SPIKE SAMPLE: 1064787

Parameter	Units	60128986015 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nickel, Dissolved	ug/L	24.6	40	62.3	94	70-130	
Selenium, Dissolved	ug/L	0.64J	40	37.3	92	70-130	
Silver, Dissolved	ug/L	ND	20	18.7	93	70-130	
Thallium, Dissolved	ug/L	0.84J	40	37.4	91	70-130	
Vanadium, Dissolved	ug/L	10.9	40	49.2	96	70-130	
Zinc, Dissolved	ug/L	25200	100	25100	-70	70-130	M1

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

QC Batch: MPRP/19597 | Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 | Analysis Description: 200.8 Potentially Dissolved Metals
Associated Lab Samples: 60128986021, 60128986022, 60128986023, 60128986024, 60128986025, 60128986026, 60128986027, 60128986028, 60128986029

METHOD BLANK: 1064788 | Matrix: Water
Associated Lab Samples: 60128986021, 60128986022, 60128986023, 60128986024, 60128986025, 60128986026, 60128986027, 60128986028, 60128986029

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	50.0	09/25/12 17:56	
Antimony, Dissolved	ug/L	ND	1.0	09/25/12 17:56	
Arsenic, Dissolved	ug/L	ND	1.0	09/25/12 21:09	
Barium, Dissolved	ug/L	0.13J	1.0	09/25/12 17:56	
Beryllium, Dissolved	ug/L	ND	0.50	09/25/12 21:09	
Cadmium, Dissolved	ug/L	ND	0.50	09/25/12 21:09	
Chromium, Dissolved	ug/L	0.61J	1.0	09/25/12 21:09	
Cobalt, Dissolved	ug/L	ND	1.0	09/25/12 21:09	
Copper, Dissolved	ug/L	ND	1.0	09/25/12 21:09	
Iron, Dissolved	ug/L	20.5J	50.0	09/25/12 21:09	
Lead, Dissolved	ug/L	0.20J	1.0	09/25/12 17:56	
Manganese, Dissolved	ug/L	0.57J	1.0	09/25/12 21:09	
Molybdenum, Dissolved	ug/L	ND	1.0	09/25/12 21:09	
Nickel, Dissolved	ug/L	ND	1.0	09/25/12 21:09	
Selenium, Dissolved	ug/L	ND	1.0	09/25/12 21:09	
Silver, Dissolved	ug/L	ND	0.50	09/25/12 21:09	
Thallium, Dissolved	ug/L	ND	1.0	09/25/12 17:56	
Vanadium, Dissolved	ug/L	ND	1.0	09/25/12 21:09	
Zinc, Dissolved	ug/L	4.1J	10.0	09/25/12 21:09	

LABORATORY CONTROL SAMPLE: 1064789

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	1000	966	97	85-115	
Antimony, Dissolved	ug/L	40	39.5	99	85-115	
Arsenic, Dissolved	ug/L	40	40.3	101	85-115	
Barium, Dissolved	ug/L	40	38.2	95	85-115	
Beryllium, Dissolved	ug/L	40	34.7	87	85-115	
Cadmium, Dissolved	ug/L	40	39.9	100	85-115	
Chromium, Dissolved	ug/L	40	40.9	102	85-115	
Cobalt, Dissolved	ug/L	40	39.7	99	85-115	
Copper, Dissolved	ug/L	40	40.0	100	85-115	
Iron, Dissolved	ug/L	1000	987	99	85-115	
Lead, Dissolved	ug/L	40	39.2	98	85-115	
Manganese, Dissolved	ug/L	40	39.4	98	85-115	
Molybdenum, Dissolved	ug/L	40	40.3	101	85-115	
Nickel, Dissolved	ug/L	40	40.2	100	85-115	
Selenium, Dissolved	ug/L	40	39.9	100	85-115	
Silver, Dissolved	ug/L	20	20.0	100	85-115	
Thallium, Dissolved	ug/L	40	37.7	94	85-115	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

LABORATORY CONTROL SAMPLE: 1064789

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vanadium, Dissolved	ug/L	40	38.9	97	85-115	
Zinc, Dissolved	ug/L	100	108	108	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1064790 1066518

Parameter	Units	60128986025 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	4570	1000	1000	5860	6000	128	142	70-130	2	20	M1
Antimony, Dissolved	ug/L	ND	40	40	38.2	38.5	95	96	70-130	1	20	
Arsenic, Dissolved	ug/L	3.7	40	40	47.1	42.4	109	97	70-130	11	20	
Barium, Dissolved	ug/L	75.0	40	40	111	113	91	96	70-130	2	20	
Beryllium, Dissolved	ug/L	1.1	40	40	39.1	36.4	95	88	70-130	7	20	
Cadmium, Dissolved	ug/L	2.0	40	40	44.6	39.7	106	94	70-130	12	20	
Chromium, Dissolved	ug/L	8.8	40	40	51.8	46.6	108	94	70-130	11	20	
Cobalt, Dissolved	ug/L	7.5	40	40	47.9	43.1	101	89	70-130	11	20	
Copper, Dissolved	ug/L	68.7	40	40	115	104	117	87	70-130	11	20	
Iron, Dissolved	ug/L	6750	1000	1000	8290	7470	154	72	70-130	10	20	M1
Lead, Dissolved	ug/L	130	40	40	168	169	96	97	70-130	0	20	
Manganese, Dissolved	ug/L	878	40	40	1010	914	330	90	70-130	10	20	M1
Molybdenum, Dissolved	ug/L	1.3	40	40	46.4	41.8	113	101	70-130	10	20	
Nickel, Dissolved	ug/L	4.9	40	40	45.2	40.5	101	89	70-130	11	20	
Selenium, Dissolved	ug/L	22.3	40	40	67.6	59.4	113	93	70-130	13	20	
Silver, Dissolved	ug/L	0.39J	20	20	21.1	19.3	103	94	70-130	9	20	
Thallium, Dissolved	ug/L	ND	40	40	36.3	36.1	91	90	70-130	1	20	
Vanadium, Dissolved	ug/L	4.6	40	40	47.8	42.5	108	95	70-130	12	20	
Zinc, Dissolved	ug/L	328	100	100	468	421	141	94	70-130	11	20	M1

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

QC Batch: MT/10200 Analysis Method: SM 2510B
QC Batch Method: SM 2510B Analysis Description: 2510B Specific Conductance
Associated Lab Samples: 60128986001, 60128986002, 60128986003, 60128986004, 60128986005, 60128986006, 60128986007, 60128986008, 60128986009, 60128986010, 60128986011, 60128986012, 60128986013, 60128986014, 60128986015, 60128986016, 60128986017, 60128986018, 60128986019, 60128986020

METHOD BLANK: 1293213 Matrix: Water
Associated Lab Samples: 60128986001, 60128986002, 60128986003, 60128986004, 60128986005, 60128986006, 60128986007, 60128986008, 60128986009, 60128986010, 60128986011, 60128986012, 60128986013, 60128986014, 60128986015, 60128986016, 60128986017, 60128986018, 60128986019, 60128986020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Specific Conductance	umhos/cm	ND	10.0	09/21/12 15:49	

LABORATORY CONTROL SAMPLE: 1293214

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Specific Conductance	umhos/cm	1000	1010	101	90-110	

SAMPLE DUPLICATE: 1293215

Parameter	Units	60128986003 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Conductance	umhos/cm	1180	1260	7	20	

SAMPLE DUPLICATE: 1293216

Parameter	Units	60128986013 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Conductance	umhos/cm	793	828	4	20	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

QC Batch: MT/10201 Analysis Method: SM 2510B
QC Batch Method: SM 2510B Analysis Description: 2510B Specific Conductance
Associated Lab Samples: 60128986021, 60128986022, 60128986023, 60128986024, 60128986025, 60128986026, 60128986027, 60128986028, 60128986029

METHOD BLANK: 1293218 Matrix: Water
Associated Lab Samples: 60128986021, 60128986022, 60128986023, 60128986024, 60128986025, 60128986026, 60128986027, 60128986028, 60128986029

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Specific Conductance	umhos/cm	ND	10.0	09/21/12 16:19	

LABORATORY CONTROL SAMPLE: 1293219

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Specific Conductance	umhos/cm	1000	991	99	90-110	

SAMPLE DUPLICATE: 1293220

Parameter	Units	60128986022 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Conductance	umhos/cm	1210	1260	4	20	

SAMPLE DUPLICATE: 1293221

Parameter	Units	10205419003 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Conductance	umhos/cm	464	467	.7	20	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

QC Batch: WET/37255 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 60128986001, 60128986002, 60128986003, 60128986004, 60128986005, 60128986006, 60128986007, 60128986008, 60128986009, 60128986010, 60128986011, 60128986012, 60128986013, 60128986014, 60128986015, 60128986016, 60128986017

METHOD BLANK: 1064294 Matrix: Water
Associated Lab Samples: 60128986001, 60128986002, 60128986003, 60128986004, 60128986005, 60128986006, 60128986007, 60128986008, 60128986009, 60128986010, 60128986011, 60128986012, 60128986013, 60128986014, 60128986015, 60128986016, 60128986017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	20.0	09/21/12 09:18	
Alkalinity, Total as CaCO3	mg/L	ND	20.0	09/21/12 09:18	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	20.0	09/21/12 09:18	

LABORATORY CONTROL SAMPLE: 1064295

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	497	99	90-110	

SAMPLE DUPLICATE: 1064296

Parameter	Units	60129089004 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	ND		24	
Alkalinity, Total as CaCO3	mg/L	49.6	49.1	1	9	
Alkalinity,Bicarbonate (CaCO3)	mg/L	49.6	49.1	1	9	

SAMPLE DUPLICATE: 1064297

Parameter	Units	60128986006 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	ND		24	
Alkalinity, Total as CaCO3	mg/L	123	125	2	9	
Alkalinity,Bicarbonate (CaCO3)	mg/L	123	125	2	9	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

QC Batch: WET/37309 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 60128986018, 60128986019, 60128986020, 60128986021, 60128986022, 60128986023, 60128986024, 60128986025, 60128986026, 60128986027, 60128986028, 60128986029

METHOD BLANK: 1066479 Matrix: Water
Associated Lab Samples: 60128986018, 60128986019, 60128986020, 60128986021, 60128986022, 60128986023, 60128986024, 60128986025, 60128986026, 60128986027, 60128986028, 60128986029

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	20.0	09/26/12 07:51	
Alkalinity, Total as CaCO3	mg/L	ND	20.0	09/26/12 07:51	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	20.0	09/26/12 07:51	

LABORATORY CONTROL SAMPLE: 1066480

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	495	99	90-110	

SAMPLE DUPLICATE: 1066481

Parameter	Units	60128986018 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	ND		24	H1
Alkalinity, Total as CaCO3	mg/L	189	191	1	9	H1
Alkalinity,Bicarbonate (CaCO3)	mg/L	189	191	1	9	H1

SAMPLE DUPLICATE: 1066482

Parameter	Units	60128986026 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	ND		24	H1
Alkalinity, Total as CaCO3	mg/L	22.5	22.3	1	9	H1
Alkalinity,Bicarbonate (CaCO3)	mg/L	22.5	22.3	1	9	H1

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

QC Batch: WET/37162 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 60128986001, 60128986003, 60128986004, 60128986008, 60128986012, 60128986013, 60128986014, 60128986015, 60128986016, 60128986017, 60128986018, 60128986019, 60128986022, 60128986023, 60128986024, 60128986025, 60128986026, 60128986027, 60128986028, 60128986029

METHOD BLANK: 1061918 Matrix: Water
Associated Lab Samples: 60128986001, 60128986003, 60128986004, 60128986008, 60128986012, 60128986013, 60128986014, 60128986015, 60128986016, 60128986017, 60128986018, 60128986019, 60128986022, 60128986023, 60128986024, 60128986025, 60128986026, 60128986027, 60128986028, 60128986029

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	09/17/12 14:52	

SAMPLE DUPLICATE: 1061919

Parameter	Units	60128986001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	167	165	1	17	

SAMPLE DUPLICATE: 1061920

Parameter	Units	60128986019 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	4340	4390	1	17	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

QC Batch: WET/37250 | Analysis Method: SM 2540C
QC Batch Method: SM 2540C | Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 60128986002, 60128986005, 60128986006, 60128986007, 60128986009, 60128986010, 60128986011, 60128986020, 60128986021

METHOD BLANK: 1063888 | Matrix: Water
Associated Lab Samples: 60128986002, 60128986005, 60128986006, 60128986007, 60128986009, 60128986010, 60128986011, 60128986020, 60128986021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	09/20/12 15:28	

SAMPLE DUPLICATE: 1063889

Parameter	Units	60128986002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	220	216	2	17	

SAMPLE DUPLICATE: 1063890

Parameter	Units	60129087002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	23200	22600	3	17	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

QC Batch: WET/37134 Analysis Method: SM 2540D
QC Batch Method: SM 2540D Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 60128986001, 60128986003, 60128986004, 60128986008

METHOD BLANK: 1061663 Matrix: Water
Associated Lab Samples: 60128986001, 60128986003, 60128986004, 60128986008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	09/17/12 09:43	

SAMPLE DUPLICATE: 1061664

Parameter	Units	60128966001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	ND	ND		25	

SAMPLE DUPLICATE: 1061665

Parameter	Units	60128761006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	ND	ND		25	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

QC Batch: WET/37137 Analysis Method: SM 2540D
QC Batch Method: SM 2540D Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 60128986012, 60128986013, 60128986014, 60128986015, 60128986016, 60128986017, 60128986018, 60128986019, 60128986022, 60128986023, 60128986024, 60128986025, 60128986026, 60128986027, 60128986028, 60128986029

METHOD BLANK: 1061668 Matrix: Water
Associated Lab Samples: 60128986012, 60128986013, 60128986014, 60128986015, 60128986016, 60128986017, 60128986018, 60128986019, 60128986022, 60128986023, 60128986024, 60128986025, 60128986026, 60128986027, 60128986028, 60128986029

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	09/17/12 09:50	

SAMPLE DUPLICATE: 1061669

Parameter	Units	60128986015 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	876	944	7	25	

SAMPLE DUPLICATE: 1061670

Parameter	Units	60128986026 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	64.0	64.0	0	25	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

QC Batch: WET/37230 Analysis Method: SM 2540D
QC Batch Method: SM 2540D Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 60128986002, 60128986005, 60128986006, 60128986007, 60128986009, 60128986010, 60128986011, 60128986020, 60128986021

METHOD BLANK: 1063489 Matrix: Water
Associated Lab Samples: 60128986002, 60128986005, 60128986006, 60128986007, 60128986009, 60128986010, 60128986011, 60128986020, 60128986021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	09/20/12 08:56	

SAMPLE DUPLICATE: 1063490

Parameter	Units	60128986002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	6.0	5.0	18	25	

SAMPLE DUPLICATE: 1063491

Parameter	Units	60128987002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	ND	ND		25	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

QC Batch: WET/37144 Analysis Method: SM 4500-S-2 D
QC Batch Method: SM 4500-S-2 D Analysis Description: 4500S2D Sulfide, Total
Associated Lab Samples: 60128986001, 60128986003, 60128986004, 60128986008, 60128986012, 60128986013, 60128986014, 60128986015, 60128986016, 60128986017, 60128986018, 60128986019, 60128986022, 60128986023, 60128986024, 60128986025, 60128986026

METHOD BLANK: 1061723 Matrix: Water
Associated Lab Samples: 60128986001, 60128986003, 60128986004, 60128986008, 60128986012, 60128986013, 60128986014, 60128986015, 60128986016, 60128986017, 60128986018, 60128986019, 60128986022, 60128986023, 60128986024, 60128986025, 60128986026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.050	09/17/12 12:58	

LABORATORY CONTROL SAMPLE: 1061724

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	.5	0.50	101	80-120	

MATRIX SPIKE SAMPLE: 1061725

Parameter	Units	60128660001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	ND	.1	0.16	147	75-125	M0

SAMPLE DUPLICATE: 1061726

Parameter	Units	60128660002 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 1061727

Parameter	Units	60128986014 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

QC Batch: WET/37145 | Analysis Method: SM 4500-S-2 D
QC Batch Method: SM 4500-S-2 D | Analysis Description: 4500S2D Sulfide, Total
Associated Lab Samples: 60128986027, 60128986028, 60128986029

METHOD BLANK: 1061728 | Matrix: Water
Associated Lab Samples: 60128986027, 60128986028, 60128986029

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.050	09/17/12 14:57	

LABORATORY CONTROL SAMPLE: 1061729

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	.5	0.50	100	80-120	

MATRIX SPIKE SAMPLE: 1061730

Parameter	Units	60128975005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	ND	.5	0.41	76	75-125	

SAMPLE DUPLICATE: 1061731

Parameter	Units	60128986028 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 1061732

Parameter	Units	60128986028 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

QC Batch: WET/37147 Analysis Method: SM 4500-S-2 D
QC Batch Method: SM 4500-S-2 D Analysis Description: 4500S2D Sulfide, Total
Associated Lab Samples: 60128986002, 60128986005, 60128986006, 60128986007, 60128986009, 60128986010, 60128986011, 60128986020, 60128986021

METHOD BLANK: 1061738 Matrix: Water
Associated Lab Samples: 60128986002, 60128986005, 60128986006, 60128986007, 60128986009, 60128986010, 60128986011, 60128986020, 60128986021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.050	09/18/12 15:14	

LABORATORY CONTROL SAMPLE: 1061739

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	.5	0.50	101	80-120	

MATRIX SPIKE SAMPLE: 1061740

Parameter	Units	60128975026 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	ND	.5	0.46	92	75-125	

SAMPLE DUPLICATE: 1061741

Parameter	Units	60128975027 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 1061742

Parameter	Units	60128986011 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

QC Batch: WETA/21737 — Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 — Analysis Description: 300.0 IC Anions

Associated Lab Samples: 60128986001, 60128986002, 60128986003, 60128986004, 60128986005, 60128986006, 60128986007, 60128986008, 60128986009, 60128986010, 60128986011, 60128986012, 60128986013, 60128986014, 60128986015, 60128986016, 60128986017, 60128986018, 60128986019, 60128986020

METHOD BLANK: 1066149 — Matrix: Water

Associated Lab Samples: 60128986001, 60128986002, 60128986003, 60128986004, 60128986005, 60128986006, 60128986007, 60128986008, 60128986009, 60128986010, 60128986011, 60128986012, 60128986013, 60128986014, 60128986015, 60128986016, 60128986017, 60128986018, 60128986019, 60128986020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	09/25/12 10:12	
Sulfate	mg/L	ND	1.0	09/25/12 10:12	

METHOD BLANK: 1067202 — Matrix: Water

Associated Lab Samples: 60128986001, 60128986002, 60128986003, 60128986004, 60128986005, 60128986006, 60128986007, 60128986008, 60128986009, 60128986010, 60128986011, 60128986012, 60128986013, 60128986014, 60128986015, 60128986016, 60128986017, 60128986018, 60128986019, 60128986020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	09/26/12 10:06	
Sulfate	mg/L	ND	1.0	09/26/12 10:06	

LABORATORY CONTROL SAMPLE: 1066150

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.9	98	90-110	
Sulfate	mg/L	5	5.1	103	90-110	

LABORATORY CONTROL SAMPLE: 1067203

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.9	97	90-110	
Sulfate	mg/L	5	5.2	104	90-110	

MATRIX SPIKE SAMPLE: 1066151

Parameter	Units	60128986001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.1	5	5.6	90	64-118	
Sulfate	mg/L	49.9	50	99.1	98	61-119	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1066152 1066153

Parameter	Units	60128986003 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	5.4	5.7	90	96	64-118	6	12	
Sulfate	mg/L	589	500	500	1040	1060	90	95	61-119	2	10	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

QC Batch: WETA/21738 | Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 | Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60128986021, 60128986022, 60128986023, 60128986024, 60128986025, 60128986026, 60128986027, 60128986028, 60128986029

METHOD BLANK: 1066154 | Matrix: Water
Associated Lab Samples: 60128986021, 60128986022, 60128986023, 60128986024, 60128986025, 60128986026, 60128986027, 60128986028, 60128986029

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	09/25/12 10:13	
Sulfate	mg/L	ND	1.0	09/25/12 10:13	

LABORATORY CONTROL SAMPLE: 1066155

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	5.2	103	90-110	
Sulfate	mg/L	5	5.3	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1066156 1066157

Parameter	Units	60128986021 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	5.8	5.7	99	98	64-118	1	12	
Sulfate	mg/L	669	250	250	895	899	90	92	61-119	0	10	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

QC Batch: WETA/21799 | Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 | Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60128986016

METHOD BLANK: 1068214 | Matrix: Water
Associated Lab Samples: 60128986016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	1.0	09/27/12 13:15	

LABORATORY CONTROL SAMPLE: 1068215

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	5	5.2	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1068216 1068217

Parameter	Units	60128986016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	1530	1000	1000	2470	2460	93	93	61-119	0	10	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

QC Batch: WETA/21657 | Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 | Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 60128986001, 60128986002, 60128986003, 60128986004, 60128986005, 60128986006, 60128986007, 60128986008, 60128986009, 60128986010, 60128986011

METHOD BLANK: 1061975 | Matrix: Water
Associated Lab Samples: 60128986001, 60128986002, 60128986003, 60128986004, 60128986005, 60128986006, 60128986007, 60128986008, 60128986009, 60128986010, 60128986011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	0.10	09/18/12 13:36	

LABORATORY CONTROL SAMPLE: 1061976

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2	2.0	102	90-110	

MATRIX SPIKE SAMPLE: 1061977

Parameter	Units	60128975019 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	2	2.1	104	90-110	

MATRIX SPIKE SAMPLE: 1061979

Parameter	Units	60128986002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	2	2.0	101	90-110	

SAMPLE DUPLICATE: 1061978

Parameter	Units	60128975021 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	ND		13	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

QC Batch: WETA/21675 | Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 | Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 60128986012, 60128986013, 60128986014, 60128986015, 60128986016, 60128986017, 60128986018, 60128986019, 60128986020, 60128986021, 60128986022, 60128986023, 60128986024, 60128986025, 60128986026, 60128986027, 60128986028, 60128986029

METHOD BLANK: 1062653 | Matrix: Water
Associated Lab Samples: 60128986012, 60128986013, 60128986014, 60128986015, 60128986016, 60128986017, 60128986018, 60128986019, 60128986020, 60128986021, 60128986022, 60128986023, 60128986024, 60128986025, 60128986026, 60128986027, 60128986028, 60128986029

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	0.10	09/19/12 15:56	

LABORATORY CONTROL SAMPLE: 1062654

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2	2.2	108	90-110	

MATRIX SPIKE SAMPLE: 1062655

Parameter	Units	60128986012 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	2	2.2	112	90-110	M1

MATRIX SPIKE SAMPLE: 1062657

Parameter	Units	60128986022 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	2	2.3	114	90-110	M1

SAMPLE DUPLICATE: 1062656

Parameter	Units	60128986014 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	ND		13	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

QC Batch: WETA/21721 Analysis Method: SM 4500-CN-E
QC Batch Method: SM 4500-CN-E Analysis Description: 4500CNE Cyanide, Total
Associated Lab Samples: 60128986001, 60128986002, 60128986003, 60128986004, 60128986005, 60128986006, 60128986007, 60128986008, 60128986009, 60128986010, 60128986011

METHOD BLANK: 1065164 Matrix: Water
Associated Lab Samples: 60128986001, 60128986002, 60128986003, 60128986004, 60128986005, 60128986006, 60128986007, 60128986008, 60128986009, 60128986010, 60128986011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	mg/L	ND	0.0050	09/24/12 16:58	

LABORATORY CONTROL SAMPLE: 1065165

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	.1	0.085	85	69-126	

MATRIX SPIKE SAMPLE: 1065166

Parameter	Units	60128975019 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	ND	.1	0.095	95	41-136	

SAMPLE DUPLICATE: 1065167

Parameter	Units	60128975020 Result	Dup Result	RPD	Max RPD	Qualifiers
Cyanide	mg/L	ND	ND		26	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

QC Batch: WETA/21722 Analysis Method: SM 4500-CN-E
QC Batch Method: SM 4500-CN-E Analysis Description: 4500CNE Cyanide, Total
Associated Lab Samples: 60128986012, 60128986013, 60128986014, 60128986015, 60128986016, 60128986017, 60128986018, 60128986019, 60128986020, 60128986021, 60128986022, 60128986023, 60128986024, 60128986025, 60128986026, 60128986027, 60128986028, 60128986029

METHOD BLANK: 1065168 Matrix: Water
Associated Lab Samples: 60128986012, 60128986013, 60128986014, 60128986015, 60128986016, 60128986017, 60128986018, 60128986019, 60128986020, 60128986021, 60128986022, 60128986023, 60128986024, 60128986025, 60128986026, 60128986027, 60128986028, 60128986029

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	mg/L	ND	0.0050	09/24/12 17:28	

LABORATORY CONTROL SAMPLE: 1065169

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	.1	0.11	105	69-126	

MATRIX SPIKE SAMPLE: 1065170

Parameter	Units	60128986012 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	ND	.1	0.11	111	41-136	

SAMPLE DUPLICATE: 1065171

Parameter	Units	60128986013 Result	Dup Result	RPD	Max RPD	Qualifiers
Cyanide	mg/L	ND	ND		26	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

QC Batch: WETA/21769 | Analysis Method: SM 5310C
QC Batch Method: SM 5310C | Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 60128986001, 60128986002, 60128986003

METHOD BLANK: 1067125 | Matrix: Water
Associated Lab Samples: 60128986001, 60128986002, 60128986003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	09/26/12 07:30	

LABORATORY CONTROL SAMPLE: 1067126

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	4.6	92	80-120	

MATRIX SPIKE SAMPLE: 1067127

Parameter	Units	60128975011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	ND	5	6.6	115	80-120	

SAMPLE DUPLICATE: 1067128

Parameter	Units	60128975012 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	1.0	1.0	1	25	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

QC Batch: WETA/21802 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 60128986004, 60128986005, 60128986006, 60128986007, 60128986008, 60128986009, 60128986010, 60128986011, 60128986012, 60128986013, 60128986014, 60128986015, 60128986016, 60128986017, 60128986018, 60128986019, 60128986020, 60128986021, 60128986022, 60128986023

METHOD BLANK: 1068693 Matrix: Water
Associated Lab Samples: 60128986004, 60128986005, 60128986006, 60128986007, 60128986008, 60128986009, 60128986010, 60128986011, 60128986012, 60128986013, 60128986014, 60128986015, 60128986016, 60128986017, 60128986018, 60128986019, 60128986020, 60128986021, 60128986022, 60128986023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	09/27/12 18:08	

LABORATORY CONTROL SAMPLE: 1068694

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	4.6	93	80-120	

MATRIX SPIKE SAMPLE: 1068695

Parameter	Units	60128986004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	ND	5	4.9	98	80-120	

SAMPLE DUPLICATE: 1068696

Parameter	Units	60128986005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	ND	ND		25	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

QC Batch: WETA/21803 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 60128986024, 60128986025, 60128986026, 60128986027, 60128986028, 60128986029

METHOD BLANK: 1068732 Matrix: Water
Associated Lab Samples: 60128986024, 60128986025, 60128986026, 60128986027, 60128986028, 60128986029

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	09/28/12 07:50	

LABORATORY CONTROL SAMPLE: 1068733

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	4.5	91	80-120	

MATRIX SPIKE SAMPLE: 1068734

Parameter	Units	60128986024 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	ND	5	5.5	100	80-120	

SAMPLE DUPLICATE: 1068735

Parameter	Units	60128986025 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	1.0	ND		25	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALIFIERS

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

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-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.
D4	Sample was diluted due to the presence of high levels of target analytes.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
H1	Analysis conducted outside the EPA method holding time.
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.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.
P8	Analyte was detected in the method blank. All associated samples had concentrations of at least ten times greater than the blank or were below the reporting limit.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60128986001	**DR-1_20120911**	EPA 200.7	MPRP/19594	EPA 200.7	ICP/16161
60128986002	**DR-2_20120911**	EPA 200.7	MPRP/19594	EPA 200.7	ICP/16161
60128986003	**DR-3_20120911**	EPA 200.7	MPRP/19594	EPA 200.7	ICP/16161
60128986004	**DR-4_20120911**	EPA 200.7	MPRP/19594	EPA 200.7	ICP/16161
60128986005	**DR-5_20120911**	EPA 200.7	MPRP/19594	EPA 200.7	ICP/16161
60128986006	**DR-6_20120911**	EPA 200.7	MPRP/19594	EPA 200.7	ICP/16161
60128986007	**DR-7_20120911**	EPA 200.7	MPRP/19594	EPA 200.7	ICP/16161
60128986008	**DR-8_20120911**	EPA 200.7	MPRP/19594	EPA 200.7	ICP/16161
60128986009	**DR-4-SW_20120911**	EPA 200.7	MPRP/19594	EPA 200.7	ICP/16161
60128986010	**DR-G_20120911**	EPA 200.7	MPRP/19594	EPA 200.7	ICP/16161
60128986011	**FB_20120911**	EPA 200.7	MPRP/19594	EPA 200.7	ICP/16161
60128986012	**GW-1_20120911**	EPA 200.7	MPRP/19594	EPA 200.7	ICP/16161
60128986013	**GW-3_20120911**	EPA 200.7	MPRP/19594	EPA 200.7	ICP/16161
60128986014	**GW-4_20120911**	EPA 200.7	MPRP/19594	EPA 200.7	ICP/16161
60128986015	**GW-5_20120911**	EPA 200.7	MPRP/19594	EPA 200.7	ICP/16161
60128986016	**GW-6_20120911**	EPA 200.7	MPRP/19594	EPA 200.7	ICP/16161
60128986017	**GW-7_20120911**	EPA 200.7	MPRP/19594	EPA 200.7	ICP/16161
60128986018	**EB-1_20120911**	EPA 200.7	MPRP/19594	EPA 200.7	ICP/16161
60128986019	**EB-2_20120911**	EPA 200.7	MPRP/19594	EPA 200.7	ICP/16161
60128986020	**MW-1-DEEP_20120911**	EPA 200.7	MPRP/19594	EPA 200.7	ICP/16161
60128986021	**MW-1-SHALLOW_20120911**	EPA 200.7	MPRP/19595	EPA 200.7	ICP/16159
60128986022	**MW-2-DEEP_20120911**	EPA 200.7	MPRP/19595	EPA 200.7	ICP/16159
60128986023	**MW-3-DEEP_20120911**	EPA 200.7	MPRP/19595	EPA 200.7	ICP/16159
60128986024	**MW-4-DEEP_20120911**	EPA 200.7	MPRP/19595	EPA 200.7	ICP/16159
60128986025	**MW-4-SHALLOW_20120911**	EPA 200.7	MPRP/19595	EPA 200.7	ICP/16159
60128986026	**MW-5-DEEP_20120911**	EPA 200.7	MPRP/19595	EPA 200.7	ICP/16159
60128986027	**MW-5-SHALLOW_20120911**	EPA 200.7	MPRP/19595	EPA 200.7	ICP/16159
60128986028	**MW-6-DEEP_20120911**	EPA 200.7	MPRP/19595	EPA 200.7	ICP/16159
60128986029	**MW-6-SHALLOW_20120911**	EPA 200.7	MPRP/19595	EPA 200.7	ICP/16159
60128986001	**DR-1_20120911**	EPA 200.8	ICPM/35239	EPA 200.8	ICPM/13883
60128986002	**DR-2_20120911**	EPA 200.8	ICPM/35604	EPA 200.8	ICPM/14029
60128986003	**DR-3_20120911**	EPA 200.8	ICPM/35239	EPA 200.8	ICPM/13883
60128986004	**DR-4_20120911**	EPA 200.8	ICPM/35239	EPA 200.8	ICPM/13883
60128986005	**DR-5_20120911**	EPA 200.8	ICPM/35239	EPA 200.8	ICPM/13883
60128986006	**DR-6_20120911**	EPA 200.8	ICPM/35239	EPA 200.8	ICPM/13883
60128986007	**DR-7_20120911**	EPA 200.8	ICPM/35239	EPA 200.8	ICPM/13883
60128986008	**DR-8_20120911**	EPA 200.8	ICPM/35239	EPA 200.8	ICPM/13883
60128986009	**DR-4-SW_20120911**	EPA 200.8	ICPM/35604	EPA 200.8	ICPM/14029
60128986010	**DR-G_20120911**	EPA 200.8	ICPM/35604	EPA 200.8	ICPM/14029
60128986011	**FB_20120911**	EPA 200.8	ICPM/35239	EPA 200.8	ICPM/13883
60128986012	**GW-1_20120911**	EPA 200.8	ICPM/35604	EPA 200.8	ICPM/14029
60128986013	**GW-3_20120911**	EPA 200.8	ICPM/35239	EPA 200.8	ICPM/13883
60128986014	**GW-4_20120911**	EPA 200.8	ICPM/35239	EPA 200.8	ICPM/13883
60128986015	**GW-5_20120911**	EPA 200.8	ICPM/35239	EPA 200.8	ICPM/13883
60128986016	**GW-6_20120911**	EPA 200.8	ICPM/35239	EPA 200.8	ICPM/13883

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60128986017	**GW-7_20120911**	EPA 200.8	ICPM/35239	EPA 200.8	ICPM/13883
60128986018	**EB-1_20120911**	EPA 200.8	ICPM/35239	EPA 200.8	ICPM/13883
60128986019	**EB-2_20120911**	EPA 200.8	ICPM/35604	EPA 200.8	ICPM/14029
60128986020	**MW-1-DEEP_20120911**	EPA 200.8	ICPM/35240	EPA 200.8	ICPM/13884
60128986021	**MW-1-SHALLOW_20120911**	EPA 200.8	ICPM/35240	EPA 200.8	ICPM/13884
60128986022	**MW-2-DEEP_20120911**	EPA 200.8	ICPM/35240	EPA 200.8	ICPM/13884
60128986023	**MW-3-DEEP_20120911**	EPA 200.8	ICPM/35654	EPA 200.8	ICPM/14072
60128986024	**MW-4-DEEP_20120911**	EPA 200.8	ICPM/35240	EPA 200.8	ICPM/13884
60128986025	**MW-4-SHALLOW_20120911**	EPA 200.8	ICPM/35240	EPA 200.8	ICPM/13884
60128986026	**MW-5-DEEP_20120911**	EPA 200.8	ICPM/35654	EPA 200.8	ICPM/14072
60128986027	**MW-5-SHALLOW_20120911**	EPA 200.8	ICPM/35240	EPA 200.8	ICPM/13884
60128986028	**MW-6-DEEP_20120911**	EPA 200.8	ICPM/35654	EPA 200.8	ICPM/14072
60128986029	**MW-6-SHALLOW_20120911**	EPA 200.8	ICPM/35240	EPA 200.8	ICPM/13884
60128986001	**DR-1_20120911**	EPA 200.8	ICPM/35243	EPA 200.8	ICPM/13882
60128986002	**DR-2_20120911**	EPA 200.8	ICPM/35243	EPA 200.8	ICPM/13882
60128986003	**DR-3_20120911**	EPA 200.8	ICPM/35243	EPA 200.8	ICPM/13882
60128986004	**DR-4_20120911**	EPA 200.8	ICPM/35243	EPA 200.8	ICPM/13882
60128986005	**DR-5_20120911**	EPA 200.8	ICPM/35243	EPA 200.8	ICPM/13882
60128986006	**DR-6_20120911**	EPA 200.8	ICPM/35243	EPA 200.8	ICPM/13882
60128986007	**DR-7_20120911**	EPA 200.8	ICPM/35243	EPA 200.8	ICPM/13882
60128986008	**DR-8_20120911**	EPA 200.8	ICPM/35243	EPA 200.8	ICPM/13882
60128986009	**DR-4-SW_20120911**	EPA 200.8	ICPM/35243	EPA 200.8	ICPM/13882
60128986010	**DR-G_20120911**	EPA 200.8	ICPM/35243	EPA 200.8	ICPM/13882
60128986011	**FB_20120911**	EPA 200.8	ICPM/35243	EPA 200.8	ICPM/13882
60128986012	**GW-1_20120911**	EPA 200.8	ICPM/35243	EPA 200.8	ICPM/13882
60128986013	**GW-3_20120911**	EPA 200.8	ICPM/35243	EPA 200.8	ICPM/13882
60128986014	**GW-4_20120911**	EPA 200.8	ICPM/35243	EPA 200.8	ICPM/13882
60128986015	**GW-5_20120911**	EPA 200.8	ICPM/35243	EPA 200.8	ICPM/13882
60128986016	**GW-6_20120911**	EPA 200.8	ICPM/35243	EPA 200.8	ICPM/13882
60128986017	**GW-7_20120911**	EPA 200.8	ICPM/35243	EPA 200.8	ICPM/13882
60128986018	**EB-1_20120911**	EPA 200.8	ICPM/35243	EPA 200.8	ICPM/13882
60128986019	**EB-2_20120911**	EPA 200.8	ICPM/35244	EPA 200.8	ICPM/13995
60128986020	**MW-1-DEEP_20120911**	EPA 200.8	ICPM/35244	EPA 200.8	ICPM/13995
60128986021	**MW-1-SHALLOW_20120911**	EPA 200.8	ICPM/35244	EPA 200.8	ICPM/13995
60128986022	**MW-2-DEEP_20120911**	EPA 200.8	ICPM/35244	EPA 200.8	ICPM/13995
60128986023	**MW-3-DEEP_20120911**	EPA 200.8	ICPM/35244	EPA 200.8	ICPM/13995
60128986024	**MW-4-DEEP_20120911**	EPA 200.8	ICPM/35244	EPA 200.8	ICPM/13995
60128986025	**MW-4-SHALLOW_20120911**	EPA 200.8	ICPM/35244	EPA 200.8	ICPM/13995
60128986026	**MW-5-DEEP_20120911**	EPA 200.8	ICPM/35244	EPA 200.8	ICPM/13995
60128986027	**MW-5-SHALLOW_20120911**	EPA 200.8	ICPM/35244	EPA 200.8	ICPM/13995
60128986028	**MW-6-DEEP_20120911**	EPA 200.8	ICPM/35244	EPA 200.8	ICPM/13995
60128986029	**MW-6-SHALLOW_20120911**	EPA 200.8	ICPM/35244	EPA 200.8	ICPM/13995
60128986001	**DR-1_20120911**	EPA 200.8	MPRP/19596	EPA 200.8	ICPM/1657

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60128986002	**DR-2_20120911**	EPA 200.8	MPRP/19596	EPA 200.8	ICPM/1657
60128986003	**DR-3_20120911**	EPA 200.8	MPRP/19596	EPA 200.8	ICPM/1657
60128986004	**DR-4_20120911**	EPA 200.8	MPRP/19596	EPA 200.8	ICPM/1657
60128986005	**DR-5_20120911**	EPA 200.8	MPRP/19596	EPA 200.8	ICPM/1657
60128986006	**DR-6_20120911**	EPA 200.8	MPRP/19596	EPA 200.8	ICPM/1657
60128986007	**DR-7_20120911**	EPA 200.8	MPRP/19596	EPA 200.8	ICPM/1657
60128986008	**DR-8_20120911**	EPA 200.8	MPRP/19596	EPA 200.8	ICPM/1657
60128986009	**DR-4-SW_20120911**	EPA 200.8	MPRP/19596	EPA 200.8	ICPM/1657
60128986010	**DR-G_20120911**	EPA 200.8	MPRP/19596	EPA 200.8	ICPM/1657
60128986011	**FB_20120911**	EPA 200.8	MPRP/19596	EPA 200.8	ICPM/1657
60128986012	**GW-1_20120911**	EPA 200.8	MPRP/19596	EPA 200.8	ICPM/1657
60128986013	**GW-3_20120911**	EPA 200.8	MPRP/19596	EPA 200.8	ICPM/1657
60128986014	**GW-4_20120911**	EPA 200.8	MPRP/19596	EPA 200.8	ICPM/1657
60128986015	**GW-5_20120911**	EPA 200.8	MPRP/19596	EPA 200.8	ICPM/1657
60128986016	**GW-6_20120911**	EPA 200.8	MPRP/19596	EPA 200.8	ICPM/1657
60128986017	**GW-7_20120911**	EPA 200.8	MPRP/19596	EPA 200.8	ICPM/1657
60128986018	**EB-1_20120911**	EPA 200.8	MPRP/19596	EPA 200.8	ICPM/1657
60128986019	**EB-2_20120911**	EPA 200.8	MPRP/19596	EPA 200.8	ICPM/1657
60128986020	**MW-1-DEEP_20120911**	EPA 200.8	MPRP/19596	EPA 200.8	ICPM/1657
60128986021	**MW-1-SHALLOW_20120911**	EPA 200.8	MPRP/19597	EPA 200.8	ICPM/1658
60128986022	**MW-2-DEEP_20120911**	EPA 200.8	MPRP/19597	EPA 200.8	ICPM/1658
60128986023	**MW-3-DEEP_20120911**	EPA 200.8	MPRP/19597	EPA 200.8	ICPM/1658
60128986024	**MW-4-DEEP_20120911**	EPA 200.8	MPRP/19597	EPA 200.8	ICPM/1658
60128986025	**MW-4-SHALLOW_20120911**	EPA 200.8	MPRP/19597	EPA 200.8	ICPM/1658
60128986026	**MW-5-DEEP_20120911**	EPA 200.8	MPRP/19597	EPA 200.8	ICPM/1658
60128986027	**MW-5-SHALLOW_20120911**	EPA 200.8	MPRP/19597	EPA 200.8	ICPM/1658
60128986028	**MW-6-DEEP_20120911**	EPA 200.8	MPRP/19597	EPA 200.8	ICPM/1658
60128986029	**MW-6-SHALLOW_20120911**	EPA 200.8	MPRP/19597	EPA 200.8	ICPM/1658
60128986001	**DR-1_20120911**	EPA 245.1	MERC/7537	EPA 245.1	MERC/8440
60128986002	**DR-2_20120911**	EPA 245.1	MERC/7537	EPA 245.1	MERC/8440
60128986003	**DR-3_20120911**	EPA 245.1	MERC/7537	EPA 245.1	MERC/8440
60128986004	**DR-4_20120911**	EPA 245.1	MERC/7537	EPA 245.1	MERC/8440
60128986005	**DR-5_20120911**	EPA 245.1	MERC/7537	EPA 245.1	MERC/8440
60128986006	**DR-6_20120911**	EPA 245.1	MERC/7537	EPA 245.1	MERC/8440
60128986007	**DR-7_20120911**	EPA 245.1	MERC/7537	EPA 245.1	MERC/8440
60128986008	**DR-8_20120911**	EPA 245.1	MERC/7537	EPA 245.1	MERC/8440
60128986009	**DR-4-SW_20120911**	EPA 245.1	MERC/7537	EPA 245.1	MERC/8440
60128986010	**DR-G_20120911**	EPA 245.1	MERC/7537	EPA 245.1	MERC/8440
60128986011	**FB_20120911**	EPA 245.1	MERC/7537	EPA 245.1	MERC/8440
60128986012	**GW-1_20120911**	EPA 245.1	MERC/7537	EPA 245.1	MERC/8440
60128986013	**GW-3_20120911**	EPA 245.1	MERC/7537	EPA 245.1	MERC/8440
60128986014	**GW-4_20120911**	EPA 245.1	MERC/7537	EPA 245.1	MERC/8440
60128986015	**GW-5_20120911**	EPA 245.1	MERC/7537	EPA 245.1	MERC/8440
60128986016	**GW-6_20120911**	EPA 245.1	MERC/7537	EPA 245.1	MERC/8440
60128986017	**GW-7_20120911**	EPA 245.1	MERC/7537	EPA 245.1	MERC/8440
60128986018	**EB-1_20120911**	EPA 245.1	MERC/7537	EPA 245.1	MERC/8440
60128986019	**EB-2_20120911**	EPA 245.1	MERC/7537	EPA 245.1	MERC/8440
60128986020	**MW-1-DEEP_20120911**	EPA 245.1	MERC/7537	EPA 245.1	MERC/8440

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60128986021	**MW-1-SHALLOW_20120911**	EPA 245.1	MERC/7538	EPA 245.1	MERC/8441
60128986022	**MW-2-DEEP_20120911**	EPA 245.1	MERC/7538	EPA 245.1	MERC/8441
60128986023	**MW-3-DEEP_20120911**	EPA 245.1	MERC/7538	EPA 245.1	MERC/8441
60128986024	**MW-4-DEEP_20120911**	EPA 245.1	MERC/7538	EPA 245.1	MERC/8441
60128986025	**MW-4-SHALLOW_20120911**	EPA 245.1	MERC/7538	EPA 245.1	MERC/8441
60128986026	**MW-5-DEEP_20120911**	EPA 245.1	MERC/7538	EPA 245.1	MERC/8441
60128986027	**MW-5-SHALLOW_20120911**	EPA 245.1	MERC/7538	EPA 245.1	MERC/8441
60128986028	**MW-6-DEEP_20120911**	EPA 245.1	MERC/7538	EPA 245.1	MERC/8441
60128986029	**MW-6-SHALLOW_20120911**	EPA 245.1	MERC/7538	EPA 245.1	MERC/8441
60128986001	**DR-1_20120911**	EPA 245.1	MERC/7533	EPA 245.1	MERC/8471
60128986002	**DR-2_20120911**	EPA 245.1	MERC/7533	EPA 245.1	MERC/8471
60128986003	**DR-3_20120911**	EPA 245.1	MERC/7533	EPA 245.1	MERC/8471
60128986004	**DR-4_20120911**	EPA 245.1	MERC/7533	EPA 245.1	MERC/8471
60128986005	**DR-5_20120911**	EPA 245.1	MERC/7533	EPA 245.1	MERC/8471
60128986006	**DR-6_20120911**	EPA 245.1	MERC/7533	EPA 245.1	MERC/8471
60128986007	**DR-7_20120911**	EPA 245.1	MERC/7533	EPA 245.1	MERC/8471
60128986008	**DR-8_20120911**	EPA 245.1	MERC/7533	EPA 245.1	MERC/8471
60128986009	**DR-4-SW_20120911**	EPA 245.1	MERC/7533	EPA 245.1	MERC/8471
60128986010	**DR-G_20120911**	EPA 245.1	MERC/7533	EPA 245.1	MERC/8471
60128986011	**FB_20120911**	EPA 245.1	MERC/7533	EPA 245.1	MERC/8471
60128986012	**GW-1_20120911**	EPA 245.1	MERC/7533	EPA 245.1	MERC/8471
60128986013	**GW-3_20120911**	EPA 245.1	MERC/7533	EPA 245.1	MERC/8471
60128986014	**GW-4_20120911**	EPA 245.1	MERC/7533	EPA 245.1	MERC/8471
60128986015	**GW-5_20120911**	EPA 245.1	MERC/7533	EPA 245.1	MERC/8471
60128986016	**GW-6_20120911**	EPA 245.1	MERC/7533	EPA 245.1	MERC/8471
60128986017	**GW-7_20120911**	EPA 245.1	MERC/7533	EPA 245.1	MERC/8471
60128986018	**EB-1_20120911**	EPA 245.1	MERC/7533	EPA 245.1	MERC/8471
60128986019	**EB-2_20120911**	EPA 245.1	MERC/7533	EPA 245.1	MERC/8471
60128986020	**MW-1-DEEP_20120911**	EPA 245.1	MERC/7533	EPA 245.1	MERC/8471
60128986021	**MW-1-SHALLOW_20120911**	EPA 245.1	MERC/7534	EPA 245.1	MERC/8454
60128986022	**MW-2-DEEP_20120911**	EPA 245.1	MERC/7534	EPA 245.1	MERC/8454
60128986023	**MW-3-DEEP_20120911**	EPA 245.1	MERC/7534	EPA 245.1	MERC/8454
60128986024	**MW-4-DEEP_20120911**	EPA 245.1	MERC/7534	EPA 245.1	MERC/8454
60128986025	**MW-4-SHALLOW_20120911**	EPA 245.1	MERC/7534	EPA 245.1	MERC/8454
60128986026	**MW-5-DEEP_20120911**	EPA 245.1	MERC/7534	EPA 245.1	MERC/8454
60128986027	**MW-5-SHALLOW_20120911**	EPA 245.1	MERC/7534	EPA 245.1	MERC/8454
60128986028	**MW-6-DEEP_20120911**	EPA 245.1	MERC/7534	EPA 245.1	MERC/8454
60128986029	**MW-6-SHALLOW_20120911**	EPA 245.1	MERC/7534	EPA 245.1	MERC/8454
60128986001	**DR-1_20120911**	EPA 245.1	MERP/6641	EPA 245.1	MERC/6602
60128986002	**DR-2_20120911**	EPA 245.1	MERP/6641	EPA 245.1	MERC/6602
60128986003	**DR-3_20120911**	EPA 245.1	MERP/6641	EPA 245.1	MERC/6602
60128986004	**DR-4_20120911**	EPA 245.1	MERP/6641	EPA 245.1	MERC/6602
60128986005	**DR-5_20120911**	EPA 245.1	MERP/6641	EPA 245.1	MERC/6602
60128986006	**DR-6_20120911**	EPA 245.1	MERP/6641	EPA 245.1	MERC/6602
60128986007	**DR-7_20120911**	EPA 245.1	MERP/6641	EPA 245.1	MERC/6602
60128986008	**DR-8_20120911**	EPA 245.1	MERP/6641	EPA 245.1	MERC/6602
60128986009	**DR-4-SW_20120911**	EPA 245.1	MERP/6641	EPA 245.1	MERC/6602

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60128986010	**DR-G_20120911**	EPA 245.1	MERP/6641	EPA 245.1	MERC/6602
60128986011	**FB_20120911**	EPA 245.1	MERP/6641	EPA 245.1	MERC/6602
60128986012	**GW-1_20120911**	EPA 245.1	MERP/6641	EPA 245.1	MERC/6602
60128986013	**GW-3_20120911**	EPA 245.1	MERP/6641	EPA 245.1	MERC/6602
60128986014	**GW-4_20120911**	EPA 245.1	MERP/6641	EPA 245.1	MERC/6602
60128986015	**GW-5_20120911**	EPA 245.1	MERP/6641	EPA 245.1	MERC/6602
60128986016	**GW-6_20120911**	EPA 245.1	MERP/6642	EPA 245.1	MERC/6603
60128986017	**GW-7_20120911**	EPA 245.1	MERP/6642	EPA 245.1	MERC/6603
60128986018	**EB-1_20120911**	EPA 245.1	MERP/6642	EPA 245.1	MERC/6603
60128986019	**EB-2_20120911**	EPA 245.1	MERP/6642	EPA 245.1	MERC/6603
60128986020	**MW-1-DEEP_20120911**	EPA 245.1	MERP/6642	EPA 245.1	MERC/6603
60128986021	**MW-1-SHALLOW_20120911**	EPA 245.1	MERP/6642	EPA 245.1	MERC/6603
60128986022	**MW-2-DEEP_20120911**	EPA 245.1	MERP/6642	EPA 245.1	MERC/6603
60128986023	**MW-3-DEEP_20120911**	EPA 245.1	MERP/6642	EPA 245.1	MERC/6603
60128986024	**MW-4-DEEP_20120911**	EPA 245.1	MERP/6642	EPA 245.1	MERC/6603
60128986025	**MW-4-SHALLOW_20120911**	EPA 245.1	MERP/6642	EPA 245.1	MERC/6603
60128986026	**MW-5-DEEP_20120911**	EPA 245.1	MERP/6642	EPA 245.1	MERC/6603
60128986027	**MW-5-SHALLOW_20120911**	EPA 245.1	MERP/6642	EPA 245.1	MERC/6603
60128986028	**MW-6-DEEP_20120911**	EPA 245.1	MERP/6642	EPA 245.1	MERC/6603
60128986029	**MW-6-SHALLOW_20120911**	EPA 245.1	MERP/6642	EPA 245.1	MERC/6603
60128986001	**DR-1_20120911**	SM 2510B	MT/10200		
60128986002	**DR-2_20120911**	SM 2510B	MT/10200		
60128986003	**DR-3_20120911**	SM 2510B	MT/10200		
60128986004	**DR-4_20120911**	SM 2510B	MT/10200		
60128986005	**DR-5_20120911**	SM 2510B	MT/10200		
60128986006	**DR-6_20120911**	SM 2510B	MT/10200		
60128986007	**DR-7_20120911**	SM 2510B	MT/10200		
60128986008	**DR-8_20120911**	SM 2510B	MT/10200		
60128986009	**DR-4-SW_20120911**	SM 2510B	MT/10200		
60128986010	**DR-G_20120911**	SM 2510B	MT/10200		
60128986011	**FB_20120911**	SM 2510B	MT/10200		
60128986012	**GW-1_20120911**	SM 2510B	MT/10200		
60128986013	**GW-3_20120911**	SM 2510B	MT/10200		
60128986014	**GW-4_20120911**	SM 2510B	MT/10200		
60128986015	**GW-5_20120911**	SM 2510B	MT/10200		
60128986016	**GW-6_20120911**	SM 2510B	MT/10200		
60128986017	**GW-7_20120911**	SM 2510B	MT/10200		
60128986018	**EB-1_20120911**	SM 2510B	MT/10200		
60128986019	**EB-2_20120911**	SM 2510B	MT/10200		
60128986020	**MW-1-DEEP_20120911**	SM 2510B	MT/10200		
60128986021	**MW-1-SHALLOW_20120911**	SM 2510B	MT/10201		
60128986022	**MW-2-DEEP_20120911**	SM 2510B	MT/10201		
60128986023	**MW-3-DEEP_20120911**	SM 2510B	MT/10201		
60128986024	**MW-4-DEEP_20120911**	SM 2510B	MT/10201		
60128986025	**MW-4-SHALLOW_20120911**	SM 2510B	MT/10201		
60128986026	**MW-5-DEEP_20120911**	SM 2510B	MT/10201		
60128986027	**MW-5-SHALLOW_20120911**	SM 2510B	MT/10201		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60128986028	**MW-6-DEEP_20120911**	SM 2510B	MT/10201		
60128986029	**MW-6-SHALLOW_20120911**	SM 2510B	MT/10201		
60128986001	**DR-1_20120911**	Calculated	MT/10213		
60128986002	**DR-2_20120911**	Calculated	MT/10213		
60128986003	**DR-3_20120911**	Calculated	MT/10213		
60128986004	**DR-4_20120911**	Calculated	MT/10213		
60128986005	**DR-5_20120911**	Calculated	MT/10213		
60128986006	**DR-6_20120911**	Calculated	MT/10213		
60128986007	**DR-7_20120911**	Calculated	MT/10213		
60128986008	**DR-8_20120911**	Calculated	MT/10213		
60128986009	**DR-4-SW_20120911**	Calculated	MT/10213		
60128986010	**DR-G_20120911**	Calculated	MT/10213		
60128986011	**FB_20120911**	Calculated	MT/10213		
60128986012	**GW-1_20120911**	Calculated	MT/10213		
60128986013	**GW-3_20120911**	Calculated	MT/10213		
60128986014	**GW-4_20120911**	Calculated	MT/10213		
60128986015	**GW-5_20120911**	Calculated	MT/10213		
60128986016	**GW-6_20120911**	Calculated	MT/10213		
60128986017	**GW-7_20120911**	Calculated	MT/10213		
60128986018	**EB-1_20120911**	Calculated	MT/10213		
60128986019	**EB-2_20120911**	Calculated	MT/10213		
60128986020	**MW-1-DEEP_20120911**	Calculated	MT/10213		
60128986021	**MW-1-SHALLOW_20120911**	Calculated	MT/10213		
60128986022	**MW-2-DEEP_20120911**	Calculated	MT/10213		
60128986023	**MW-3-DEEP_20120911**	Calculated	MT/10213		
60128986024	**MW-4-DEEP_20120911**	Calculated	MT/10213		
60128986025	**MW-4-SHALLOW_20120911**	Calculated	MT/10213		
60128986026	**MW-5-DEEP_20120911**	Calculated	MT/10213		
60128986027	**MW-5-SHALLOW_20120911**	Calculated	MT/10213		
60128986028	**MW-6-DEEP_20120911**	Calculated	MT/10213		
60128986029	**MW-6-SHALLOW_20120911**	Calculated	MT/10213		
60128986001	**DR-1_20120911**	SM 2320B	WET/37255		
60128986002	**DR-2_20120911**	SM 2320B	WET/37255		
60128986003	**DR-3_20120911**	SM 2320B	WET/37255		
60128986004	**DR-4_20120911**	SM 2320B	WET/37255		
60128986005	**DR-5_20120911**	SM 2320B	WET/37255		
60128986006	**DR-6_20120911**	SM 2320B	WET/37255		
60128986007	**DR-7_20120911**	SM 2320B	WET/37255		
60128986008	**DR-8_20120911**	SM 2320B	WET/37255		
60128986009	**DR-4-SW_20120911**	SM 2320B	WET/37255		
60128986010	**DR-G_20120911**	SM 2320B	WET/37255		
60128986011	**FB_20120911**	SM 2320B	WET/37255		
60128986012	**GW-1_20120911**	SM 2320B	WET/37255		
60128986013	**GW-3_20120911**	SM 2320B	WET/37255		
60128986014	**GW-4_20120911**	SM 2320B	WET/37255		
60128986015	**GW-5_20120911**	SM 2320B	WET/37255		
60128986016	**GW-6_20120911**	SM 2320B	WET/37255		
60128986017	**GW-7_20120911**	SM 2320B	WET/37255		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60128986018	EB-1_20120911	SM 2320B	WET/37309		
60128986019	EB-2_20120911	SM 2320B	WET/37309		
60128986020	MW-1-DEEP_20120911	SM 2320B	WET/37309		
60128986021	MW-1-SHALLOW_20120911	SM 2320B	WET/37309		
60128986022	MW-2-DEEP_20120911	SM 2320B	WET/37309		
60128986023	MW-3-DEEP_20120911	SM 2320B	WET/37309		
60128986024	MW-4-DEEP_20120911	SM 2320B	WET/37309		
60128986025	MW-4-SHALLOW_20120911	SM 2320B	WET/37309		
60128986026	MW-5-DEEP_20120911	SM 2320B	WET/37309		
60128986027	MW-5-SHALLOW_20120911	SM 2320B	WET/37309		
60128986028	MW-6-DEEP_20120911	SM 2320B	WET/37309		
60128986029	MW-6-SHALLOW_20120911	SM 2320B	WET/37309		
60128986001	DR-1_20120911	SM 2540C	WET/37162		
60128986002	DR-2_20120911	SM 2540C	WET/37250		
60128986003	DR-3_20120911	SM 2540C	WET/37162		
60128986004	DR-4_20120911	SM 2540C	WET/37162		
60128986005	DR-5_20120911	SM 2540C	WET/37250		
60128986006	DR-6_20120911	SM 2540C	WET/37250		
60128986007	DR-7_20120911	SM 2540C	WET/37250		
60128986008	DR-8_20120911	SM 2540C	WET/37162		
60128986009	DR-4-SW_20120911	SM 2540C	WET/37250		
60128986010	DR-G_20120911	SM 2540C	WET/37250		
60128986011	FB_20120911	SM 2540C	WET/37250		
60128986012	GW-1_20120911	SM 2540C	WET/37162		
60128986013	GW-3_20120911	SM 2540C	WET/37162		
60128986014	GW-4_20120911	SM 2540C	WET/37162		
60128986015	GW-5_20120911	SM 2540C	WET/37162		
60128986016	GW-6_20120911	SM 2540C	WET/37162		
60128986017	GW-7_20120911	SM 2540C	WET/37162		
60128986018	EB-1_20120911	SM 2540C	WET/37162		
60128986019	EB-2_20120911	SM 2540C	WET/37162		
60128986020	MW-1-DEEP_20120911	SM 2540C	WET/37250		
60128986021	MW-1-SHALLOW_20120911	SM 2540C	WET/37250		
60128986022	MW-2-DEEP_20120911	SM 2540C	WET/37162		
60128986023	MW-3-DEEP_20120911	SM 2540C	WET/37162		
60128986024	MW-4-DEEP_20120911	SM 2540C	WET/37162		
60128986025	MW-4-SHALLOW_20120911	SM 2540C	WET/37162		
60128986026	MW-5-DEEP_20120911	SM 2540C	WET/37162		
60128986027	MW-5-SHALLOW_20120911	SM 2540C	WET/37162		
60128986028	MW-6-DEEP_20120911	SM 2540C	WET/37162		
60128986029	MW-6-SHALLOW_20120911	SM 2540C	WET/37162		
60128986001	DR-1_20120911	SM 2540D	WET/37134		
60128986002	DR-2_20120911	SM 2540D	WET/37230		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60128986003	**DR-3_20120911**	SM 2540D	WET/37134		
60128986004	**DR-4_20120911**	SM 2540D	WET/37134		
60128986005	**DR-5_20120911**	SM 2540D	WET/37230		
60128986006	**DR-6_20120911**	SM 2540D	WET/37230		
60128986007	**DR-7_20120911**	SM 2540D	WET/37230		
60128986008	**DR-8_20120911**	SM 2540D	WET/37134		
60128986009	**DR-4-SW_20120911**	SM 2540D	WET/37230		
60128986010	**DR-G_20120911**	SM 2540D	WET/37230		
60128986011	**FB_20120911**	SM 2540D	WET/37230		
60128986012	**GW-1_20120911**	SM 2540D	WET/37137		
60128986013	**GW-3_20120911**	SM 2540D	WET/37137		
60128986014	**GW-4_20120911**	SM 2540D	WET/37137		
60128986015	**GW-5_20120911**	SM 2540D	WET/37137		
60128986016	**GW-6_20120911**	SM 2540D	WET/37137		
60128986017	**GW-7_20120911**	SM 2540D	WET/37137		
60128986018	**EB-1_20120911**	SM 2540D	WET/37137		
60128986019	**EB-2_20120911**	SM 2540D	WET/37137		
60128986020	**MW-1-DEEP_20120911**	SM 2540D	WET/37230		
60128986021	**MW-1-SHALLOW_20120911**	SM 2540D	WET/37230		
60128986022	**MW-2-DEEP_20120911**	SM 2540D	WET/37137		
60128986023	**MW-3-DEEP_20120911**	SM 2540D	WET/37137		
60128986024	**MW-4-DEEP_20120911**	SM 2540D	WET/37137		
60128986025	**MW-4-SHALLOW_20120911**	SM 2540D	WET/37137		
60128986026	**MW-5-DEEP_20120911**	SM 2540D	WET/37137		
60128986027	**MW-5-SHALLOW_20120911**	SM 2540D	WET/37137		
60128986028	**MW-6-DEEP_20120911**	SM 2540D	WET/37137		
60128986029	**MW-6-SHALLOW_20120911**	SM 2540D	WET/37137		
60128986001	**DR-1_20120911**	SM 4500-S-2 D	WET/37144		
60128986002	**DR-2_20120911**	SM 4500-S-2 D	WET/37147		
60128986003	**DR-3_20120911**	SM 4500-S-2 D	WET/37144		
60128986004	**DR-4_20120911**	SM 4500-S-2 D	WET/37144		
60128986005	**DR-5_20120911**	SM 4500-S-2 D	WET/37147		
60128986006	**DR-6_20120911**	SM 4500-S-2 D	WET/37147		
60128986007	**DR-7_20120911**	SM 4500-S-2 D	WET/37147		
60128986008	**DR-8_20120911**	SM 4500-S-2 D	WET/37144		
60128986009	**DR-4-SW_20120911**	SM 4500-S-2 D	WET/37147		
60128986010	**DR-G_20120911**	SM 4500-S-2 D	WET/37147		
60128986011	**FB_20120911**	SM 4500-S-2 D	WET/37147		
60128986012	**GW-1_20120911**	SM 4500-S-2 D	WET/37144		
60128986013	**GW-3_20120911**	SM 4500-S-2 D	WET/37144		
60128986014	**GW-4_20120911**	SM 4500-S-2 D	WET/37144		
60128986015	**GW-5_20120911**	SM 4500-S-2 D	WET/37144		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60128986016	**GW-6_20120911**	SM 4500-S-2 D	WET/37144		
60128986017	**GW-7_20120911**	SM 4500-S-2 D	WET/37144		
60128986018	**EB-1_20120911**	SM 4500-S-2 D	WET/37144		
60128986019	**EB-2_20120911**	SM 4500-S-2 D	WET/37144		
60128986020	**MW-1-DEEP_20120911**	SM 4500-S-2 D	WET/37147		
60128986021	**MW-1-SHALLOW_20120911**	SM 4500-S-2 D	WET/37147		
60128986022	**MW-2-DEEP_20120911**	SM 4500-S-2 D	WET/37144		
60128986023	**MW-3-DEEP_20120911**	SM 4500-S-2 D	WET/37144		
60128986024	**MW-4-DEEP_20120911**	SM 4500-S-2 D	WET/37144		
60128986025	**MW-4-SHALLOW_20120911**	SM 4500-S-2 D	WET/37144		
60128986026	**MW-5-DEEP_20120911**	SM 4500-S-2 D	WET/37144		
60128986027	**MW-5-SHALLOW_20120911**	SM 4500-S-2 D	WET/37145		
60128986028	**MW-6-DEEP_20120911**	SM 4500-S-2 D	WET/37145		
60128986029	**MW-6-SHALLOW_20120911**	SM 4500-S-2 D	WET/37145		
60128986001	**DR-1_20120911**	EPA 300.0	WETA/21737		
60128986002	**DR-2_20120911**	EPA 300.0	WETA/21737		
60128986003	**DR-3_20120911**	EPA 300.0	WETA/21737		
60128986004	**DR-4_20120911**	EPA 300.0	WETA/21737		
60128986005	**DR-5_20120911**	EPA 300.0	WETA/21737		
60128986006	**DR-6_20120911**	EPA 300.0	WETA/21737		
60128986007	**DR-7_20120911**	EPA 300.0	WETA/21737		
60128986008	**DR-8_20120911**	EPA 300.0	WETA/21737		
60128986009	**DR-4-SW_20120911**	EPA 300.0	WETA/21737		
60128986010	**DR-G_20120911**	EPA 300.0	WETA/21737		
60128986011	**FB_20120911**	EPA 300.0	WETA/21737		
60128986012	**GW-1_20120911**	EPA 300.0	WETA/21737		
60128986013	**GW-3_20120911**	EPA 300.0	WETA/21737		
60128986014	**GW-4_20120911**	EPA 300.0	WETA/21737		
60128986015	**GW-5_20120911**	EPA 300.0	WETA/21737		
60128986016	**GW-6_20120911**	EPA 300.0	WETA/21737		
60128986016	**GW-6_20120911**	EPA 300.0	WETA/21799		
60128986017	**GW-7_20120911**	EPA 300.0	WETA/21737		
60128986018	**EB-1_20120911**	EPA 300.0	WETA/21737		
60128986019	**EB-2_20120911**	EPA 300.0	WETA/21737		
60128986020	**MW-1-DEEP_20120911**	EPA 300.0	WETA/21737		
60128986021	**MW-1-SHALLOW_20120911**	EPA 300.0	WETA/21738		
60128986022	**MW-2-DEEP_20120911**	EPA 300.0	WETA/21738		
60128986023	**MW-3-DEEP_20120911**	EPA 300.0	WETA/21738		
60128986024	**MW-4-DEEP_20120911**	EPA 300.0	WETA/21738		
60128986025	**MW-4-SHALLOW_20120911**	EPA 300.0	WETA/21738		
60128986026	**MW-5-DEEP_20120911**	EPA 300.0	WETA/21738		
60128986027	**MW-5-SHALLOW_20120911**	EPA 300.0	WETA/21738		
60128986028	**MW-6-DEEP_20120911**	EPA 300.0	WETA/21738		
60128986029	**MW-6-SHALLOW_20120911**	EPA 300.0	WETA/21738		
60128986001	**DR-1_20120911**	EPA 353.2	WETA/21657		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60128986002	**DR-2_20120911**	EPA 353.2	WETA/21657		
60128986003	**DR-3_20120911**	EPA 353.2	WETA/21657		
60128986004	**DR-4_20120911**	EPA 353.2	WETA/21657		
60128986005	**DR-5_20120911**	EPA 353.2	WETA/21657		
60128986006	**DR-6_20120911**	EPA 353.2	WETA/21657		
60128986007	**DR-7_20120911**	EPA 353.2	WETA/21657		
60128986008	**DR-8_20120911**	EPA 353.2	WETA/21657		
60128986009	**DR-4-SW_20120911**	EPA 353.2	WETA/21657		
60128986010	**DR-G_20120911**	EPA 353.2	WETA/21657		
60128986011	**FB_20120911**	EPA 353.2	WETA/21657		
60128986012	**GW-1_20120911**	EPA 353.2	WETA/21675		
60128986013	**GW-3_20120911**	EPA 353.2	WETA/21675		
60128986014	**GW-4_20120911**	EPA 353.2	WETA/21675		
60128986015	**GW-5_20120911**	EPA 353.2	WETA/21675		
60128986016	**GW-6_20120911**	EPA 353.2	WETA/21675		
60128986017	**GW-7_20120911**	EPA 353.2	WETA/21675		
60128986018	**EB-1_20120911**	EPA 353.2	WETA/21675		
60128986019	**EB-2_20120911**	EPA 353.2	WETA/21675		
60128986020	**MW-1-DEEP_20120911**	EPA 353.2	WETA/21675		
60128986021	**MW-1-SHALLOW_20120911**	EPA 353.2	WETA/21675		
60128986022	**MW-2-DEEP_20120911**	EPA 353.2	WETA/21675		
60128986023	**MW-3-DEEP_20120911**	EPA 353.2	WETA/21675		
60128986024	**MW-4-DEEP_20120911**	EPA 353.2	WETA/21675		
60128986025	**MW-4-SHALLOW_20120911**	EPA 353.2	WETA/21675		
60128986026	**MW-5-DEEP_20120911**	EPA 353.2	WETA/21675		
60128986027	**MW-5-SHALLOW_20120911**	EPA 353.2	WETA/21675		
60128986028	**MW-6-DEEP_20120911**	EPA 353.2	WETA/21675		
60128986029	**MW-6-SHALLOW_20120911**	EPA 353.2	WETA/21675		
60128986001	**DR-1_20120911**	SM 4500-CN-E	WETA/21721		
60128986002	**DR-2_20120911**	SM 4500-CN-E	WETA/21721		
60128986003	**DR-3_20120911**	SM 4500-CN-E	WETA/21721		
60128986004	**DR-4_20120911**	SM 4500-CN-E	WETA/21721		
60128986005	**DR-5_20120911**	SM 4500-CN-E	WETA/21721		
60128986006	**DR-6_20120911**	SM 4500-CN-E	WETA/21721		
60128986007	**DR-7_20120911**	SM 4500-CN-E	WETA/21721		
60128986008	**DR-8_20120911**	SM 4500-CN-E	WETA/21721		
60128986009	**DR-4-SW_20120911**	SM 4500-CN-E	WETA/21721		
60128986010	**DR-G_20120911**	SM 4500-CN-E	WETA/21721		
60128986011	**FB_20120911**	SM 4500-CN-E	WETA/21721		
60128986012	**GW-1_20120911**	SM 4500-CN-E	WETA/21722		
60128986013	**GW-3_20120911**	SM 4500-CN-E	WETA/21722		
60128986014	**GW-4_20120911**	SM 4500-CN-E	WETA/21722		
60128986015	**GW-5_20120911**	SM 4500-CN-E	WETA/21722		
60128986016	**GW-6_20120911**	SM 4500-CN-E	WETA/21722		
60128986017	**GW-7_20120911**	SM 4500-CN-E	WETA/21722		
60128986018	**EB-1_20120911**	SM 4500-CN-E	WETA/21722		
60128986019	**EB-2_20120911**	SM 4500-CN-E	WETA/21722		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RICO SEPT 2012 WATER SAMPLING
Pace Project No.: 60128986

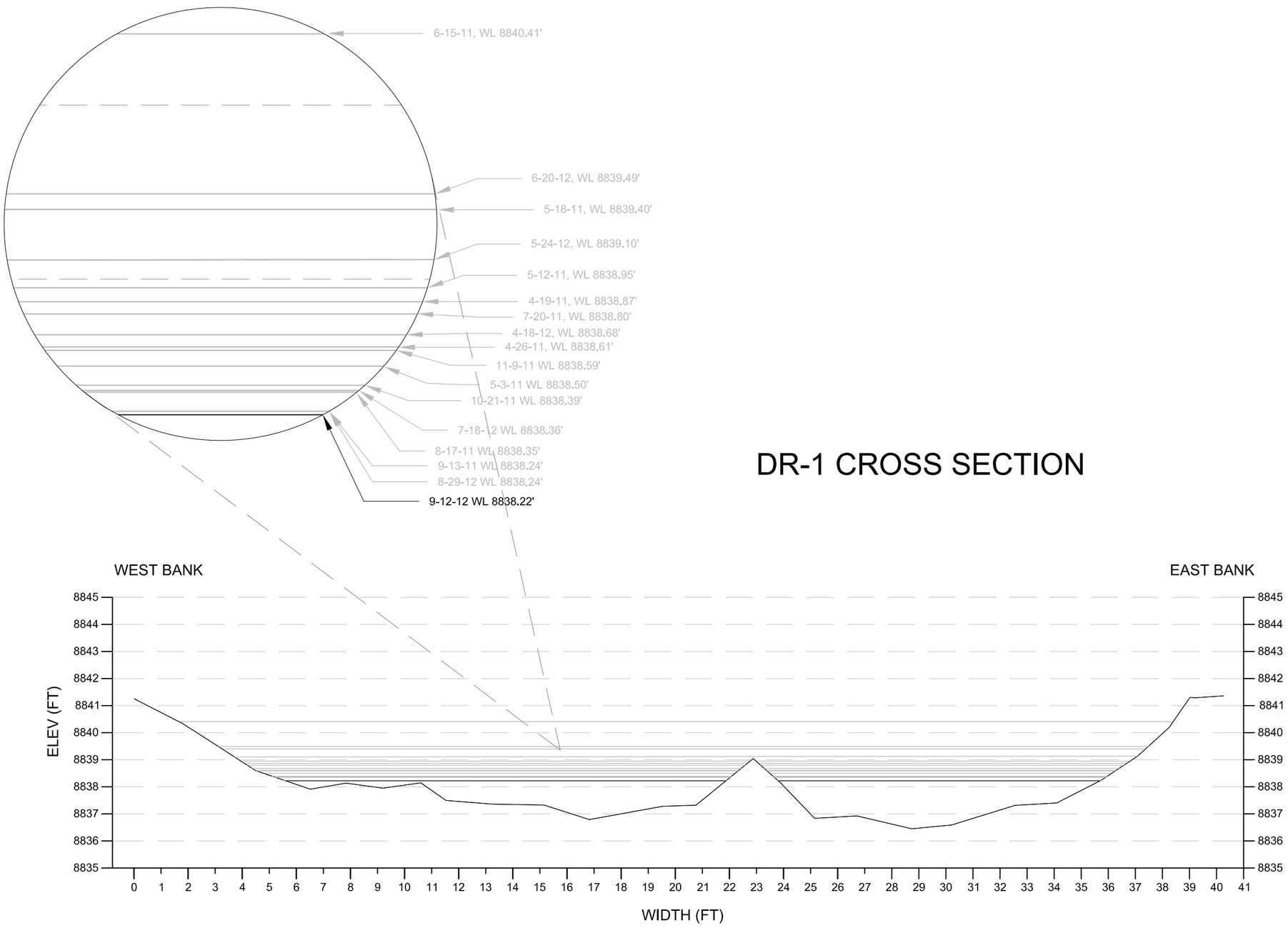
Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60128986020	**MW-1-DEEP_20120911**	SM 4500-CN-E	WETA/21722		
60128986021	**MW-1-SHALLOW_20120911**	SM 4500-CN-E	WETA/21722		
60128986022	**MW-2-DEEP_20120911**	SM 4500-CN-E	WETA/21722		
60128986023	**MW-3-DEEP_20120911**	SM 4500-CN-E	WETA/21722		
60128986024	**MW-4-DEEP_20120911**	SM 4500-CN-E	WETA/21722		
60128986025	**MW-4-SHALLOW_20120911**	SM 4500-CN-E	WETA/21722		
60128986026	**MW-5-DEEP_20120911**	SM 4500-CN-E	WETA/21722		
60128986027	**MW-5-SHALLOW_20120911**	SM 4500-CN-E	WETA/21722		
60128986028	**MW-6-DEEP_20120911**	SM 4500-CN-E	WETA/21722		
60128986029	**MW-6-SHALLOW_20120911**	SM 4500-CN-E	WETA/21722		
60128986001	**DR-1_20120911**	SM 5310C	WETA/21769		
60128986002	**DR-2_20120911**	SM 5310C	WETA/21769		
60128986003	**DR-3_20120911**	SM 5310C	WETA/21769		
60128986004	**DR-4_20120911**	SM 5310C	WETA/21802		
60128986005	**DR-5_20120911**	SM 5310C	WETA/21802		
60128986006	**DR-6_20120911**	SM 5310C	WETA/21802		
60128986007	**DR-7_20120911**	SM 5310C	WETA/21802		
60128986008	**DR-8_20120911**	SM 5310C	WETA/21802		
60128986009	**DR-4-SW_20120911**	SM 5310C	WETA/21802		
60128986010	**DR-G_20120911**	SM 5310C	WETA/21802		
60128986011	**FB_20120911**	SM 5310C	WETA/21802		
60128986012	**GW-1_20120911**	SM 5310C	WETA/21802		
60128986013	**GW-3_20120911**	SM 5310C	WETA/21802		
60128986014	**GW-4_20120911**	SM 5310C	WETA/21802		
60128986015	**GW-5_20120911**	SM 5310C	WETA/21802		
60128986016	**GW-6_20120911**	SM 5310C	WETA/21802		
60128986017	**GW-7_20120911**	SM 5310C	WETA/21802		
60128986018	**EB-1_20120911**	SM 5310C	WETA/21802		
60128986019	**EB-2_20120911**	SM 5310C	WETA/21802		
60128986020	**MW-1-DEEP_20120911**	SM 5310C	WETA/21802		
60128986021	**MW-1-SHALLOW_20120911**	SM 5310C	WETA/21802		
60128986022	**MW-2-DEEP_20120911**	SM 5310C	WETA/21802		
60128986023	**MW-3-DEEP_20120911**	SM 5310C	WETA/21802		
60128986024	**MW-4-DEEP_20120911**	SM 5310C	WETA/21803		
60128986025	**MW-4-SHALLOW_20120911**	SM 5310C	WETA/21803		
60128986026	**MW-5-DEEP_20120911**	SM 5310C	WETA/21803		
60128986027	**MW-5-SHALLOW_20120911**	SM 5310C	WETA/21803		
60128986028	**MW-6-DEEP_20120911**	SM 5310C	WETA/21803		
60128986029	**MW-6-SHALLOW_20120911**	SM 5310C	WETA/21803		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Appendix E

Flow Cross Sections

DR-1 CROSS SECTION



3 **CROSS SECTION AT DR-1**

SCALE - 1" = 4'

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

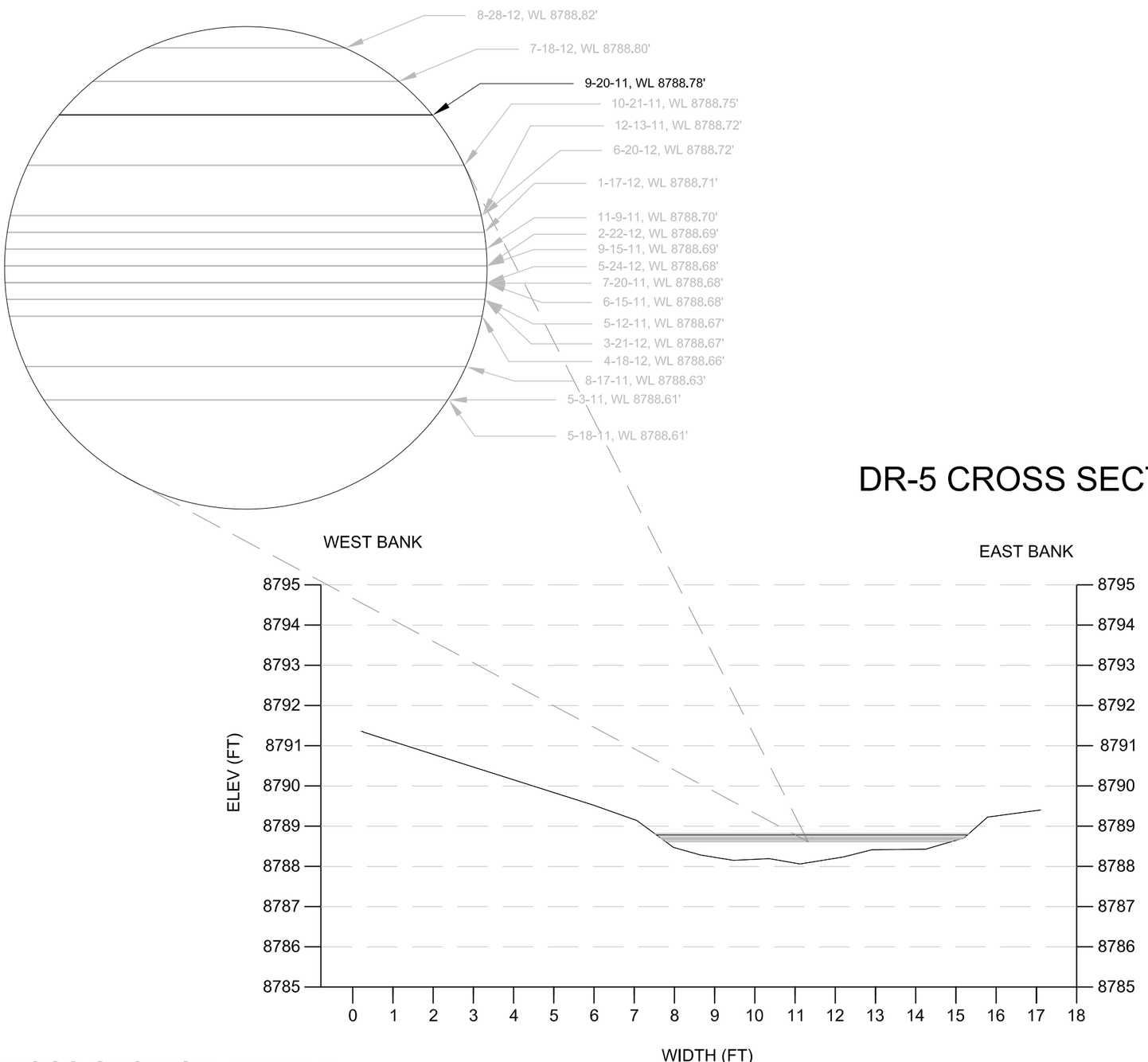
Date 12-SEP-2012

Scale

Figure 3

THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF ANDERSON ENGINEERING COMPANY, INC., 977 WEST 2100 SOUTH, SALT LAKE CITY, UTAH, 84119 AND SHALL NOT BE COPIED, REDUCED, OR REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.

DR-5 CROSS SECTION



4 **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

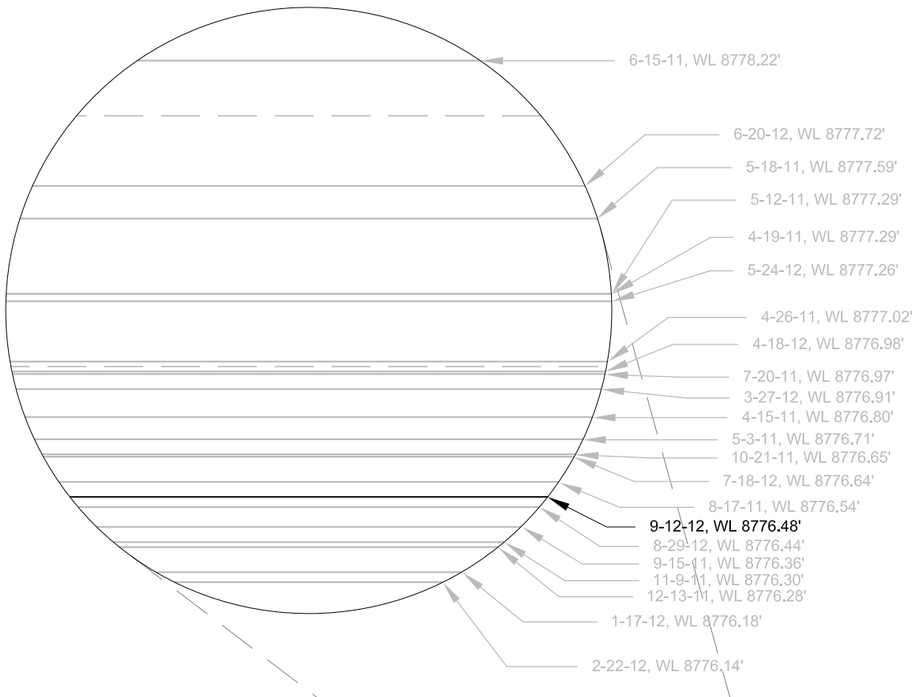
Project

Date 20-SEP-2012

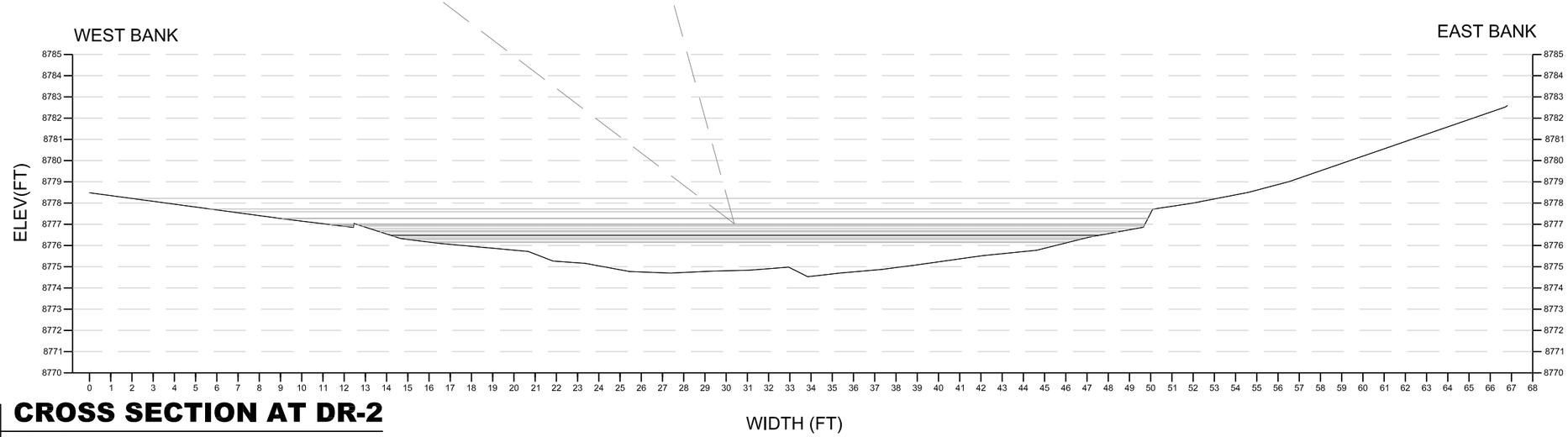
Scale

Figure 4

THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF ANDERSON ENGINEERING COMPANY, INC., 977 WEST 2100 SOUTH, SALT LAKE CITY, UTAH, 84119 AND SHALL NOT BE COPIED, REDUCED, OR REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.



DR-2 CROSS SECTION



5 **CROSS SECTION AT DR-2**

SCALE - 1" = 6'

THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF ANDERSON ENGINEERING COMPANY, INC., 977 WEST 2100 SOUTH, SALT LAKE CITY, UTAH, 84119 AND SHALL NOT BE COPIED, REDUCED, OR REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.

General Notes

Scale in Feet

0 3 6

No.	Revision/Issue	Date

ATLANTIC RICHFIELD COMPANY

ANDERSON
ENGINEERING COMPANY, INC.

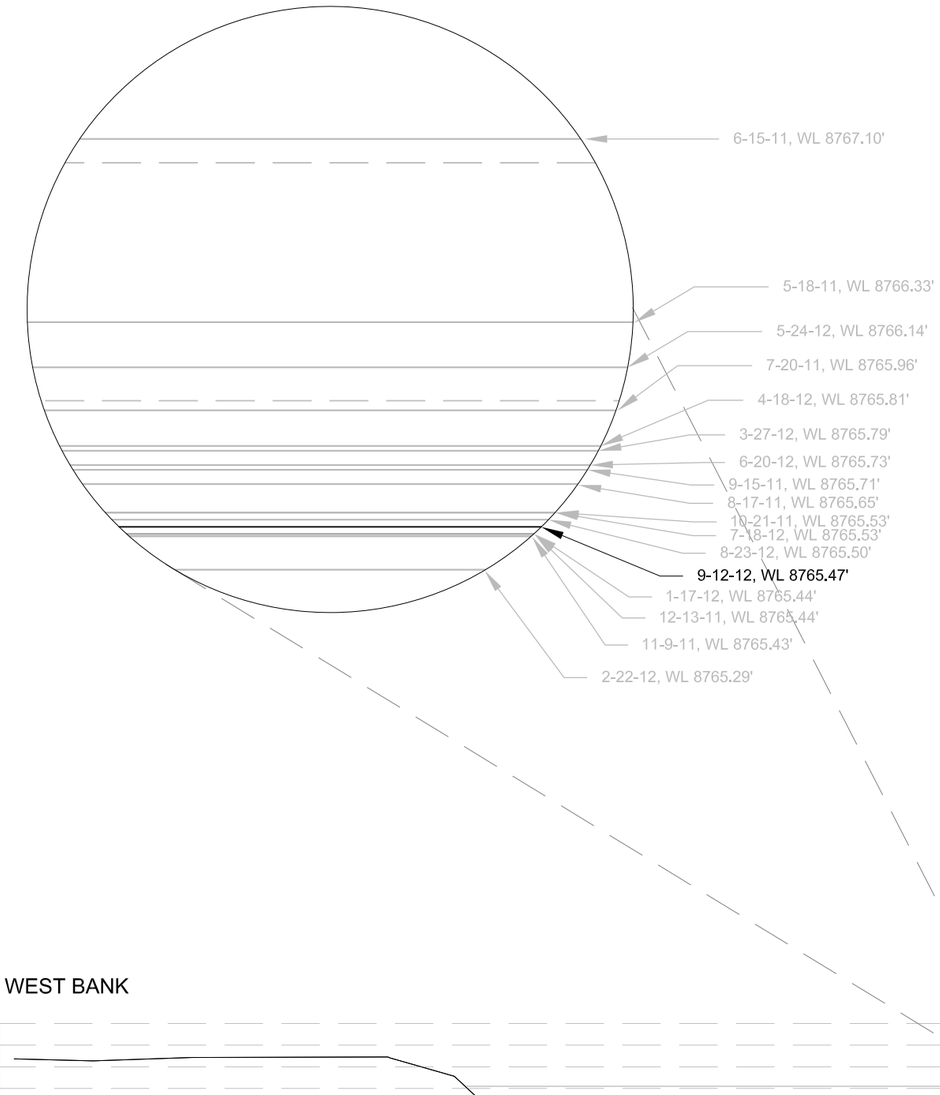
DRAWN BY: MAD
ENGINEER: CS, MAD
APPROVED:

RICO SURFACE WATER SAMPLING

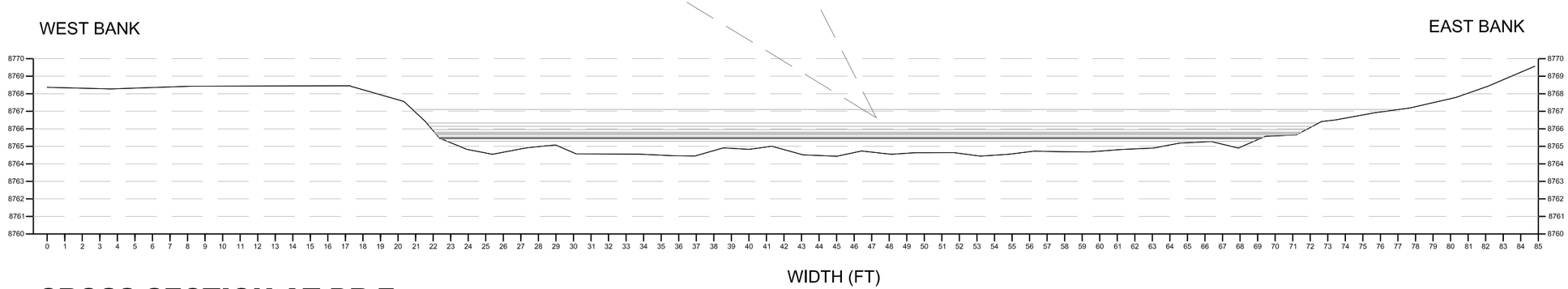
DOLORES RIVER CROSS SECTION AT SAMPLING STATION DR-2

RICO, CO

Project
Date 12-SEPT-2012
Scale
Figure 5



DR-7 CROSS SECTION



6 CROSS SECTION AT DR-7

SCALE - 1" = 7'

THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF ANDERSON ENGINEERING COMPANY, INC., 977 WEST 2100 SOUTH, SALT LAKE CITY, UTAH, 84119 AND SHALL NOT BE COPIED, REDUCED, OR REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.

General Notes

Scale in Feet
0 3.5 7

No.	Revision/Issue	Date

ATLANTIC RICHFIELD COMPANY

ANDERSON
ENGINEERING COMPANY, INC.

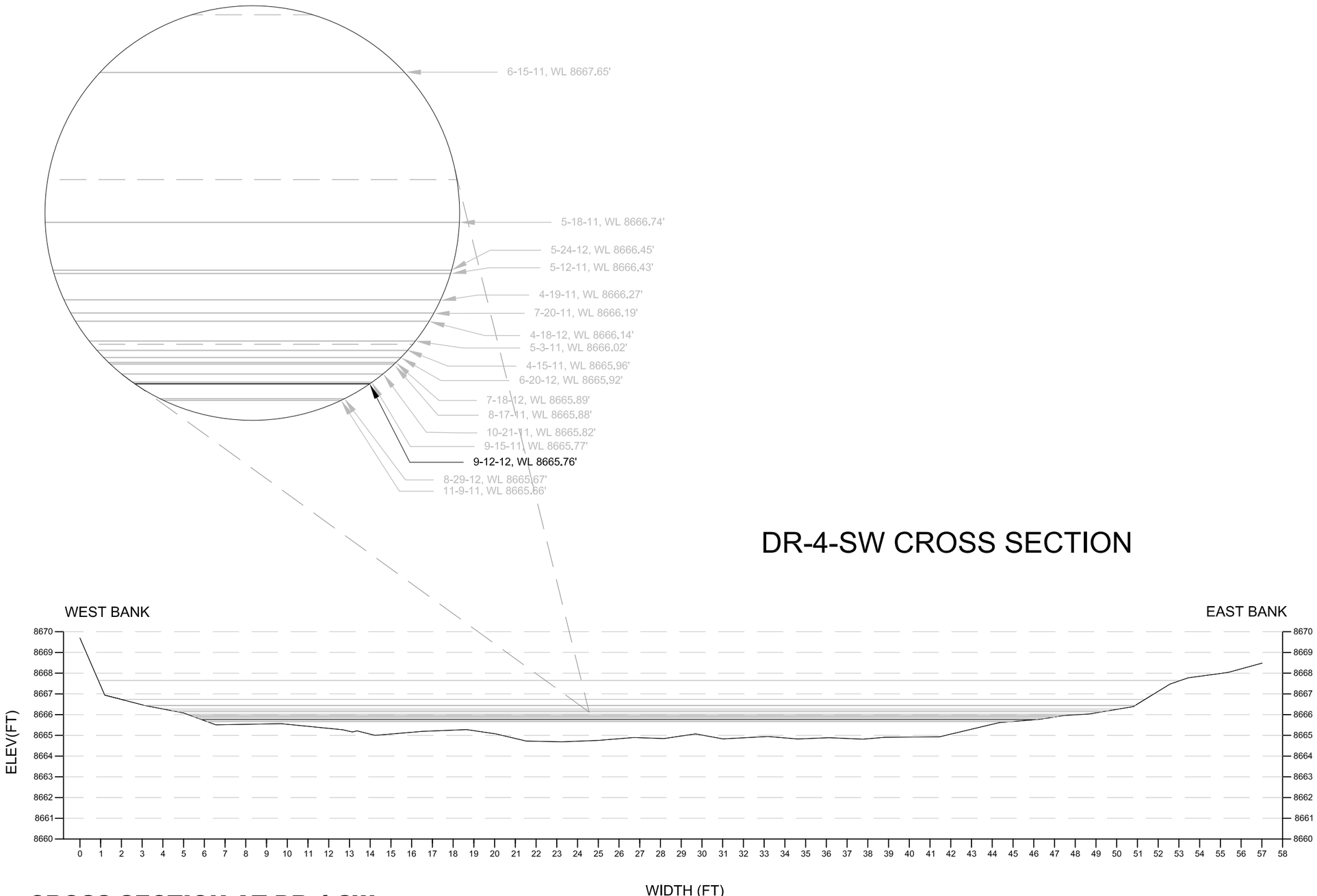
DRAWN BY: MAD
ENGINEER: CS, MAD
APPROVED:

RICO SURFACE WATER SAMPLING

DOLORES RIVER CROSS SECTION AT SAMPLING STATION DR-7

RICO, CO

Project
Date 12-SEP-2012
Scale
Figure 6



DR-4-SW CROSS SECTION

7 **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

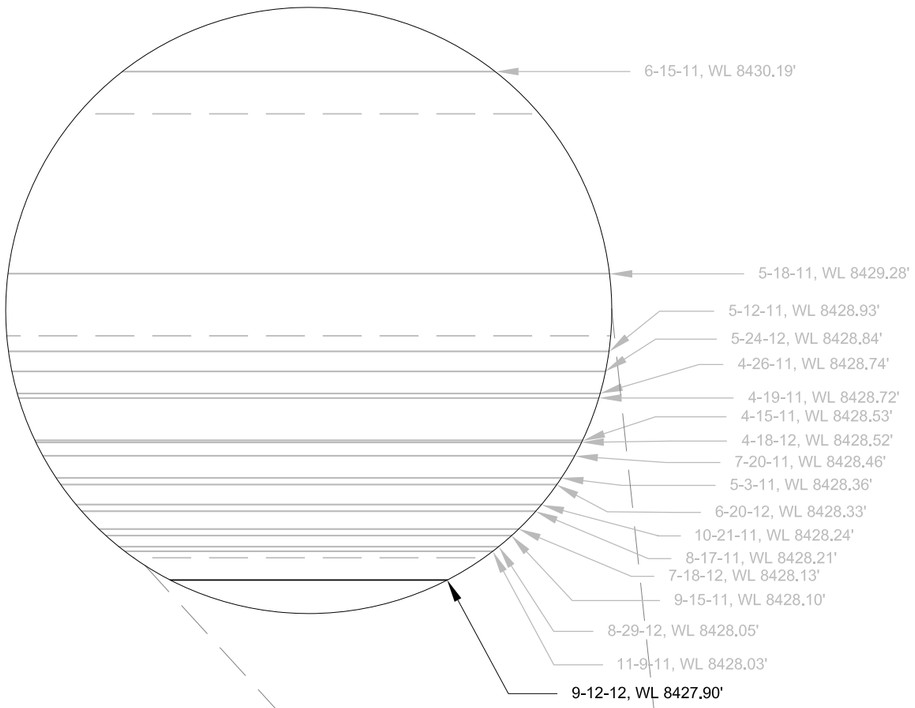
Project

Date 12-SEP-2012

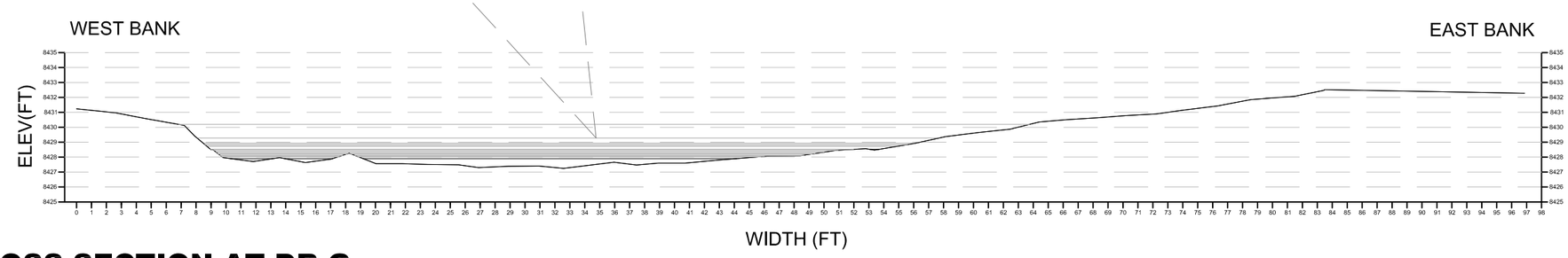
Scale

Figure 7

THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF ANDERSON ENGINEERING COMPANY, INC., 977 WEST 2100 SOUTH, SALT LAKE CITY, UTAH, 84119 AND SHALL NOT BE COPIED, REDUCED, OR REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.



DR-G CROSS SECTION



8 CROSS SECTION AT DR-G

SCALE - 1" = 9'

THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF ANDERSON ENGINEERING COMPANY, INC., 977 WEST 2100 SOUTH, SALT LAKE CITY, UTAH, 84119 AND SHALL NOT BE COPIED, REDUCED, OR REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.

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 12-SEP-2012
Scale
Figure 8

Appendix F

Chain of Custody Records

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# 60128975
Page 1 of 2

Client: BP
Project: Rico September 2012 Dolores River
Discrete Transect Sampling
AECI Contact: Mark DeFriez (801) 234-9583

Lab Name: Pace Analytical
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	
DR-1	RicoDR-1_Sec1_20120912	9/12/2012	2:56 PM	W	8	X	X	X	X	X	X	X	X			Chloride to be added to Alkalinity bottle (not indicated on bottle label)	001
DR-1	RicoDR-1_Sec2_20120912	9/12/2012	2:56 PM	W	8	X	X	X	X	X	X	X	X			Chloride to be added to Alkalinity bottle (not indicated on bottle label)	002
DR-1	RicoDR-1_Sec3_20120912	9/12/2012	2:56 PM	W	8	X	X	X	X	X	X	X	X			Chloride to be added to Alkalinity bottle (not indicated on bottle label)	003
DR-1	RicoDR-1_Sec4_20120912	9/12/2012	2:56 PM	W	8	X	X	X	X	X	X	X	X			Chloride to be added to Alkalinity bottle (not indicated on bottle label)	004
DR-1	RicoDR-1_Sec5_20120912	9/12/2012	2:56 PM	W	8	X	X	X	X	X	X	X	X			Chloride to be added to Alkalinity bottle (not indicated on bottle label)	005
DR-1	RicoDR-1_Sec6_20120912	9/12/2012	2:56 PM	W	8	X	X	X	X	X	X	X	X			Chloride to be added to Alkalinity bottle (not indicated on bottle label)	006
DR-2	RicoDR-2_Sec1_20120912	9/12/2012	1:44 PM	W	8	X	X	X	X	X	X	X	X			Chloride to be added to Alkalinity bottle (not indicated on bottle label)	007
DR-2	RicoDR-2_Sec2_20120912	9/12/2012	1:44 PM	W	8	X	X	X	X	X	X	X	X			Chloride to be added to Alkalinity bottle (not indicated on bottle label)	008
DR-2	RicoDR-2_Sec3_20120912	9/12/2012	1:44 PM	W	8	X	X	X	X	X	X	X	X			Chloride to be added to Alkalinity bottle (not indicated on bottle label)	009
DR-2	RicoDR-2_Sec4_20120912	9/12/2012	1:44 PM	W	8	X	X	X	X	X	X	X	X			Chloride to be added to Alkalinity bottle (not indicated on bottle label)	010
DR-2	RicoDR-2_Sec5_20120912	9/12/2012	1:44 PM	W	8	X	X	X	X	X	X	X	X			Chloride to be added to Alkalinity bottle (not indicated on bottle label)	011
DR-2	RicoDR-2_Sec6_20120912	9/12/2012	1:44 PM	W	8	X	X	X	X	X	X	X	X			Chloride to be added to Alkalinity bottle (not indicated on bottle label)	012
DR-7	RicoDR-7_Sec1_20120912	9/12/2012	12:15 PM	W	8	X	X	X	X	X	X	X	X			Chloride to be added to Alkalinity bottle (not indicated on bottle label)	013
DR-7	RicoDR-7_Sec2_20120912	9/12/2012	12:15 PM	W	8	X	X	X	X	X	X	X	X			Chloride to be added to Alkalinity bottle (not indicated on bottle label)	014
DR-7	RicoDR-7_Sec3_20120912	9/12/2012	12:15 PM	W	8	X	X	X	X	X	X	X	X			Chloride to be added to Alkalinity bottle (not indicated on bottle label)	015
DR-7	RicoDR-7_Sec4_20120912	9/12/2012	12:15 PM	W	8	X	X	X	X	X	X	X	X			Chloride to be added to Alkalinity bottle (not indicated on bottle label)	016
DR-7	RicoDR-7_Sec5_20120912	9/12/2012	12:15 PM	W	8	X	X	X	X	X	X	X	X			Chloride to be added to Alkalinity bottle (not indicated on bottle label)	017
DR-7	RicoDR-7_Sec6_20120912	9/12/2012	12:15 PM	W	8	X	X	X	X	X	X	X	X			Chloride to be added to Alkalinity bottle (not indicated on bottle label)	018
DR-7	RicoDR-7_Sec7_20120912	9/12/2012	12:15 PM	W	8	X	X	X	X	X	X	X	X			Chloride to be added to Alkalinity bottle (not indicated on bottle label)	019
DR-7	RicoDR-7_Sec8_20120912	9/12/2012	12:15 PM	W	8	X	X	X	X	X	X	X	X			Chloride to be added to Alkalinity bottle (not indicated on bottle label)	020

Relinquished By: *signature*	Date	Time	Received By: *signature*		Time	Special Instructions
[signature]	9/13/12	12:30p	[signature] / Pace	9/14/12	1015	5.0, 3.6, 4.6, 5.2, 3.9, 5.6, 3.9
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

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 2 of 2

Client: BP
Project: Rico September 2012 Dolores River
Discrete Transect Sampling
AECI Contact: Mark DeFriez (801) 234-9583

Lab Name: Pace Analytical
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

Lot 128975

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	
DR-4-SW	RicoDR-4-SW_Sec1_20120912	9/12/2012	10:25 AM	W	8	X	X	X	X	X	X	X	X			Chloride to be added to Alkalinity bottle (not indicated on bottle label)	021
DR-4-SW	RicoDR-4-SW_Sec2_20120912	9/12/2012	10:25 AM	W	8	X	X	X	X	X	X	X	X			Chloride to be added to Alkalinity bottle (not indicated on bottle label)	022
DR-4-SW	RicoDR-4-SW_Sec3_20120912	9/12/2012	10:25 AM	W	8	X	X	X	X	X	X	X	X			Chloride to be added to Alkalinity bottle (not indicated on bottle label)	023
DR-4-SW	RicoDR-4-SW_Sec4_20120912	9/12/2012	10:25 AM	W	8	X	X	X	X	X	X	X	X			Chloride to be added to Alkalinity bottle (not indicated on bottle label)	024
DR-4-SW	RicoDR-4-SW_Sec5_20120912	9/12/2012	10:25 AM	W	8	X	X	X	X	X	X	X	X			Chloride to be added to Alkalinity bottle (not indicated on bottle label)	025
DR-4-SW	RicoDR-4-SW_Sec6_20120912	9/12/2012	10:25 AM	W	8	X	X	X	X	X	X	X	X			Chloride to be added to Alkalinity bottle (not indicated on bottle label)	026
DR-4-SW	RicoDR-4-SW_Sec7_20120912	9/12/2012	10:25 AM	W	8	X	X	X	X	X	X	X	X			Chloride to be added to Alkalinity bottle (not indicated on bottle label)	027

Relinquished By: *signature*	Date	Time	Received By: *signature*		Time	Special Instructions
	9/13/12	12:30p		9/14/12	1015	E.0, 2.9, 5.6, 2.9, 5.2, 4.6, 3.6
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

Pace Analytical®
www.pacelabs.com

Sample Condition Upon Receipt – ESI Tech Specs

Client Name: BP Anderson Project #: 60128975

Courier: Fed Ex ☐ UPS ☒ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other ☐ _____

Optional
Proj Due Date: 9/26
Proj Name:

Tracking #: 1Z733W87Y048294540 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-194 / T-194 **Type of Ice:** Wet Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 5.0, 3.6, 4.6, 5.2, 3.9, 5.6, 3.9

Date and initials of person examining contents: JM 9/14/12 1200

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.
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 JM / Lot # of added preservative
Trip Blank present: Pace Trip Blank lot # (if purchased): N/A	☐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: ~~1215~~ 1115		Start: 1145	
End: 1130		End: 1200	
Temp:		Temp:	

Project Manager Review: [signature] Date: 9/14/12

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the NCDENR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers).

F-KS-C-004-Rev.0, 02February2011

Chain of Custody

Pace Analytical®
www.pacelabs.com

Workorder: 60128975 **Workorder Name:** RICO SEPT 2012 DOLORES RIVER **Owner Received Date:** 9/14/2012 **Results Requested By:** 9/26/2012

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												10205758 LAB USE ONLY
1	RICODR-1-SEC1-20120912	PS	9/12/2012 14:56	60128975001	Water	1						X												001
2	RICODR-1-SEC2-20120912	PS	9/12/2012 14:56	60128975002	Water	1						X												002
3	RICODR-1-SEC3-20120912	PS	9/12/2012 14:56	60128975003	Water	1						X												003
4	RICODR-1-SEC4-20120912	PS	9/12/2012 14:56	60128975004	Water	1						X												004
5	RICODR-1-SEC5-20120912	PS	9/12/2012 14:56	60128975005	Water	1						X												005
6	RICODR-1-SEC6-20120912	PS	9/12/2012 14:56	60128975006	Water	1						X												006
7	RICODR-2-SEC1-20120912	PS	9/12/2012 13:44	60128975007	Water	1						X												007
8	RICODR-2-SEC2-20120912	PS	9/12/2012 13:44	60128975008	Water	1						X												008
9	RICODR-2-SEC3-20120912	PS	9/12/2012 13:44	60128975009	Water	1						X												009
10	RICODR-2-SEC4-20120912	PS	9/12/2012 13:44	60128975010	Water	1						X												010
11	RICODR-2-SEC5-20120912	PS	9/12/2012 13:44	60128975011	Water	1						X												011
12	RICODR-2-SEC6-20120912	PS	9/12/2012 13:44	60128975012	Water	1						X												012
13	RICODR-7-SEC1-20120912	PS	9/12/2012 12:15	60128975013	Water	1						X												013
14	RICODR-7-SEC2-20120912	PS	9/12/2012 12:15	60128975014	Water	1						X												014
15	RICODR-7-SEC3-20120912	PS	9/12/2012 12:15	60128975015	Water	1						X												015
16	RICODR-7-SEC4-20120912	PS	9/12/2012 12:15	60128975016	Water	1						X												016
17	RICODR-7-SEC5-20120912	PS	9/12/2012 12:15	60128975017	Water	1						X												017
18	RICODR-7-SEC6-20120912	PS	9/12/2012 12:15	60128975018	Water	1						X												018
19	RICODR-7-SEC7-20120912	PS	9/12/2012 12:15	60128975019	Water	1						X												019

Chain of Custody

Pace Analytical®
www.pacelabs.com

Workorder: 60128975 **Workorder Name:** RICO SEPT 2012 DOLORES RIVER **Owner Received Date:** 9/14/2012 **Results Requested By:** 9/26/2012

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 10205758
20	RICODR-7-SEC8-20120912	PS	9/12/2012 12:15	60128975020	Water	1	X	020
21	RICODR-4-SW-SEC1-20120912	PS	9/12/2012 10:25	60128975021	Water	1	X	021
22	RICODR-4-SW-SEC2-20120912	PS	9/12/2012 10:25	60128975022	Water	1	X	022
23	RICODR-4-SW-SEC3-20120912	PS	9/12/2012 10:25	60128975023	Water	1	X	023
24	RICODR-4-SW-SEC4-20120912	PS	9/12/2012 10:25	60128975024	Water	1	X	024
25	RICODR-4-SW-SEC5-20120912	PS	9/12/2012 10:25	60128975025	Water	1	X	025
26	RICODR-4-SW-SEC6-20120912	PS	9/12/2012 10:25	60128975026	Water	1	X	026
27	RICODR-4-SW-SEC7-20120912	PS	9/12/2012 10:25	60128975027	Water	1	X	027

Transfers	Released By	Date/Time	Received By	Date/Time
1	[illegible]	9/17/12 1700		
2	[illegible]		[illegible] Pace	9/18/12 1130
3				

Comments

Cooler Temperature on Receipt 1.0 °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: 27Jul2012 Page 1 of 1
	Document No.: **F-MT-C-184-rev.01**	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: Pace KS

Project #: WO#: 10205758 (10205758)

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

Tracking Number: 5356 4231 9501

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 **Type of Ice:** ☒ Wet ☐ Blue ☐ None ☒ Samples on ice, cooling process has begun

Cooler Temperature: 1.0 **Biological Tissue Frozen?** ☐ Yes ☒ No **Date and Initials of Person Examining Contents:** MW 9/18/12

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	MW 9/18/12
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? -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
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 #
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): NA				

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: **Date:** 9-18-12

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

1032
1033

10205802

Pace Analytical®
www.pacelabs.com

Workorder: 60128975 **Workorder Name:** RICO SEPT 2012 DOLORES RIVER **Owner Received Date:** 9/14/2012 **Results Requested By:** 9/26/2012

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 metals + Hardness + Silica	200.8 Dissolved metals	245.1 Total Mercury	245.1 Dissolved Mercury									LAB USE ONLY
1	RICODR-1-SEC1-20120912	PS	9/12/2012 14:56	60128975001	Water	2						X	X	X	X									
2	RICODR-1-SEC2-20120912	PS	9/12/2012 14:56	60128975002	Water	2						X	X	X	X									
3	RICODR-1-SEC3-20120912	PS	9/12/2012 14:56	60128975003	Water	2						X	X	X	X									
4	RICODR-1-SEC4-20120912	PS	9/12/2012 14:56	60128975004	Water	2						X	X	X	X									
5	RICODR-1-SEC5-20120912	PS	9/12/2012 14:56	60128975005	Water	2						X	X	X	X									
6	RICODR-1-SEC6-20120912	PS	9/12/2012 14:56	60128975006	Water	2						X	X	X	X									
7	RICODR-2-SEC1-20120912	PS	9/12/2012 13:44	60128975007	Water	2						X	X	X	X									
8	RICODR-2-SEC2-20120912	PS	9/12/2012 13:44	60128975008	Water	2						X	X	X	X									
9	RICODR-2-SEC3-20120912	PS	9/12/2012 13:44	60128975009	Water	2						X	X	X	X									
10	RICODR-2-SEC4-20120912	PS	9/12/2012 13:44	60128975010	Water	2						X	X	X	X									
11	RICODR-2-SEC5-20120912	PS	9/12/2012 13:44	60128975011	Water	2						X	X	X	X									
12	RICODR-2-SEC6-20120912	PS	9/12/2012 13:44	60128975012	Water	2						X	X	X	X									
13	RICODR-7-SEC1-20120912	PS	9/12/2012 12:15	60128975013	Water	2						X	X	X	X									
14	RICODR-7-SEC2-20120912	PS	9/12/2012 12:15	60128975014	Water	2						X	X	X	X									
15	RICODR-7-SEC3-20120912	PS	9/12/2012 12:15	60128975015	Water	2						X	X	X	X									
16	RICODR-7-SEC4-20120912	PS	9/12/2012 12:15	60128975016	Water	2						X	X	X	X									
17	RICODR-7-SEC5-20120912	PS	9/12/2012 12:15	60128975017	Water	2						X	X	X	X									
18	RICODR-7-SEC6-20120912	PS	9/12/2012 12:15	60128975018	Water	2						X	X	X	X									
19	RICODR-7-SEC7-20120912	PS	9/12/2012 12:15	60128975019	Water	2						X	X	X	X									

Chain of Custody

10205402

Pace Analytical®
www.pacelabs.com

Workorder: 60128975 **Workorder Name:** RICO SEPT 2012 DOLORES RIVER **Owner Received Date:** 9/14/2012 **Results Requested By:** 9/26/2012

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 metals + Hardness + Silica	200.8 Dissolved metals	245.1 Total Mercury	245.1 Dissolved Mercury									LAB USE ONLY
20	RICODR-7-SEC8-20120912	PS	9/12/2012 12:15	60128975020	Water	2						X	X	X	X									
21	RICODR-4-SW-SEC1-20120912	PS	9/12/2012 10:25	60128975021	Water	2						X	X	X	X									
22	RICODR-4-SW-SEC2-20120912	PS	9/12/2012 10:25	60128975022	Water	2						X	X	X	X									
23	RICODR-4-SW-SEC3-20120912	PS	9/12/2012 10:25	60128975023	Water	2						X	X	X	X									
24	RICODR-4-SW-SEC4-20120912	PS	9/12/2012 10:25	60128975024	Water	2						X	X	X	X									
25	RICODR-4-SW-SEC5-20120912	PS	9/12/2012 10:25	60128975025	Water	2						X	X	X	X									
26	RICODR-4-SW-SEC6-20120912	PS	9/12/2012 10:25	60128975026	Water	2						X	X	X	X									
27	RICODR-4-SW-SEC7-20120912	PS	9/12/2012 10:25	60128975027	Water	2						X	X	X	X									

Transfers	Released By	Date/Time	Received By	Date/Time
1	[illegible]	9/13/12 [illegible]	JN/Pace	9/18/12 1008
2				
3				

Comments: Use profile 26985

Cooler Temperature on Receipt 11.1 °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: 22Aug2012 Page 1 of 1
	Document No.: **F-MN-L-213-rev.04**	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: Pace KS

Project #: WO# : 10205802

10205802

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other: _____

Tracking Number: 5356 4231 9567

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: ☒ 888A912167504 ☐ 80512447 **Type of Ice:** ☐ Wet ☐ Blue ☒ None ☐ Samples on ice, cooling process has begun

Cooler Temperature: 1.1 **Biological Tissue Frozen?** ☐ Yes ☐ No **Date and Initials of Person Examining Contents:** 9/8/12 TN

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/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?	☒ Yes	☐ No	☐ N/A	12.
-Includes Date/Time/ID/Analysis Matrix: WT				
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 # All 2/2
Exceptions: VOA, Coliform, TOC, Oil and Grease, WI-DRO (water)	☐ Yes	☒ No		Initial when completed: TN 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 metals only

Project Manager Review: _____ **Date:** 9/19/12

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)

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# 60128946
Page 1 of 2

Client: BP
Project: Rico September 2012 Water Sampling
AECI Contact: Mark DeFriez (801) 234-9583

Lab Name: Pace Analytical
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	
DR-1 1BP3U	1BP3S 2BP3U 1.5 DR-1_20120911 1BP3F 1.5 1BP32 11.0	9/11/2012	12:40 PM	W	8	X	X	X	X	X	X	X	X	1BP3C 11.5		Chloride to be added to Alkalinity bottle (not indicated on bottle label)	001
DR-2	DR-2_20120911	9/13/2012	9:45 AM	W	8	X	X	X	X	X	X	X	X			Chloride to be added to Alkalinity bottle (not indicated on bottle label)	002
DR-3	DR-3_20120911	9/11/2012	1:17 PM	W	8	X	X	X	X	X	X	X	X			Chloride to be added to Alkalinity bottle (not indicated on bottle label)	003
DR-4	DR-4_20120911	9/11/2012	2:30 PM	W	8	X	X	X	X	X	X	X	X			Chloride to be added to Alkalinity bottle (not indicated on bottle label)	004
DR-5	DR-5_20120911	9/13/2012	9:53 AM	W	8	X	X	X	X	X	X	X	X			Chloride to be added to Alkalinity bottle (not indicated on bottle label)	005
DR-6	DR-6_20120911	9/13/2012	10:00 AM	W	8	X	X	X	X	X	X	X	X			Chloride to be added to Alkalinity bottle (not indicated on bottle label)	006
DR-7	DR-7_20120911	9/13/2012	10:03 AM	W	8	X	X	X	X	X	X	X	X			Chloride to be added to Alkalinity bottle (not indicated on bottle label)	007
DR-8	DR-8_20120911	9/11/2012	1:30 PM	W	8	X	X	X	X	X	X	X	X			Chloride to be added to Alkalinity bottle (not indicated on bottle label)	008
DR-4-SW	DR-4-SW_20120911	9/13/2012	10:47 AM	W	8	X	X	X	X	X	X	X	X			Chloride to be added to Alkalinity bottle (not indicated on bottle label)	009
DR-G	DR-G_20120911	9/13/2012	10:52 AM	W	8	X	X	X	X	X	X	X	X			Chloride to be added to Alkalinity bottle (not indicated on bottle label)	010
FB	FB_20120911	9/13/2012	10:58 AM	W	8	X	X	X	X	X	X	X	X			Chloride to be added to Alkalinity bottle (not indicated on bottle label)	011
GW-1	GW-1_20120911	9/11/2012	12:46 PM	W	8	X	X	X	X	X	X	X	X			Chloride to be added to Alkalinity bottle (not indicated on bottle label)	012
GW-3	GW-3_20120911	9/11/2012	8:16 AM	W	8	X	X	X	X	X	X	X	X			Chloride to be added to Alkalinity bottle (not indicated on bottle label)	013
GW-4	GW-4_20120911	9/11/2012	3:14 PM	W	8	X	X	X	X	X	X	X	X			Chloride to be added to Alkalinity bottle (not indicated on bottle label)	014
GW-5	GW-5_20120911	9/11/2012	1:35 PM	W	8	X	X	X	X	X	X	X	X			Chloride to be added to Alkalinity bottle (not indicated on bottle label)	015
GW-6	GW-6_20120911	9/11/2012	2:40 PM	W	8	X	X	X	X	X	X	X	X			Chloride to be added to Alkalinity bottle (not indicated on bottle label)	016
GW-7	GW-7_20120911	9/11/2012	2:00 PM	W	8	X	X	X	X	X	X	X	X			Chloride to be added to Alkalinity bottle (not indicated on bottle label)	017
EB-1	EB-1_20120911	9/11/2012	1:51 PM	W	8	X	X	X	X	X	X	X	X			Chloride to be added to Alkalinity bottle (not indicated on bottle label)	018
EB-2	EB-2_20120911 1BP32	9/11/2012	3:43 PM	W	8	X	X	X	X	X	X	X	X			Chloride to be added to Alkalinity bottle (not indicated on bottle label)	019

Relinquished By: *signature*	Date	Time	Received By: *signature*		Time	Special Instructions
	9/13/12	12:30p		9/14/12	1015	3.6 5.8 5.1 4.0 1.6 1.8 4.4 5.7
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

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# 60128986
Page 2 of 2

Client: BP
Project: Rico September 2012 Water Sampling
AECI Contact: Mark DeFriez (801) 234-9583

Lab Name: Pace Analytical
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	
MW-1 DEEP	MW-1 DEEP_20120911	9/13/2012	9:02 AM	W	8	X	X	X	X	X	X	X	X			Chloride to be added to Alkalinity bottle (not indicated on bottle label)	020
MW-1 SHALLOW	MW-1 SHALLOW_20120911	9/13/2012	8:45 AM	W	8	X	X	X	X	X	X	X	X			Chloride to be added to Alkalinity bottle (not indicated on bottle label)	021
MW-2 DEEP	MW-2 DEEP_20120911	9/11/2012	9:18 AM	W	8	X	X	X	X	X	X	X	X			Chloride to be added to Alkalinity bottle (not indicated on bottle label)	022
MW-3 DEEP	MW-3 DEEP_20120911	9/11/2012	3:22 PM	W	8	X	X	X	X	X	X	X	X			Chloride to be added to Alkalinity bottle (not indicated on bottle label)	023
MW-4 DEEP	MW-4 DEEP_20120911	9/11/2012	4:14 PM	W	8	X	X	X	X	X	X	X	X			Chloride to be added to Alkalinity bottle (not indicated on bottle label)	024
MW-4 SHALLOW	MW-4 SHALLOW_20120911	9/11/2012	8:28 AM	W	8	X	X	X	X	X	X	X	X			Chloride to be added to Alkalinity bottle (not indicated on bottle label)	025
MW-5 DEEP	MW-5 DEEP_20120911	9/11/2012	2:57 PM	W	8	X	X	X	X	X	X	X	X			Chloride to be added to Alkalinity bottle (not indicated on bottle label)	026
MW-5 SHALLOW	MW-5 SHALLOW_20120911	9/11/2012	2:52 PM	W	8	X	X	X	X	X	X	X	X			Chloride to be added to Alkalinity bottle (not indicated on bottle label)	027
MW-6 DEEP	MW-6 DEEP_20120911	9/11/2012	4:05 PM	W	8	X	X	X	X	X	X	X	X			Chloride to be added to Alkalinity bottle (not indicated on bottle label)	028
MW-6 SHALLOW	MW-6 SHALLOW_20120911	9/11/2012	3:55 PM	W	8	X	X	X	X	X	X	X	X			Chloride to be added to Alkalinity bottle (not indicated on bottle label)	029

Relinquished By: *signature*	Date	Time	Received By: *signature*	Date	Time	Special Instructions
	9/13/12	12:30		9/14/12	1015	3.6 5.8 5.1 4.0 1.6 1.8 4.4 5.7
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

Pace Analytical®
www.pacelabs.com

Sample Condition Upon Receipt – ESI Tech Specs

Client Name: BP Anderson Project #: 60128986

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

Optional
Proj Due Date: 9/26
Proj Name:

Tracking #: on the back 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 ☑~~ PV 9/14/12 Other ☑ zip

Thermometer Used: T-191 / T-194 **Type of Ice:** Wet Blue None (circle one) ☐ Samples received on ice, cooling process has begun.

Cooler Temperature: 3.6/5.8/5.1/4.0/1.6/1.8/4.4/5.7

Date and initials of person examining contents: PV 9/14/12

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:	☑Yes ☐No ☐N/A WT	13.	EB-2 BP32 pH is 7.5
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: 1100	Start:
End: 1120	End:
Temp:	Temp:

Project Manager Review: [signature] Date: 9/14/12

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the NCDENR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers).

F-KS-C-004-Rev.0, 02February2011

Chain of Custody

Pace Analytical®
www.pacelabs.com

Workorder: 60128986 **Workorder Name:** RICO SEPT 2012 WATER SAMPLING **Owner Received Date:** 9/14/2012 **Results Requested By:** 9/26/2012

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												10205784 LAB USE ONLY
1	DR-1-20120911	PS	9/11/2012 12:40	60128986001	Water	1						X												001
2	DR-2-20120911	PS	9/13/2012 09:45	60128986002	Water	1						X												002
3	DR-3-20120911	PS	9/11/2012 13:17	60128986003	Water	1						X												003
4	DR-4-20120911	PS	9/11/2012 14:30	60128986004	Water	1						X												004
5	DR-5-20120911	PS	9/13/2012 09:53	60128986005	Water	1						X												005
6	DR-6-20120911	PS	9/13/2012 10:00	60128986006	Water	1						X												006
7	DR-7-20120911	PS	9/13/2012 10:03	60128986007	Water	1						X												007
8	DR-8-20120911	PS	9/11/2012 13:30	60128986008	Water	1						X												008
9	DR-4-SW-20120911	PS	9/13/2012 10:47	60128986009	Water	1						X												009
10	DR-G-20120911	PS	9/13/2012 10:52	60128986010	Water	1						X												010
11	FB-20120911	PS	9/13/2012 10:58	60128986011	Water	1						X												011
12	GW-1-20120911	PS	9/11/2012 12:46	60128986012	Water	1						X												012
13	GW-3-20120911	PS	9/11/2012 08:16	60128986013	Water	1						X												013
14	GW-4-20120911	PS	9/11/2012 15:14	60128986014	Water	1						X												014
15	GW-5-20120911	PS	9/11/2012 13:35	60128986015	Water	1						X												015
16	GW-6-20120911	PS	9/11/2012 14:40	60128986016	Water	1						X												016
17	GW-7-20120911	PS	9/11/2012 14:00	60128986017	Water	1						X												017
18	EB-1-20120911	PS	9/11/2012 13:51	60128986018	Water	1						X												018
19	EB-2-20120911	PS	9/11/2012 15:43	60128986019	Water	1						X												019

Chain of Custody

Pace Analytical®
www.pacelabs.com

Workorder: 60128986 **Workorder Name:** RICO SEPT 2012 WATER SAMPLING **Owner Received Date:** 9/14/2012 **Results Requested By:** 9/26/2012

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 (102 05784)
20	MW-1-DEEP-20120911	PS	9/13/2012 09:02	60128986020	Water	1	X	020
21	MW-1-SHALLOW-20120911	PS	9/13/2012 08:45	60128986021	Water	1	X	021
22	MW-2-DEEP-20120911	PS	9/11/2012 09:18	60128986022	Water	1	X	022
23	MW-3-DEEP-20120911	PS	9/11/2012 15:22	60128986023	Water	1	X	023
24	MW-4-DEEP-20120911	PS	9/11/2012 16:14	60128986024	Water	1	X	024
25	MW-4-SHALLOW-20120911	PS	9/11/2012 08:28	60128986025	Water	1	X	025
26	MW-5-DEEP-20120911	PS	9/11/2012 14:57	60128986026	Water	1	X	026
27	MW-5-SHALLOW-20120911	PS	9/11/2012 14:52	60128986027	Water	1	X	027
28	MW-6-DEEP-20120911	PS	9/11/2012 16:05	60128986028	Water	1	X	028
29	MW-6-SHALLOW-20120911	PS	9/11/2012 15:55	60128986029	Water	1	X	029

Transfers	Released By	Date/Time	Received By	Date/Time
1	[illegible] Pace	9/13/12 1400		
2	[illegible]		M Walters - Pace	9/13/12 1350
3				

Comments

Cooler Temperature on Receipt 1.0 °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: 27Jul2012 Page 1 of 1
	Document No.: **F-MT-C-184-rev.01**	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: Pace KS

Project #: WO#: 10205784

10205784

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

Tracking Number: 5356 4231 9501

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 **Type of Ice:** ☒ Wet ☐ Blue ☐ None ☒ Samples on ice, cooling process has begun

Cooler Temperature: 1.0 **Biological Tissue Frozen?** ☐ Yes ☒ No **Date and Initials of Person Examining Contents:** MW 9/18/12

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? -Includes Date/Time/ID/Analysis Matrix: _____	☒ 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:** 9-19-12

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

10205792

Pace Analytical®
www.pacelabs.com

Workorder: 60128986 **Workorder Name:** RICO SEPT 2012 WATER SAMPLING **Owner Received Date:** 9/14/2012 **Results Requested By:** 9/26/2012

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 metals + Hardness + Silica	200.8 Dissolved metals	Total Mercury	Dissolved Mercury									LAB USE ONLY
1	DR-1-20120911	PS	9/11/2012 12:40	60128986001	Water	2						X	X	X	X									
2	DR-2-20120911	PS	9/13/2012 09:45	60128986002	Water	2						X	X	X	X									
3	DR-3-20120911	PS	9/11/2012 13:17	60128986003	Water	2						X	X	X	X									
4	DR-4-20120911	PS	9/11/2012 14:30	60128986004	Water	2						X	X	X	X									
5	DR-5-20120911	PS	9/13/2012 09:53	60128986005	Water	2						X	X	X	X									
6	DR-6-20120911	PS	9/13/2012 10:00	60128986006	Water	2						X	X	X	X									
7	DR-7-20120911	PS	9/13/2012 10:03	60128986007	Water	2						X	X	X	X									
8	DR-8-20120911	PS	9/11/2012 13:30	60128986008	Water	2						X	X	X	X									
9	DR-4-SW-20120911	PS	9/13/2012 10:47	60128986009	Water	2						X	X	X	X									
10	DR-G-20120911	PS	9/13/2012 10:52	60128986010	Water	2						X	X	X	X									
11	FB-20120911	PS	9/13/2012 10:58	60128986011	Water	2						X	X	X	X									
12	GW-1-20120911	PS	9/11/2012 12:46	60128986012	Water	2						X	X	X	X									
13	GW-3-20120911	PS	9/11/2012 08:16	60128986013	Water	2						X	X	X	X									
14	GW-4-20120911	PS	9/11/2012 15:14	60128986014	Water	2						X	X	X	X									
15	GW-5-20120911	PS	9/11/2012 13:35	60128986015	Water	2						X	X	X	X									
16	GW-6-20120911	PS	9/11/2012 14:40	60128986016	Water	2						X	X	X	X									
17	GW-7-20120911	PS	9/11/2012 14:00	60128986017	Water	2						X	X	X	X									
18	EB-1-20120911	PS	9/11/2012 13:51	60128986018	Water	2						X	X	X	X									
19	EB-2-20120911	PS	9/11/2012 15:43	60128986019	Water	2						X	X	X	X									

1123131,35

Chain of Custody

Pace Analytical®
www.pacelabs.com

Workorder: 60128986 **Workorder Name:** RICO SEPT 2012 WATER SAMPLING **Owner Received Date:** 9/14/2012 **Results Requested By:** 9/26/2012

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 metals + Hardness + Silica	200.8 Dissolved metals	Total Mercury	Dissolved Mercury									LAB USE ONLY
20	MW-1-DEEP-20120911	PS	9/13/2012 09:02	60128986020	Water	2						X	X	X	X									
21	MW-1-SHALLOW-20120911	PS	9/13/2012 08:45	60128986021	Water	2						X	X	X	X									
22	MW-2-DEEP-20120911	PS	9/11/2012 09:18	60128986022	Water	2						X	X	X	X									
23	MW-3-DEEP-20120911	PS	9/11/2012 15:22	60128986023	Water	2						X	X	X	X									
24	MW-4-DEEP-20120911	PS	9/11/2012 16:14	60128986024	Water	2						X	X	X	X									
25	MW-4-SHALLOW-20120911	PS	9/11/2012 08:28	60128986025	Water	2						X	X	X	X									
26	MW-5-DEEP-20120911	PS	9/11/2012 14:57	60128986026	Water	2						X	X	X	X									
27	MW-5-SHALLOW-20120911	PS	9/11/2012 14:52	60128986027	Water	2						X	X	X	X									
28	MW-6-DEEP-20120911	PS	9/11/2012 16:05	60128986028	Water	2						X	X	X	X									
29	MW-6-SHALLOW-20120911	PS	9/11/2012 15:55	60128986029	Water	2						X	X	X	X									

Transfers	Released By	Date/Time	Received By	Date/Time
1	[signature]	9/14/12 1200	CSI pace	9-18-12 1655
2				
3				

Comments: Use Profile 26985

Cooler Temperature on Receipt 12.2°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: 22Aug2012 Page 1 of 1
	Document No.: **F-MN-L-213-rev.04**	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: Pace ks

Project #: WO#: 10205792

10205792

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

Tracking Number: 335642319578

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: ☑ B88A912167504 ☐ 80512447 **Type of Ice:** ☐ Wet ☐ Blue ☑ None ☐ Samples on ice, cooling process has begun

Cooler Temperature: 12.2 **Biological Tissue Frozen?** ☐ Yes ☐ No **Date and Initials of Person Examining Contents:** CS 9-18-12

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/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?	☑ Yes	☐ No	☐ N/A	12.
-Includes Date/Time/ID/Analysis Matrix: WT				
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 # 22 MW1-6; DR-1-8, GW 1-6, EB-1-3
Exceptions: VOA, Coliform, TOC, Oil and Grease, WI-DRO (water)	☐ Yes	☑ No		Initial when completed: CS 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 of lc metals only.

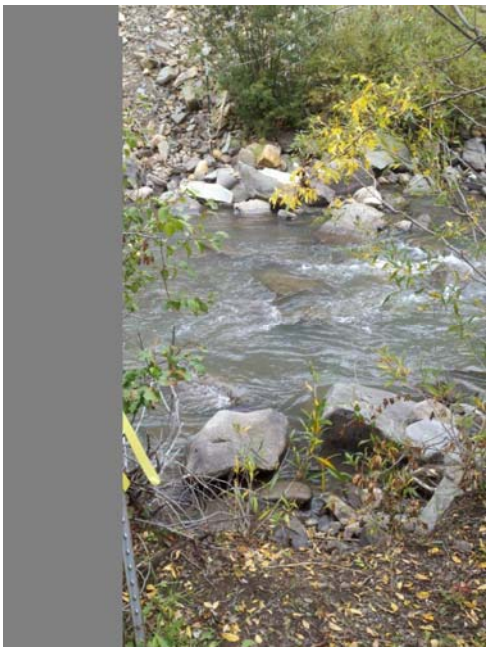
Project Manager Review: _____ **Date:** 9/19/12

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 c hold, incorrect preservative, out of temp, incorrect containers)

Appendix G

Field Photos

September 2012 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 2012 Field Photos

Cross Section at Station DR-4-SW

Cross Section at Station DR-G

Appendix H

Field Log Book Records

Week of
9/10/12 - 9/14/12

Well ID	Collection Date	Time	Depth	pH	T	EC	DO	ORP
GW-a			13.68'					
GW-1	9/14/12	1246	2.66'	7.40	17.01	342	0.88	76.4
GW-3	9/13/12	8:16	13.80	6.29	6.20	846	3.63	70.7
GW-4	9/11/12	314	11.01'	7.02	13.54	898	0.37	-22.1
GW-5	9/11/12	135	22.24'	7.02	12.10	2183	0.72	-40.5
GW-6	9/11/12	240	21.73'	6.62	14.12	2523	0.53	-57.0
GW-7	9/11/12	200	23.09'	6.58	13.17	1496	0.86	62.5
EB-1	9/11/12	151	22.65'	6.97	12.55	2271	0.82	-26.8
EB-2	9/11/12	343	17.00'	6.21	13.36	3521	1.49	-33.6
MW-1D	9/13/12	902	8.41	7.49	14.59	891	2.10	65.3
MW-1S	9/13/12	8:45	5.94'	7.10	14.77	1321	1.61	71.3
MW-2D	~~9/13/12~~	~~918~~	10.13'	~~7.47~~ 7.26	~~14.51~~ 13.13	~~891~~ 1364	~~2.10~~ 1.43	~~65.3~~ 46.8
MW-2S	~~9/13/12~~	~~918~~	DRY		~~1313~~			
MW-3D	9/11/12	322	10.31	7.14	15.64	1377	0.61	-13.7
MW-3S			DRY					
MW-4D	9/11/12	414	17.01'	6.81	13.08	1626	0.91	48.7
MW-4S	9/13/12	8:28	17.07'	6.69	10.77	15.66	1.20	76.9
~~MW-5D~~			17.57'					
MW-5S	9/11/12	252	16.38'	4.18	12.56	3307	0.41	199.8
MW-5D	9/11/12	257	~~23.71~~	6.54	11.72	2369	0.48	-0.42.1
MW-6S	9/11/12	405	23.38'	6.50	11.16	2114	0.66	-26.9
MW6D	9/11/12	3:55	23.31	6.69	11.51	1422	0.67	-6.0

Week of
9/10/12 - 9/14/12

Location	Date Collection	time	pH	T	EC	DO	ORP
DR-1	9/11/12	12:40	8.25	12.60	314	6.44	54.7
DR-2	9/13/12	945	7.99	752	362	5.65	60.4
DR-3	9/11/12	1:17	7.02	19.26	1361	4.41	9.3
DR-4	9/11/12	2:30	7.64	19.68	1543	2.92	67.7
DR-5	9/13/12	9:53 AM	~~7.99~~ TD	~~7.52~~	~~362~~	~~5.65~~	~~60.4~~
DR-6	9/13/12	10:00 AM	7.99	11.80	1492	4.55	66.6
DR-7	9/13/12	10:03 AM	7.29	12.76	1395	3.48	64.3
DR-8	Duplicate of DR-3		7.28	9.44	715	5.74	51.5
~~EB-1~~							
~~EB-2~~							
~~GW~~							
DR-4-SW	9/13/12	10:47	7.68	10.33	472	5.57	60.5
DR-G	9/13/12	10:52	8.40	8.98	432	5.62	55.8
FB	9/13/12	10:58	8.59	13.81	2	5.41	13.4

week of
9/10/12 - 9/14/12

DR-4

upper pipe velocity: Dredging in pond is
upper pipe depth: preventing measurements from being taken at this location

lower pipe velocity: 0 at this
lower pipe depth: time

DR-5 - North Flume
Flume manual depth measurement:
not collected

DR-6 - South Flume
Flume manual depth measurement:
not collected

9/12/12 Wednesday Cloudy 60

950 DR-4-SW
7 Compartment
40 ft Long ≈ 6'
East to West sampling

①	425	µS/cm
	55.7	ORP
	7.75	DO
	7.68	pH
	11.31	°C

②	424	
	59.0	
	7.60	
	7.65	
	11.41	

③	424	
	60.5	
	7.61	
	9.66	
	11.55	

9/12/12

(4)
423
60.2
7.53
7.68
11.76

(5)
423
57.9
7.60
7.69
11.91

(6)
424
58.9
7.49
7.66
12.17

(7) 1:1/1025
428
59.4
6.69
7.58
12.41

9/12/12

DR-4-SW

BM DR-4-SW 2:20

UEL 4:23

V: .0 .2 .35 2.2 1.4 1.4 2.4
2.0 2.2 2.6 1.2 2.0 1.4 .6 1.6
1.8 2.2 2.2 1.4 0.8 2.0 0.6
2.2 3.0 1.6 2.2 2.6 2.0
0.4 0.2 0.8 .0 1.8
.0 .0 .0 0.6 .0 .0

D: .2 .2 .4 .7 .75 .8 .9
1.0 .8 .6 .55 .7 .6 .8 1.0
1.0 1.1 1.0 .9 0.7 0.8 1.1
0.2 0.3 0.4 0.65 0.3 0.4
0.4 0.5 0.35 0.4 0.4
0.3 .0 .0 0.2 .0 .2

9/12/12 Wednesday Cloudy 60

11:46 DR -7

48' wi ≈ 6'

8 compartments

East to West

① 558 µs/cm
54.4 ORP
6.95 DO
7.23 pH
12.41 °C

② 527
54.1
7.02
7.30
12.27

③ 489
60.8
7.08
7.41
12.13

9/12/12

④ 427
60.1
7.21
7.54
11.94

⑤ 398
62.8
7.15
7.56
11.88

⑥ 388
60.6
7.08
7.51
11.89

⑦ 385
~~50.8~~ 55.8
~~7.13~~ 7.13
7.44
11.95

9/12/12

(8) 12:15 / Time
400
47.0
6.99
7.29
12.24

12:19 time cloudy
9/12/12 freeckly 60
OR-7 SM 5:35
wit ELV 9:45

V: 0.00 .04 .02 .04 0.4 0.2 0.6
0.2 0.2 1.2 1.4 1.4 1.0
1.6 0.6 0.8 2.2 2.6 2.8
2.4 2.6 1.2 1.4 1.6 1.8
0.8 1.8 2.2 .0 1.0 1.2
.0 0.0 0.2 2.4 2.0 0.4
2.2 1.4 2.6 0.8 0.2 0.4
0.4 0.8 0.0 0.0 0.0

D: 0.0 .1 .2 0.35 0.4 0.5 0.45
0.55 0.2 0.6 0.6 0.75 0.75
0.8 0.75 0.8 0.3 0.5 0.4
0.4 0.7 0.8 0.9 0.7 0.8
0.6 0.6 0.3 0.2 0.3 0.4
0.4 0.0 0.3 0.5 0.6 0.7
0.7 0.3 0.8 0.3 0.2 0.3
0.5 0.6 0.6 0.2 0.0

Timeend 12:36

9/12/12 12:58 Wednesday Cloudy 60

DR-2

34' wid 6 comparts ≈ 6' 4'

East to West

1	336	µS/cm
	71.7	ORP
	6.88	DO
	8.21	Ph
	12.91	°C
2	323	
	72.8	
	6.81	
	8.22	
	12.91	
3	325	
	77.5	
	6.99	
	8.15	
	12.93	

9/12/12

4	341
	77.6
	6.77
	8.03
	12.99
5	376
	~~56~~ 55.7
	6.20
	7.83
	13.1
6	401
	37.7
	6.15
	7.62
	13.17

13:22 Time End

13:35 9/12/12 Cloudy

DR-2 60

BM 4.73

Wt/Ele 10.84

V: 0.0 .0 .0 .0 0.2 0.0
0.8 0.2 0.2 0.4 0.6
0.8 1.4 1.6 1.6 1.8
1.6 1.0 0.6 1.4 1.0
0.8 0.2 0.8 0.6 0.2
0.0 0.1 0.1 0.0 0.4
.04 .02 .00 0.0

D: 0.0 0.2 0.4 0.8 0.8 0.5
0.3 0.9 1.4 1.5 1.2
1.5 1.3 1.4 0.8 1.1
1.2 1.3 1.5 1.7 1.4
1.35 1.3 1.2 0.9 0.9
0.85 0.6 0.6 .6 .1
.3 .2 .2 0.0

13:44 time end

9/12/12 Wednesday Cloudy 60

22' DR-1 30" wide = 5'

DR-1 BM 5.47

W-Ele 8.61

east to west 6 compartmets

① 283 µS/conn
42.0 ORP
7.1 DO
8.59 Ph
13.12 °C

② 283
50.9
7.00
8.56
13.11

③ 283
54.6
6.79
8.58
13.11

9/12/12

(4) 283
59.2
6.95
8.55
13.13

(5) 283
60.2
6.33
8.58
13.14

(6) 181
61.0
6.31
8.56
13.12

slow moving water 3' Deep

(7) 2:56 Time end

~~2:35~~ 3:00

9/12/12
DR-1 60

V 0.0 0.0 0.0 1.4 .0 2.2
2.6 1.6 0.8 2.4 2.4 2.6
1.8 1.8 0.4 0.2 0.8 2.2
1.4 1.2 0.2 0.4 0.2 0.0
0.0 0.0 0.0 0.2 0.2 0.0
0.2

D 0.0 .1 .2 .2 .2 .15
~~K~~ 500
0.4 0.7 0.7 1.35 1.3 1.3
1.2 0.9 0.9 1.0 1.0 0.5
0.3 0.5 1.0 1.2 1.0 0.4
0.5 0.3 0.1 0.2 0.1 0.0
0.1

3:10 Time End

~~9/12/12 TL~~ 13:46 (Time)

DR - G

V: 0, 0, 0, 0.2, 0, 0.4, 0.2, 0.2, 0.2,
0.4, 1.4, 0.4, 2.2, 2.0, 1.4, 1.2,
1.8, 0.6, 2.2, 0.8, 1.6, 1.0, 1.0, 1.6,
1.6, 0.8, 0.4, 0, 1.2, 0.6, 0.6, 0

D: 0, 1, .2, 2, .4, 0.5, 0.7, 0.7

0.7, 0.7, 0.6, 0.7, 0.8, 1.0, 0.7
0.7, 0.8, 0.9, 0.9, 0.8, 0.8, 0.8, 0.6,
0.6, 0.3, 0.3, 0.1, 0.3, 0.3, 0.2, 0

DRG BM 4.25
WL 8.63

9/20/12 Thursday Clear 80

BM	14/15	4.27	
pond	15	5.88	
~~pond 14~~			
BM	13/14	4.28	
pond	14		6.81
pond	12		8.09
BM	11/12/13	4.97	
pond	11		9.71
pond	12		9.43
pond	13		
BM	9/10	5.53	
pond	9		9.92
pond	10		8.20
BM	7/8	5.17	
pond	7		11.12
pond	8		7.75

Appendix I

North Flume OTT PLS Data with Flowrates

OTT PLS Data at North Flume, September 2012

Date, Time	Depth Reading (ft)	Flowrate (cfs)	Flowrate (gpm)
9/1/2012 0:00	0.59	1.38	620.4
9/1/2012 1:00	0.59	1.38	620.4
9/1/2012 2:00	0.59	1.38	620.4
9/1/2012 3:00	0.59	1.38	620.4
9/1/2012 4:00	0.59	1.38	620.4
9/1/2012 5:00	0.59	1.38	620.4
9/1/2012 6:00	0.59	1.38	620.4
9/1/2012 7:00	0.59	1.38	620.4
9/1/2012 8:00	0.59	1.38	620.4
9/1/2012 9:00	0.59	1.38	620.4
9/1/2012 10:00	0.59	1.38	620.4
9/1/2012 11:00	0.6	1.42	636.4
9/1/2012 12:00	0.6	1.42	636.4
9/1/2012 13:00	0.59	1.38	620.4
9/1/2012 14:00	0.6	1.42	636.4
9/1/2012 15:00	0.6	1.42	636.4
9/1/2012 16:00	0.59	1.38	620.4
9/1/2012 17:00	0.6	1.42	636.4
9/1/2012 18:00	0.59	1.38	620.4
9/1/2012 19:00	0.6	1.42	636.4
9/1/2012 20:00	0.6	1.42	636.4
9/1/2012 21:00	0.6	1.42	636.4
9/1/2012 22:00	0.6	1.42	636.4
9/1/2012 23:00	0.59	1.38	620.4
9/2/2012 0:00	0.6	1.42	636.4
9/2/2012 1:00	0.6	1.42	636.4
9/2/2012 2:00	0.59	1.38	620.4
9/2/2012 3:00	0.59	1.38	620.4
9/2/2012 4:00	0.59	1.38	620.4
9/2/2012 5:00	0.6	1.42	636.4
9/2/2012 6:00	0.59	1.38	620.4
9/2/2012 7:00	0.59	1.38	620.4
9/2/2012 8:00	0.59	1.38	620.4
9/2/2012 9:00	0.59	1.38	620.4
9/2/2012 10:00	0.59	1.38	620.4
9/2/2012 11:00	0.59	1.38	620.4
9/2/2012 12:00	0.6	1.42	636.4
9/2/2012 13:00	0.6	1.42	636.4
9/2/2012 14:00	0.59	1.38	620.4
9/2/2012 15:00	0.59	1.38	620.4
9/2/2012 16:00	0.59	1.38	620.4
9/2/2012 17:00	0.59	1.38	620.4

9/2/2012 18:00	0.59	1.38	620.4
9/2/2012 19:00	0.59	1.38	620.4
9/2/2012 20:00	0.59	1.38	620.4
9/2/2012 21:00	0.59	1.38	620.4
9/2/2012 22:00	0.6	1.42	636.4
9/2/2012 23:00	0.6	1.42	636.4
9/3/2012 0:00	0.6	1.42	636.4
9/3/2012 1:00	0.6	1.42	636.4
9/3/2012 2:00	0.6	1.42	636.4
9/3/2012 3:00	0.59	1.38	620.4
9/3/2012 4:00	0.59	1.38	620.4
9/3/2012 5:00	0.59	1.38	620.4
9/3/2012 6:00	0.6	1.42	636.4
9/3/2012 7:00	0.59	1.38	620.4
9/3/2012 8:00	0.6	1.42	636.4
9/3/2012 9:00	0.59	1.38	620.4
9/3/2012 10:00	0.59	1.38	620.4
9/3/2012 11:00	0.6	1.42	636.4
9/3/2012 12:00	0.59	1.38	620.4
9/3/2012 13:00	0.59	1.38	620.4
9/3/2012 14:00	0.59	1.38	620.4
9/3/2012 15:00	0.6	1.42	636.4
9/3/2012 16:00	0.59	1.38	620.4
9/3/2012 17:00	0.59	1.38	620.4
9/3/2012 18:00	0.59	1.38	620.4
9/3/2012 19:00	0.59	1.38	620.4
9/3/2012 20:00	0.59	1.38	620.4
9/3/2012 21:00	0.6	1.42	636.4
9/3/2012 22:00	0.6	1.42	636.4
9/3/2012 23:00	0.6	1.42	636.4
9/4/2012 0:00	0.59	1.38	620.4
9/4/2012 1:00	0.59	1.38	620.4
9/4/2012 2:00	0.59	1.38	620.4
9/4/2012 3:00	0.6	1.42	636.4
9/4/2012 4:00	0.6	1.42	636.4
9/4/2012 5:00	0.59	1.38	620.4
9/4/2012 6:00	0.59	1.38	620.4
9/4/2012 7:00	0.59	1.38	620.4
9/4/2012 8:00	0.59	1.38	620.4
9/4/2012 9:00	0.6	1.42	636.4
9/4/2012 10:00	0.6	1.42	636.4
9/4/2012 11:00	0.59	1.38	620.4
9/4/2012 12:00	0.6	1.42	636.4
9/4/2012 13:00	0.59	1.38	620.4
9/4/2012 14:00	0.59	1.38	620.4
9/4/2012 15:00	0.59	1.38	620.4
9/4/2012 16:00	0.59	1.38	620.4

9/4/2012 17:00	0.6	1.42	636.4
9/4/2012 18:00	0.59	1.38	620.4
9/4/2012 19:00	0.59	1.38	620.4
9/4/2012 20:00	0.6	1.42	636.4
9/4/2012 21:00	0.59	1.38	620.4
9/4/2012 22:00	0.59	1.38	620.4
9/4/2012 23:00	0.59	1.38	620.4
9/5/2012 0:00	0.6	1.42	636.4
9/5/2012 1:00	0.59	1.38	620.4
9/5/2012 2:00	0.59	1.38	620.4
9/5/2012 3:00	0.59	1.38	620.4
9/5/2012 4:00	0.6	1.42	636.4
9/5/2012 5:00	0.59	1.38	620.4
9/5/2012 6:00	0.59	1.38	620.4
9/5/2012 7:00	0.59	1.38	620.4
9/5/2012 8:00	0.6	1.42	636.4
9/5/2012 9:00	0.59	1.38	620.4
9/5/2012 10:00	0.59	1.38	620.4
9/5/2012 11:00	0.59	1.38	620.4
9/5/2012 12:00	0.59	1.38	620.4
9/5/2012 13:00	0.59	1.38	620.4
9/5/2012 14:00	0.59	1.38	620.4
9/5/2012 15:00	0.6	1.42	636.4
9/5/2012 16:00	0.59	1.38	620.4
9/5/2012 17:00	0.6	1.42	636.4
9/5/2012 18:00	0.59	1.38	620.4
9/5/2012 19:00	0.59	1.38	620.4
9/5/2012 20:00	0.59	1.38	620.4
9/5/2012 21:00	0.59	1.38	620.4
9/5/2012 22:00	0.59	1.38	620.4
9/5/2012 23:00	0.59	1.38	620.4
9/6/2012 0:00	0.59	1.38	620.4
9/6/2012 1:00	0.6	1.42	636.4
9/6/2012 2:00	0.59	1.38	620.4
9/6/2012 3:00	0.59	1.38	620.4
9/6/2012 4:00	0.59	1.38	620.4
9/6/2012 5:00	0.59	1.38	620.4
9/6/2012 6:00	0.59	1.38	620.4
9/6/2012 7:00	0.59	1.38	620.4
9/6/2012 8:00	0.59	1.38	620.4
9/6/2012 9:00	0.59	1.38	620.4
9/6/2012 10:00	0.59	1.38	620.4
9/6/2012 11:00	0.6	1.42	636.4
9/6/2012 12:00	0.59	1.38	620.4
9/6/2012 13:00	0.6	1.42	636.4
9/6/2012 14:00	0.59	1.38	620.4
9/6/2012 15:00	0.59	1.38	620.4

9/6/2012 16:00	0.59	1.38	620.4
9/6/2012 17:00	0.59	1.38	620.4
9/6/2012 18:00	0.59	1.38	620.4
9/6/2012 19:00	0.59	1.38	620.4
9/6/2012 20:00	0.6	1.42	636.4
9/6/2012 21:00	0.59	1.38	620.4
9/6/2012 22:00	0.6	1.42	636.4
9/6/2012 23:00	0.59	1.38	620.4
9/7/2012 0:00	0.59	1.38	620.4
9/7/2012 1:00	0.59	1.38	620.4
9/7/2012 2:00	0.59	1.38	620.4
9/7/2012 3:00	0.59	1.38	620.4
9/7/2012 4:00	0.6	1.42	636.4
9/7/2012 5:00	0.59	1.38	620.4
9/7/2012 6:00	0.6	1.42	636.4
9/7/2012 7:00	0.59	1.38	620.4
9/7/2012 8:00	0.59	1.38	620.4
9/7/2012 9:00	0.59	1.38	620.4
9/7/2012 10:00	0.59	1.38	620.4
9/7/2012 11:00	0.59	1.38	620.4
9/7/2012 12:00	0.59	1.38	620.4
9/7/2012 13:00	0.59	1.38	620.4
9/7/2012 14:00	0.59	1.38	620.4
9/7/2012 15:00	0.59	1.38	620.4
9/7/2012 16:00	0.6	1.42	636.4
9/7/2012 17:00	0.59	1.38	620.4
9/7/2012 18:00	0.6	1.42	636.4
9/7/2012 19:00	0.6	1.42	636.4
9/7/2012 20:00	0.59	1.38	620.4
9/7/2012 21:00	0.6	1.42	636.4
9/7/2012 22:00	0.59	1.38	620.4
9/7/2012 23:00	0.59	1.38	620.4
9/8/2012 0:00	0.59	1.38	620.4
9/8/2012 1:00	0.59	1.38	620.4
9/8/2012 2:00	0.59	1.38	620.4
9/8/2012 3:00	0.59	1.38	620.4
9/8/2012 4:00	0.59	1.38	620.4
9/8/2012 5:00	0.59	1.38	620.4
9/8/2012 6:00	0.59	1.38	620.4
9/8/2012 7:00	0.59	1.38	620.4
9/8/2012 8:00	0.6	1.42	636.4
9/8/2012 9:00	0.6	1.42	636.4
9/8/2012 10:00	0.59	1.38	620.4
9/8/2012 11:00	0.59	1.38	620.4
9/8/2012 12:00	0.59	1.38	620.4
9/8/2012 13:00	0.59	1.38	620.4
9/8/2012 14:00	0.59	1.38	620.4

9/8/2012 15:00	0.59	1.38	620.4
9/8/2012 16:00	0.6	1.42	636.4
9/8/2012 17:00	0.59	1.38	620.4
9/8/2012 18:00	0.59	1.38	620.4
9/8/2012 19:00	0.59	1.38	620.4
9/8/2012 20:00	0.59	1.38	620.4
9/8/2012 21:00	0.59	1.38	620.4
9/8/2012 22:00	0.6	1.42	636.4
9/8/2012 23:00	0.59	1.38	620.4
9/9/2012 0:00	0.59	1.38	620.4
9/9/2012 1:00	0.59	1.38	620.4
9/9/2012 2:00	0.59	1.38	620.4
9/9/2012 3:00	0.59	1.38	620.4
9/9/2012 4:00	0.59	1.38	620.4
9/9/2012 5:00	0.59	1.38	620.4
9/9/2012 6:00	0.59	1.38	620.4
9/9/2012 7:00	0.59	1.38	620.4
9/9/2012 8:00	0.59	1.38	620.4
9/9/2012 9:00	0.59	1.38	620.4
9/9/2012 10:00	0.59	1.38	620.4
9/9/2012 11:00	0.59	1.38	620.4
9/9/2012 12:00	0.59	1.38	620.4
9/9/2012 13:00	0.6	1.42	636.4
9/9/2012 14:00	0.59	1.38	620.4
9/9/2012 15:00	0.59	1.38	620.4
9/9/2012 16:00	0.59	1.38	620.4
9/9/2012 17:00	0.6	1.42	636.4
9/9/2012 18:00	0.6	1.42	636.4
9/9/2012 19:00	0.59	1.38	620.4
9/9/2012 20:00	0.59	1.38	620.4
9/9/2012 21:00	0.6	1.42	636.4
9/9/2012 22:00	0.6	1.42	636.4
9/9/2012 23:00	0.59	1.38	620.4
9/10/2012 0:00	0.6	1.42	636.4
9/10/2012 1:00	0.6	1.42	636.4
9/10/2012 2:00	0.59	1.38	620.4
9/10/2012 3:00	0.59	1.38	620.4
9/10/2012 4:00	0.59	1.38	620.4
9/10/2012 5:00	0.59	1.38	620.4
9/10/2012 6:00	0.59	1.38	620.4
9/10/2012 7:00	0.59	1.38	620.4
9/10/2012 8:00	0.59	1.38	620.4
9/10/2012 9:00	0.59	1.38	620.4
9/10/2012 10:00	0.59	1.38	620.4
9/10/2012 11:00	0.59	1.38	620.4
9/10/2012 12:00	0.59	1.38	620.4
9/10/2012 13:00	0.59	1.38	620.4

9/10/2012 14:00	0.59	1.38	620.4
9/10/2012 15:00	0.6	1.42	636.4
9/10/2012 16:00	0.59	1.38	620.4
9/10/2012 17:00	0.59	1.38	620.4
9/10/2012 18:00	0.59	1.38	620.4
9/10/2012 19:00	0.59	1.38	620.4
9/10/2012 20:00	0.59	1.38	620.4
9/10/2012 21:00	0.59	1.38	620.4
9/10/2012 22:00	0.59	1.38	620.4
9/10/2012 23:00	0.59	1.38	620.4
9/11/2012 0:00	0.59	1.38	620.4
9/11/2012 1:00	0.59	1.38	620.4
9/11/2012 2:00	0.59	1.38	620.4
9/11/2012 3:00	0.59	1.38	620.4
9/11/2012 4:00	0.6	1.42	636.4
9/11/2012 5:00	0.59	1.38	620.4
9/11/2012 6:00	0.59	1.38	620.4
9/11/2012 7:00	0.59	1.38	620.4
9/11/2012 8:00	0.59	1.38	620.4
9/11/2012 9:00	0.59	1.38	620.4
9/11/2012 10:00	0.59	1.38	620.4
9/11/2012 11:00	0.59	1.38	620.4
9/11/2012 12:00	0.59	1.38	620.4
9/11/2012 13:00	0.59	1.38	620.4
9/11/2012 14:00	0.6	1.42	636.4
9/11/2012 15:00	0.6	1.42	636.4
9/11/2012 16:00	0.6	1.42	636.4
9/11/2012 17:00	0.6	1.42	636.4
9/11/2012 18:00	0.6	1.42	636.4
9/11/2012 19:00	0.6	1.42	636.4
9/11/2012 20:00	0.6	1.42	636.4
9/11/2012 21:00	0.6	1.42	636.4
9/11/2012 22:00	0.6	1.42	636.4
9/11/2012 23:00	0.6	1.42	636.4
9/12/2012 0:00	0.6	1.42	636.4
9/12/2012 1:00	0.6	1.42	636.4
9/12/2012 2:00	0.6	1.42	636.4
9/12/2012 3:00	0.6	1.42	636.4
9/12/2012 4:00	0.6	1.42	636.4
9/12/2012 5:00	0.6	1.42	636.4
9/12/2012 6:00	0.6	1.42	636.4
9/12/2012 7:00	0.6	1.42	636.4
9/12/2012 8:00	0.6	1.42	636.4
9/12/2012 9:00	0.6	1.42	636.4
9/12/2012 10:00	0.6	1.42	636.4
9/12/2012 11:00	0.6	1.42	636.4
9/12/2012 12:00	0.6	1.42	636.4

9/12/2012 13:00	0.6	1.42	636.4
9/12/2012 14:00	0.6	1.42	636.4
9/12/2012 15:00	0.6	1.42	636.4
9/12/2012 16:00	0.6	1.42	636.4
9/12/2012 17:00	0.6	1.42	636.4
9/12/2012 18:00	0.6	1.42	636.4
9/12/2012 19:00	0.6	1.42	636.4
9/12/2012 20:00	0.6	1.42	636.4
9/12/2012 21:00	0.6	1.42	636.4
9/12/2012 22:00	0.6	1.42	636.4
9/12/2012 23:00	0.6	1.42	636.4
9/13/2012 0:00	0.6	1.42	636.4
9/13/2012 1:00	0.6	1.42	636.4
9/13/2012 2:00	0.6	1.42	636.4
9/13/2012 3:00	0.6	1.42	636.4
9/13/2012 4:00	0.6	1.42	636.4
9/13/2012 5:00	0.6	1.42	636.4
9/13/2012 6:00	0.6	1.42	636.4
9/13/2012 7:00	0.6	1.42	636.4
9/13/2012 8:00	0.6	1.42	636.4
9/13/2012 9:00	0.6	1.42	636.4
9/13/2012 10:00	0.6	1.42	636.4
9/13/2012 11:00	0.6	1.42	636.4
9/13/2012 12:00	0.6	1.42	636.4
9/13/2012 13:00	0.6	1.42	636.4
9/13/2012 14:00	0.6	1.42	636.4
9/13/2012 15:00	0.6	1.42	636.4
9/13/2012 16:00	0.6	1.42	636.4
9/13/2012 17:00	0.6	1.42	636.4
9/13/2012 18:00	0.6	1.42	636.4
9/13/2012 19:00	0.6	1.42	636.4
9/13/2012 20:00	0.6	1.42	636.4
9/13/2012 21:00	0.6	1.42	636.4
9/13/2012 22:00	0.6	1.42	636.4
9/13/2012 23:00	0.6	1.42	636.4
9/14/2012 0:00	0.6	1.42	636.4
9/14/2012 1:00	0.6	1.42	636.4
9/14/2012 2:00	0.6	1.42	636.4
9/14/2012 3:00	0.6	1.42	636.4
9/14/2012 4:00	0.6	1.42	636.4
9/14/2012 5:00	0.6	1.42	636.4
9/14/2012 6:00	0.6	1.42	636.4
9/14/2012 7:00	0.6	1.42	636.4
9/14/2012 8:00	0.6	1.42	636.4
9/14/2012 9:00	0.6	1.42	636.4
9/14/2012 10:00	0.59	1.38	620.4
9/14/2012 11:00	0.6	1.42	636.4

9/14/2012 12:00	0.6	1.42	636.4
9/14/2012 13:00	0.6	1.42	636.4
9/14/2012 14:00	0.6	1.42	636.4
9/14/2012 15:00	0.6	1.42	636.4
9/14/2012 16:00	0.6	1.42	636.4
9/14/2012 17:00	0.6	1.42	636.4
9/14/2012 18:00	0.6	1.42	636.4
9/14/2012 19:00	0.6	1.42	636.4
9/14/2012 20:00	0.6	1.42	636.4
9/14/2012 21:00	0.6	1.42	636.4
9/14/2012 22:00	0.6	1.42	636.4
9/14/2012 23:00	0.6	1.42	636.4
9/15/2012 0:00	0.6	1.42	636.4
9/15/2012 1:00	0.59	1.38	620.4
9/15/2012 2:00	0.6	1.42	636.4
9/15/2012 3:00	0.6	1.42	636.4
9/15/2012 4:00	0.6	1.42	636.4
9/15/2012 5:00	0.6	1.42	636.4
9/15/2012 6:00	0.6	1.42	636.4
9/15/2012 7:00	0.6	1.42	636.4
9/15/2012 8:00	0.6	1.42	636.4
9/15/2012 9:00	0.6	1.42	636.4
9/15/2012 10:00	0.59	1.38	620.4
9/15/2012 11:00	0.6	1.42	636.4
9/15/2012 12:00	0.6	1.42	636.4
9/15/2012 13:00	0.6	1.42	636.4
9/15/2012 14:00	0.6	1.42	636.4
9/15/2012 15:00	0.6	1.42	636.4
9/15/2012 16:00	0.59	1.38	620.4
9/15/2012 17:00	0.6	1.42	636.4
9/15/2012 18:00	0.6	1.42	636.4
9/15/2012 19:00	0.6	1.42	636.4
9/15/2012 20:00	0.6	1.42	636.4
9/15/2012 21:00	0.6	1.42	636.4
9/15/2012 22:00	0.6	1.42	636.4
9/15/2012 23:00	0.6	1.42	636.4
9/16/2012 0:00	0.6	1.42	636.4
9/16/2012 1:00	0.6	1.42	636.4
9/16/2012 2:00	0.6	1.42	636.4
9/16/2012 3:00	0.6	1.42	636.4
9/16/2012 4:00	0.6	1.42	636.4
9/16/2012 5:00	0.59	1.38	620.4
9/16/2012 6:00	0.6	1.42	636.4
9/16/2012 7:00	0.6	1.42	636.4
9/16/2012 8:00	0.6	1.42	636.4
9/16/2012 9:00	0.6	1.42	636.4
9/16/2012 10:00	0.6	1.42	636.4

9/16/2012 11:00	0.6	1.42	636.4
9/16/2012 12:00	0.6	1.42	636.4
9/16/2012 13:00	0.6	1.42	636.4
9/16/2012 14:00	0.6	1.42	636.4
9/16/2012 15:00	0.6	1.42	636.4
9/16/2012 16:00	0.6	1.42	636.4
9/16/2012 17:00	0.6	1.42	636.4
9/16/2012 18:00	0.6	1.42	636.4
9/16/2012 19:00	0.6	1.42	636.4
9/16/2012 20:00	0.6	1.42	636.4
9/16/2012 21:00	0.6	1.42	636.4
9/16/2012 22:00	0.6	1.42	636.4
9/16/2012 23:00	0.6	1.42	636.4
9/17/2012 0:00	0.6	1.42	636.4
9/17/2012 1:00	0.59	1.38	620.4
9/17/2012 2:00	0.6	1.42	636.4
9/17/2012 3:00	0.6	1.42	636.4
9/17/2012 4:00	0.6	1.42	636.4
9/17/2012 5:00	0.6	1.42	636.4
9/17/2012 6:00	0.6	1.42	636.4
9/17/2012 7:00	0.6	1.42	636.4
9/17/2012 8:00	0.6	1.42	636.4
9/17/2012 9:00	0.6	1.42	636.4
9/17/2012 10:00	0.6	1.42	636.4
9/17/2012 11:00	0.6	1.42	636.4
9/17/2012 12:00	0.6	1.42	636.4
9/17/2012 13:00	0.6	1.42	636.4
9/17/2012 14:00	0.6	1.42	636.4
9/17/2012 15:00	0.6	1.42	636.4
9/17/2012 16:00	0.6	1.42	636.4
9/17/2012 17:00	0.6	1.42	636.4
9/17/2012 18:00	0.6	1.42	636.4
9/17/2012 19:00	0.6	1.42	636.4
9/17/2012 20:00	0.6	1.42	636.4
9/17/2012 21:00	0.6	1.42	636.4
9/17/2012 22:00	0.6	1.42	636.4
9/17/2012 23:00	0.6	1.42	636.4
9/18/2012 0:00	0.6	1.42	636.4
9/18/2012 1:00	0.6	1.42	636.4
9/18/2012 2:00	0.6	1.42	636.4
9/18/2012 3:00	0.6	1.42	636.4
9/18/2012 4:00	0.6	1.42	636.4
9/18/2012 5:00	0.6	1.42	636.4
9/18/2012 6:00	0.6	1.42	636.4
9/18/2012 7:00	0.6	1.42	636.4
9/18/2012 8:00	0.6	1.42	636.4
9/18/2012 9:00	0.6	1.42	636.4

9/18/2012 10:00	0.6	1.42	636.4
9/18/2012 11:00	0.6	1.42	636.4
9/18/2012 12:00	0.6	1.42	636.4
9/18/2012 13:00	0.6	1.42	636.4
9/18/2012 14:00	0.6	1.42	636.4
9/18/2012 15:00	0.6	1.42	636.4
9/18/2012 16:00	0.6	1.42	636.4
9/18/2012 17:00	0.6	1.42	636.4
9/18/2012 18:00	0.6	1.42	636.4
9/18/2012 19:00	0.6	1.42	636.4
9/18/2012 20:00	0.6	1.42	636.4
9/18/2012 21:00	0.6	1.42	636.4
9/18/2012 22:00	0.6	1.42	636.4
9/18/2012 23:00	0.6	1.42	636.4
9/19/2012 0:00	0.6	1.42	636.4
9/19/2012 1:00	0.6	1.42	636.4
9/19/2012 2:00	0.6	1.42	636.4
9/19/2012 3:00	0.6	1.42	636.4
9/19/2012 4:00	0.6	1.42	636.4
9/19/2012 5:00	0.6	1.42	636.4
9/19/2012 6:00	0.6	1.42	636.4
9/19/2012 7:00	0.6	1.42	636.4
9/19/2012 8:00	0.6	1.42	636.4
9/19/2012 9:00	0.6	1.42	636.4
9/19/2012 10:00	0.6	1.42	636.4
9/19/2012 11:00	0.59	1.38	620.4
9/19/2012 12:00	0.59	1.38	620.4
9/19/2012 13:00	0.59	1.38	620.4
9/19/2012 14:00	0.59	1.38	620.4
9/19/2012 15:00	0.59	1.38	620.4
9/19/2012 16:00	0.59	1.38	620.4
9/19/2012 17:00	0.59	1.38	620.4
9/19/2012 18:00	0.59	1.38	620.4
9/19/2012 19:00	0.59	1.38	620.4
9/19/2012 20:00	0.59	1.38	620.4
9/19/2012 21:00	0.59	1.38	620.4
9/19/2012 22:00	0.59	1.38	620.4
9/19/2012 23:00	0.59	1.38	620.4
9/20/2012 0:00	0.59	1.38	620.4
9/20/2012 1:00	0.59	1.38	620.4
9/20/2012 2:00	0.59	1.38	620.4
9/20/2012 3:00	0.59	1.38	620.4
9/20/2012 4:00	0.59	1.38	620.4
9/20/2012 5:00	0.59	1.38	620.4
9/20/2012 6:00	0.59	1.38	620.4
9/20/2012 7:00	0.59	1.38	620.4
9/20/2012 8:00	0.59	1.38	620.4

9/20/2012 9:00	0.59	1.38	620.4
9/20/2012 10:00	0.59	1.38	620.4
9/20/2012 11:00	0.59	1.38	620.4
9/20/2012 12:00	0.59	1.38	620.4
9/20/2012 13:00	0.59	1.38	620.4
9/20/2012 14:00	0.59	1.38	620.4
9/20/2012 15:00	0.59	1.38	620.4
9/20/2012 16:00	0.59	1.38	620.4
9/20/2012 17:00	0.59	1.38	620.4
9/20/2012 18:00	0.59	1.38	620.4
9/20/2012 19:00	0.59	1.38	620.4
9/20/2012 20:00	0.59	1.38	620.4
9/20/2012 21:00	0.59	1.38	620.4
9/20/2012 22:00	0.59	1.38	620.4
9/20/2012 23:00	0.59	1.38	620.4
9/21/2012 0:00	0.59	1.38	620.4
9/21/2012 1:00	0.59	1.38	620.4
9/21/2012 2:00	0.59	1.38	620.4
9/21/2012 3:00	0.59	1.38	620.4
9/21/2012 4:00	0.59	1.38	620.4
9/21/2012 5:00	0.59	1.38	620.4
9/21/2012 6:00	0.59	1.38	620.4
9/21/2012 7:00	0.59	1.38	620.4
9/21/2012 8:00	0.59	1.38	620.4
9/21/2012 9:00	0.59	1.38	620.4
9/21/2012 10:00	0.59	1.38	620.4
9/21/2012 11:00	0.59	1.38	620.4
9/21/2012 12:00	0.59	1.38	620.4
9/21/2012 13:00	0.59	1.38	620.4
9/21/2012 14:00	0.59	1.38	620.4
9/21/2012 15:00	0.59	1.38	620.4
9/21/2012 16:00	0.59	1.38	620.4
9/21/2012 17:00	0.59	1.38	620.4
9/21/2012 18:00	0.59	1.38	620.4
9/21/2012 19:00	0.59	1.38	620.4
9/21/2012 20:00	0.59	1.38	620.4
9/21/2012 21:00	0.59	1.38	620.4
9/21/2012 22:00	0.59	1.38	620.4
9/21/2012 23:00	0.59	1.38	620.4
9/22/2012 0:00	0.59	1.38	620.4
9/22/2012 1:00	0.59	1.38	620.4
9/22/2012 2:00	0.59	1.38	620.4
9/22/2012 3:00	0.59	1.38	620.4
9/22/2012 4:00	0.59	1.38	620.4
9/22/2012 5:00	0.59	1.38	620.4
9/22/2012 6:00	0.59	1.38	620.4
9/22/2012 7:00	0.59	1.38	620.4

9/22/2012 8:00	0.59	1.38	620.4
9/22/2012 9:00	0.59	1.38	620.4
9/22/2012 10:00	0.59	1.38	620.4
9/22/2012 11:00	0.59	1.38	620.4
9/22/2012 12:00	0.59	1.38	620.4
9/22/2012 13:00	0.59	1.38	620.4
9/22/2012 14:00	0.59	1.38	620.4
9/22/2012 15:00	0.59	1.38	620.4
9/22/2012 16:00	0.59	1.38	620.4
9/22/2012 17:00	0.59	1.38	620.4
9/22/2012 18:00	0.59	1.38	620.4
9/22/2012 19:00	0.59	1.38	620.4
9/22/2012 20:00	0.59	1.38	620.4
9/22/2012 21:00	0.59	1.38	620.4
9/22/2012 22:00	0.59	1.38	620.4
9/22/2012 23:00	0.59	1.38	620.4
9/23/2012 0:00	0.59	1.38	620.4
9/23/2012 1:00	0.59	1.38	620.4
9/23/2012 2:00	0.59	1.38	620.4
9/23/2012 3:00	0.59	1.38	620.4
9/23/2012 4:00	0.59	1.38	620.4
9/23/2012 5:00	0.59	1.38	620.4
9/23/2012 6:00	0.59	1.38	620.4
9/23/2012 7:00	0.59	1.38	620.4
9/23/2012 8:00	0.59	1.38	620.4
9/23/2012 9:00	0.59	1.38	620.4
9/23/2012 10:00	0.59	1.38	620.4
9/23/2012 11:00	0.59	1.38	620.4
9/23/2012 12:00	0.59	1.38	620.4
9/23/2012 13:00	0.59	1.38	620.4
9/23/2012 14:00	0.59	1.38	620.4
9/23/2012 15:00	0.59	1.38	620.4
9/23/2012 16:00	0.59	1.38	620.4
9/23/2012 17:00	0.59	1.38	620.4
9/23/2012 18:00	0.59	1.38	620.4
9/23/2012 19:00	0.59	1.38	620.4
9/23/2012 20:00	0.59	1.38	620.4
9/23/2012 21:00	0.59	1.38	620.4
9/23/2012 22:00	0.59	1.38	620.4
9/23/2012 23:00	0.59	1.38	620.4
9/24/2012 0:00	0.59	1.38	620.4
9/24/2012 1:00	0.59	1.38	620.4
9/24/2012 2:00	0.59	1.38	620.4
9/24/2012 3:00	0.59	1.38	620.4
9/24/2012 4:00	0.59	1.38	620.4
9/24/2012 5:00	0.59	1.38	620.4
9/24/2012 6:00	0.59	1.38	620.4

9/24/2012 7:00	0.59	1.38	620.4
9/24/2012 8:00	0.59	1.38	620.4
9/24/2012 9:00	0.59	1.38	620.4
9/24/2012 10:00	0.59	1.38	620.4
9/24/2012 11:00	0.59	1.38	620.4
9/24/2012 12:00	0.59	1.38	620.4
9/24/2012 13:00	0.59	1.38	620.4
9/24/2012 14:00	0.59	1.38	620.4
9/24/2012 15:00	0.59	1.38	620.4
9/24/2012 16:00	0.59	1.38	620.4
9/24/2012 17:00	0.59	1.38	620.4
9/24/2012 18:00	0.59	1.38	620.4
9/24/2012 19:00	0.59	1.38	620.4
9/24/2012 20:00	0.59	1.38	620.4
9/24/2012 21:00	0.59	1.38	620.4
9/24/2012 22:00	0.59	1.38	620.4
9/24/2012 23:00	0.59	1.38	620.4
9/25/2012 0:00	0.59	1.38	620.4
9/25/2012 1:00	0.59	1.38	620.4
9/25/2012 2:00	0.59	1.38	620.4
9/25/2012 3:00	0.59	1.38	620.4
9/25/2012 4:00	0.59	1.38	620.4
9/25/2012 5:00	0.59	1.38	620.4
9/25/2012 6:00	0.59	1.38	620.4
9/25/2012 7:00	0.59	1.38	620.4
9/25/2012 8:00	0.59	1.38	620.4
9/25/2012 9:00	0.59	1.38	620.4
9/25/2012 10:00	0.59	1.38	620.4
9/25/2012 11:00	0.59	1.38	620.4
9/25/2012 12:00	0.59	1.38	620.4
9/25/2012 13:00	0.59	1.38	620.4
9/25/2012 14:00	0.59	1.38	620.4
9/25/2012 15:00	0.59	1.38	620.4
9/25/2012 16:00	0.59	1.38	620.4
9/25/2012 17:00	0.59	1.38	620.4
9/25/2012 18:00	0.59	1.38	620.4
9/25/2012 19:00	0.59	1.38	620.4
9/25/2012 20:00	0.59	1.38	620.4
9/25/2012 21:00	0.59	1.38	620.4
9/25/2012 22:00	0.59	1.38	620.4
9/25/2012 23:00	0.59	1.38	620.4
9/26/2012 0:00	0.59	1.38	620.4
9/26/2012 1:00	0.59	1.38	620.4
9/26/2012 2:00	0.59	1.38	620.4
9/26/2012 3:00	0.59	1.38	620.4
9/26/2012 4:00	0.59	1.38	620.4
9/26/2012 5:00	0.59	1.38	620.4

9/26/2012 6:00	0.59	1.38	620.4
9/26/2012 7:00	0.59	1.38	620.4
9/26/2012 8:00	0.59	1.38	620.4
9/26/2012 9:00	0.59	1.38	620.4
9/26/2012 10:00	0.59	1.38	620.4
9/26/2012 11:00	0.59	1.38	620.4
9/26/2012 12:00	0.59	1.38	620.4
9/26/2012 13:00	0.59	1.38	620.4
9/26/2012 14:00	0.59	1.38	620.4
9/26/2012 15:00	0.59	1.38	620.4
9/26/2012 16:00	0.59	1.38	620.4
9/26/2012 17:00	0.59	1.38	620.4
9/26/2012 18:00	0.59	1.38	620.4
9/26/2012 19:00	0.59	1.38	620.4
9/26/2012 20:00	0.59	1.38	620.4
9/26/2012 21:00	0.59	1.38	620.4
9/26/2012 22:00	0.59	1.38	620.4
9/26/2012 23:00	0.59	1.38	620.4
9/27/2012 0:00	0.59	1.38	620.4
9/27/2012 1:00	0.59	1.38	620.4
9/27/2012 2:00	0.59	1.38	620.4
9/27/2012 3:00	0.59	1.38	620.4
9/27/2012 4:00	0.59	1.38	620.4
9/27/2012 5:00	0.59	1.38	620.4
9/27/2012 6:00	0.59	1.38	620.4
9/27/2012 7:00	0.59	1.38	620.4
9/27/2012 8:00	0.59	1.38	620.4
9/27/2012 9:00	0.59	1.38	620.4
9/27/2012 10:00	0.59	1.38	620.4
9/27/2012 11:00	0.59	1.38	620.4
9/27/2012 12:00	0.59	1.38	620.4
9/27/2012 13:00	0.59	1.38	620.4
9/27/2012 14:00	0.59	1.38	620.4
9/27/2012 15:00	0.59	1.38	620.4
9/27/2012 16:00	0.59	1.38	620.4
9/27/2012 17:00	0.59	1.38	620.4
9/27/2012 18:00	0.59	1.38	620.4
9/27/2012 19:00	0.59	1.38	620.4
9/27/2012 20:00	0.59	1.38	620.4
9/27/2012 21:00	0.59	1.38	620.4
9/27/2012 22:00	0.59	1.38	620.4
9/27/2012 23:00	0.59	1.38	620.4
9/28/2012 0:00	0.59	1.38	620.4
9/28/2012 1:00	0.59	1.38	620.4
9/28/2012 2:00	0.59	1.38	620.4
9/28/2012 3:00	0.59	1.38	620.4
9/28/2012 4:00	0.59	1.38	620.4

9/28/2012 5:00	0.59	1.38	620.4
9/28/2012 6:00	0.59	1.38	620.4
9/28/2012 7:00	0.59	1.38	620.4
9/28/2012 8:00	0.59	1.38	620.4
9/28/2012 9:00	0.59	1.38	620.4
9/28/2012 10:00	0.59	1.38	620.4
9/28/2012 11:00	0.59	1.38	620.4
9/28/2012 12:00	0.59	1.38	620.4
9/28/2012 13:00	0.59	1.38	620.4
9/28/2012 14:00	0.59	1.38	620.4
9/28/2012 15:00	0.59	1.38	620.4
9/28/2012 16:00	0.59	1.38	620.4
9/28/2012 17:00	0.59	1.38	620.4
9/28/2012 18:00	0.59	1.38	620.4
9/28/2012 19:00	0.59	1.38	620.4
9/28/2012 20:00	0.59	1.38	620.4
9/28/2012 21:00	0.59	1.38	620.4
9/28/2012 22:00	0.59	1.38	620.4
9/28/2012 23:00	0.59	1.38	620.4
9/29/2012 0:00	0.59	1.38	620.4
9/29/2012 1:00	0.59	1.38	620.4
9/29/2012 2:00	0.59	1.38	620.4
9/29/2012 3:00	0.59	1.38	620.4
9/29/2012 4:00	0.59	1.38	620.4
9/29/2012 5:00	0.59	1.38	620.4
9/29/2012 6:00	0.59	1.38	620.4
9/29/2012 7:00	0.59	1.38	620.4
9/29/2012 8:00	0.59	1.38	620.4
9/29/2012 9:00	0.59	1.38	620.4
9/29/2012 10:00	0.59	1.38	620.4
9/29/2012 11:00	0.59	1.38	620.4
9/29/2012 12:00	0.59	1.38	620.4
9/29/2012 13:00	0.59	1.38	620.4
9/29/2012 14:00	0.59	1.38	620.4
9/29/2012 15:00	0.59	1.38	620.4
9/29/2012 16:00	0.59	1.38	620.4
9/29/2012 17:00	0.59	1.38	620.4
9/29/2012 18:00	0.59	1.38	620.4
9/29/2012 19:00	0.59	1.38	620.4
9/29/2012 20:00	0.59	1.38	620.4
9/29/2012 21:00	0.59	1.38	620.4
9/29/2012 22:00	0.59	1.38	620.4
9/29/2012 23:00	0.59	1.38	620.4
9/30/2012 0:00	0.59	1.38	620.4
9/30/2012 1:00	0.59	1.38	620.4
9/30/2012 2:00	0.59	1.38	620.4
9/30/2012 3:00	0.59	1.38	620.4

9/30/2012 4:00	0.59	1.38	620.4
9/30/2012 5:00	0.59	1.38	620.4
9/30/2012 6:00	0.59	1.38	620.4
9/30/2012 7:00	0.59	1.38	620.4
9/30/2012 8:00	0.59	1.38	620.4
9/30/2012 9:00	0.59	1.38	620.4
9/30/2012 10:00	0.59	1.38	620.4
9/30/2012 11:00	0.59	1.38	620.4
9/30/2012 12:00	0.59	1.38	620.4
9/30/2012 13:00	0.59	1.38	620.4
9/30/2012 14:00	0.58	1.35	604.6
9/30/2012 15:00	0.58	1.35	604.6
9/30/2012 16:00	0.58	1.35	604.6
9/30/2012 17:00	0.58	1.35	604.6
9/30/2012 18:00	0.59	1.38	620.4
9/30/2012 19:00	0.58	1.35	604.6
9/30/2012 20:00	0.58	1.35	604.6
9/30/2012 21:00	0.58	1.35	604.6
9/30/2012 22:00	0.58	1.35	604.6
9/30/2012 23:00	0.58	1.35	604.6

Appendix J

South Flume Orpheus Mini Data with Flowrates

OTT Opheus Mini Data at South Flume, September 2012

Date	Time	Depth from top of flume to water (ft)	Depth of Flume Total (ft)	Depth of Flow (ft)	Flowrate (cfs)	Flowrate (gpm)
9/1/2012	12:00:00 AM	2.01	2.5	0.49	1.04	468.6
9/1/2012	1:00:00 AM	2.01	2.5	0.49	1.04	468.6
9/1/2012	2:00:00 AM	2.01	2.5	0.49	1.04	468.6
9/1/2012	3:00:00 AM	2.01	2.5	0.49	1.04	468.6
9/1/2012	4:00:00 AM	2.02	2.5	0.48	1.01	454.3
9/1/2012	5:00:00 AM	2.03	2.5	0.47	0.98	440.0
9/1/2012	6:00:00 AM	2.03	2.5	0.47	0.98	440.0
9/1/2012	7:00:00 AM	2.01	2.5	0.49	1.04	468.6
9/1/2012	8:00:00 AM	2.01	2.5	0.49	1.04	468.6
9/1/2012	9:00:00 AM	2.01	2.5	0.49	1.04	468.6
9/1/2012	10:00:00 AM	2.01	2.5	0.49	1.04	468.6
9/1/2012	11:00:00 AM	2.00	2.5	0.50	1.08	483.2
9/1/2012	12:00:00 PM	2.01	2.5	0.49	1.04	468.6
9/1/2012	1:00:00 PM	2.01	2.5	0.49	1.04	468.6
9/1/2012	2:00:00 PM	2.01	2.5	0.49	1.04	468.6
9/1/2012	3:00:00 PM	2.01	2.5	0.49	1.04	468.6
9/1/2012	4:00:00 PM	2.01	2.5	0.49	1.04	468.6
9/1/2012	5:00:00 PM	2.01	2.5	0.49	1.04	468.6
9/1/2012	6:00:00 PM	2.02	2.5	0.48	1.01	454.3
9/1/2012	7:00:00 PM	2.01	2.5	0.49	1.04	468.6
9/1/2012	8:00:00 PM	2.02	2.5	0.48	1.01	454.3
9/1/2012	9:00:00 PM	2.00	2.5	0.50	1.08	483.2
9/1/2012	10:00:00 PM	1.97	2.5	0.53	1.18	527.6
9/1/2012	11:00:00 PM	1.96	2.5	0.54	1.21	542.7
9/2/2012	12:00:00 AM	1.95	2.5	0.55	1.24	558.0
9/2/2012	1:00:00 AM	1.96	2.5	0.54	1.21	542.7
9/2/2012	2:00:00 AM	1.96	2.5	0.54	1.21	542.7
9/2/2012	3:00:00 AM	1.96	2.5	0.54	1.21	542.7
9/2/2012	4:00:00 AM	1.97	2.5	0.53	1.18	527.6
9/2/2012	5:00:00 AM	1.97	2.5	0.53	1.18	527.6
9/2/2012	6:00:00 AM	1.97	2.5	0.53	1.18	527.6
9/2/2012	7:00:00 AM	1.98	2.5	0.52	1.14	512.6
9/2/2012	8:00:00 AM	1.98	2.5	0.52	1.14	512.6
9/2/2012	9:00:00 AM	1.98	2.5	0.52	1.14	512.6
9/2/2012	10:00:00 AM	1.99	2.5	0.51	1.11	497.8
9/2/2012	11:00:00 AM	1.99	2.5	0.51	1.11	497.8
9/2/2012	12:00:00 PM	1.99	2.5	0.51	1.11	497.8
9/2/2012	1:00:00 PM	1.99	2.5	0.51	1.11	497.8
9/2/2012	2:00:00 PM	1.99	2.5	0.51	1.11	497.8
9/2/2012	3:00:00 PM	1.99	2.5	0.51	1.11	497.8
9/2/2012	4:00:00 PM	1.99	2.5	0.51	1.11	497.8
9/2/2012	5:00:00 PM	2.00	2.5	0.50	1.08	483.2
9/2/2012	6:00:00 PM	2.00	2.5	0.50	1.08	483.2

9/2/2012	7:00:00 PM	2.00	2.5	0.50	1.08	483.2
9/2/2012	8:00:00 PM	2.00	2.5	0.50	1.08	483.2
9/2/2012	9:00:00 PM	2.00	2.5	0.50	1.08	483.2
9/2/2012	10:00:00 PM	2.00	2.5	0.50	1.08	483.2
9/2/2012	11:00:00 PM	2.01	2.5	0.49	1.04	468.6
9/3/2012	12:00:00 AM	2.03	2.5	0.47	0.98	440.0
9/3/2012	1:00:00 AM	2.05	2.5	0.45	0.92	412.1
9/3/2012	2:00:00 AM	2.04	2.5	0.46	0.95	426.0
9/3/2012	3:00:00 AM	2.04	2.5	0.46	0.95	426.0
9/3/2012	4:00:00 AM	2.03	2.5	0.47	0.98	440.0
9/3/2012	5:00:00 AM	2.04	2.5	0.46	0.95	426.0
9/3/2012	6:00:00 AM	2.18	2.5	0.32	0.55	246.2
9/3/2012	7:00:00 AM	2.33	2.5	0.17	0.21	94.7
9/3/2012	8:00:00 AM	2.31	2.5	0.19	0.25	112.0
9/3/2012	9:00:00 AM	2.19	2.5	0.31	0.52	234.7
9/3/2012	10:00:00 AM	2.13	2.5	0.37	0.68	306.6
9/3/2012	11:00:00 AM	2.02	2.5	0.48	1.01	454.3
9/3/2012	12:00:00 PM	1.99	2.5	0.51	1.11	497.8
9/3/2012	1:00:00 PM	1.99	2.5	0.51	1.11	497.8
9/3/2012	2:00:00 PM	1.98	2.5	0.52	1.14	512.6
9/3/2012	3:00:00 PM	1.98	2.5	0.52	1.14	512.6
9/3/2012	4:00:00 PM	1.99	2.5	0.51	1.11	497.8
9/3/2012	5:00:00 PM	1.99	2.5	0.51	1.11	497.8
9/3/2012	6:00:00 PM	1.99	2.5	0.51	1.11	497.8
9/3/2012	7:00:00 PM	2.00	2.5	0.50	1.08	483.2
9/3/2012	8:00:00 PM	2.01	2.5	0.49	1.04	468.6
9/3/2012	9:00:00 PM	2.00	2.5	0.50	1.08	483.2
9/3/2012	10:00:00 PM	2.01	2.5	0.49	1.04	468.6
9/3/2012	11:00:00 PM	2.00	2.5	0.50	1.08	483.2
9/4/2012	12:00:00 AM	2.18	2.5	0.32	0.55	246.2
9/4/2012	1:00:00 AM	2.26	2.5	0.24	0.36	159.4
9/4/2012	2:00:00 AM	2.13	2.5	0.37	0.68	306.6
9/4/2012	3:00:00 AM	2.13	2.5	0.37	0.68	306.6
9/4/2012	4:00:00 AM	2.21	2.5	0.29	0.47	212.2
9/4/2012	5:00:00 AM	2.15	2.5	0.35	0.63	281.9
9/4/2012	6:00:00 AM	2.11	2.5	0.39	0.74	332.0
9/4/2012	7:00:00 AM	1.99	2.5	0.51	1.11	497.8
9/4/2012	8:00:00 AM	1.93	2.5	0.57	1.31	588.9
9/4/2012	9:00:00 AM	1.37	2.5	1.13	3.69	1655.8
9/4/2012	10:00:00 AM	1.75	2.5	0.75	1.99	891.5
9/4/2012	11:00:00 AM	1.66	2.5	0.84	2.36	1057.9
9/4/2012	12:00:00 PM	1.83	2.5	0.67	1.68	751.8
9/4/2012	1:00:00 PM	1.93	2.5	0.57	1.31	588.9
9/4/2012	2:00:00 PM	1.96	2.5	0.54	1.21	542.7
9/4/2012	3:00:00 PM	1.98	2.5	0.52	1.14	512.6
9/4/2012	4:00:00 PM	1.99	2.5	0.51	1.11	497.8
9/4/2012	5:00:00 PM	1.99	2.5	0.51	1.11	497.8

9/4/2012	6:00:00 PM	2.00	2.5	0.50	1.08	483.2
9/4/2012	7:00:00 PM	2.01	2.5	0.49	1.04	468.6
9/4/2012	8:00:00 PM	2.01	2.5	0.49	1.04	468.6
9/4/2012	9:00:00 PM	2.02	2.5	0.48	1.01	454.3
9/4/2012	10:00:00 PM	2.01	2.5	0.49	1.04	468.6
9/4/2012	11:00:00 PM	2.02	2.5	0.48	1.01	454.3
9/5/2012	12:00:00 AM	2.16	2.5	0.34	0.60	269.8
9/5/2012	1:00:00 AM	2.38	2.5	0.12	0.12	55.9
9/5/2012	2:00:00 AM	2.16	2.5	0.34	0.60	269.8
9/5/2012	3:00:00 AM	2.31	2.5	0.19	0.25	112.0
9/5/2012	4:00:00 AM	2.16	2.5	0.34	0.60	269.8
9/5/2012	5:00:00 AM	2.08	2.5	0.42	0.83	371.3
9/5/2012	6:00:00 AM	2.26	2.5	0.24	0.36	159.4
9/5/2012	7:00:00 AM	2.15	2.5	0.35	0.63	281.9
9/5/2012	8:00:00 AM	2.05	2.5	0.45	0.92	412.1
9/5/2012	9:00:00 AM	1.61	2.5	0.89	2.57	1154.5
9/5/2012	10:00:00 AM	1.88	2.5	0.62	1.49	668.7
9/5/2012	11:00:00 AM	1.98	2.5	0.52	1.14	512.6
9/5/2012	12:00:00 PM	2.02	2.5	0.48	1.01	454.3
9/5/2012	1:00:00 PM	2.04	2.5	0.46	0.95	426.0
9/5/2012	2:00:00 PM	2.05	2.5	0.45	0.92	412.1
9/5/2012	3:00:00 PM	2.09	2.5	0.41	0.80	358.0
9/5/2012	4:00:00 PM	2.08	2.5	0.42	0.83	371.3
9/5/2012	5:00:00 PM	2.07	2.5	0.43	0.86	384.7
9/5/2012	6:00:00 PM	2.07	2.5	0.43	0.86	384.7
9/5/2012	7:00:00 PM	2.09	2.5	0.41	0.80	358.0
9/5/2012	8:00:00 PM	2.09	2.5	0.41	0.80	358.0
9/5/2012	9:00:00 PM	2.07	2.5	0.43	0.86	384.7
9/5/2012	10:00:00 PM	2.11	2.5	0.39	0.74	332.0
9/5/2012	11:00:00 PM	2.10	2.5	0.40	0.77	344.9
9/6/2012	12:00:00 AM	2.10	2.5	0.40	0.77	344.9
9/6/2012	1:00:00 AM	2.22	2.5	0.28	0.45	201.2
9/6/2012	2:00:00 AM	2.21	2.5	0.29	0.47	212.2
9/6/2012	3:00:00 AM	2.13	2.5	0.37	0.68	306.6
9/6/2012	4:00:00 AM	2.19	2.5	0.31	0.52	234.7
9/6/2012	5:00:00 AM	2.15	2.5	0.35	0.63	281.9
9/6/2012	6:00:00 AM	2.05	2.5	0.45	0.92	412.1
9/6/2012	7:00:00 AM	1.97	2.5	0.53	1.18	527.6
9/6/2012	8:00:00 AM	1.96	2.5	0.54	1.21	542.7
9/6/2012	9:00:00 AM	1.95	2.5	0.55	1.24	558.0
9/6/2012	10:00:00 AM	1.62	2.5	0.88	2.53	1134.9
9/6/2012	11:00:00 AM	1.79	2.5	0.71	1.83	820.6
9/6/2012	12:00:00 PM	1.88	2.5	0.62	1.49	668.7
9/6/2012	1:00:00 PM	1.94	2.5	0.56	1.28	573.4
9/6/2012	2:00:00 PM	1.96	2.5	0.54	1.21	542.7
9/6/2012	3:00:00 PM	1.98	2.5	0.52	1.14	512.6
9/6/2012	4:00:00 PM	1.98	2.5	0.52	1.14	512.6

9/6/2012	5:00:00 PM	1.99	2.5	0.51	1.11	497.8
9/6/2012	6:00:00 PM	2.00	2.5	0.50	1.08	483.2
9/6/2012	7:00:00 PM	2.00	2.5	0.50	1.08	483.2
9/6/2012	8:00:00 PM	2.00	2.5	0.50	1.08	483.2
9/6/2012	9:00:00 PM	1.99	2.5	0.51	1.11	497.8
9/6/2012	10:00:00 PM	1.99	2.5	0.51	1.11	497.8
9/6/2012	11:00:00 PM	2.01	2.5	0.49	1.04	468.6
9/7/2012	12:00:00 AM	2.02	2.5	0.48	1.01	454.3
9/7/2012	1:00:00 AM	2.01	2.5	0.49	1.04	468.6
9/7/2012	2:00:00 AM	2.01	2.5	0.49	1.04	468.6
9/7/2012	3:00:00 AM	2.00	2.5	0.50	1.08	483.2
9/7/2012	4:00:00 AM	2.00	2.5	0.50	1.08	483.2
9/7/2012	5:00:00 AM	1.99	2.5	0.51	1.11	497.8
9/7/2012	6:00:00 AM	1.99	2.5	0.51	1.11	497.8
9/7/2012	7:00:00 AM	1.99	2.5	0.51	1.11	497.8
9/7/2012	8:00:00 AM	2.00	2.5	0.50	1.08	483.2
9/7/2012	9:00:00 AM	2.00	2.5	0.50	1.08	483.2
9/7/2012	10:00:00 AM	2.00	2.5	0.50	1.08	483.2
9/7/2012	11:00:00 AM	1.99	2.5	0.51	1.11	497.8
9/7/2012	12:00:00 PM	2.00	2.5	0.50	1.08	483.2
9/7/2012	1:00:00 PM	2.01	2.5	0.49	1.04	468.6
9/7/2012	2:00:00 PM	2.01	2.5	0.49	1.04	468.6
9/7/2012	3:00:00 PM	2.00	2.5	0.50	1.08	483.2
9/7/2012	4:00:00 PM	2.01	2.5	0.49	1.04	468.6
9/7/2012	5:00:00 PM	2.00	2.5	0.50	1.08	483.2
9/7/2012	6:00:00 PM	2.01	2.5	0.49	1.04	468.6
9/7/2012	7:00:00 PM	2.01	2.5	0.49	1.04	468.6
9/7/2012	8:00:00 PM	2.01	2.5	0.49	1.04	468.6
9/7/2012	9:00:00 PM	2.00	2.5	0.50	1.08	483.2
9/7/2012	10:00:00 PM	2.00	2.5	0.50	1.08	483.2
9/7/2012	11:00:00 PM	2.00	2.5	0.50	1.08	483.2
9/8/2012	12:00:00 AM	2.01	2.5	0.49	1.04	468.6
9/8/2012	1:00:00 AM	2.01	2.5	0.49	1.04	468.6
9/8/2012	2:00:00 AM	2.01	2.5	0.49	1.04	468.6
9/8/2012	3:00:00 AM	2.01	2.5	0.49	1.04	468.6
9/8/2012	4:00:00 AM	2.00	2.5	0.50	1.08	483.2
9/8/2012	5:00:00 AM	1.99	2.5	0.51	1.11	497.8
9/8/2012	6:00:00 AM	1.97	2.5	0.53	1.18	527.6
9/8/2012	7:00:00 AM	1.97	2.5	0.53	1.18	527.6
9/8/2012	8:00:00 AM	1.95	2.5	0.55	1.24	558.0
9/8/2012	9:00:00 AM	1.94	2.5	0.56	1.28	573.4
9/8/2012	10:00:00 AM	1.94	2.5	0.56	1.28	573.4
9/8/2012	11:00:00 AM	1.97	2.5	0.53	1.18	527.6
9/8/2012	12:00:00 PM	1.99	2.5	0.51	1.11	497.8
9/8/2012	1:00:00 PM	1.99	2.5	0.51	1.11	497.8
9/8/2012	2:00:00 PM	2.00	2.5	0.50	1.08	483.2
9/8/2012	3:00:00 PM	2.00	2.5	0.50	1.08	483.2

9/8/2012	4:00:00 PM	2.00	2.5	0.50	1.08	483.2
9/8/2012	5:00:00 PM	2.00	2.5	0.50	1.08	483.2
9/8/2012	6:00:00 PM	2.00	2.5	0.50	1.08	483.2
9/8/2012	7:00:00 PM	2.00	2.5	0.50	1.08	483.2
9/8/2012	8:00:00 PM	2.00	2.5	0.50	1.08	483.2
9/8/2012	9:00:00 PM	2.00	2.5	0.50	1.08	483.2
9/8/2012	10:00:00 PM	2.00	2.5	0.50	1.08	483.2
9/8/2012	11:00:00 PM	2.00	2.5	0.50	1.08	483.2
9/9/2012	12:00:00 AM	2.00	2.5	0.50	1.08	483.2
9/9/2012	1:00:00 AM	2.01	2.5	0.49	1.04	468.6
9/9/2012	2:00:00 AM	2.01	2.5	0.49	1.04	468.6
9/9/2012	3:00:00 AM	2.16	2.5	0.34	0.60	269.8
9/9/2012	4:00:00 AM	2.26	2.5	0.24	0.36	159.4
9/9/2012	5:00:00 AM	2.33	2.5	0.17	0.21	94.7
9/9/2012	6:00:00 AM	2.13	2.5	0.37	0.68	306.6
9/9/2012	7:00:00 AM	1.74	2.5	0.76	2.03	909.5
9/9/2012	8:00:00 AM	1.74	2.5	0.76	2.03	909.5
9/9/2012	9:00:00 AM	1.85	2.5	0.65	1.60	718.1
9/9/2012	10:00:00 AM	1.92	2.5	0.58	1.35	604.6
9/9/2012	11:00:00 AM	1.95	2.5	0.55	1.24	558.0
9/9/2012	12:00:00 PM	1.96	2.5	0.54	1.21	542.7
9/9/2012	1:00:00 PM	1.97	2.5	0.53	1.18	527.6
9/9/2012	2:00:00 PM	1.97	2.5	0.53	1.18	527.6
9/9/2012	3:00:00 PM	1.98	2.5	0.52	1.14	512.6
9/9/2012	4:00:00 PM	1.99	2.5	0.51	1.11	497.8
9/9/2012	5:00:00 PM	1.98	2.5	0.52	1.14	512.6
9/9/2012	6:00:00 PM	1.98	2.5	0.52	1.14	512.6
9/9/2012	7:00:00 PM	1.98	2.5	0.52	1.14	512.6
9/9/2012	8:00:00 PM	1.98	2.5	0.52	1.14	512.6
9/9/2012	9:00:00 PM	1.98	2.5	0.52	1.14	512.6
9/9/2012	10:00:00 PM	1.98	2.5	0.52	1.14	512.6
9/9/2012	11:00:00 PM	1.99	2.5	0.51	1.11	497.8
9/10/2012	12:00:00 AM	1.98	2.5	0.52	1.14	512.6
9/10/2012	1:00:00 AM	1.97	2.5	0.53	1.18	527.6
9/10/2012	2:00:00 AM	1.97	2.5	0.53	1.18	527.6
9/10/2012	3:00:00 AM	1.96	2.5	0.54	1.21	542.7
9/10/2012	4:00:00 AM	1.74	2.5	0.76	2.03	909.5
9/10/2012	5:00:00 AM	1.67	2.5	0.83	2.31	1038.9
9/10/2012	6:00:00 AM	1.76	2.5	0.74	1.95	873.6
9/10/2012	7:00:00 AM	1.87	2.5	0.63	1.53	685.0
9/10/2012	8:00:00 AM	1.93	2.5	0.57	1.31	588.9
9/10/2012	9:00:00 AM	1.96	2.5	0.54	1.21	542.7
9/10/2012	10:00:00 AM	1.97	2.5	0.53	1.18	527.6
9/10/2012	11:00:00 AM	1.98	2.5	0.52	1.14	512.6
9/10/2012	12:00:00 PM	1.98	2.5	0.52	1.14	512.6
9/10/2012	1:00:00 PM	1.99	2.5	0.51	1.11	497.8
9/10/2012	2:00:00 PM	1.98	2.5	0.52	1.14	512.6

9/10/2012	3:00:00 PM	1.99	2.5	0.51	1.11	497.8
9/10/2012	4:00:00 PM	1.98	2.5	0.52	1.14	512.6
9/10/2012	5:00:00 PM	1.99	2.5	0.51	1.11	497.8
9/10/2012	6:00:00 PM	1.99	2.5	0.51	1.11	497.8
9/10/2012	7:00:00 PM	1.98	2.5	0.52	1.14	512.6
9/10/2012	8:00:00 PM	1.98	2.5	0.52	1.14	512.6
9/10/2012	9:00:00 PM	1.98	2.5	0.52	1.14	512.6
9/10/2012	10:00:00 PM	1.98	2.5	0.52	1.14	512.6
9/10/2012	11:00:00 PM	1.99	2.5	0.51	1.11	497.8
9/11/2012	12:00:00 AM	2.15	2.5	0.35	0.63	281.9
9/11/2012	1:00:00 AM	2.33	2.5	0.17	0.21	94.7
9/11/2012	2:00:00 AM	2.13	2.5	0.37	0.68	306.6
9/11/2012	3:00:00 AM	2.18	2.5	0.32	0.55	246.2
9/11/2012	4:00:00 AM	2.11	2.5	0.39	0.74	332.0
9/11/2012	5:00:00 AM	2.11	2.5	0.39	0.74	332.0
9/11/2012	6:00:00 AM	2.06	2.5	0.44	0.89	398.3
9/11/2012	7:00:00 AM	1.92	2.5	0.58	1.35	604.6
9/11/2012	8:00:00 AM	1.89	2.5	0.61	1.45	652.4
9/11/2012	9:00:00 AM	1.51	2.5	0.99	3.02	1356.0
9/11/2012	10:00:00 AM	1.54	2.5	0.96	2.88	1294.4
9/11/2012	11:00:00 AM	1.71	2.5	0.79	2.15	964.2
9/11/2012	12:00:00 PM	1.80	2.5	0.70	1.79	803.2
9/11/2012	1:00:00 PM	1.84	2.5	0.66	1.64	734.9
9/11/2012	2:00:00 PM	1.88	2.5	0.62	1.49	668.7
9/11/2012	3:00:00 PM	1.91	2.5	0.59	1.38	620.4
9/11/2012	4:00:00 PM	1.93	2.5	0.57	1.31	588.9
9/11/2012	5:00:00 PM	1.91	2.5	0.59	1.38	620.4
9/11/2012	6:00:00 PM	1.90	2.5	0.60	1.42	636.4
9/11/2012	7:00:00 PM	1.91	2.5	0.59	1.38	620.4
9/11/2012	8:00:00 PM	1.91	2.5	0.59	1.38	620.4
9/11/2012	9:00:00 PM	1.91	2.5	0.59	1.38	620.4
9/11/2012	10:00:00 PM	1.91	2.5	0.59	1.38	620.4
9/11/2012	11:00:00 PM	1.91	2.5	0.59	1.38	620.4
9/12/2012	12:00:00 AM	1.92	2.5	0.58	1.35	604.6
9/12/2012	1:00:00 AM	1.93	2.5	0.57	1.31	588.9
9/12/2012	2:00:00 AM	1.94	2.5	0.56	1.28	573.4
9/12/2012	3:00:00 AM	1.98	2.5	0.52	1.14	512.6
9/12/2012	4:00:00 AM	1.91	2.5	0.59	1.38	620.4
9/12/2012	5:00:00 AM	1.82	2.5	0.68	1.71	768.8
9/12/2012	6:00:00 AM	1.81	2.5	0.69	1.75	785.9
9/12/2012	7:00:00 AM	1.78	2.5	0.72	1.87	838.1
9/12/2012	8:00:00 AM	1.76	2.5	0.74	1.95	873.6
9/12/2012	9:00:00 AM	1.76	2.5	0.74	1.95	873.6
9/12/2012	10:00:00 AM	1.77	2.5	0.73	1.91	855.8
9/12/2012	11:00:00 AM	1.75	2.5	0.75	1.99	891.5
9/12/2012	12:00:00 PM	1.85	2.5	0.65	1.60	718.1
9/12/2012	1:00:00 PM	1.91	2.5	0.59	1.38	620.4

9/12/2012	2:00:00 PM	1.95	2.5	0.55	1.24	558.0
9/12/2012	3:00:00 PM	1.96	2.5	0.54	1.21	542.7
9/12/2012	4:00:00 PM	1.97	2.5	0.53	1.18	527.6
9/12/2012	5:00:00 PM	1.98	2.5	0.52	1.14	512.6
9/12/2012	6:00:00 PM	1.98	2.5	0.52	1.14	512.6
9/12/2012	7:00:00 PM	1.99	2.5	0.51	1.11	497.8
9/12/2012	8:00:00 PM	1.99	2.5	0.51	1.11	497.8
9/12/2012	9:00:00 PM	1.99	2.5	0.51	1.11	497.8
9/12/2012	10:00:00 PM	2.04	2.5	0.46	0.95	426.0
9/12/2012	11:00:00 PM	1.94	2.5	0.56	1.28	573.4
9/13/2012	12:00:00 AM	2.14	2.5	0.36	0.66	294.1
9/13/2012	1:00:00 AM	2.23	2.5	0.27	0.42	190.5
9/13/2012	2:00:00 AM	2.25	2.5	0.25	0.38	169.6
9/13/2012	3:00:00 AM	2.29	2.5	0.21	0.29	130.3
9/13/2012	4:00:00 AM	2.21	2.5	0.29	0.47	212.2
9/13/2012	5:00:00 AM	2.18	2.5	0.32	0.55	246.2
9/13/2012	6:00:00 AM	2.10	2.5	0.40	0.77	344.9
9/13/2012	7:00:00 AM	2.03	2.5	0.47	0.98	440.0
9/13/2012	8:00:00 AM	2.02	2.5	0.48	1.01	454.3
9/13/2012	9:00:00 AM	2.03	2.5	0.47	0.98	440.0
9/13/2012	10:00:00 AM	1.55	2.5	0.95	2.84	1274.0
9/13/2012	11:00:00 AM	1.78	2.5	0.72	1.87	838.1
9/13/2012	12:00:00 PM	1.89	2.5	0.61	1.45	652.4
9/13/2012	1:00:00 PM	1.94	2.5	0.56	1.28	573.4
9/13/2012	2:00:00 PM	1.97	2.5	0.53	1.18	527.6
9/13/2012	3:00:00 PM	1.98	2.5	0.52	1.14	512.6
9/13/2012	4:00:00 PM	1.99	2.5	0.51	1.11	497.8
9/13/2012	5:00:00 PM	2.00	2.5	0.50	1.08	483.2
9/13/2012	6:00:00 PM	2.01	2.5	0.49	1.04	468.6
9/13/2012	7:00:00 PM	2.03	2.5	0.47	0.98	440.0
9/13/2012	8:00:00 PM	2.04	2.5	0.46	0.95	426.0
9/13/2012	9:00:00 PM	2.05	2.5	0.45	0.92	412.1
9/13/2012	10:00:00 PM	2.06	2.5	0.44	0.89	398.3
9/13/2012	11:00:00 PM	2.08	2.5	0.42	0.83	371.3
9/14/2012	12:00:00 AM	2.12	2.5	0.38	0.71	319.2
9/14/2012	1:00:00 AM	2.12	2.5	0.38	0.71	319.2
9/14/2012	2:00:00 AM	2.18	2.5	0.32	0.55	246.2
9/14/2012	3:00:00 AM	2.10	2.5	0.40	0.77	344.9
9/14/2012	4:00:00 AM	2.07	2.5	0.43	0.86	384.7
9/14/2012	5:00:00 AM	2.05	2.5	0.45	0.92	412.1
9/14/2012	6:00:00 AM	2.18	2.5	0.32	0.55	246.2
9/14/2012	7:00:00 AM	2.16	2.5	0.34	0.60	269.8
9/14/2012	8:00:00 AM	2.14	2.5	0.36	0.66	294.1
9/14/2012	9:00:00 AM	1.87	2.5	0.63	1.53	685.0
9/14/2012	10:00:00 AM	1.92	2.5	0.58	1.35	604.6
9/14/2012	11:00:00 AM	1.96	2.5	0.54	1.21	542.7
9/14/2012	12:00:00 PM	1.95	2.5	0.55	1.24	558.0

9/14/2012	1:00:00 PM	1.97	2.5	0.53	1.18	527.6
9/14/2012	2:00:00 PM	1.97	2.5	0.53	1.18	527.6
9/14/2012	3:00:00 PM	1.98	2.5	0.52	1.14	512.6
9/14/2012	4:00:00 PM	1.99	2.5	0.51	1.11	497.8
9/14/2012	5:00:00 PM	2.00	2.5	0.50	1.08	483.2
9/14/2012	6:00:00 PM	2.01	2.5	0.49	1.04	468.6
9/14/2012	7:00:00 PM	2.03	2.5	0.47	0.98	440.0
9/14/2012	8:00:00 PM	2.05	2.5	0.45	0.92	412.1
9/14/2012	9:00:00 PM	2.05	2.5	0.45	0.92	412.1
9/14/2012	10:00:00 PM	2.09	2.5	0.41	0.80	358.0
9/14/2012	11:00:00 PM	2.11	2.5	0.39	0.74	332.0
9/15/2012	12:00:00 AM	2.14	2.5	0.36	0.66	294.1
9/15/2012	1:00:00 AM	2.34	2.5	0.16	0.19	86.4
9/15/2012	2:00:00 AM	2.32	2.5	0.18	0.23	103.2
9/15/2012	3:00:00 AM	2.29	2.5	0.21	0.29	130.3
9/15/2012	4:00:00 AM	2.26	2.5	0.24	0.36	159.4
9/15/2012	5:00:00 AM	2.22	2.5	0.28	0.45	201.2
9/15/2012	6:00:00 AM	2.16	2.5	0.34	0.60	269.8
9/15/2012	7:00:00 AM	2.14	2.5	0.36	0.66	294.1
9/15/2012	8:00:00 AM	2.12	2.5	0.38	0.71	319.2
9/15/2012	9:00:00 AM	2.09	2.5	0.41	0.80	358.0
9/15/2012	10:00:00 AM	2.05	2.5	0.45	0.92	412.1
9/15/2012	11:00:00 AM	1.75	2.5	0.75	1.99	891.5
9/15/2012	12:00:00 PM	1.90	2.5	0.60	1.42	636.4
9/15/2012	1:00:00 PM	1.98	2.5	0.52	1.14	512.6
9/15/2012	2:00:00 PM	2.00	2.5	0.50	1.08	483.2
9/15/2012	3:00:00 PM	2.03	2.5	0.47	0.98	440.0
9/15/2012	4:00:00 PM	2.04	2.5	0.46	0.95	426.0
9/15/2012	5:00:00 PM	2.04	2.5	0.46	0.95	426.0
9/15/2012	6:00:00 PM	2.03	2.5	0.47	0.98	440.0
9/15/2012	7:00:00 PM	2.04	2.5	0.46	0.95	426.0
9/15/2012	8:00:00 PM	2.04	2.5	0.46	0.95	426.0
9/15/2012	9:00:00 PM	2.05	2.5	0.45	0.92	412.1
9/15/2012	10:00:00 PM	2.05	2.5	0.45	0.92	412.1
9/15/2012	11:00:00 PM	2.05	2.5	0.45	0.92	412.1
9/16/2012	12:00:00 AM	2.05	2.5	0.45	0.92	412.1
9/16/2012	1:00:00 AM	2.06	2.5	0.44	0.89	398.3
9/16/2012	2:00:00 AM	2.04	2.5	0.46	0.95	426.0
9/16/2012	3:00:00 AM	2.04	2.5	0.46	0.95	426.0
9/16/2012	4:00:00 AM	2.04	2.5	0.46	0.95	426.0
9/16/2012	5:00:00 AM	2.04	2.5	0.46	0.95	426.0
9/16/2012	6:00:00 AM	2.06	2.5	0.44	0.89	398.3
9/16/2012	7:00:00 AM	2.00	2.5	0.50	1.08	483.2
9/16/2012	8:00:00 AM	1.96	2.5	0.54	1.21	542.7
9/16/2012	9:00:00 AM	1.93	2.5	0.57	1.31	588.9
9/16/2012	10:00:00 AM	1.95	2.5	0.55	1.24	558.0
9/16/2012	11:00:00 AM	1.97	2.5	0.53	1.18	527.6

9/16/2012	12:00:00 PM	2.01	2.5	0.49	1.04	468.6
9/16/2012	1:00:00 PM	2.01	2.5	0.49	1.04	468.6
9/16/2012	2:00:00 PM	2.02	2.5	0.48	1.01	454.3
9/16/2012	3:00:00 PM	2.01	2.5	0.49	1.04	468.6
9/16/2012	4:00:00 PM	2.02	2.5	0.48	1.01	454.3
9/16/2012	5:00:00 PM	2.02	2.5	0.48	1.01	454.3
9/16/2012	6:00:00 PM	2.03	2.5	0.47	0.98	440.0
9/16/2012	7:00:00 PM	2.02	2.5	0.48	1.01	454.3
9/16/2012	8:00:00 PM	2.03	2.5	0.47	0.98	440.0
9/16/2012	9:00:00 PM	2.03	2.5	0.47	0.98	440.0
9/16/2012	10:00:00 PM	2.04	2.5	0.46	0.95	426.0
9/16/2012	11:00:00 PM	2.03	2.5	0.47	0.98	440.0
9/17/2012	12:00:00 AM	2.03	2.5	0.47	0.98	440.0
9/17/2012	1:00:00 AM	2.04	2.5	0.46	0.95	426.0
9/17/2012	2:00:00 AM	2.01	2.5	0.49	1.04	468.6
9/17/2012	3:00:00 AM	2.02	2.5	0.48	1.01	454.3
9/17/2012	4:00:00 AM	2.07	2.5	0.43	0.86	384.7
9/17/2012	5:00:00 AM	2.23	2.5	0.27	0.42	190.5
9/17/2012	6:00:00 AM	2.11	2.5	0.39	0.74	332.0
9/17/2012	7:00:00 AM	2.04	2.5	0.46	0.95	426.0
9/17/2012	8:00:00 AM	2.00	2.5	0.50	1.08	483.2
9/17/2012	9:00:00 AM	1.83	2.5	0.67	1.68	751.8
9/17/2012	10:00:00 AM	1.92	2.5	0.58	1.35	604.6
9/17/2012	11:00:00 AM	1.95	2.5	0.55	1.24	558.0
9/17/2012	12:00:00 PM	1.99	2.5	0.51	1.11	497.8
9/17/2012	1:00:00 PM	1.96	2.5	0.54	1.21	542.7
9/17/2012	2:00:00 PM	1.96	2.5	0.54	1.21	542.7
9/17/2012	3:00:00 PM	1.99	2.5	0.51	1.11	497.8
9/17/2012	4:00:00 PM	2.01	2.5	0.49	1.04	468.6
9/17/2012	5:00:00 PM	2.02	2.5	0.48	1.01	454.3
9/17/2012	6:00:00 PM	2.04	2.5	0.46	0.95	426.0
9/17/2012	7:00:00 PM	2.05	2.5	0.45	0.92	412.1
9/17/2012	8:00:00 PM	2.07	2.5	0.43	0.86	384.7
9/17/2012	9:00:00 PM	2.08	2.5	0.42	0.83	371.3
9/17/2012	10:00:00 PM	2.09	2.5	0.41	0.80	358.0
9/17/2012	11:00:00 PM	2.10	2.5	0.40	0.77	344.9
9/18/2012	12:00:00 AM	2.12	2.5	0.38	0.71	319.2
9/18/2012	1:00:00 AM	2.14	2.5	0.36	0.66	294.1
9/18/2012	2:00:00 AM	2.15	2.5	0.35	0.63	281.9
9/18/2012	3:00:00 AM	2.18	2.5	0.32	0.55	246.2
9/18/2012	4:00:00 AM	2.20	2.5	0.30	0.50	223.3
9/18/2012	5:00:00 AM	2.33	2.5	0.17	0.21	94.7
9/18/2012	6:00:00 AM	2.28	2.5	0.22	0.31	139.8
9/18/2012	7:00:00 AM	2.12	2.5	0.38	0.71	319.2
9/18/2012	8:00:00 AM	2.15	2.5	0.35	0.63	281.9
9/18/2012	9:00:00 AM	2.15	2.5	0.35	0.63	281.9
9/18/2012	10:00:00 AM	2.16	2.5	0.34	0.60	269.8

9/18/2012	11:00:00 AM	2.16	2.5	0.34	0.60	269.8
9/18/2012	12:00:00 PM	2.15	2.5	0.35	0.63	281.9
9/18/2012	1:00:00 PM	2.14	2.5	0.36	0.66	294.1
9/18/2012	2:00:00 PM	2.13	2.5	0.37	0.68	306.6
9/18/2012	3:00:00 PM	2.11	2.5	0.39	0.74	332.0
9/18/2012	4:00:00 PM	2.10	2.5	0.40	0.77	344.9
9/18/2012	5:00:00 PM	2.09	2.5	0.41	0.80	358.0
9/18/2012	6:00:00 PM	2.08	2.5	0.42	0.83	371.3
9/18/2012	7:00:00 PM	2.08	2.5	0.42	0.83	371.3
9/18/2012	8:00:00 PM	2.08	2.5	0.42	0.83	371.3
9/18/2012	9:00:00 PM	2.09	2.5	0.41	0.80	358.0
9/18/2012	10:00:00 PM	2.09	2.5	0.41	0.80	358.0
9/18/2012	11:00:00 PM	2.10	2.5	0.40	0.77	344.9
9/19/2012	12:00:00 AM	2.10	2.5	0.40	0.77	344.9
9/19/2012	1:00:00 AM	2.21	2.5	0.29	0.47	212.2
9/19/2012	2:00:00 AM	2.18	2.5	0.32	0.55	246.2
9/19/2012	3:00:00 AM	2.28	2.5	0.22	0.31	139.8
9/19/2012	4:00:00 AM	2.34	2.5	0.16	0.19	86.4
9/19/2012	5:00:00 AM	2.35	2.5	0.15	0.17	78.4
9/19/2012	6:00:00 AM	2.10	2.5	0.40	0.77	344.9
9/19/2012	7:00:00 AM	2.04	2.5	0.46	0.95	426.0
9/19/2012	8:00:00 AM	2.03	2.5	0.47	0.98	440.0
9/19/2012	9:00:00 AM	1.98	2.5	0.52	1.14	512.6
9/19/2012	10:00:00 AM	1.88	2.5	0.62	1.49	668.7
9/19/2012	11:00:00 AM	1.87	2.5	0.63	1.53	685.0
9/19/2012	12:00:00 PM	1.67	2.5	0.83	2.31	1038.9
9/19/2012	1:00:00 PM	1.81	2.5	0.69	1.75	785.9
9/19/2012	2:00:00 PM	1.90	2.5	0.60	1.42	636.4
9/19/2012	3:00:00 PM	1.95	2.5	0.55	1.24	558.0
9/19/2012	4:00:00 PM	1.98	2.5	0.52	1.14	512.6
9/19/2012	5:00:00 PM	1.99	2.5	0.51	1.11	497.8
9/19/2012	6:00:00 PM	2.00	2.5	0.50	1.08	483.2
9/19/2012	7:00:00 PM	2.01	2.5	0.49	1.04	468.6
9/19/2012	8:00:00 PM	2.03	2.5	0.47	0.98	440.0
9/19/2012	9:00:00 PM	2.03	2.5	0.47	0.98	440.0
9/19/2012	10:00:00 PM	2.04	2.5	0.46	0.95	426.0
9/19/2012	11:00:00 PM	2.05	2.5	0.45	0.92	412.1
9/20/2012	12:00:00 AM	2.05	2.5	0.45	0.92	412.1
9/20/2012	1:00:00 AM	2.05	2.5	0.45	0.92	412.1
9/20/2012	2:00:00 AM	2.06	2.5	0.44	0.89	398.3
9/20/2012	3:00:00 AM	2.06	2.5	0.44	0.89	398.3
9/20/2012	4:00:00 AM	2.06	2.5	0.44	0.89	398.3
9/20/2012	5:00:00 AM	2.05	2.5	0.45	0.92	412.1
9/20/2012	6:00:00 AM	2.05	2.5	0.45	0.92	412.1
9/20/2012	7:00:00 AM	2.02	2.5	0.48	1.01	454.3
9/20/2012	8:00:00 AM	1.98	2.5	0.52	1.14	512.6
9/20/2012	9:00:00 AM	1.92	2.5	0.58	1.35	604.6

9/20/2012	10:00:00 AM	1.96	2.5	0.54	1.21	542.7
9/20/2012	11:00:00 AM	1.95	2.5	0.55	1.24	558.0
9/20/2012	12:00:00 PM	1.95	2.5	0.55	1.24	558.0
9/20/2012	1:00:00 PM	1.95	2.5	0.55	1.24	558.0
9/20/2012	2:00:00 PM	1.96	2.5	0.54	1.21	542.7
9/20/2012	3:00:00 PM	1.97	2.5	0.53	1.18	527.6
9/20/2012	4:00:00 PM	1.98	2.5	0.52	1.14	512.6
9/20/2012	5:00:00 PM	1.99	2.5	0.51	1.11	497.8
9/20/2012	6:00:00 PM	2.00	2.5	0.50	1.08	483.2
9/20/2012	7:00:00 PM	2.01	2.5	0.49	1.04	468.6
9/20/2012	8:00:00 PM	2.02	2.5	0.48	1.01	454.3
9/20/2012	9:00:00 PM	2.04	2.5	0.46	0.95	426.0
9/20/2012	10:00:00 PM	2.05	2.5	0.45	0.92	412.1
9/20/2012	11:00:00 PM	2.06	2.5	0.44	0.89	398.3
9/21/2012	12:00:00 AM	2.08	2.5	0.42	0.83	371.3
9/21/2012	1:00:00 AM	2.11	2.5	0.39	0.74	332.0
9/21/2012	2:00:00 AM	2.17	2.5	0.33	0.57	257.9
9/21/2012	3:00:00 AM	2.26	2.5	0.24	0.36	159.4
9/21/2012	4:00:00 AM	2.22	2.5	0.28	0.45	201.2
9/21/2012	5:00:00 AM	2.22	2.5	0.28	0.45	201.2
9/21/2012	6:00:00 AM	2.15	2.5	0.35	0.63	281.9
9/21/2012	7:00:00 AM	2.10	2.5	0.40	0.77	344.9
9/21/2012	8:00:00 AM	2.08	2.5	0.42	0.83	371.3
9/21/2012	9:00:00 AM	2.00	2.5	0.50	1.08	483.2
9/21/2012	10:00:00 AM	2.07	2.5	0.43	0.86	384.7
9/21/2012	11:00:00 AM	2.11	2.5	0.39	0.74	332.0
9/21/2012	12:00:00 PM	2.12	2.5	0.38	0.71	319.2
9/21/2012	1:00:00 PM	2.12	2.5	0.38	0.71	319.2
9/21/2012	2:00:00 PM	2.13	2.5	0.37	0.68	306.6
9/21/2012	3:00:00 PM	2.13	2.5	0.37	0.68	306.6
9/21/2012	4:00:00 PM	2.12	2.5	0.38	0.71	319.2
9/21/2012	5:00:00 PM	2.12	2.5	0.38	0.71	319.2
9/21/2012	6:00:00 PM	2.12	2.5	0.38	0.71	319.2
9/21/2012	7:00:00 PM	2.11	2.5	0.39	0.74	332.0
9/21/2012	8:00:00 PM	2.12	2.5	0.38	0.71	319.2
9/21/2012	9:00:00 PM	2.11	2.5	0.39	0.74	332.0
9/21/2012	10:00:00 PM	2.12	2.5	0.38	0.71	319.2
9/21/2012	11:00:00 PM	2.13	2.5	0.37	0.68	306.6
9/22/2012	12:00:00 AM	2.13	2.5	0.37	0.68	306.6
9/22/2012	1:00:00 AM	2.14	2.5	0.36	0.66	294.1
9/22/2012	2:00:00 AM	2.14	2.5	0.36	0.66	294.1
9/22/2012	3:00:00 AM	2.14	2.5	0.36	0.66	294.1
9/22/2012	4:00:00 AM	2.13	2.5	0.37	0.68	306.6
9/22/2012	5:00:00 AM	2.13	2.5	0.37	0.68	306.6
9/22/2012	6:00:00 AM	2.11	2.5	0.39	0.74	332.0
9/22/2012	7:00:00 AM	2.10	2.5	0.40	0.77	344.9
9/22/2012	8:00:00 AM	2.08	2.5	0.42	0.83	371.3

9/22/2012	9:00:00 AM	2.07	2.5	0.43	0.86	384.7
9/22/2012	10:00:00 AM	2.05	2.5	0.45	0.92	412.1
9/22/2012	11:00:00 AM	2.04	2.5	0.46	0.95	426.0
9/22/2012	12:00:00 PM	2.03	2.5	0.47	0.98	440.0
9/22/2012	1:00:00 PM	2.03	2.5	0.47	0.98	440.0
9/22/2012	2:00:00 PM	2.02	2.5	0.48	1.01	454.3
9/22/2012	3:00:00 PM	2.04	2.5	0.46	0.95	426.0
9/22/2012	4:00:00 PM	2.05	2.5	0.45	0.92	412.1
9/22/2012	5:00:00 PM	2.05	2.5	0.45	0.92	412.1
9/22/2012	6:00:00 PM	2.07	2.5	0.43	0.86	384.7
9/22/2012	7:00:00 PM	2.08	2.5	0.42	0.83	371.3
9/22/2012	8:00:00 PM	2.09	2.5	0.41	0.80	358.0
9/22/2012	9:00:00 PM	2.09	2.5	0.41	0.80	358.0
9/22/2012	10:00:00 PM	2.10	2.5	0.40	0.77	344.9
9/22/2012	11:00:00 PM	2.11	2.5	0.39	0.74	332.0
9/23/2012	12:00:00 AM	2.11	2.5	0.39	0.74	332.0
9/23/2012	1:00:00 AM	2.10	2.5	0.40	0.77	344.9
9/23/2012	2:00:00 AM	2.10	2.5	0.40	0.77	344.9
9/23/2012	3:00:00 AM	2.09	2.5	0.41	0.80	358.0
9/23/2012	4:00:00 AM	2.08	2.5	0.42	0.83	371.3
9/23/2012	5:00:00 AM	2.22	2.5	0.28	0.45	201.2
9/23/2012	6:00:00 AM	1.92	2.5	0.58	1.35	604.6
9/23/2012	7:00:00 AM	1.81	2.5	0.69	1.75	785.9
9/23/2012	8:00:00 AM	1.71	2.5	0.79	2.15	964.2
9/23/2012	9:00:00 AM	1.94	2.5	0.56	1.28	573.4
9/23/2012	10:00:00 AM	1.99	2.5	0.51	1.11	497.8
9/23/2012	11:00:00 AM	2.01	2.5	0.49	1.04	468.6
9/23/2012	12:00:00 PM	2.01	2.5	0.49	1.04	468.6
9/23/2012	1:00:00 PM	2.02	2.5	0.48	1.01	454.3
9/23/2012	2:00:00 PM	2.03	2.5	0.47	0.98	440.0
9/23/2012	3:00:00 PM	2.01	2.5	0.49	1.04	468.6
9/23/2012	4:00:00 PM	2.02	2.5	0.48	1.01	454.3
9/23/2012	5:00:00 PM	2.04	2.5	0.46	0.95	426.0
9/23/2012	6:00:00 PM	2.02	2.5	0.48	1.01	454.3
9/23/2012	7:00:00 PM	2.02	2.5	0.48	1.01	454.3
9/23/2012	8:00:00 PM	2.01	2.5	0.49	1.04	468.6
9/23/2012	9:00:00 PM	2.01	2.5	0.49	1.04	468.6
9/23/2012	10:00:00 PM	2.02	2.5	0.48	1.01	454.3
9/23/2012	11:00:00 PM	2.04	2.5	0.46	0.95	426.0
9/24/2012	12:00:00 AM	2.18	2.5	0.32	0.55	246.2
9/24/2012	1:00:00 AM	2.17	2.5	0.33	0.57	257.9
9/24/2012	2:00:00 AM	2.04	2.5	0.46	0.95	426.0
9/24/2012	3:00:00 AM	2.03	2.5	0.47	0.98	440.0
9/24/2012	4:00:00 AM	2.14	2.5	0.36	0.66	294.1
9/24/2012	5:00:00 AM	1.95	2.5	0.55	1.24	558.0
9/24/2012	6:00:00 AM	1.89	2.5	0.61	1.45	652.4
9/24/2012	7:00:00 AM	1.87	2.5	0.63	1.53	685.0

9/24/2012	8:00:00 AM	1.85	2.5	0.65	1.60	718.1
9/24/2012	9:00:00 AM	1.86	2.5	0.64	1.56	701.5
9/24/2012	10:00:00 AM	1.55	2.5	0.95	2.84	1274.0
9/24/2012	11:00:00 AM	1.75	2.5	0.75	1.99	891.5
9/24/2012	12:00:00 PM	1.84	2.5	0.66	1.64	734.9
9/24/2012	1:00:00 PM	1.89	2.5	0.61	1.45	652.4
9/24/2012	2:00:00 PM	1.92	2.5	0.58	1.35	604.6
9/24/2012	3:00:00 PM	1.94	2.5	0.56	1.28	573.4
9/24/2012	4:00:00 PM	1.96	2.5	0.54	1.21	542.7
9/24/2012	5:00:00 PM	1.96	2.5	0.54	1.21	542.7
9/24/2012	6:00:00 PM	1.98	2.5	0.52	1.14	512.6
9/24/2012	7:00:00 PM	1.98	2.5	0.52	1.14	512.6
9/24/2012	8:00:00 PM	2.00	2.5	0.50	1.08	483.2
9/24/2012	9:00:00 PM	2.00	2.5	0.50	1.08	483.2
9/24/2012	10:00:00 PM	2.03	2.5	0.47	0.98	440.0
9/24/2012	11:00:00 PM	1.97	2.5	0.53	1.18	527.6
9/25/2012	12:00:00 AM	1.97	2.5	0.53	1.18	527.6
9/25/2012	1:00:00 AM	1.96	2.5	0.54	1.21	542.7
9/25/2012	2:00:00 AM	1.91	2.5	0.59	1.38	620.4
9/25/2012	3:00:00 AM	1.90	2.5	0.60	1.42	636.4
9/25/2012	4:00:00 AM	1.92	2.5	0.58	1.35	604.6
9/25/2012	5:00:00 AM	1.87	2.5	0.63	1.53	685.0
9/25/2012	6:00:00 AM	1.76	2.5	0.74	1.95	873.6
9/25/2012	7:00:00 AM	1.69	2.5	0.81	2.23	1001.4
9/25/2012	8:00:00 AM	1.64	2.5	0.86	2.44	1096.2
9/25/2012	9:00:00 AM	1.70	2.5	0.80	2.19	982.7
9/25/2012	10:00:00 AM	1.81	2.5	0.69	1.75	785.9
9/25/2012	11:00:00 AM	1.90	2.5	0.60	1.42	636.4
9/25/2012	12:00:00 PM	1.94	2.5	0.56	1.28	573.4
9/25/2012	1:00:00 PM	1.96	2.5	0.54	1.21	542.7
9/25/2012	2:00:00 PM	1.98	2.5	0.52	1.14	512.6
9/25/2012	3:00:00 PM	2.00	2.5	0.50	1.08	483.2
9/25/2012	4:00:00 PM	2.02	2.5	0.48	1.01	454.3
9/25/2012	5:00:00 PM	2.04	2.5	0.46	0.95	426.0
9/25/2012	6:00:00 PM	2.06	2.5	0.44	0.89	398.3
9/25/2012	7:00:00 PM	2.08	2.5	0.42	0.83	371.3
9/25/2012	8:00:00 PM	2.10	2.5	0.40	0.77	344.9
9/25/2012	9:00:00 PM	2.12	2.5	0.38	0.71	319.2
9/25/2012	10:00:00 PM	2.13	2.5	0.37	0.68	306.6
9/25/2012	11:00:00 PM	2.14	2.5	0.36	0.66	294.1
9/26/2012	12:00:00 AM	2.15	2.5	0.35	0.63	281.9
9/26/2012	1:00:00 AM	2.22	2.5	0.28	0.45	201.2
9/26/2012	2:00:00 AM	2.23	2.5	0.27	0.42	190.5
9/26/2012	3:00:00 AM	2.28	2.5	0.22	0.31	139.8
9/26/2012	4:00:00 AM	2.22	2.5	0.28	0.45	201.2
9/26/2012	5:00:00 AM	2.23	2.5	0.27	0.42	190.5
9/26/2012	6:00:00 AM	2.31	2.5	0.19	0.25	112.0

9/26/2012	7:00:00 AM	2.25	2.5	0.25	0.38	169.6
9/26/2012	8:00:00 AM	2.20	2.5	0.30	0.50	223.3
9/26/2012	9:00:00 AM	1.90	2.5	0.60	1.42	636.4
9/26/2012	10:00:00 AM	2.00	2.5	0.50	1.08	483.2
9/26/2012	11:00:00 AM	2.04	2.5	0.46	0.95	426.0
9/26/2012	12:00:00 PM	2.06	2.5	0.44	0.89	398.3
9/26/2012	1:00:00 PM	2.06	2.5	0.44	0.89	398.3
9/26/2012	2:00:00 PM	2.06	2.5	0.44	0.89	398.3
9/26/2012	3:00:00 PM	2.06	2.5	0.44	0.89	398.3
9/26/2012	4:00:00 PM	2.07	2.5	0.43	0.86	384.7
9/26/2012	5:00:00 PM	2.07	2.5	0.43	0.86	384.7
9/26/2012	6:00:00 PM	2.09	2.5	0.41	0.80	358.0
9/26/2012	7:00:00 PM	2.10	2.5	0.40	0.77	344.9
9/26/2012	8:00:00 PM	2.11	2.5	0.39	0.74	332.0
9/26/2012	9:00:00 PM	2.12	2.5	0.38	0.71	319.2
9/26/2012	10:00:00 PM	2.13	2.5	0.37	0.68	306.6
9/26/2012	11:00:00 PM	2.14	2.5	0.36	0.66	294.1
9/27/2012	12:00:00 AM	2.14	2.5	0.36	0.66	294.1
9/27/2012	1:00:00 AM	2.15	2.5	0.35	0.63	281.9
9/27/2012	2:00:00 AM	2.15	2.5	0.35	0.63	281.9
9/27/2012	3:00:00 AM	2.16	2.5	0.34	0.60	269.8
9/27/2012	4:00:00 AM	2.17	2.5	0.33	0.57	257.9
9/27/2012	5:00:00 AM	2.11	2.5	0.39	0.74	332.0
9/27/2012	6:00:00 AM	2.10	2.5	0.40	0.77	344.9
9/27/2012	7:00:00 AM	2.04	2.5	0.46	0.95	426.0
9/27/2012	8:00:00 AM	1.99	2.5	0.51	1.11	497.8
9/27/2012	9:00:00 AM	2.02	2.5	0.48	1.01	454.3
9/27/2012	10:00:00 AM	2.03	2.5	0.47	0.98	440.0
9/27/2012	11:00:00 AM	2.02	2.5	0.48	1.01	454.3
9/27/2012	12:00:00 PM	2.02	2.5	0.48	1.01	454.3
9/27/2012	1:00:00 PM	2.02	2.5	0.48	1.01	454.3
9/27/2012	2:00:00 PM	2.03	2.5	0.47	0.98	440.0
9/27/2012	3:00:00 PM	2.03	2.5	0.47	0.98	440.0
9/27/2012	4:00:00 PM	2.05	2.5	0.45	0.92	412.1
9/27/2012	5:00:00 PM	2.06	2.5	0.44	0.89	398.3
9/27/2012	6:00:00 PM	2.08	2.5	0.42	0.83	371.3
9/27/2012	7:00:00 PM	2.09	2.5	0.41	0.80	358.0
9/27/2012	8:00:00 PM	2.10	2.5	0.40	0.77	344.9
9/27/2012	9:00:00 PM	2.12	2.5	0.38	0.71	319.2
9/27/2012	10:00:00 PM	2.13	2.5	0.37	0.68	306.6
9/27/2012	11:00:00 PM	2.15	2.5	0.35	0.63	281.9
9/28/2012	12:00:00 AM	2.18	2.5	0.32	0.55	246.2
9/28/2012	1:00:00 AM	2.17	2.5	0.33	0.57	257.9
9/28/2012	2:00:00 AM	2.20	2.5	0.30	0.50	223.3
9/28/2012	3:00:00 AM	2.28	2.5	0.22	0.31	139.8
9/28/2012	4:00:00 AM	2.21	2.5	0.29	0.47	212.2
9/28/2012	5:00:00 AM	2.23	2.5	0.27	0.42	190.5

9/28/2012	6:00:00 AM	2.21	2.5	0.29	0.47	212.2
9/28/2012	7:00:00 AM	2.19	2.5	0.31	0.52	234.7
9/28/2012	8:00:00 AM	2.17	2.5	0.33	0.57	257.9
9/28/2012	9:00:00 AM	2.10	2.5	0.40	0.77	344.9
9/28/2012	10:00:00 AM	2.13	2.5	0.37	0.68	306.6
9/28/2012	11:00:00 AM	2.15	2.5	0.35	0.63	281.9
9/28/2012	12:00:00 PM	2.14	2.5	0.36	0.66	294.1
9/28/2012	1:00:00 PM	2.13	2.5	0.37	0.68	306.6
9/28/2012	2:00:00 PM	2.12	2.5	0.38	0.71	319.2
9/28/2012	3:00:00 PM	2.12	2.5	0.38	0.71	319.2
9/28/2012	4:00:00 PM	2.11	2.5	0.39	0.74	332.0
9/28/2012	5:00:00 PM	2.11	2.5	0.39	0.74	332.0
9/28/2012	6:00:00 PM	2.11	2.5	0.39	0.74	332.0
9/28/2012	7:00:00 PM	2.11	2.5	0.39	0.74	332.0
9/28/2012	8:00:00 PM	2.12	2.5	0.38	0.71	319.2
9/28/2012	9:00:00 PM	2.13	2.5	0.37	0.68	306.6
9/28/2012	10:00:00 PM	2.14	2.5	0.36	0.66	294.1
9/28/2012	11:00:00 PM	2.15	2.5	0.35	0.63	281.9
9/29/2012	12:00:00 AM	2.16	2.5	0.34	0.60	269.8
9/29/2012	1:00:00 AM	2.17	2.5	0.33	0.57	257.9
9/29/2012	2:00:00 AM	2.18	2.5	0.32	0.55	246.2
9/29/2012	3:00:00 AM	2.19	2.5	0.31	0.52	234.7
9/29/2012	4:00:00 AM	2.19	2.5	0.31	0.52	234.7
9/29/2012	5:00:00 AM	2.21	2.5	0.29	0.47	212.2
9/29/2012	6:00:00 AM	2.22	2.5	0.28	0.45	201.2
9/29/2012	7:00:00 AM	2.23	2.5	0.27	0.42	190.5
9/29/2012	8:00:00 AM	2.23	2.5	0.27	0.42	190.5
9/29/2012	9:00:00 AM	2.24	2.5	0.26	0.40	179.9
9/29/2012	10:00:00 AM	2.25	2.5	0.25	0.38	169.6
9/29/2012	11:00:00 AM	2.26	2.5	0.24	0.36	159.4
9/29/2012	12:00:00 PM	2.26	2.5	0.24	0.36	159.4
9/29/2012	1:00:00 PM	2.27	2.5	0.23	0.33	149.5
9/29/2012	2:00:00 PM	2.27	2.5	0.23	0.33	149.5
9/29/2012	3:00:00 PM	2.28	2.5	0.22	0.31	139.8
9/29/2012	4:00:00 PM	2.29	2.5	0.21	0.29	130.3
9/29/2012	5:00:00 PM	2.30	2.5	0.20	0.27	121.0
9/29/2012	6:00:00 PM	2.29	2.5	0.21	0.29	130.3
9/29/2012	7:00:00 PM	2.30	2.5	0.20	0.27	121.0
9/29/2012	8:00:00 PM	2.31	2.5	0.19	0.25	112.0
9/29/2012	9:00:00 PM	2.31	2.5	0.19	0.25	112.0
9/29/2012	10:00:00 PM	2.31	2.5	0.19	0.25	112.0
9/29/2012	11:00:00 PM	2.31	2.5	0.19	0.25	112.0
9/30/2012	12:00:00 AM	2.32	2.5	0.18	0.23	103.2
9/30/2012	1:00:00 AM	2.32	2.5	0.18	0.23	103.2
9/30/2012	2:00:00 AM	2.37	2.5	0.13	0.14	63.1
9/30/2012	3:00:00 AM	2.34	2.5	0.16	0.19	86.4
9/30/2012	4:00:00 AM	2.34	2.5	0.16	0.19	86.4

9/30/2012	5:00:00 AM	2.35	2.5	0.15	0.17	78.4
9/30/2012	6:00:00 AM	2.43	2.5	0.07	0.06	24.8
9/30/2012	7:00:00 AM	2.42	2.5	0.08	0.07	30.3
9/30/2012	8:00:00 AM	2.42	2.5	0.08	0.07	30.3
9/30/2012	9:00:00 AM	2.42	2.5	0.08	0.07	30.3
9/30/2012	10:00:00 AM	2.41	2.5	0.09	0.08	36.2
9/30/2012	11:00:00 AM	2.40	2.5	0.10	0.09	42.5
9/30/2012	12:00:00 PM	2.40	2.5	0.10	0.09	42.5
9/30/2012	1:00:00 PM	2.40	2.5	0.10	0.09	42.5
9/30/2012	2:00:00 PM	2.28	2.5	0.22	0.31	139.8
9/30/2012	3:00:00 PM	2.31	2.5	0.19	0.25	112.0
9/30/2012	4:00:00 PM	2.32	2.5	0.18	0.23	103.2
9/30/2012	5:00:00 PM	2.33	2.5	0.17	0.21	94.7
9/30/2012	6:00:00 PM	2.34	2.5	0.16	0.19	86.4
9/30/2012	7:00:00 PM	2.35	2.5	0.15	0.17	78.4
9/30/2012	8:00:00 PM	2.35	2.5	0.15	0.17	78.4
9/30/2012	9:00:00 PM	2.36	2.5	0.14	0.16	70.6
9/30/2012	10:00:00 PM	2.36	2.5	0.14	0.16	70.6
9/30/2012	11:00:00 PM	2.40	2.5	0.10	0.09	42.5

Appendix K

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.

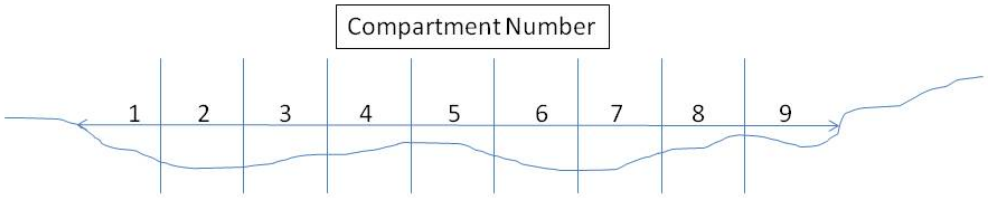



Figure 1. Example of the general placement of the cross-channel sampling compartments for the equal-width-increment (EWI) sampling procedure.