



Conceptual Site Model Addendum

Petronila Creek
Nueces County, Texas

Prepared for:

Railroad Commission of Texas
Oil and Gas Division
Site Remediation

William Miertschin, Assistant Director

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Arsin M. Sahba, P.G., Project Manager

August 2009

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August 2009

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1.0 INTRODUCTION

The Driscoll segment of Petronila Creek has been the subject of multiple environmental investigations for the collection of information regarding the distribution of salinity in soils, salinity in groundwater, and salinity loading to the waters of Petronila Creek. The culmination of findings based on analytical and geophysical data collected during these investigations indicates that elevated salinity concentrations are present across broad extents of groundwater around Petronila Creek.

Historic management practices of brine water, or produced water, from oil and gas exploration and production activities in the area have likely been a primary contributor to elevated salinity levels in soils, groundwater, and Petronila Creek surface water. Chemical signatures of cations and anions (e.g., calcium, sodium, magnesium, chloride and sulfate) suggest that the source of salinity is from produced water associated with deep brine formations (Paine, Nance, and Collins, 2005). Saline water management during oil and gas exploration and production in the Driscoll area included discharge into brine pits that may have resulted in vertical percolation to groundwater, direct discharge into creeks and ditches, and possible leaking injection of brine-disposal wells. Natural salinity levels in the area may be elevated to begin with, due to a combination of secondary factors, including: presence of primary saline pore water incorporated during Pleistocene coastal facies of the Beaumont Formation; salt particles blown inland and deposited by prevailing onshore winds; and extensive inland flooding of saline water from the Gulf of Mexico and estuarine water during periodic tropical storms (Paine, Nance, and Collins, 2005).

A ground level investigation was performed by TRC on behalf of the RRC over a three-year timeframe (i.e., 2006 through 2009) to assess salinity impacts to soils and groundwater around the Driscoll segment of Petronila Creek (the study area). A “broad-brush” assessment involving the collection of soil and groundwater analytical samples coupled with an in-situ conductivity survey was performed within an area encompassing several square miles around Petronila Creek. The data retrieved from these investigations were used to develop Best Management Practices (BMPs) for soil and groundwater to achieve the overall BMP objective of reducing salinity contributions to Petronila Creek. The evaluation of soil and groundwater BMPs was developed separately in order to expedite the evaluation of BMPs for soils impacted by elevated salinity levels concurrent with the development of understanding of hydrogeology beneath the study area. This Conceptual Site Model (CSM) Addendum incorporates new information collected during March 2009 to further study the salinity distribution in groundwater as it pertains to Petronila Creek, and provides a brief feasibility evaluation of groundwater BMPs.

1.1 Scope of the Conceptual Site Model

The initial CSM (January 2009) and its conclusions were developed to assist with achieving the BMP objectives. The following factors were considered during preliminary evaluation of BMPs as presented in Section 3.0: (1) large area of elevated salinity in groundwater; (2) hydrogeologic variability in the the upper 60 feet of the subsurface; (3) future usage of the creek and surrounding areas; (4) timeframe of the remediation effort; and, (5) the limitation of in-situ methods for remediating saline-impacted groundwater.

The January 2009 CSM and this CSM Addendum were developed as a tool to gain a better understanding of groundwater conditions in the study area. The conceptual model was used to identify source areas and preferential pathways for salinity to impact Petronila Creek. The data presented in this CSM Addendum was used to determine BMPs that could be implemented to reduce salinity contributions to Petronila Creek from impacted groundwater.

The main objectives presented in the January 2009 CSM were as follows:

- The first objective involved a review of existing boring logs and Cone Penetrometer Testing (CPT) logs. Due to the complex nature of the study area hydrogeology, further interpretation and correlation of the boring log observations with the CPT log observations was performed.

- The second objective involved the presentation of lithologic, groundwater, and surface water data on detailed geologic/hydrogeologic cross-sections. These cross-sections were used to show the lithologic units and groundwater flow nets. The CPT conductivity data was used in a three-dimensional (3D) model along with specific lithologic data.

This CSM Addendum incorporates lithologic, hydrogeologic, and salinity information, collected in the study area during March 2009, with existing data. The CSM Addendum further evaluates the hydrogeologic conditions and salinity distribution between Petronila Creek and groundwater. In addition to the two objectives outlined above for the January 2009 CSM, the additional objectives of this report include the following: (1) further understanding of salinity distribution in groundwater within the study area; (2) further evaluation of the hydraulic relationship between groundwater and surface water in Petronila Creek and the drainage ditches; (3) enhancing the January 2009 CSM; and, (4) performing a preliminary evaluation of BMPs.

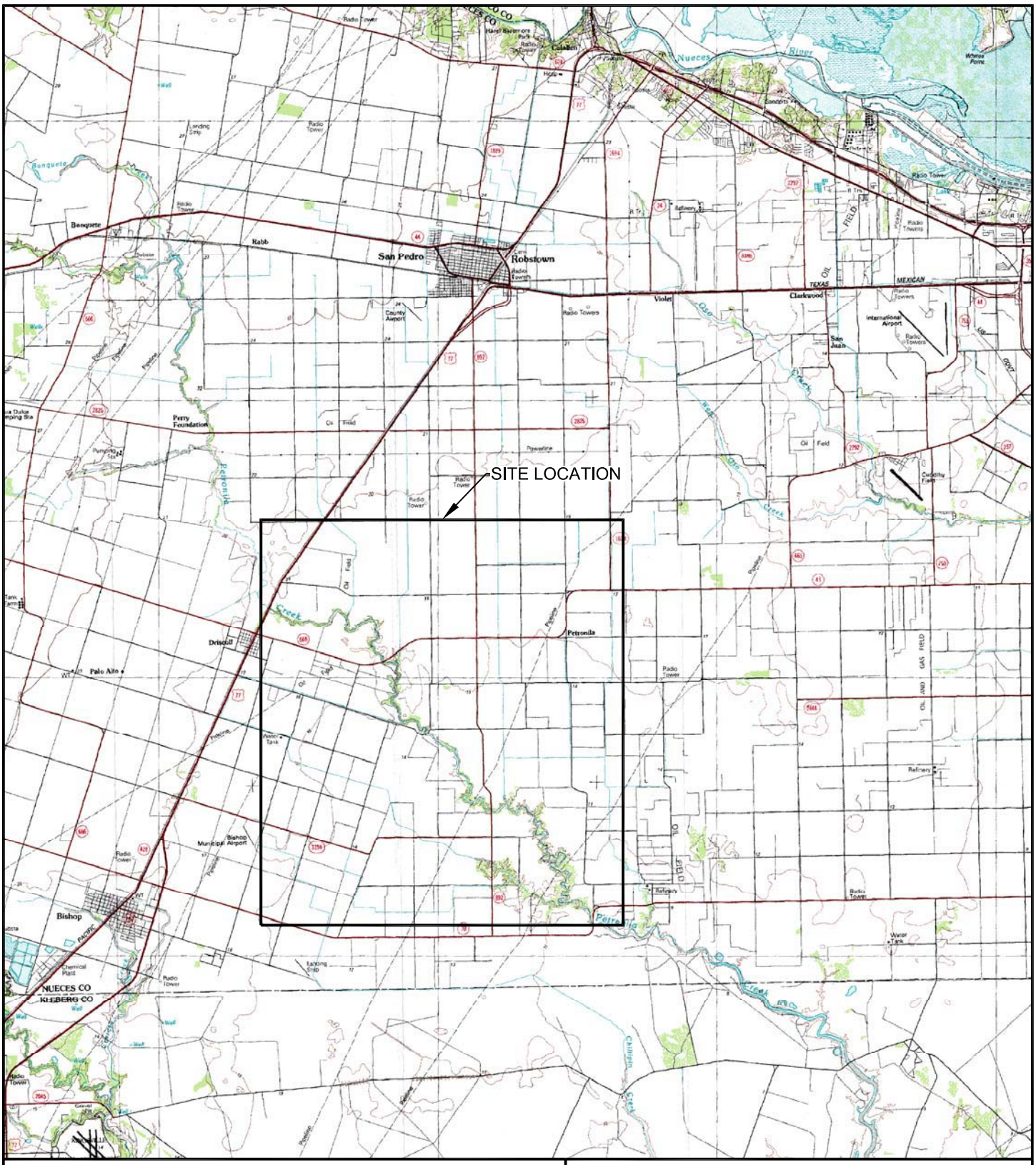
1.2 Site Background

The Total Maximum Daily Load (TMDL) Section of the Texas Commission on Environmental Quality (TCEQ) placed Segment 2204 (Petronila Creek) on the State's 303(d) list

because it does not meet water quality standards due to high salinity (Paine, Nance, and Collins, 2005). Segment 2204 includes the entire length of Petronila Creek, which begins at the confluence of Agua Dulce Creek and Banquete Creek in Nueces County and continues approximately 70 kilometers (km) to Laureles Ranch in Kleberg County. A site location map is presented as Figure 1-1.

TCEQ determined that the chloride and total dissolved solids (TDS) content in Petronila Creek increased significantly between Gauging Station 13098 (located at US 77) and Gauging Station 13096 (located downstream of the Clara Driscoll oil field). The United States Environmental Protection Agency (USEPA) and TCEQ awarded the RRC a non-point source grant to investigate the nature and extent of known salinity contamination associated with oil and gas operations along Petronila Creek and to determine remediation/abatements alternatives, or BMPs, to reduce the salinity loading into the creek. As part of the TCEQ's TMDL project, the University of Texas, Bureau of Economic Geology (BEG) performed an airborne geophysical survey, supporting ground-based measurements, and surface water analyses of Petronila Creek (Segment 2204). The results of this survey are presented in the August 2005 report *Geophysical Investigations of Salinization along Petronila Creek, Nueces and Kleberg Counties, Texas.* According to the BEG report, geophysical data and chemical analyses suggest that the sources of salinity in Petronila Creek between US 77 and the estuarine-influenced zone include brine produced from local oil fields (North Clara Driscoll, Clara Driscoll, and Luby). Some of the produced water was discharged into ditches (referred to as tidal disposal) and was discharged into pits. The RRC ended the practice of tidal disposal in 1987 and implemented a no pit order in 1969 that discontinued evaporation pits for disposal. Airborne geophysical data suggest that there are extensive areas of salinization between the drainage ditches and Petronila Creek that may provide continuing sources of salinity along the Driscoll, Concordia, and Luby oil field segments of Petronila Creek. The Luby oil field area, which is at the downstream limit of the surveyed area, is not included in this RRC investigation because the BEG indicated the area coincides with the zone of estuarine mixing (i.e., this portion of the study area also contains naturally-occurring salinity from tidal influence).

TRC conducted site reconnaissance along Petronila Creek and historical oil and gas records review in May 2006. Findings from this effort indicated that historic oil and gas exploration and operations around Petronila Creek may be primary contributors to salinity loading to the creek. TRC identified several potential sources in the Driscoll and Concordia oil fields that could contribute salinity to Petronila Creek. Findings and conclusions were provided in the *Final Petronila Creek Records Review, Site Reconnaissance Results, and Recommendations* August 2006.



0 1.5 3 6

SCALE IN MILES
1" = 3 MILES

N

SITE LOCATION MAP

RAILROAD COMMISSION OF TEXAS
PETRONILA CREEK

PROJECT NO.	166420	DWG FILE	166420 –1–1
DRAWN BY.	CL	DATE	4/17/08

TRC
505 EAST HUNTLAND DRIVE
SUITE 250
AUSTIN, TEXAS 78752
(512) 329–6080

FIGURE
1 – 1

SOURCE

U.S.G.S. 1:100,000-SCALE TOPOGRAPHIC MAP, CORPUS CHRISTI (1980), TEXAS.

This report recommended that further investigation in the form of soil and water sampling be performed to assess the extent of salinity in groundwater, surface water, and soil around Petronila Creek.

TRC conducted a second phase of field investigation (Phase II) during the spring of 2007, which included seasonal surface water monitoring, groundwater sampling from existing wells around the site, and an in-situ assessment of soils within the vicinity of Petronila Creek. The in-situ soil investigation was performed using Cone Penetrometer Testing (CPT) technology to provide a "broad-brush" assessment of conductivity concentrations around the creek. Findings are summarized in the *Draft – Interim Technical Memorandum for Petronila Creek* August 10, 2007.

Analytical data of surface water samples collected during the Phase II event indicated general increases of conductivity, anion, and cation concentrations in Petronila Creek water between creek segments 2 and 25, and decreasing concentrations downstream of segment 25. Of the cations and anions, chloride was detected at the highest concentration. Elevated TDS, conductivity, anion, and cation concentrations were also observed from water samples collected from the North Clara Driscoll and Clara Driscoll (CR 18) oil field drainage ditches, which join Petronila Creek near creek segments 6 and 14, respectively.

The Phase II groundwater sampling event included sampling groundwater monitoring wells associated with two former gasoline pipeline releases, referred to as the Driscoll #2 Site and Driscoll #3.Site. Groundwater data collected from these monitoring wells during the spring of 2007 indicated elevated TDS, conductivity, anion, and cation concentrations. Both areas are registered under Solid Waste Number 39988 and are currently under the jurisdiction of the TCEQ.

The Phase II CPT investigation performed across the study area collected lithologic and conductivity measurements from the subsurface. Conductivity levels are linearly correlated with salinity levels. The results of the CPT investigation indicated discrete areas of shallow soils (less than 10 feet below ground surface [bgs]) with elevated conductivity concentrations. Conductivity concentrations in these areas also increased with depth, and spread laterally with depth, thus appearing to demonstrate vertical and lateral transport of salinity in the direction of groundwater flow.

A third phase of investigation (Phase III) was completed in December 2007. Phase III work focused on specific areas found to have elevated conductivity based on CPT data (and therefore elevated chloride and TDS levels) that may contribute to salinity loading of Petronila Creek. During this phase, seasonal water monitoring was performed, including surface water

sampling, stream flow measurements, gauging stream stages, and groundwater investigation. The groundwater investigation involved monitoring well installation, synoptic well and creek gauging, and groundwater sampling of the monitoring wells.

During the Phase III investigation 22 soil borings were advanced in areas based on previous sampling results, project objectives, location of historic sources, and potentially impacted areas. Soil samples were collected from these borings from discrete depth intervals and analyzed in an analytical laboratory to determine salinity concentrations. The soil borings were then converted to groundwater monitoring wells. Details of the soil sampling methodology, analytical data, and monitoring well construction can be found in the Phase III report dated April 2008. Findings from the Phase III groundwater investigation identified the highest salinity concentrations in shallow groundwater at Driscoll #3, oil field wasteland areas near P-MW-16, and the drainage ditches along Clara Driscoll (CR18) and in the North Clara Driscoll oil fields. In the down-gradient direction, the highest groundwater concentrations were in the intermediate wells, followed by the deep wells, suggesting that the highly concentrated water (from historical saline water releases) may move downward within the saturated zone due to either natural vertical gradients or density equilibration. Between June and September 2007, the Petronila Creek area received precipitation in excess of the average rainfall for the area and caused flooding in the area. Analytical data of the water in Petronila Creek was collected in October 2007 and indicated a significant increase in salinity between segments 2 and 6, a slight increase in salinity between segments 6 and 19, and a moderate decrease in salinity between segments 19 and 33 as compared to salinity concentrations observed in February 2007 (TRC, 2008a).

Similar increases in salinity over the same time interval were observed in samples collected from the North Clara Driscoll and Clara Driscoll (CR 18) drainage ditches. Salinity increases (including chloride, TDS, and sulfate) were observed in the North Clara Driscoll drainage ditch between sample locations P-D-02 and P-D-01, and in the Clara Driscoll (CR 18) drainage ditch between sample locations P-D-06 and P-D-07 (TRC, 2008a).

The soil analytical data collected during the Phase III investigation identified noticeably higher salinity concentrations at shallow depths in soil in the following areas: Driscoll #2 Site near P-D2-MW-12; Driscoll #3 Site near P-D3-MW-27 ; oil field wasteland areas near P-MW-3, P-MW-6 and P-MW-16; and, the drainage ditches along Clara Driscoll (CR18) and North Clara Driscoll oil fields. The Phase III groundwater analytical data for the shallow wells indicated that the highest salinity concentrations occurred at the Driscoll #3 Site, oil field wasteland areas near P-MW-3, P-MW-6, P-MW-16, and wells P-MW-20 and P-MW-21 located along drainage ditch Clara Driscoll (CR18) oil field. A cumulative analysis of the soil and groundwater information gathered from the Phase II and Phase III investigations indicated seven likely source areas: (1) oil wasteland south of Petronila Creek near well P-MW-16; (2) oil wasteland area south of

Petronila Creek near well P-MW-6; (3) oil wasteland area north of Petronila creek near well P-MW-03; (4) unknown source near the Driscoll #2 Site (P-D2-MW-12); (5) former disposal pit near the Driscoll #3 Site (P-D3-MW-27); (6) North Clara Driscoll drainage ditch; and, (7) Clara Driscoll (CR18) drainage ditch (TRC, 2008a).

Field sampling conducted in June 2008 as part of the *Soil Feasibility Study* (SFS) focused on the seven areas identified in the Phase III report. Each of the areas (i.e., potential source areas) were investigated in closer detail with the collection of multiple soil or ditch sediment samples. Each of the seven source areas were ranked in the SFS according to the chloride and conductivity concentrations in soil or sediment and the potential to impact Petronila Creek by leaching, migration via groundwater, and/or surface runoff. This ranking process was then used to make a determination of BMP applicability, which considered technological and cost effectiveness. The results of the BMP feasibility evaluation were presented in the SFS dated September 2008. The SFS concluded that Area 6 (North Clara Driscoll drainage ditch) and Area 7 (Clara Driscoll (CR18) drainage ditch) ranked highest with respect to BMP effectiveness. Based on the findings in the SFS, the RRC, with the concurrence of the TCEQ, focused on further evaluation of soil BMPs for Areas 6 and 7 by collecting additional data in the saline-impacted areas.

A separate groundwater study was conducted to better understand the following as related to potential salinity impacts to Petronila Creek: (1) hydrogeology; (2) presence and continuity of sand units as potential preferential pathways to the creek; and, (3) the groundwater-surface hydraulic relationship. These topics were discussed in a hydrogeology-based CSM dated January 2009, which was based on data collected during the Phase II and Phase III investigations.

Hydrogeologic analysis of the upper 60 feet of the Beaumont Formation using cross-sections identified a shallow and deep groundwater flow system that are differentiated by upward gradients (indicative of discharge zones) and downward gradients (indicative of recharge zones). The presence and location of these groundwater systems ultimately affects the pathway for potential salinity loading of the creek. The shallow flow system is more localized and appears to intersect Petronila Creek with a greater degree of intersection (i.e., recharge) in the downstream direction. The deep flow system is more regional and does not intersect Petronila Creek within the study area.

A three-dimensional visual model was constructed to analyze the spatial distribution of sand units observed from lithologic data generated by drilling and CPT borings. The analysis focused on the higher groundwater flow sand units as a potential preferential pathway for salinity to migrate to the creek. A potentially significant, continuous sand unit was identified beginning at the northern section of the study area around P-CPT-35. The sand unit trended south under

Petronila Creek to the area of P-CPT-30, and then trended east/southeast towards P-CPT-19. However the linear continuity of the sand unit in the area between P-CPT- 19 and P-CPT-26, and the area between P-CPT-19 and Petronila Creek was not clear.

In-situ conductivity data collected at the CPT borings performed during the Phase II investigation were compiled into a three-dimensional model. The conductivity data combined with the sand unit data provided a perspective on the distribution of high conductivity zones relative to the sand units and Petronila Creek. The results indicated potential migration and intersection of the high salinity plume with the sand unit and eventual discharge to Petronila Creek. The salinity distribution shown in the model suggests apparent migration of salinity from north of Petronila Creek (P-CPT-03, P-CPT-04, and P-CPT-34) southward to the area around P-CPT-10, where a minor portion of the salinity plume intersects Petronila Creek. The salinity plume appears to then move southeastward parallel to Petronila Creek from segments 9 to 13, where the salinity plume potentially discharges into Petronila Creek.

The January 2009 CSM identified two locations in the study area where a BMP to mitigate salinity loading via groundwater could be justified. The first location was between Petronila Creek segments 6 and 8, where the high salinity plume around P-CPT-03, P-CPT-04, and P-CPT-34 may be migrating to the south and intersecting the creek. The second location is near creek segment 14, where the major sand unit seems to intersect Petronila Creek. Based on information collected at the time, the three-dimensional model depicted the sand unit between P-CPT-27 and P-CPT-19 to intersect one or more elevated salinity plumes moving from north to south. This sand unit was considered to potentially serve as a high flux (i.e., high flow and high to moderate concentration) pathway to the creek. The CSM identified four areas that required additional investigation. These areas would be addressed as part of the groundwater feasibility study and groundwater BMP development referenced below.

- Further investigation regarding the lateral connectivity of the sand unit with focus on the area from P-CPT-26 through P-CPT-19 to Petronila Creek. This included collecting additional lithologic data to determine the presence of the sand in locations where there is limited information. Additional data regarding the magnitude of salinity concentrations in the sand unit was also be collected.

- Further investigation regarding the relationship between the high salinity plume and Petronila Creek segments 6 to 8. This investigation will focus on the identification of preferential pathways from the source area to Petronila Creek, and the degree to which the salinity plume intersects the creek.

- Collection of aquifer characteristic data to obtain parameters that would assist in effective BMP design.

- Collection of core samples of the sand unit(s) to help determine the method(s) of deposition.

In March 2009, TRC conducted groundwater, surface water, soil and sediment sampling, as well as slug testing, to fulfill two main objectives: (1) collect additional data on salinity distribution within the ditches (i.e., Areas 6 and 7) to addend the SFS, and (2) collect groundwater information to enhance the CSM.

Sediment samples were collected in Areas 6 and 7 during March 2009 to better define the salinity distribution. The findings and conclusions of the March 2009 sediment data and associated soil BMP evaluation are presented in the July 2009 SFS Addendum. Groundwater, surface water, lithologic, and slug testing data from the March 2009 event are presented in this report.

1.3 Recent Data Collection for the CSM Addendum

TRC conducted groundwater and surface water sampling, and aquifer testing in March 2009 to clarify the hydrogeologic and salinity distribution in groundwater as identified in the January 2009 CSM. The specific data collection included the following: (1) installed five new monitoring wells (P-MW-26 through P-MW-30) to determine the extent of the sand unit; (2) installed three new monitoring wells (P-MW-23 through P-MW-25) north of Petronila Creek between segments 5 and 6 to determine the interaction of the high salinity groundwater plume with the creek; (3) installed twelve piezometers along the banks of Petronila Creek (P-PZ-01, P-PZ-03 through P-PZ-11, P-PZ-13, and P-PZ-14), one piezometer in the Area 6 (P-PZ-02), and one piezometer in the Area 7 (P-PZ-12) to determine hydraulic and salinity levels near the creek and drainage ditches; (3) collected groundwater gauging data, groundwater samples, and surface water samples for an updated synoptic data set of groundwater flow and salinity distribution; and, (4) performed slug tests at five wells to calculate aquifer characteristics at wells judged to be in potential locations for BMP implementation.

1.3.1 Data Collection Methods

Data collected during March 2009 was conducted in accordance with the following documents:

- *Field Work Plan – Petronila Creek Additional Soil and Groundwater Data Collection* (TRC, 2009b).

- *Investigation of Increased Salinity Along Petronila Creek (Segment 2204) Quality Assurance Project Plan – Revision 1* (RRC, 2007a).

1.3.2 Soil Boring and Monitoring Well Installation

To determine the extent of the sand unit identified in the January 2009 CSM, six soil borings were completed within the study area using sonic drilling methods. To determine the interaction between the high salinity groundwater plume north of Petronila creek between segments 5 and 6, three soil borings were completed also using sonic drilling methods. Continuous soil samples were collected from each boring using a sonic core barrel. A field geologist inspected the soil samples and recorded the lithologic composition, moisture content, and notable presence of impact (if observed). Lithologic observations were described in accordance with American Society for Testing and Materials (ASTM) Standard D 2488 *Standard Practice for Description and Identification of Soil (Visual-Manual Procedure)*. Soil samples in which the sand unit was observed were submitted for laboratory analysis of particle size. Thirteen samples were submitted to PTS Laboratory in Houston, Texas, for particle size analysis using ASTM D4464M. The laboratory reports for the particle size analysis are provided in Appendix B.

All of the soil borings were converted into two-inch diameter monitoring wells. Monitoring wells constructed closest to the creek (P-MW-23 through P-MW-25, P-MW-29, and P-MW-30) were installed in the uppermost portion of the GWBU at approximately 25 feet bgs. The monitoring wells constructed in locations away from the creek (P-MW-26 through P-MW-28) were installed to depths ranging between 45 and 64 feet bgs, depending upon the depth of the sand units. Boring and well construction logs for all eight wells are provided in Appendix C. The locations of the eight monitoring wells completed in March 2009 are depicted in Figure 2-1.

1.3.3 Piezometer Installation

Piezometers were installed in the bed of Petronila Creek and drainage ditches to determine the potentiometric elevation of groundwater adjacent to the creek and ditchesto determine the hydraulic relationship between groundwater and surface water. The piezometers were manually installed using a slide hammer. The piezometers were advanced to an approximate depth rangingbetween 6 and 8 feet bgs. Although the work plan specified the installation of thirteen piezometers, a fourteenth piezometer was installed downstream of segment 8 to collect salinity information in this area of Petronila Creek. All fourteen piezometers were included in the seasonal monitoring event as discussed below.

1.3.4 Seasonal Monitoring

Gauging and sampling of surface water, piezometers, and monitoring wells were conducted for a synoptic view of groundwater and surface water hydraulics and salinity distribution around Petronila Creek.

Surface water gauging (stream gauging) consisted of measuring the depth to surface water in the creek and drainage ditches from the midpoint of the following three bridges: (1) US Highway 77 Bridge (P-SG-02); (2) FM665 Bridge (P-SG-10); and, (3) CR24 Bridge (P-SG-CR24). The locations of these gauging/sampling stations are depicted in Figure 1-2. Gauging was inadvertently not performed at the CR18 Bridge (P-SG-15) during March 2009 field operations. Gauging results for surface water locations are tabulated in Table 1 of Appendix A.

Prior to the collection of a surface water sample for laboratory analyses, a grab sample was collected using an adjustable pole sampler for field measurements of conductivity, pH, temperature, oxidation-reduction potential (ORP), and TDS. A second grab sample was then collected from the surface water using the adjustable pole sampler and submitted for laboratory analyses. All of the surface water samples were submitted to DHL Analytical (Austin, Texas) for laboratory analyses of the same analytical parameters analyzed for in the Phase III investigation. Surface water samples were submitted for laboratory analyses of TDS by M2540C, anions (chloride, bromide, sulfate, and nitrate) by EPA 300.0, cations (calcium, sodium, magnesium, potassium, iron, and barium) by EPA 6020, and alkalinity (carbonate and bicarbonate) by EPA 2320B. Field quality assurance and quality control (QA/QC) samples (i.e., duplicate, matrix spike [MS], matrix spike duplicate [MSD], and equipment blanks), were collected at a frequency of five percent according to the *Quality Assurance Project Plan* (QAPP). The results of surface water samples are tabulated in Table 2 of Appendix A. The results of the groundwater samples are tabulated in Table 3 of Appendix A.

The eight monitoring wells installed in March 2009 and the existing 24 monitoring wells (i.e., P-MW-1 through P-MW-22, P-D2-MW-12, and P-D3-MW-27) were gauged and sampled. Prior to gauging and sampling the new monitoring wells, the wells were developed using a combination of surging and bailing using a submersible pump. Development continued until purge water was clear (low turbidity) as confirmed by field measurements.

Prior to the groundwater sampling, a synoptic groundwater gauging event, including all 32 monitoring wells, 3 surface water gauging stations, and 14 piezometers, was conducted. Measurements at the monitoring wells and surface water gauging stations were performed to an accuracy of 0.01 feet using an oil/water interface probe to distinguish the presence of light non-aqueous phase hydrocarbons (LNAPL). LNAPL was not observed during the gauging event conducted during March 2009. Measurements at the piezometers were performed to an accuracy of 0.01 feet using a water level indicator due to the narrow diameter of the piezometer (one inch). Gauging results for the monitoring wells and piezometers are tabulated in Table 1 of Appendix A.

Monitoring wells were sampled using either a peristaltic pump or disposable bailer. All wells were purged until field water quality parameters (i.e., pH, temperature, ORP, conductivity, and turbidity) stabilized. All of the groundwater samples were submitted to DHL Analytical (Austin, Texas) for laboratory analyses of the same target parameters analyzed for the Phase III investigation. These parameters included TDS by USEPA Method M2540C, anions (chloride, bromide, sulfate, and nitrate) by USEPA Method 300.0, cations (calcium, sodium, magnesium, potassium, iron, and barium) by USEPA Method 6020, alkalinity (carbonate, hydroxide, and bicarbonate) by USEPA Method 2320B, pH by M4500-H+B, and conductivity by USEPA 2510B. Field QA/QC samples (i.e., duplicate, MS, MSD, and equipment blanks), were collected at a frequency of five percent according to the QAPP. The results of the groundwater samples are tabulated in Table 2 of Appendix A.

No gauging data is available for piezometers P-PZ-06, P-PZ-09, P-PZ-12 because these points were dry during the synoptic gauging event; however, after one week, a small volume of groundwater (100-150 milliliters) was present in P-PZ-06 and P-PZ-13 for groundwater sample collection. Piezometers P-PZ-09 and P-PZ-12 remained dry during the second visit and groundwater samples were not collected.

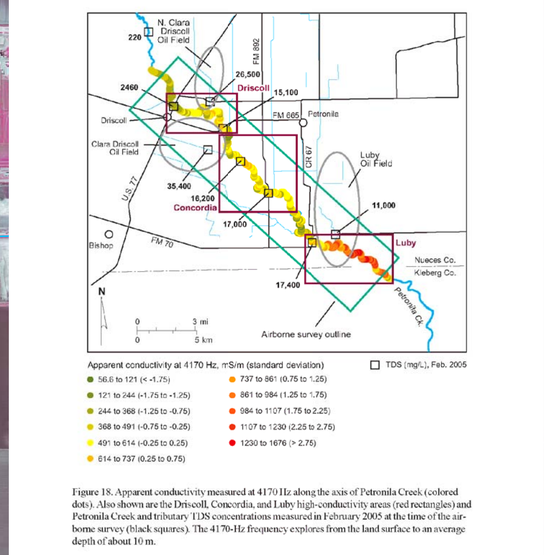


Figure 18. Apparent conductivity measured at 4170 Hz along the axis of Petronila Creek (colored dots). Also shown are the Driscoll, Concordia, and Luby high-conductivity areas (red rectangles) and Petronila Creek and tributary TDS concentrations measured in February 2005 at the time of the airborne survey (black squares). The 4170-Hz frequency explores from the land surface to an average depth of about 10 m.

LEGEND

- A-A' Cross-Section Line
- Sesonal Water Sample Location
- CPT (P-CPT-XX) Location
- Monitoring Well Location
- Piezometer
- Surface Drainage (Petronila Creek and drainage ditches)
- Creek Segments for Petronila Creek (Kilometer Markers)

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SOURCE:

1. U.S.G.S. Digital Ortho Quarter Quads (DOQQs) for Concordia NE (2004), Concordia NW (2004), Driscoll East NE (2004), Driscoll East NW (2004), Driscoll East SE (2004), and Driscoll East SW (2004), Texas DOQQs.
2. BEG Airborne Geophysical Survey Report ("Figure 18 inset")

N

1,000 0 1,000 2,000
Feet

SITE MAP

RAILROAD COMMISSION OF TEXAS
PETRONILA CREEK

PROJECT NO.: 166420 | DATE: 6/12/2009

TRC
505 EAST HUNTLAND DRIVE
SUITE 250
AUSTIN, TEXAS 78752
512-329-6080

FIGURE 1-2

Most of the piezometers produced limited volumes of water when purged. This was generally the scenario in all but one location (P-PZ-07), which produced an ample amount of groundwater for sampling. Due to the limited amount of groundwater available for sample collection, samples for laboratory analyses were prioritized and field water quality measurements were not collected. Due to the low yield of most of the piezometers, two rounds of sampling were necessary to collect enough water to analyze the full suite of parameters detailed below. The second sampling event took place approximately one week after the first event. As mentioned above, P-PZ-09 and P-PS-12 remained dry during both sampling events; therefore, no analytical data were available for these two locations.

Samples from the piezometers were submitted to DHL Analytical (Austin, Texas) for laboratory analyses of TDS by Method M2540C, anions (chloride, bromide, sulfate, and nitrate) by USEPA Method 300.0, cations (calcium, sodium, magnesium, potassium, iron, and barium) by USEPA Method 6020, alkalinity (carbonate, hydroxide, and bicarbonate) by EPA 2320B, pH by M4500-H+B, and conductivity by EPA 2510B. Field QA/QC samples (i.e., duplicate, MS, MSD, and equipment blanks) were collected at a frequency of five percent according to the QAPP. The results of the groundwater samples collected from the piezometers are tabulated in Table 2 of Appendix A.

1.3.5 Slug Tests

A series of rising-head and falling-head slug tests were performed to determine aquifer parameters that could be used for groundwater modeling and groundwater BMP feasibility evaluation. A minimum of three slug tests was performed at each of the following wells: P-MW-05; P-MW-24; P-MW-28; P-MW-27; and, P-MW-30. Slugs used for each test included either a single, three-foot long solid slug (1.25-inches in outer diameter) or two of these slugs linked in series. Slug tests were performed by lowering the slug into the groundwater, allowing the static water level to equilibrate, and finally rapidly removing the slug. The water level was recorded using a down-hole pressure transducer, which was connected to a laptop that recorded pressure differences at 250 millisecond intervals. The results of these tests were analyzed for validity and then analyzed to calculate hydraulic conductivity. The rising-head test data was used for hydraulic conductivity calculations and are provided in Appendix D.

2.0 CONCEPTUAL SITE MODEL

2.1 Geology and Hydrogeology

Based on the Bureau of Economic Geology (BEG) Geologic Atlas of Texas, Corpus Christi Sheet, the Quaternary alluvium deposits and the Beaumont Formation are the only geologic units in direct contact with Petronila Creek in the Driscoll area. The Beaumont Formation consists of clay, silt, sand, and gravels comprising of stream channel, point bar, natural levee, and backswamp deposits, and has a thickness of approximately 100 feet (BEG, 1975).

The subsurface lithology, interpreted to a maximum depth of approximately 61 feet bgs through the completion of monitoring wells, CPT, and soil borings, is predominantly comprised of clays and silts from ground surface to 10 or 15 feet bgs. Below 10 to 15 feet bgs (equates to approximately 40 feet above mean sea level [amsl]), laterally continuous and discontinuous silty sand lenses reside within a matrix of fine-grained materials (i.e., silts and clays). These sandy lenses are generally 5 to 15 feet thick and appear to be more continuous and thicker to the southeast towards Baffin Bay and the Gulf of Mexico. The lithologic data collected from the subsurface investigations are consistent with a fluvial depositional environment and are representative of the Beaumont Formation.

The principal groundwater bearing units (GWBUs) in Nueces County are located within the Goliad Sand, Lissie Formation, and Beaumont Clay. These formations together are known as the Gulf Coast Aquifer. Groundwater in these formations flows southeastward toward the Gulf of Mexico and occurs under unconfined and confined conditions (TWDB, 1968). The Gulf Coast Aquifer is separated into two subunits, known as the Chicot Aquifer and Evangeline Aquifer. In Nueces County, the younger and shallower Chicot Aquifer includes the Beaumont Clay and overlying alluvium. The Evangeline Aquifer is older and deeper and present within the Goliad Formation in Nueces County (TWDB, 1968). Based on observed lithologic information from drilling, the groundwater encountered during this study is within the upper Chicot Aquifer.

The presence of laterally discontinuous coarser-grained horizons (i.e., fine sands) interbedded with finer horizons (i.e., silts and clays), observed through drilling operations, reveals the heterogeneous composition of the Beaumont Formation. These lateral and vertical heterogeneities resulted in monitoring wells being screened within a variety of lithologies ranging from clays/silts (generally applicable to the shallower wells), sand lenses (generally applicable to the deeper wells), or both (generally applicable to the intermediate wells). Static water levels have been observed in all of the monitoring wells for three consecutive groundwater gauging events (October 2007, June 2008, and March 2009). Static water levels observed in monitoring wells solely screened in clays and silty clays indicate that these fine-grained units are

saturated, even though field observations during drilling did not show obvious saturated conditions. The presence of saturated clays and silty clays interbedded with saturated sand horizons indicates that that the GWBU exists under unconfined conditions in the study area and the GWBU is hydraulically connected (i.e., there are no apparent aquitards).

Potentiometric groundwater surface interpreted from the March 2009 gauging data is plotted in Figure 2-1. Gauging data collected from monitoring wells, piezometers, surface water adjacent to the piezometers, and stream gauging stations were used to interpret the potentiometric groundwater surface. The surface water elevations posted in Figure 2-1 were surveyed from the surface water adjacent to each piezometer.

The March 2009 potentiometric groundwater surface, depicted in Figure 2-1, suggests that groundwater may not intersect the creek in the upper portions of the Petronila Creek study area (i.e., upstream of P-PZ-14), but may intersect the creek as base flow at downstream segments of the Petronila Creek study area (i.e., downstream of P-PZ-07). There is a greater difference between the potentiometric elevation in the piezometers and surface water elevation in the upper portions of the creek (upstream of FM 665), with the surface water elevation being greater than the piezometers. In the lower portions of the creek (downstream of FM 665), there are smaller differences between the surface water and piezometer elevations, and in some cases the elevations are similar. Generally, the more similar the surface elevations between groundwater and surface water, the more likely that groundwater intersects surface water (the elevation of the creek bed was not determined during this study). This data generally support the groundwater hydraulics observed in the January 2009 CSM, which identified that shallow groundwater on a local scale flows towards part of Petronila Creek. The March 2009 results suggest that the intersection of groundwater and surface water may not occur as regularly at the upstream extent of Petronila Creek within the study area. However, water levels in monitoring wells next to the creek have fluctuated over time suggesting that the communication between groundwater and surface water vary over time.

The dry conditions observed P-PZ-12 suggest that groundwater does not intersect the Clara Driscoll (CR18) drainage ditch at this location.

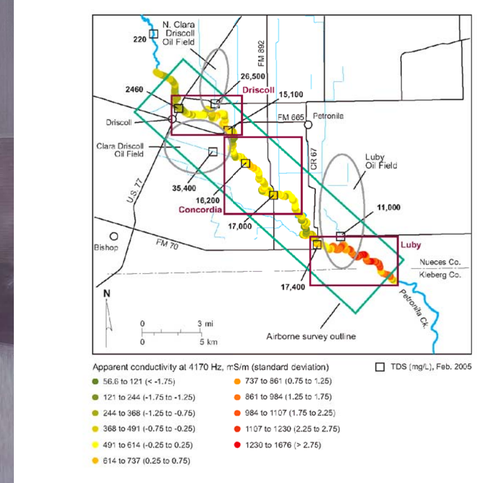


Figure 18. Apparent conductivity measured at 4170 Hz along the axis of Petronila Creek (colored dots). Also shown are the Driscoll, Concordia, and Luby high-conductivity areas (red rectangles) and Petronila Creek and tributary TDS concentrations measured in February 2005 at the time of the airborne survey (black squares). The 4170-Hz frequency explores from the land surface to an average depth of about 10 m.

LEGEND

- Monitoring Well Location
- Piezometer
- Petronila Creek Stream Gauging Location
- 42.14 Groundwater Elevation, Shallow Screen Interval
- 40.06 Groundwater Elevation, Intermediate Screen Interval
- 44.27 Groundwater Elevation, Deep Screen Interval
- 30.483 Surface Water Elevation next to Piezometer
- Groundwater Potentiometric Surface Contour, Feet Above Mean Sea Level

STATE OF TEXAS
JAMES M. HARTE
GEOLOGY
No. 4018
LICENSED
PROFESSIONAL GEOSCIENTIST
08/20/09

NOTES:

1. Source: U.S.G.S. Digital Ortho Quarter Quads (DOQQs) for Concordia NE (2004), Concordia NW (2004), Driscoll East NE (2004), Driscoll East NW (2004), Driscoll East SE (2004), and Driscoll East SW (2004), Texas DOQQs.
2. Source: BEG Airborne Geophysical Survey Report ("Figure 18 inset")
3. Elevations in feet above mean sea level.
4. Groundwater elevation data for P-PZ-02 is erroneous and is not used for creating contours.
5. Locations P-PZ-06, P-PZ-09, and P-PZ-12 were dry during the synoptic gauging event.

N

1,000 0 1,000
Feet

GROUNDWATER POTENTIOMETRIC MAP - MARCH 2009

RAILROAD COMMISSION OF TEXAS
PETRONILA CREEK

PROJECT NO.: 166420 | DATE: 6/12/2009

TRC
505 EAST HUNTLAND DRIVE
SUITE 250
AUSTIN, TEXAS 78752
512-329-6080

FIGURE 2-1

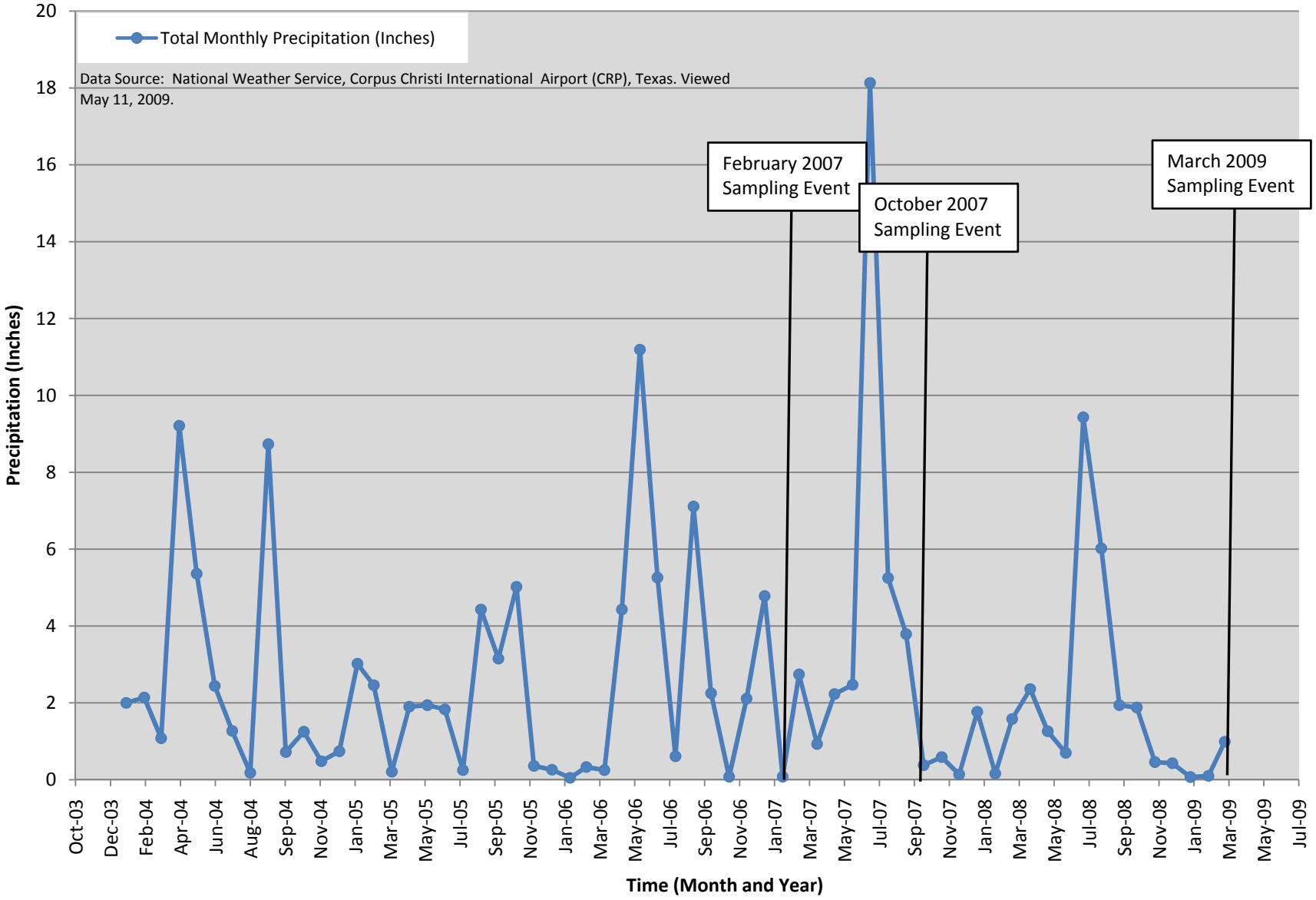
The potentiometric groundwater surface relative to surface water elevation observed during March 2009 is not a static system. Groundwater elevation is likely to increase or decrease depending upon the seasonal precipitation rates based on two observations: (1) the GWBU is unconfined so it receives recharge from precipitation; and, (2) groundwater gauging data collected over four events from shallow monitoring wells closest to Petronila Creek show that groundwater elevations have fluctuated between four feet (P-MW-06) and eleven feet (P-MW-03). Surface water elevations will also fluctuate due to precipitation. The extent of Petronila Creek where groundwater intersects the creek will fluctuate with changes in groundwater and surface water elevation with a larger extent of intersection occurring during wetter periods.

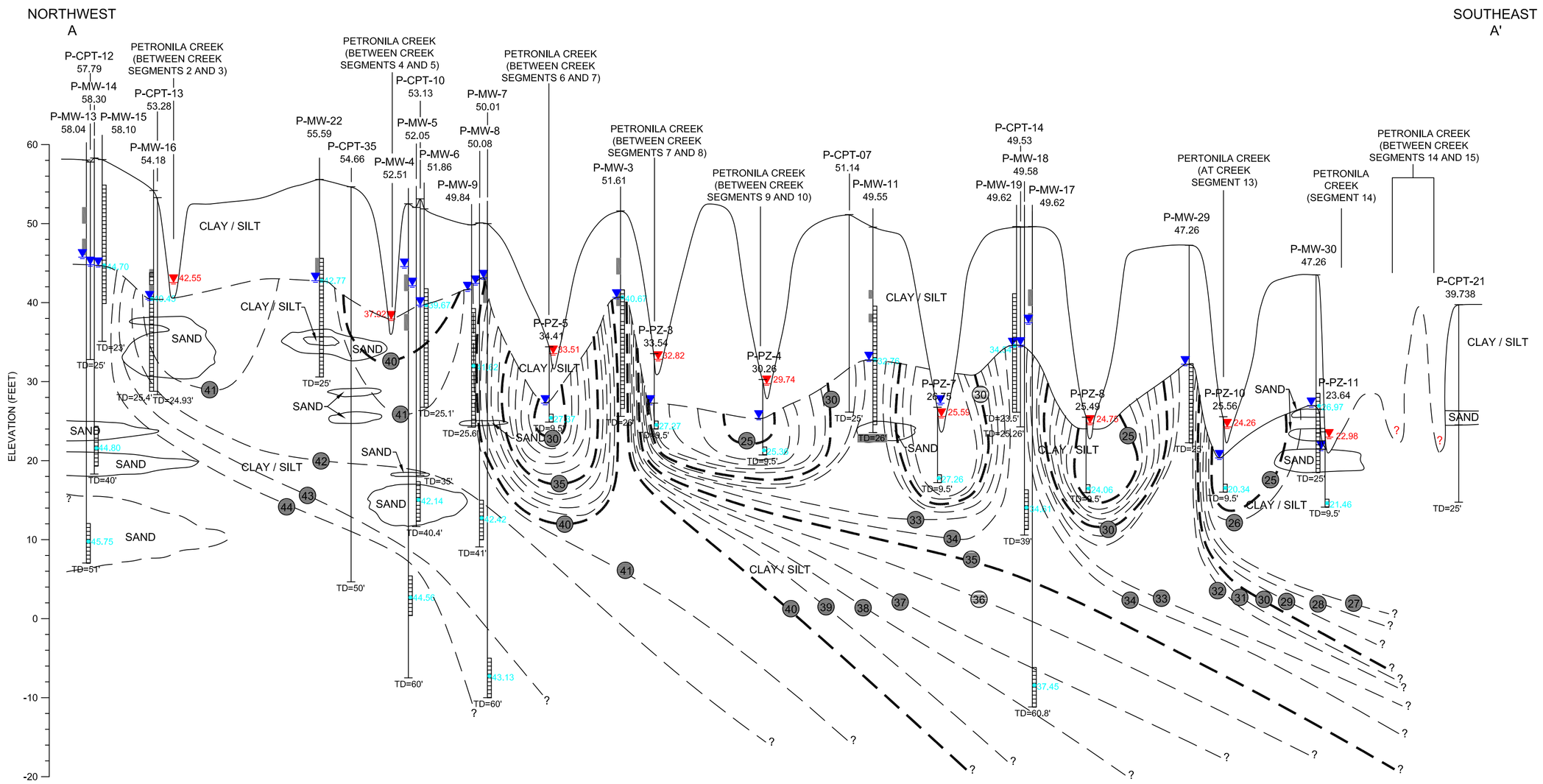
The highest groundwater elevations were observed during the October 2007 sampling event and are attributed to the significant amount of precipitation received in the area during July 2007, as shown in Figure 2-2. Since October 2007, gauging data have shown that groundwater elevations across the study area have steadily decreased. The decrease is likely due to the decrease in precipitation rates.

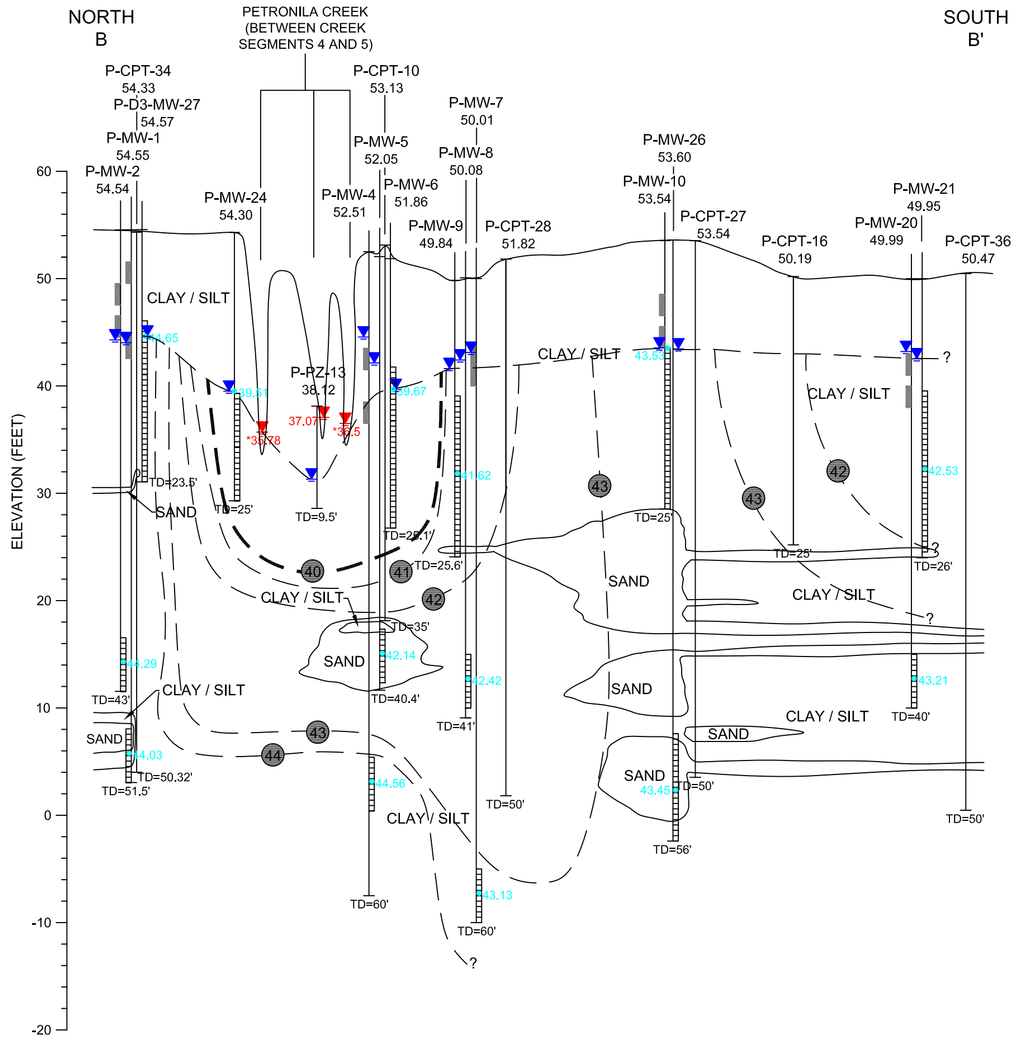
The groundwater gradient direction indicates regional flow to the southeast and is consistent with the historical groundwater gradient and flow directions observed in the study area. The groundwater gradient of the shallow portion of the GWBU is approximately 0.002 to 0.003 feet per feet. Closer to Petronila Creek, the March 2009 gauging data indicate an increase in gradient ranging from 0.005 to 0.008 feet per feet. Groundwater and surface water gauging data are tabulated in Table 1 of Appendix A.

The groundwater gauging data indicate the presence of vertical groundwater gradients (both upward and downward) around Petronila Creek. The generalized hydrogeologic cross-section, presented in the January 2009 CSM depicting the distribution of the hydraulic potential, was updated using gauging data collected during March 2009 and is depicted in Figure 2-3. It should be noted that the hydraulic equipotential lines and other features on Figure 2-3 are exaggerated 200 times.

Figure 2-2
Total Monthly Precipitation Data
Corpus Christi, Texas







LEGEND

- P-MW-2 / 54.54 - MONITORING WELL WITH GROUND SURFACE ELEVATION
- - ANALYTICAL SAMPLE LOCATION
- - GROUNDWATER ELEVATION (MARCH 2009)
- 38.12 - SCREENED INTERVAL / HYDRAULIC POTENTIAL (FT) (NAVD 88)
- TD=43 - TOTAL DEPTH
- P-CPT-02 - SOIL BORING
- - ANALYTICAL SAMPLE LOCATION
- TD=25' - TOTAL DEPTH
- 38.86 - PETRONILA CREEK SURFACE WATER ELEVATION (* SIGNIFIES APPROXIMATION)
- (40) - ESTIMATED HYDRAULIC EQUIPOTENTIAL LINES
- ? - SURFACE WATER ELEVATION UNKNOWN

NOTES:

1. TOPOGRAPHY ELEVATION BETWEEN SURVEYED LOCATIONS IS APPROXIMATE.
2. CREEK WIDTHS AND DITCH WIDTHS ARE EXAGGERATED FOR ILLUSTRATIVE PURPOSES ONLY.
3. BOTTOM OF CREEK IS APPROXIMATE.

SCALE:

VERTICAL : 1" = 10'
HORIZONTAL : 1" = 2000'
VERTICAL EXAGGERATION = 200X

STATE OF TEXAS
JAMES M. HARTE
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No. 4018
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08/21/09

GENERALIZED HYDROGEOLOGIC CROSS-SECTION

RAILROAD COMMISSION OF TEXAS
PETRONILA CREEK

PROJECT NO.	166420	DWG FILE	166420-CSM-2-3
DRAWN BY.	CL	DATE	8/21/09

TRC
505 EAST HUNTLAND DRIVE
SUITE 250
AUSTIN, TEXAS 78752
(512) 329-6080

FIGURE 2-3

The March 2009 data show that the equipotential distribution pattern in the GWBU remains consistent with historic interpretations presented in the January 2009 CSM, as follows:

- A shallow (local) system where groundwater further from Petronila Creek has a downward vertical gradient indicative of a recharge zone and groundwater adjacent to Petronila Creek has an upward vertical gradient indicative of discharge into Petronila Creek. An example of the recharge zone is at wells P-MW-1, P-MW-2, and P-D3-MW-27, while an example of the discharge zone is at wells P-MW-4, P-MW-5 and P-MW-6. The shallow zone is approximately 25 feet deep (elevation of 20 feet).

- A deep (regional) system where groundwater has a slight upward gradient and trends southeast, but does not discharge to surface water within the study area. The recharge zone for the regional system is located upgradient (northwest) beyond the study area.

Both groundwater systems are hydraulically connected, but remain differentiated based on their recharge/discharge zones as shown on Figure 2-3. The shallow groundwater flow system continues to indicate discharge of groundwater from the Chicot Aquifer to Petronila Creek as base flow. A comparison of piezometer and surface water elevations suggests discharge into Petronila Creek is not present or at least is not as prevalent upstream of FM 665 as compared to downstream of FM 665. Discharge into Petronila Creek is more prevalent downstream of FM 665 based on the intersection of the saturated zone with Petronila Creek. It is likely that the creek is incised deeper into the Beaumont Formation. Additional seasonal monitoring of the piezometers and surface water elevations on a periodic basis would better define the hydraulic relationship between groundwater and Petronila Creek during different seasonal and precipitation conditions. This hydraulic relationship is critical to understanding a portion of the loading of salinity into Petronila Creek.

Lithologic data collected during installation of eight monitoring wells in March 2009 confirm the lithologic heterogeneity of the Beaumont Formation, with layers ranging from clays to sands. Particle size analytical results of samples collected from sand intervals encountered during the March 2009 drilling identified the sand unit to be fine sand. As discussed in the January 2009 CSM, these sand units are likely elongated in shape and variable in extent due to the geomorphological behavior of Petronila Creek over time and the depositional facies of the Beaumont Formation.

The sand units are likely to provide preferential pathways of groundwater flow to the creek based on a higher hydraulic conductivity relative to the clay layers and were originally thought to present potential locations for more effective recovery of saline groundwater as a BMP. A spatial distribution of these higher permeability units relative to Petronila Creek was

evaluated in the January 2009 CSM using a three-dimensional computer model. Details and findings from this effort are discussed in the January 2009 CSM.

Additional monitoring wells were installed in March 2009 to better understand the continuity of the main sand unit identified in the January 2009 CSM. The findings from this investigation are presented in Section 2.2.

Aquifer parameters were evaluated using slug tests performed in five monitoring wells screened in the main sand unit in March 2009. The slug test data generated from these wells indicated hydraulic conductivities ranging between 3.09×10^{-5} centimeters per second (cm/sec) at P-MW-27 and 6.8×10^{-4} cm/sec at P-MW-30. This hydraulic conductivity range is consistent for silty, fine sand (Freeze and Cherry, 1976).

2.2 Salinity Distribution Around Petronila Creek

Historic oil and gas exploration and production management practices, discussed in Sections 1.1 and 1.2, have likely impacted soil, surface water, and groundwater. The local impacts of such operations were observed from in-situ conductivity measurements, using a CPT conductivity probe, as well as laboratory analyses of soil and water samples.

Several soil source areas identified during the Phase II and Phase III investigations were further evaluated through the collection of soil and sediment samples for laboratory analyses during the June 2008 investigation. The culmination of all soil and sediment data was presented in the September 2008 SFS, which identified the seven most likely source areas. The seven areas were ranked for BMP implementation in the 2008 SFS. Factors such as salinity concentration in soil, extent of impact, proximity to Petronila Creek, and proximity to groundwater were used to determine the BMP prioritization. Two basic migration pathways were hypothesized: (1) leaching from soil followed by percolation to the GWBU and then migration via the GWBU to the creek; and, (2) direct salinity loading to the creek by erosion and surface runoff. Potential source areas farther away from Petronila Creek could also contribute to salinity loading of Petronila Creek but at a slower rate and predominantly by downward leaching from soil followed by percolation to the GWBU and eventual migration via the GWBU to the creek. Due to the large study area and incomplete land use information, there may be other areas contributing to salinity in Petronila Creek that were not identified during the previous investigations.

A focused evaluation of soil BMPs for Areas 6 and 7 as presented in the July 2009 SFS Addendum refined migration pathways for salinity to reach Petronila Creek. The pathways are considered to be a combination of the following: (1) leaching from saline-impacted sediments to storm water that flows through the ditch and into the creek; and, (2) mobilization of saline-impacted sediments to the creek via erosion/entrainment and then direct salinity loading within

the creek. Infiltration through the bottom of the ditch and vertical percolation to the GWBU followed by advection to the creek may be a secondary transport mechanism. It is suspected to be less significant based on the low permeability and low infiltration capacity of the clay and sandy clay ditch beds and underlying soil, as well as the inherent design of the ditches to direct storm water to Petronila Creek. This is supported by analytical results of ditch bed samples from 2 to 3 feet, which show a decrease in chloride concentration as compared to ditch bed samples collected from 0 to 1 feet.

As presented in the July 2009 SFS Addendum, conductivity, TDS, and chloride concentrations in creek surface water have consistently been higher than sulfate concentrations. Therefore, conductivity, TDS, and chloride are considered the primary indicators of overall salinity levels. Based on this information, chloride in groundwater was selected as the primary indicator of salinity.

The March 2009 surface water results were compared to the February 2007 and October 2007 sampling results and are depicted on Figures 2-4 and 2-5. Figure 2-4 shows the results of samples collected at all creek locations during each sampling event. Samples were not collected at each creek location during the March 2009 sampling event and Figure 2-5 depicts the results of samples collected from the same locations during each sampling event. The results show increasing salinity trends downstream of segment 2, which is generally consistent with the February 2007 and October 2007 sampling results. The results also indicate higher chloride levels from samples collected in March 2009 and October 2007 than in February 2007. Overall, the chloride data for all March 2009 and October 2007 sampling events demonstrate that most of salinity loading occurs between segments 2 and 10, while data collected in February 2007 suggest that most of salinity loading occurs between segments 10 and 20.

Salinity in surface water upstream of FM 665 is also likely to be affected by saline-impacted surface water runoff flowing from the North Clara drainage ditch. Details regarding the distribution of salinity from drainage ditches and their potential effect on salinity loading of Petronila Creek are discussed in the 2008 SFS and 2009 SFS Addendum.

The elevated chloride concentrations in October 2007 as compared to February 2007 are attributed to the large precipitation event that occurred in July 2007 (Figure 2-2). This precipitation event likely caused a pulse of salinity to flow into the creek via storm water leaching from saline-impacted sediments in the ditches and mobilization of saline-impacted sediments to the creek via erosion/entrainment. The March 2009 chloride concentrations are similar to October 2007, yet the March 2009 sampling event was not preceded by a large precipitation event. It is speculated that infiltration (recharge) from the July 2007 precipitation event caused significant leaching of salinity to groundwater and this elevated salinity has

continued to impact Petronila Creek over a longer period of time as groundwater base flow. This suggests that groundwater base flow can have a longterm salinity impact to Petronila Creek.

A comparison of groundwater chloride data from the piezometers and adjacent surface water chloride data is shown in Figure 2-6. The chloride data in the piezometers ranged from 4,830 to 16,300 milligrams per liter (mg/L). Data from the piezometers located upstream of segment 10 indicated the highest chloride concentrations (average of 10,543 mg/L), and chloride concentrations notably higher than the adjacent surface water concentrations (between 4,000 and 7,000 mg/L). In comparison, data from the piezometers located downstream of segment 10 had lower chloride concentrations (average of 6,972 mg/L), and chloride concentration similar to the adjacent surface water (between 6,000 and 7,000 mg/L). Segment 10 is located near the FM 665 bridge. These data suggest groundwater base flow upstream of segment 10 has greater potential to impact surface water than downstream of segment 10. This is consistent with the greater saline loading noted in the creek upstream of segment 10. The limiting factor, as discussed in Section 2.1, is that the groundwater intersection with the creek is sporadic upstream of segment 10. These data suggest groundwater base flow is a key, long-term contributor to saline impacts at Petronila Creek. Since only one sampling event has been conducted at these piezometer/surface water pair locations, additional sampling is required to support these results.

Figure 2-4
Chloride Concentrations Along Petronila Creek
2007 Through 2009

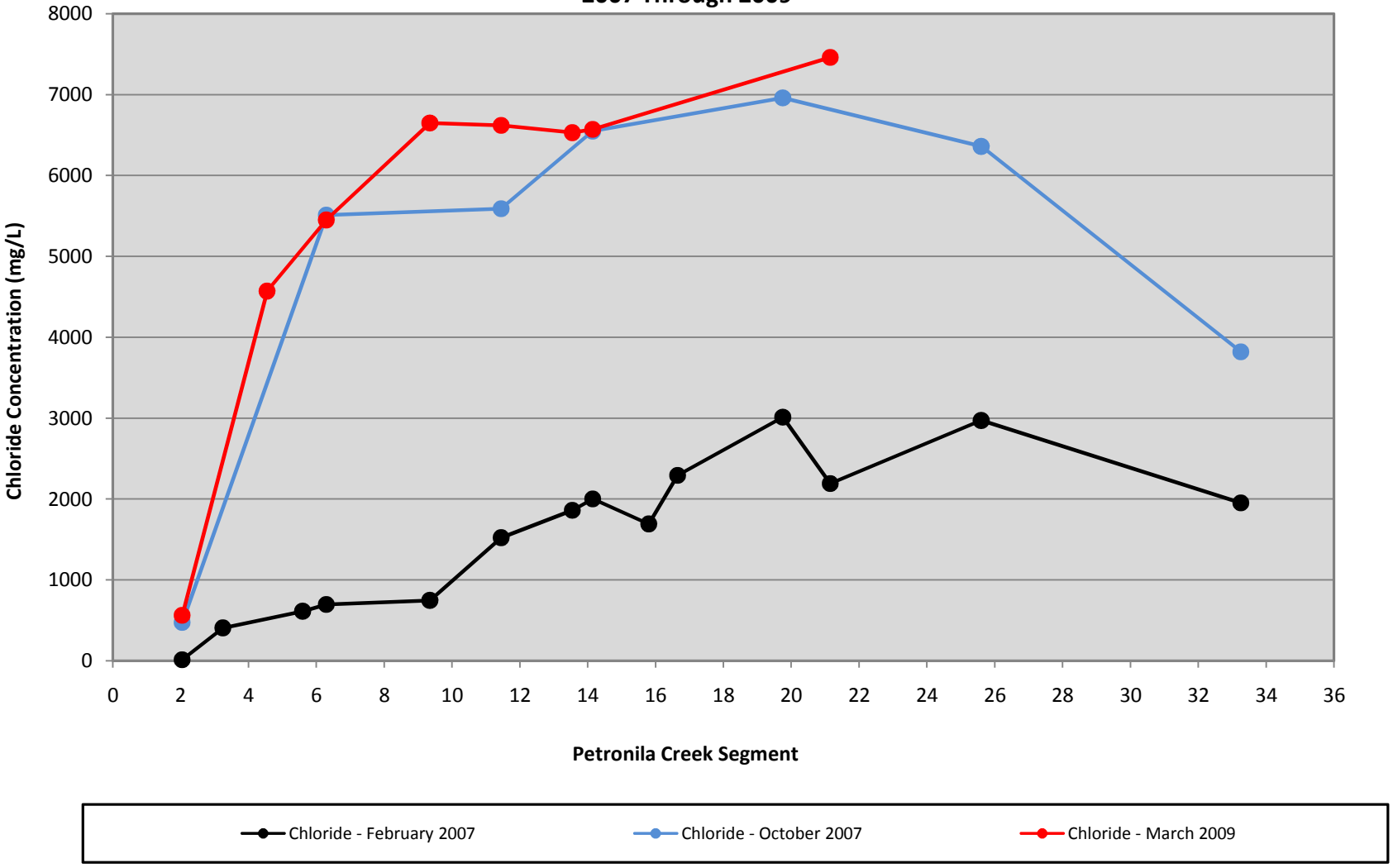


Figure 2-5
Chloride Concentrations at Corresponding Sample Locations
2007 Through 2009

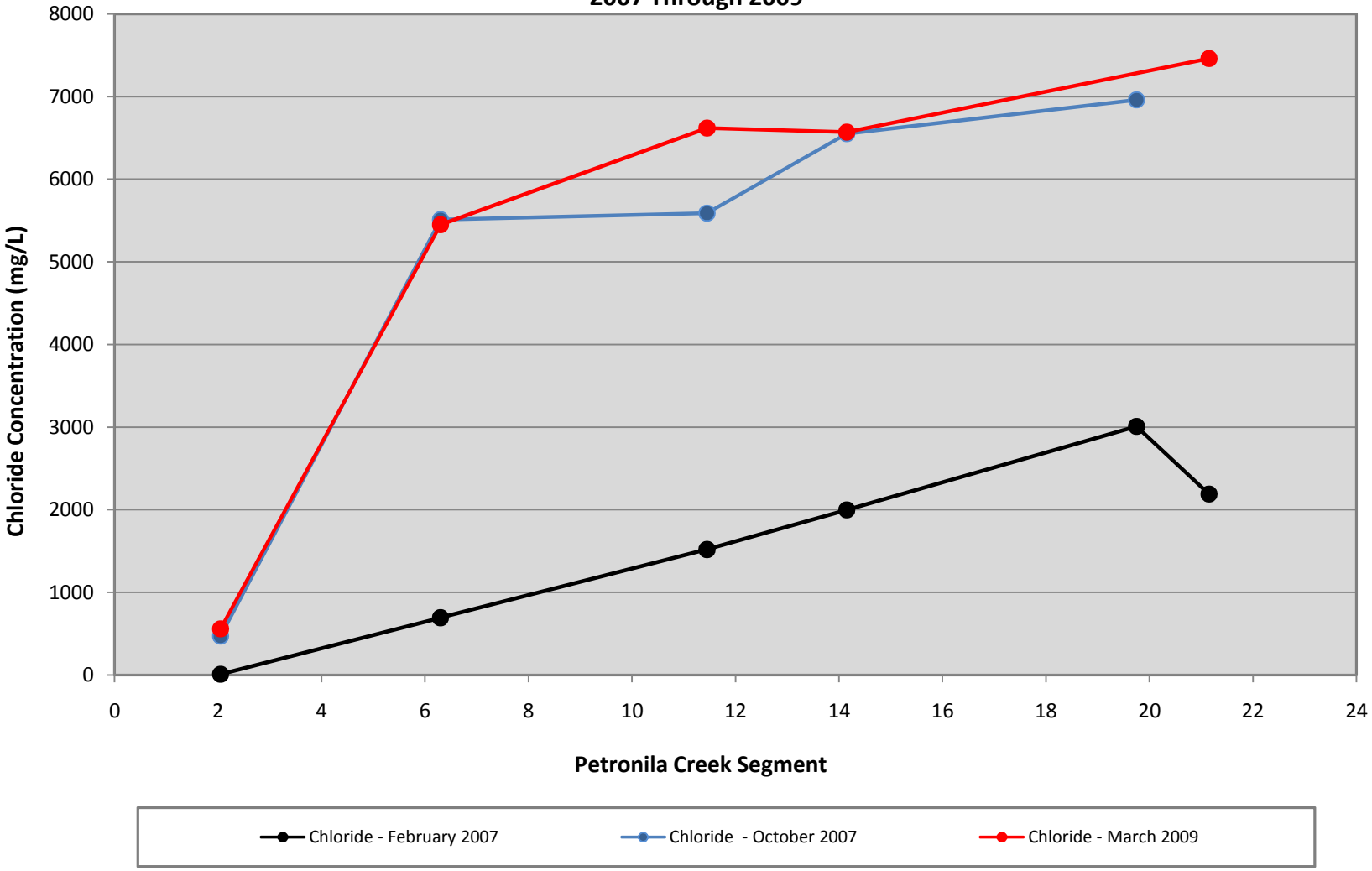
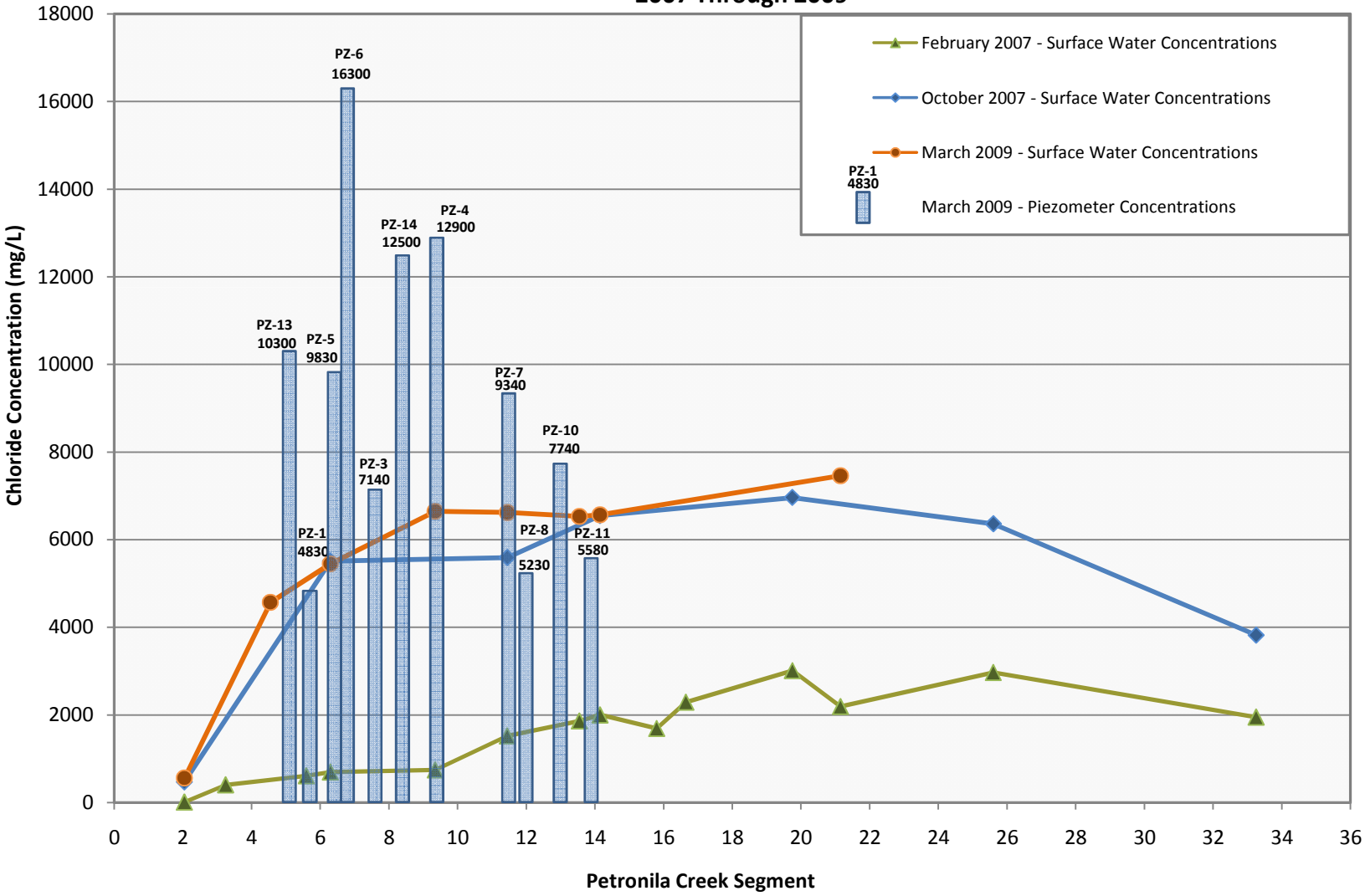


Figure 2-6
Surface Water and Piezometer Chloride Concentrations Along Petronila Creek
2007 Through 2009



The March 2009 chloride distribution in groundwater is consistent with the October 2007 observations. The March 2009 chloride concentrations in groundwater are presented in Figure 2-7.

The highest chloride concentrations were observed in the shallow monitoring wells located near or within some of the high chloride soil source areas identified in the 2008 SFS. These areas include the Driscoll #3 release site (Area 5); oil field wasteland areas near P-MW-3 (Area 3), P-MW-16 (north of Area 1) and P-MW-6 (Area 2); and, the CR18 ditch at P-MW-21 (Area 7). Within the areas where the greatest shallow impacts were observed, sample data from monitoring wells completed at consecutively deeper depths in the GWBU (i.e., intermediate depth interval followed by deep depth interval) also show high chloride levels, although, in most cases, the concentration is lower than the shallow wells. The data trend demonstrates that high concentration saline leachate percolates downward through saline-impacted soil into the shallow saturated zone, and continues to migrate downward within the GWBU driven by potentiometric head (recharge zones) and density until the hydraulic regime changes (discharge zone) or the density equilibrates with natural water. Upon equilibration, the elevated salinity plume would then advect with the groundwater gradient with eventual loading into Petronila Creek via shallow discharge zones (as supported by piezometer data).

The distribution of chlorides in groundwater observed during March 2009 indicates that elevated salinity across broad areas of the GWBU. The presence of a high chloride plume (greater than 10,000 mg/L) within the shallow saturated zone appears to emanate from the Driscoll #3 release site (Area 5) and moves downgradient to the south towards Petronila Creek (near P-MW-24) and to the southeast towards the North Clara Driscoll drainage ditch (near P-PZ-2) and Petronila Creek (near P-MW-3).

Groundwater samples collected from wells to the south of Area 5 show high concentrations of chloride close to Petronila Creek. The concentrations of chloride in wells P-MW-23 (19,000 mg/L) and P-MW-24 (31,200 mg/L) and piezometer P-PZ-13 (10,300 mg/L) suggest that chlorides from Area 5 have migrated southward and have the potential to impact Petronila Creek. This groundwater data support the interpretations of the three-dimensional model, which showed salinity movement from Area 5 downgradient to Petronila Creek. The plume in this area (P-MW-23 and P-MW-24) does not extend much further south of Petronila Creek, suggesting that a portion of the plume may intersect the creek during periods of higher groundwater elevation.

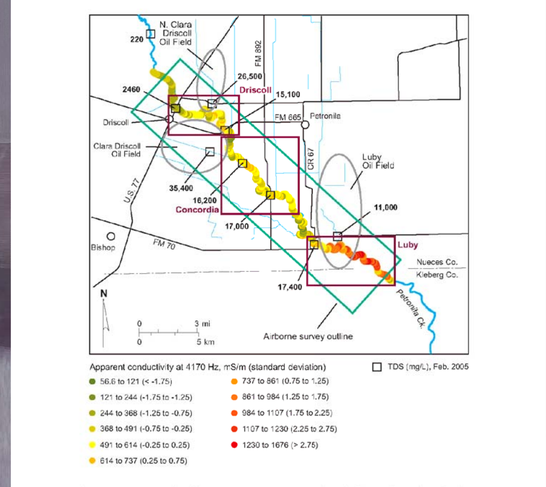


Figure 18. Apparent conductivity measured at 4170 Hz along the axis of Petronila Creek (colored dots). Also shown are the Driscoll, Concordia, and Luby high-conductivity areas (red rectangles) and Petronila Creek and tributary TDS concentrations measured in February 2005 at the time of the airborne survey (black squares). The 4170-Hz frequency explores from the land surface to an average depth of about 10 m.

LEGEND

- Monitoring Well Location
- Piezometer
- 12,500 Chloride Concentration, Shallow Screen Interval
- 6,480 Chloride Concentration, Intermediate Screen Interval
- 713 Chloride Concentration, Deep Screen Interval
- Chloride Isoconcentration Contour, Shallow Screen Interval
- Chloride Isoconcentration Contour, Intermediate Screen Interval

STATE OF TEXAS
JAMES M. HARTE
GEOLOGY
No. 4018
LICENSED
PROFESSIONAL GEOSCIENTIST
09/20/09

NOTES:

1. Source: U.S.G.S. Digital Ortho Quarter Quads (DOQQs) for Concordia NE (2004), Concordia NW (2004), Driscoll East NE (2004), Driscoll East NW (2004), Driscoll East SE (2004), and Driscoll East SW (2004), Texas DOQQs.
2. Source: BEG Airborne Geophysical Survey Report ("Figure 18 inset")
3. All concentrations in mg/L.
4. No data available at P-PZ-02, P-PZ-09, and P-PZ-12. No groundwater encountered in these piezometers at the time of sampling.

N

1,000 0 1,000
Feet

CHLORIDE CONCENTRATION IN GROUNDWATER - MARCH 2009

RAILROAD COMMISSION OF TEXAS
PETRONILA CREEK

PROJECT NO.: 166420 | DATE: 7/15/2009

TRC
505 EAST HUNTLAND DRIVE
SUITE 250
AUSTIN, TEXAS 78752
512-329-6080

FIGURE
2-7

The high chloride plume to the southeast of Area 5 extends towards segments 6 to 8 as shown by elevated chlorides in P-PZ-02 (12,700 mg/L), P-MW-03 (19,900 mg/L), and P-PZ-06 (16,300 mg/L). It is likely that Area 3 also contributes high chlorides to the groundwater plume based on analytical results of soil samples collected from this area as presented in the 2008 SFS. Both the chloride distribution and the groundwater intersection with the creek between segments 6 and 8 was not well understood and required clarification in the January 2009 CSM. Data from piezometers P-PZ-03, P-PZ-05, and P-PZ-06 provided detailed information about the hydrogeologic relationship and chloride distribution in this area. From Area 3, the elevated salinity plume continues southeast (downgradient) within close proximity to Petronila Creek as documented at P-PZ-06 (16,300 mg/L), P-PZ-14 (12,500 mg/L), and P-PZ-04 (12,900 mg/L). Farther downgradient, high chloride concentrations run parallel with Petronila Creek and are observed at multiple depths ranging from shallow well P-MW-19 (13,900 mg/L), to intermediate well P-MW-18 (16,500 mg/L), and finally deep well P-MW-27 (14,100 mg/L). The presence of high chlorides at various depths within the GWBU may be due to the influence of vertical gradients, natural dispersion from higher chlorides in upgradient areas, and high density saline source water. The plume crosses Petronila Creek near P-PZ-6 and P-MW-3 and then runs parallel to Petronila Creek from P-PZ-3 to P-PZ-08; along this entire stretch, the plume is likely to impact Petronila Creek to the degree that groundwater is intersecting the creek.

The conceptual evaluation of the chloride distribution in the downstream segment of Petronila Creek (segments 13 through 15) was not well understood in the January 2009 CSM. Monitoring wells P-MW-29 and P-MW-30, and piezometers P-PZ-10 and P-PZ-11 were installed to gain more information about the chloride distribution. Although chloride results from these monitoring wells/piezometers showed elevated chlorides ranging between 5,580 mg/L and 8,420 mg/L, these chloride concentrations may not provide significant loading to Petronila Creek.

The March 2009 results show a second smaller high chloride plume in the vicinity of P-MW-20 (intermediate well) and P-MW-21 (shallow well) consistent with October 2007 data. Downgradient from this area, groundwater concentrations in shallow wells P-MW-12 and P-MW-30 show that chloride is below 10,000 mg/L. The plume is small in lateral extent but has affected both the shallow and intermediate groundwater zones. This plume seems to be associated with historical discharge directly into the CR18 ditch. Most likely, the high saline water has sunk due to its density thus causing more vertical than lateral impacts.

2.3 Spatial Model Update

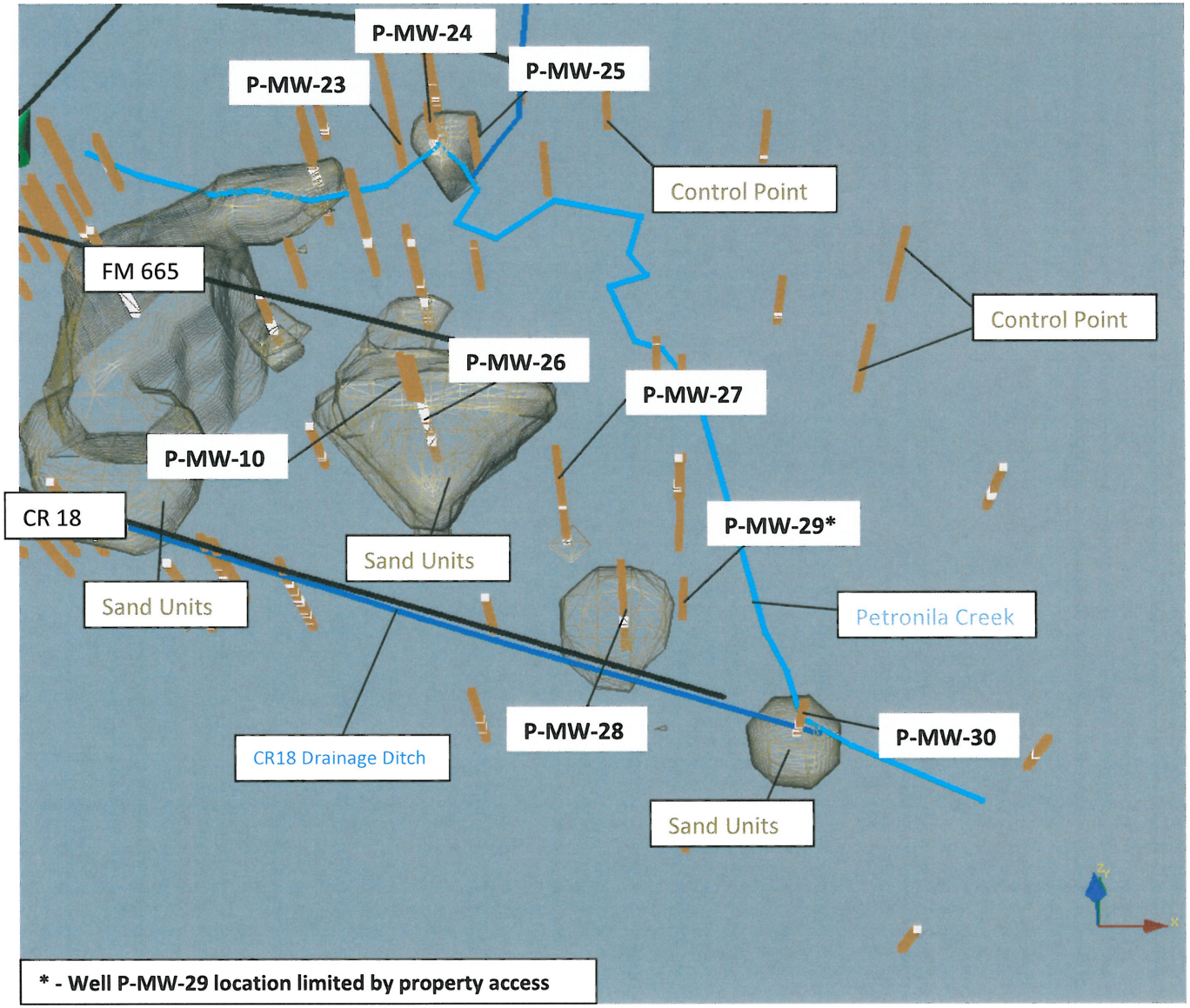
The three-dimensional model presented in the January 2009 CSM was constructed to analyze the spatial distribution of the sand units in the shallow portion of the Beaumont

Formation. CPT data incorporated into this model allowed visualization of the salinity distribution in the subsurface across the study area. The objectives of this model included: (1) visualization of the lateral continuity of coarser (sand) horizons in the GWBU relative to Petronila Creek to determine potential preferential pathways for salinity migration; and; (2) evaluation of the three-dimensional distribution of the salinity data relative to the creek. Indentifying the coarser-grained (sand) units would enhance an understanding of where the most hydraulically conductive units, which may act as preferential pathways, are located for eventual BMP evaluation.

Additional drilling in the study area was performed in March 2009. Soil borings were advanced in the southeastern portion of the study area between P-CPT-26 and P-CPT-19, where the lateral continuity of the sand unit required confirmation. Soil borings were also completed adjacent to the northern edge of Petronila Creek immediately south of Area 5 to determine the chloride distribution and lithology in this area.

Lithologic data collected in March 2009 was compiled and used to evaluate the study area identified in the January 2009 CSM. Soil samples from P-MW-26 confirmed a fine sand unit interbedded with clay layers at a depth ranging between 25 and 54 bgs. A fine sand unit from 17 to 25 feet bgs was also found at P-MW-30; the bottom of the soil boring for P-MW-30 did not encounter the lower contact of the sand unit. This sampling data supported the CPT interpretations in these areas. However, data from soil borings P-MW-27, P-MW-28, and P-MW-29 did not encounter the sand unit previously thought to be continuous in this area. In summary, there does not seem to be a major continuous sand unit from P-MW-26 to P-MW-30/Petronila Creek. The results of the sand distribution model are illustrated in Figure 2-8.

Soil sampling conducted during the installation of monitoring well P-MW-24 identified a sand unit along the north side of Petronila Creek and downgradient of Area 5. The unit is not laterally continuous to the east or west, as soil sampling from P-MW-23 (to the west) and P-MW-25 (to the east) did not encounter any sand.



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GEOLOGY
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PROFESSIONAL GEOSCIENTIST
08/20/09

TRC

Figure 2-8. Petronila Creek Sand Distribution Model
Conceptual Site Model Addendum – Petronila Creek, Nueces County, Texas
Railroad Commission of Texas

3.0 PRELIMINARY BMP FEASIBILITY EVALUATION

The overall goal of BMP implementation is to reduce the TDS, chloride, and sulfate load in Petronila Creek. BMPs evaluated for the study area considered the following critical factors: (1) elevated salinity in groundwater occurs over a large area; (2) the hydrogeology in the upper 60 feet is highly variable; (3) future usage of the creek and surrounding areas; (4) timeframe of the remediation effort; and, (5) the limitation of in-situ methods for remediating saline-impacted groundwater.

Groundwater data collected over the last three years show that large areas of the Chicot GWBU in the study area are impacted with elevated salinity, particularly chloride. Due to the large size of the chloride-impacted groundwater zone, a BMP would need to focus on the portions of the chloride plume with the highest concentrations and highest potential to impact Petronila Creek. The March 2009 groundwater data show that the area of the upper GWBU with the highest chloride concentrations starts near Area 5 and continues downgradient in the south and southeast directions as shown in Figure 2-7. In addition to the large area that would require mitigation, the difficultly of removing chlorides from groundwater in a cost effective manner further limits the BMP options capable of meeting the chloride reduction goals. The most effective BMP technology capable of meeting the BMP objective would be recovery (i.e., pump and disposal). This form of BMP coupled with the area requiring mitigation would require significant energy and monetary resources for application, sustained operation, maintenance, and disposal of saline water.

The lithology of the Beaumont Formation in the study area is heterogeneous, consisting primarily of unconsolidated clay and silts. These fine-grained unconsolidated units are interbedded with fine sand units ranging between five and ten feet in thickness; however, these sand units constitute a minor portion of the overall composition of the formation. Lithologic data show that these sand units are not continuous, nor do they necessarily contain the highest chloride concentrations. Therefore, these sand units are not reliable points for BMP application as it pertains to the overall BMP objective. The low hydraulic conductivity of these sand units further limits any BMP application. These data indicate that the hydrogeologic character of the upper Beaumont Formation would limit the spatial effectiveness of a BMP to reduce loading to Petronila Creek. Furthermore, due to the hydrogeologic character of the upper Beaumont Formation and extensive chloride distribution in the GWBU, a BMP would require significant amounts of operating time to effectively meet the overall objective of the BMP. In summary, a BMP to address the groundwater chloride plume would not be cost or time effective.

Historic and current usage of the area has primarily been for oil and gas operations, and agriculture. Observations of land use and conversations with local land owners and tenants indicate that agriculture primarily depends on seasonal precipitation as a water source.

Groundwater usage in the study area is limited. The soil source area at Driscoll #3 release site (Area 5) was not considered to be a significant salinity source area based on the information collected during the Phase III investigation and June 2008 soil sampling event. In the September 2008 SFS, this source area was not considered to present a high enough potential for salinity loading to Petronila Creek to warrant further BMP evaluation. The primary concern with Area 5 was leaching and downward percolation to the GWBU followed by advection to Petronila Creek via the groundwater gradient. Based on the distance of Area 5 from Petronila Creek and the predominant silts and clays in the subsurface, loading of saline-impacted groundwater from Area 5 was not considered a significant issue. However, data collected in March 2009 indicates the primary chloride plume (i.e., concentrations greater than 10,000 mg/L) that could impact Petronila Creek emanates from Area 5. The mitigation of saline leaching from this area may have a significant effect on reducing salinity levels in groundwater and therefore reducing loading into Petronila Creek. It is recommended that salinity distribution in this area be studied in greater detail followed by refinement of the soil BMP evaluation presented in the SFS Addendum dated July 2009.

4.0 CONCLUSIONS AND RECOMMENDATIONS

- The March 2009 data continue to show the presence of groundwater impacted with elevated salinity, which is consistent with the results of the January 2009 CSM. Although baseline, natural, salinity levels in the area may be elevated, soil and groundwater data collected over the life of this project indicate that historic oil and gas exploration and production activities have contributed to the elevated saline concentrations in soil, groundwater, and surface water.

- Hydrogeologic and salinity data presented in this report suggest interconnection between soil, groundwater, and surface water. The natural systems that connect these three media have resulted in salinity loading to Petronila Creek. Impacts to soils, migration pathways from soils to the creek, and soil-specific BMPs are addressed in the September 2008 SFS and July 2009 SFS Addendum.

- The March 2009 potentiometric groundwater surface indicates that base flow into the creek is more prevalent downstream of FM 665 than upstream of FM 665. In these downstream areas the potentiometric surface is higher than or nearly equal to surface water elevation. Based on the March 2009 observations, potentiometric data in the upstream segments of Petronila Creek suggest less, if any, groundwater base flow into the creek. The groundwater-surface water relationship is dynamic and a function of seasonal precipitation based on groundwater elevations collected over four events that have to have fluctuated several feet. It is likely that the primary loading mechanism to portions of the creek is base flow, which is enhanced following significant precipitation events.

- The March 2009 lithologic data is consistent with previous observations from drilling activities conducted in the study area for this project. The composition of the upper Beaumont is predominantly silts and clays interbedded with fine to very fine sand units ranging between 5 and 10 feet thick.

- Salinity distribution in the GWBU during March 2009 was relatively consistent with the October 2007 data. The chloride distribution data showed that a high chloride plume (i.e., greater than 10,000 mg/L) emanates from Area 5 and flows to the south towards Petronila Creek and to the southeast. The plume continues further downgradient (southeast) running parallel to the creek and monitor wells P-MW-18, P-MW-19, P-MW-27, and P-MW-28

- The distribution of salinity in the downstream portion of Petronila Creek (i.e., Creek segments 13 and 15) indicated concentrations of less than 10,000 mg/L. It is

speculated that the minor difference between potentiometric groundwater elevation and surface water elevations suggests that groundwater intersects Petronila Creek. While chlorides in this area are likely to intersect the creek, the concentrations are not significant enough for BMP implementation in this area.

- Lithologic data collected during March 2009 drilling operations were evaluated with the objective of determining the continuity of the main sand unit identified in the January 2009 CSM. The data indicate that the sand unit is not continuous between P-MW-26 and P-MW-30/Petronila Creek, suggesting that this area is not conducive for a BMP.

- The culmination of factors discussed in this report suggests that it is not cost or time effective to implement a BMP (e.g, recovery and disposal) that directly addresses the impacted groundwater. Implementation of a BMP such as groundwater recovery would consume large amounts of energy and monetary resources over a long period of time. The waste generated from a groundwater BMP would require additional resources and money because disposal of the saline-impacted groundwater would be necessary.

- As an alternative, the recommended BMP is to address the primary source area (i.e., Area 5) impacting groundwater. In addition, the SFS Addendum recommended a BMP of removing saline-impacted sediments from the Areas 6 and 7.

5.0 REFERENCES

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APPENDIX A
TABLES

APPENDIX A, TABLE 1. SURFACE WATER AND GROUNDWATER GAUGING RESULTS

Location ID	Screen Interval	Date Water Level Measured	Ground Elevation feet	Measuring Point feet	Depth to Water feet btoc	Total Depth of Well feet btoc	Water Elevation feet amsl
P-MW-01	D	10/2/07	54.55	57.61	13.25	54.55	44.36
P-MW-01	D	10/24/07	54.55	57.61	13.34	NM	44.27
P-MW-01	D	12/6/07	54.55	57.61	13.34	NM	44.27
P-MW-01	D	6/19/08	54.55	57.61	13.37	NM	44.24
P-MW-01	D	3/17/09	54.55	57.61	13.58	NM	44.03
P-MW-02	I	10/2/07	54.54	57.25	12.10	45.67	45.15
P-MW-02	I	10/24/07	54.54	57.25	30.65	NM	26.60
P-MW-02	I	12/6/07	54.54	57.25	17.19	NM	40.06
P-MW-02	I	6/19/08	54.54	57.25	13.05	NM	44.20
P-MW-02	I	3/17/09	54.54	57.25	12.96	NM	44.29
P-MW-03	S	10/24/07	51.61	54.65	11.25	28.51	43.40
P-MW-03	S	12/6/07	51.61	54.65	23.07	28.51	31.58
P-MW-03	S	6/19/08	51.61	54.65	16.53	NM	38.12
P-MW-03	S	3/17/09	51.61	54.65	13.98	NM	40.67
P-MW-04	D	10/3/07	52.51	54.46	9.22	54.03	45.24
P-MW-04	D	10/24/07	52.51	54.46	10.42	NM	44.04
P-MW-04	D	12/6/07	52.51	54.46	9.14	NM	45.32
P-MW-04	D	6/19/08	52.51	54.46	10.10	NM	44.36
P-MW-04	D	3/17/09	52.51	54.46	9.90	NM	44.56
P-MW-05	I	10/3/07	52.05	54.72	9.75	42.68	44.97
P-MW-05	I	10/24/07	52.05	54.72	10.35	NM	44.37
P-MW-05	I	12/6/07	52.05	54.72	10.61	NM	44.11
P-MW-05	I	6/19/08	52.05	54.72	11.96	NM	42.76
P-MW-05	I	3/17/09	52.05	54.72	12.58	NM	42.14
P-MW-06	S	10/3/07	51.86	55.16	11.12	28.40	44.04
P-MW-06	S	10/24/07	51.86	55.16	11.85	NM	43.31
P-MW-06	S	12/6/07	51.86	55.16	12.55	NM	42.61
P-MW-06	S	6/19/08	51.86	55.16	14.50	NM	40.66
P-MW-06	S	3/17/09	51.86	55.16	15.49	NM	39.67
P-MW-07	D	10/3/07	50.01	52.84	5.51	56.65	47.33
P-MW-07	D	10/24/07	50.01	52.84	7.47	NM	45.37
P-MW-07	D	12/6/07	50.01	52.84	7.71	NM	45.13
P-MW-07	D	6/19/08	50.01	52.84	8.69	NM	44.15
P-MW-07	D	3/17/09	50.01	52.84	9.71	NM	43.13
P-MW-08	I	10/3/07	50.08	52.54	6.16	42.60	46.38
P-MW-08	I	10/24/07	50.08	52.54	7.03	NM	45.51
P-MW-08	I	12/6/07	50.08	52.54	7.41	NM	45.13
P-MW-08	I	6/19/08	50.08	52.54	8.61	NM	43.93
P-MW-08	I	3/17/09	50.08	52.54	10.12	NM	42.42
P-MW-09	S	10/3/07	49.84	52.43	6.06	27.75	46.37
P-MW-09	S	10/24/07	49.84	52.43	6.58	NM	45.85
P-MW-09	S	12/6/07	49.84	52.43	6.95	NM	45.48
P-MW-09	S	6/19/08	49.84	52.43	8.24	NM	44.19
P-MW-09	S	3/17/09	49.84	52.43	10.81	NM	41.62
P-MW-10	S	10/1/07	53.54	56.14	8.10	27.52	48.04
P-MW-10	S	10/24/07	53.54	56.14	8.72	NM	47.42
P-MW-10	S	12/6/07	53.54	56.14	9.30	NM	46.84
P-MW-10	S	6/19/08	53.54	56.14	11.56	NM	44.58
P-MW-10	S	3/17/09	53.54	56.14	12.61	NM	43.53
P-MW-11	S	10/1/07	49.55	51.90	16.54	27.66	35.36
P-MW-11	S	10/24/07	49.55	51.90	16.74	NM	35.16
P-MW-11	S	12/6/07	49.55	51.90	17.03	NM	34.87
P-MW-11	S	6/19/08	49.55	51.90	18.80	NM	33.10
P-MW-11	S	3/17/09	49.55	51.90	19.14	NM	32.76

APPENDIX A, TABLE 1. SURFACE WATER AND GROUNDWATER GAUGING RESULTS

Location ID	Screen Interval	Date Water Level Measured	Ground Elevation feet	Measuring Point feet	Depth to Water feet btoc	Total Depth of Well feet btoc	Water Elevation feet amsl
P-MW-12	S	10/1/07	47.41	49.78	5.15	27.75	44.63
P-MW-12	S	10/24/07	47.41	49.78	6.54	NM	43.24
P-MW-12	S	12/6/07	47.41	49.78	7.64	NM	42.14
P-MW-12	S	6/19/08	47.41	49.78	9.81	NM	39.97
P-MW-12	S	3/17/09	47.41	49.78	12.71	NM	37.07
P-MW-13	D	10/2/07	58.04	60.25	12.30	53.07	47.95
P-MW-13	D	10/24/07	58.04	60.25	12.78	NM	47.47
P-MW-13	D	12/6/07	58.04	60.25	13.06	NM	47.19
P-MW-13	D	6/19/08	58.04	60.25	14.16	NM	46.09
P-MW-13	D	3/17/09	58.04	60.25	14.50	NM	45.75
P-MW-14	I	10/2/07	58.30	60.72	13.47	40.15	47.25
P-MW-14	I	10/24/07	58.30	60.72	14.20	NM	46.52
P-MW-14	I	12/6/07	58.30	60.72	14.55	NM	46.17
P-MW-14	I	6/19/08	58.30	60.72	15.68	NM	45.04
P-MW-14	I	3/17/09	58.30	60.72	15.92	NM	44.80
P-MW-15	S	10/2/07	58.10	61.20	14.09	21.48	47.11
P-MW-15	S	10/24/07	58.10	61.20	14.68	NM	46.52
P-MW-15	S	12/6/07	58.10	61.20	15.13	NM	46.07
P-MW-15	S	6/19/08	58.10	61.20	16.14	NM	45.06
P-MW-15	S	3/17/09	58.10	61.20	16.50	NM	44.70
P-MW-16	S	10/2/07	54.18	56.80	14.72	28.05	42.08
P-MW-16	S	10/24/07	54.18	56.80	15.50	NM	41.30
P-MW-16	S	12/6/07	54.18	56.80	15.81	NM	40.99
P-MW-16	S	6/19/08	54.18	56.80	16.89	NM	39.91
P-MW-16	S	3/17/09	54.18	56.80	16.35	NM	40.45
P-MW-17	D	10/3/07	49.62	51.54	4.52	62.70	47.02
P-MW-17	D	10/24/07	49.62	51.54	35.34	NM	16.20
P-MW-17	D	12/6/07	49.62	51.54	13.34	NM	38.20
P-MW-17	D	6/19/08	49.62	51.54	12.70	NM	38.84
P-MW-17	D	3/17/09	49.62	51.54	14.09	NM	37.45
P-MW-18	I	10/3/07	49.58	52.03	10.04	40.75	41.99
P-MW-18	I	10/24/07	49.58	52.03	10.44	NM	41.59
P-MW-18	I	12/6/07	49.58	52.03	11.05	NM	40.98
P-MW-18	I	6/19/08	49.58	52.03	14.44	NM	37.59
P-MW-18	I	3/17/09	49.58	52.03	17.42	NM	34.61
P-MW-19	S	10/3/07	49.62	52.34	11.64	24.05	40.70
P-MW-19	S	10/24/07	49.62	52.34	11.14	NM	41.20
P-MW-19	S	12/6/07	49.62	52.34	11.13	NM	41.21
P-MW-19	S	6/19/08	49.62	52.34	14.54	NM	37.80
P-MW-19	S	3/17/09	49.62	52.34	17.80	NM	34.54
P-MW-20	I	10/2/07	49.99	52.28	5.14	41.13	47.14
P-MW-20	I	10/24/07	49.99	52.28	7.22	NM	45.06
P-MW-20	I	12/6/07	49.99	52.28	7.75	NM	44.53
P-MW-20	I	6/19/08	49.99	52.28	9.24	NM	43.04
P-MW-20	I	3/17/09	49.99	52.28	9.07	NM	43.21
P-MW-21	S	10/2/07	49.95	52.43	7.83	28.24	44.60
P-MW-21	S	10/24/07	49.95	52.43	8.52	NM	43.91
P-MW-21	S	12/6/07	49.95	52.43	8.80	NM	43.63
P-MW-21	S	6/19/08	49.95	52.43	10.05	NM	42.38
P-MW-21	S	3/17/09	49.95	52.43	9.90	NM	42.53
P-MW-22	S	10/1/07	55.59	58.31	9.59	27.67	48.72
P-MW-22	S	10/24/07	55.59	58.31	12.50	NM	45.81
P-MW-22	S	12/6/07	55.59	58.31	12.78	NM	45.53
P-MW-22	S	6/19/08	55.59	58.31	13.72	NM	44.59
P-MW-22	S	3/17/09	55.59	58.31	15.54	NM	42.77
P-MW-23	S	3/17/09	50.27	53.45	13.44	28.18	40.01
P-MW-24	S	3/17/09	54.30	57.62	18.11	28.32	39.51
P-MW-25	S	3/17/09	54.61	57.67	19.50	28.06	38.17

APPENDIX A, TABLE 1. SURFACE WATER AND GROUNDWATER GAUGING RESULTS

Location ID	Screen Interval	Date Water Level Measured	Ground Elevation feet	Measuring Point feet	Depth to Water feet btoc	Total Depth of Well feet btoc	Water Elevation feet amsl
P-MW-26	D	3/17/09	53.60	56.55	13.10	58.95	43.45
P-MW-27	D	3/17/09	49.84	52.80	13.26	67.96	39.54
P-MW-28	I	3/17/09	49.96	52.76	17.25	47.80	35.51
P-MW-29	S	3/17/09	47.26	50.27	18.06	28.01	32.21
P-MW-30	S	3/17/09	43.51	46.66	19.69	28.15	26.97
P-D2-MW-12	S	10/3/07	52.94	56.04	6.89	25.72	49.15
P-D2-MW-12	S	10/24/07	52.94	56.04	7.48	NM	48.56
P-D2-MW-12	S	12/6/07	52.94	56.04	8.08	NM	47.96
P-D2-MW-12	S	6/19/08	52.94	56.04	10.22	NM	45.82
P-D2-MW-12	S	3/18/09	52.94	56.04	11.16	NM	44.88
P-D3-MW-27	S	10/3/07	54.57	57.20	11.32	23.54	45.88
P-D3-MW-27	S	10/24/07	54.57	57.20	11.38	NM	45.82
P-D3-MW-27	S	12/6/07	54.57	57.20	11.42	NM	45.78
P-D3-MW-27	S	6/19/08	54.57	57.20	11.80	NM	45.40
P-D3-MW-27	S	3/17/09	54.57	57.20	12.55	NM	44.65
P-SG-02	PC	10/24/07	NA	64.43	21.40	NM	43.03
P-SG-02	PC	12/6/07	NA	64.43	21.40	NM	43.03
P-SG-02	PC	6/19/08	NA	64.43	DRY	21.53	NA
P-SG-02	PC	3/17/09	NA	65.43	21.50	NM	43.93
P-SG-11	PC	10/24/07	NA	54.55	27.00	NM	27.55
P-SG-11	PC	12/6/07	NA	54.55	27.00	NM	27.55
P-SG-10	PC	6/19/08	NA	54.55	26.87	27.40	27.68
P-SG-10	PC	3/17/09	NA	55.55	27.03	NM	28.52
P-SG-15	PC	10/24/07	NA	NM	20.93	NM	NA
P-SG-15	PC	6/19/08	NA	29.44	19.90	20.54	9.54*
P-SG-15	PC	3/17/09	NA	NM	19.83	NM	NA
P-SG-CR24	PC	6/19/08	NA	56.57	17.45	17.50	39.12
P-PZ-01	S	3/19/09	35.891	38.10	8.66	9.53	29.44
P-PZ-02	S	3/19/09	38.202	41.36	*9.18*	9.53	32.18
P-PZ-03	S	3/19/09	33.542	36.29	*9.02*	9.53	27.27
P-PZ-04	S	3/19/09	30.264	33.51	8.15	9.54	25.36
P-PZ-05	S	3/19/09	34.408	36.55	*9.23*	9.53	27.32
P-PZ-06	S	3/19/09	33.381	35.89	Dry	9.53	NA
P-PZ-07	S	3/19/09	26.754	28.65	1.39	9.53	27.26
P-PZ-08	S	3/19/09	25.490	28.45	4.39	9.53	24.06
P-PZ-09	S	3/20/09	24.363	27.38	Dry	9.53	NA
P-PZ-10	S	3/20/09	25.559	27.24	6.90	9.54	20.34
P-PZ-11	S	3/20/09	23.642	26.67	5.21	9.53	21.46
P-PZ-12	S	3/20/09	38.800	41.45	Dry	9.53	NA
P-PZ-13	S	3/20/09	38.124	39.71	8.39	9.53	31.32
P-PZ-14	S	3/19/09	30.770	31.13	6.38	6.50	24.75

Notes:

S	Shallow well
I	Intermediate well
D	Deep well
MW	Monitoring Well
SG	Stream gauging station
PZ	Piezometer
amsl	Above mean sea level
btoc	Below top of casing
Italics	Estimated
NM	Not measured

APPENDIX A, TABLE 2. SURFACE WATER SAMPLING RESULTS

Sample ID	Petronila Creek Segment (km)	Sample Date	Field Results				Laboratory Results														
								Anions				Alkalinity (As CaCO3)				Cations					
			Chloride	Conductivity	pH	TDS	TDS	Bromide	Chloride	Nitrate-N	Sulfate	Bicarbonate	Carbonate	Hydroxide	Total	Barium	Calcium	Iron	Magnesium	Potassium	Sodium
			mg/L	uS/cm	S.U.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Samples Along Petronila Creek																					
P-CS-01	-0.421	2/12/07	28.25	24	7.5	150	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
P-CS-02	2.05	2/12/07	29.5	26	7.5	170	309	0.3 U	11.1	- -	6.52	97	10 U	10 U	97	0.14	31.6	0.495	3.38	8.74	10.1
P-CS-02	2.05	10/25/07	- -	2083	7.84	1547	1300	1.85	472	0.1 U	173	210	10 U	10 U	210	0.249	172	0.1	19.3	13.4	174
P-CS-02	2.05	3/20/09	- -	2752	8.44	2041	1880	2.06	561	6.28	262	512	10 U	10 U	512	0.0988	104	0.188	19.8	5.83	553
P-CS-03	3.25	2/12/07	443	1700	7.4	1100	961	0.974 J	405	- -	100	110	10 U	10 U	110	0.135	91.7	0.229	16.8	9.07	197
P-CS-04	4.55	2/12/07	533	2100	7.4	1400	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
P-CS-04	4.55	3/20/09	- -	14830	8.07	13200	10400	12.7	4570	1.05	1080	122	39.2	10 U	161	0.125	776	0.158	181	17.6	2180
P-CS-05	5.6	2/13/07	730	2700	6.4	1700	1360	1.45	611	- -	128	116	10 U	10 U	116	0.161	142	0.233	26.2	10.6	312
P-CS-06	6.3	2/13/07	775	3020	7.5	1900	1490	1.69	695	- -	141	115	10 U	10 U	115	0.156	149	0.217	27.3	10.4	356
P-CS-06	6.3	10/25/07	- -	16590	7.97	15430	12400	10.4	5510	2.15	1090	191	10 U	10 U	191	0.434	857	0.131	181	21.4	2710
P-CS-06	6.3	3/20/09	- -	17760	8.1	17760	11700	15.7	5450	0.5 U	1170	89.9	22.2	10 U	112	0.126	807	0.383	190	19	2810
P-CS-07	7.7	2/13/07	720	2980	7.6	1900	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
P-CS-08	8.25	2/13/07	730	2950	8.2	1900	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
P-CS-09	9.35	2/13/07	750	3120	8.4	2000	1590	1.74	745	- -	135	115	10 U	10 U	115	0.168	152	0.394	29.2	10.6	347
P-CS-09	9.35	3/20/09	- -	21810	7.43	20370	14500	20	6650	0.5 U	1280	89	10 U	10 U	89	0.162	948	0.33	223	24.1	3290
P-CS-10	10.4	2/13/07	980	3540	8.3	2300	1800	2.04	843	- -	148	117	10 U	10 U	117	0.173	185	0.191	32.8	10.4	423
P-CS-11	11.45	2/15/07	1730	5710	7.5	3600	3090	4.46 J	1520	- -	261	142	10 U	10 U	142	0.193	278	0.299	50.8	11.1	605
P-CS-11	11.45	10/25/07	- -	16400	7.09	15010	11800	17	5590	1.98	937	204	10 U	10 U	204	0.34	970	0.0785 J	190	18.3	2460
P-CS-11	11.45	3/20/09		21310	7.3	20180	14400	19.3	6620	0.973	1290	153	10 U	10 U	153	0.146	1120	0.192	237	20.4	3270
P-CS-11-D	11.45	3/20/09		21310	7.3	20180	14600	19	6530	1.03	1280	152	10 U	10 U	152	0.141	1090	0.197	231	19.8	3240
P-CS-12	12.55	2/15/07	1800	5770	7.6	3600	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
P-CS-13	13.55	2/15/07	2050	6500	7.6	4100	3790	5.45 J	1860	- -	315	151	10 U	10 U	151	0.2	324	0.0991 J	56.6	11	760
P-CS-13A	13.55	3/20/09	- -	21100	7.04	20160	15000	18.3	6530	0.5 U	1260	172	10 U	10 U	172	0.133	1070	0.256	227	18.1	3060
P-CS-14	14.15	2/15/07	2110	6700	7.8	4200	3830	5.41 J	2000	- -	335	153	10 U	10 U	153	0.189	342	0.204	58.2	10.5	838
P-CS-14	14.15	10/25/07	- -	19220	7.66	18300	13300	13.6	6550	1.9	1290	203	10 U	10 U	203	0.275	991	0.0792 J	206	17.6	3200
P-CS-14	14.15	3/20/09	- -	21340	7.13	20370	14900	19	6570	0.5 U	1300	110	10 U	10 U	110	0.124	1100	0.2	242	18.3	3340
P-CS-15	15.8	2/13/07	1650	6110	8.0	3900	3160	3.52	1690	- -	255	139	10 U	10 U	139	0.187	296	0.203	57.8	10.8	764
P-CS-16	16.65	2/15/07	2510	8840	8.3	5600	4470	5.08 J	2290	- -	324	155	10 U	10 U	155	0.199	383	0.166	77.4	11.4	942
P-CS-17	17.15	2/15/07	2900	9700	8.4	6000	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
P-CS-19	19.75	2/15/07	3100	11100	8.2	7000	5820	5.79	3010	- -	544	162	10 U	10 U	162	0.196	529	0.287	95.8	12.3	1280
P-CS-19	19.75	10/25/07	- -	20170	7.24	19290	14400	17.3	6960	8.94	1240	178	10 U	10 U	178	0.298	1140	1.6	231	19.8	3200
P-CS-21	21.15	2/13/07	2200	8200	8.5	5200	4340	4.85	2190	- -	366	136	11.2	10 U	147	0.192	399	0.18	79.2	11.2	961
P-CS-21	21.15	3/20/09	- -	23860	8.1	11120	16600	21.6	7460	0.5 U	1370	82.3	10 U	10 U	82.3	0.114	1220	0.314	263	18.2	3470
P-CS-25	25.6	2/15/07	3180	11100	8.3	7000	5760	5.6	2970	- -	486	157	10 U	10 U	157	0.206	507	0.181	97.2	11.8	1290
P-CS-25	25.6	10/25/07	- -	18410	7.88	17390	12800	16.4	6360	8.95	1250	162	10 U	10 U	162	0.264	989	0.0829 J	209	17.7	2890
P-CS-29	29.3	2/15/07	2470	8910	8.5	5600	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
P-CS-33	33.25	2/15/07	2050	7460	8.2	4700	3870	4.77 J	1950	- -	305	141	10 U	10 U	141	0.192	335	0.193	63.8	11	870
P-CS-33	33.25	10/25/07	- -	12120	8.1	10670	7900	8.66	3820	0.1 U	822	152	10 U	10 U	152	0.313	572	0.146	126	18.4	1850
P-CS-02-Discharge		2/12/07	260	1400	4.5	900	705	0.3 U	204	- -	89	10 U	10 U	10 U	10 U	0.193	65.2	0.248	11.8	19.7	140

APPENDIX A, TABLE 2. SURFACE WATER SAMPLING RESULTS

Sample ID	Petronila Creek Segment (km)	Sample Date	Field Results				Laboratory Results													
								Anions				Alkalinity (As CaCO3)				Cations				
			Chloride	Conductivity	pH	TDS	TDS	Bromide	Chloride	Nitrate-N	Sulfate	Bicarbonate	Carbonate	Hydroxide	Total	Barium	Calcium	Iron	Magnesium	Potassium	Sodium
			mg/L	uS/cm	S.U.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Pond																					
P-P-01	NA	2/15/07	505	2380	8.4	1500	1120	2.02	498	- -	119	139	10 U	10 U	139	0.317	95.4	0.231	18.5	7.55	234
North Clara Driscoll Ditch																					
P-D-01	NA	2/14/07	7600	20700	8.5	13000	12500	16.5	6880		1200	109	10 U	10 U	109	0.206	537	0.123	102	14.7	3460
P-D-01	NA	10/25/07	- -	41960	6.18	46850	31600	37.8	16200	2.35 J	2780	186	10 U	10 U	186	0.308	1500	0.65	296	33.2	8780
P-D-01	NA	3/20/09	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
P-D-02	NA	2/14/07	267.5	1610	8.4	1000	863	0.897 J	245		182	174	10 U	10 U	174	0.137	74.5	0.216	7.6	6.56	184
P-D-02	NA	10/25/07	- -	6951	7.12	5800	4260	3.22	1200	0.1 U	1370	223	10 U	10 U	223	0.316	318	0.102	36.1	12.3	980
P-D-02	NA	3/20/09	- -	17210	7.92	15210	12100	12.5	3970	5.2	3310	247	10 U	10 U	247	0.04	479	0.238	70.6	17.5	3250
P-D-03	NA	2/14/07	48.8	49.5	8.8	320	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
P-D-03	NA	3/20/09	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
P-D-04	NA	2/14/07	84	82.1	8.2	520	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
P-D-04	NA	3/20/09	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
P-D-10	NA	3/19/09	- -	47400	7.13	51310	37400	61.4	17700	1 U	2850	116	10 U	10 U	116	0.164	1520	0.224	337	38.4	9080
Clara Driscoll Ditch (CR 18)																					
P-D-05	NA	2/15/07	30	42.7	7.9	280	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
P-D-06	NA	2/15/07	1850	7140	7.6	4500	3550	3.56	1590		546	84.5	10 U	10 U	84.5	0.439	275	0.05 U	28.2	9.58	860
P-D-06	NA	10/25/07		8788	8.3	7400	5200	6.63	2430	0.1 U	751	83.3	10 U	10 U	83.3	0.496	500	1.43	52.3	20	1390
P-D-07	NA	2/15/07	14500	40700	8.6	25000	24600	49.3 J	14000		1890	49.2	12.2	10 U	61.3	0.342	1630	0.0534 J	200	24.7	6240
P-D-07	NA	10/25/07		59200	7.03	68690	47400	56.4	24200	0.5 U	2730	118	10 U	10 U	118	0.25	2460	3.09	554	44.6	12000
P-D-08	NA	2/15/07	15300	44300	7.9	27000	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
P-D-09	NA	2/15/07	8825	24600	8.1	15000	16800	33.4 J	8500		2530	158	10 U	10 U	158	0.167	902	0.19	191	14.9	4370
P-D-09	NA	10/25/07	- -	29640	7.21	30010	21600	23.2	9910	7.14	2790	274	10 U	10 U	274	0.0826	1190	0.0524 J	290	19.8	5600
P-D-09-D	NA	10/25/07	- -	- -	- -	- -	21200	30.9	9810	7.03	2770	275	10 U	10 U	275	0.0873	1170	0.05 U	296	20.1	5830
P-D-09	NA	3/20/09	- -	28470	7.31	28470	19500	21.7	7990	10.1	3210	214	10 U	10 U	214	0.0487	967	0.222	276	15.1	5120
Driscoll #2 Site																					
P-D2-MW-12	NA	2/14/07	4000	15600	6.7	10000	11000	12.1	3930	- -	3260	486	10 U	10 U	486	- -	- -	- -	- -	- -	- -
P-D2-MW-13	NA	2/15/07	5950	21900	6.6	14000	13600	30 U	5480	- -	2900	515	10 U	10 U	515	- -	- -	- -	- -	- -	- -
Driscoll #3 Site																					
P-D3-MW-08	NA	2/14/07	13250	37800	6.5	23000	24500	164	12800	- -	2950	310	10 U	10 U	310	- -	- -	- -	- -	- -	- -
P-D3-MW-17	NA	2/14/07	>40000	92200	6.3	55000	68800	130	42100	- -	2140	305	10 U	10 U	305	- -	- -	- -	- -	- -	- -
P-D3-MW-17-D	NA	2/14/07	>40000	92200	6.3	55000	70400	127	41400	- -	2130	305	10 U	10 U	305	- -	- -	- -	- -	- -	- -
King Ranch to Viola Pipeline Site																					
P-KRVP-MW-06	NA	2/14/07	- -	3149	7.0	- -	453	0.452 J	33.4	- -	36.2	325	10 U	10 U	325	- -	- -	- -	- -	- -	- -
P-KRVP-MW-09	NA	2/14/07	- -	735	7.3	- -	2460	1.06	544	- -	785	347	10 U	10 U	347	- -	- -	- -	- -	- -	- -
Clara Driscoll Storage Tanks																					
P-O-01	NA	2/15/07	- -	>99,999	6.8	>99,999	76600	215	50200		1 U	339	10 U	10 U	339	- -	- -	- -	- -	- -	- -
P-O-01-D	NA	2/15/07	- -	>99,999	6.8	>99,999	77200	233	50700		11 J	336	10 U	10 U	336	- -	- -	- -	- -	- -	- -
P-O-02	NA	2/15/07	- -	>99,999	6.5	>99,999	109000	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -

Notes:

J	Analyte detected between sample quantification limit and reporting limit
U	Analyte not detected at the sample quantification limit
km	Kilometer
mg/L	Milligrams per liter
S.U.	pH standard units
TDS	Total dissolved solids
uS/cm	Microsiemens per centimeter
NA	No segment ID designated
- -	No data available

APPENDIX A, TABLE 3. GROUNDWATER SAMPLING RESULTS

			Field Results			Laboratory Results																
									Anions				Alkalinity (As CaCO3)				Cations					
	Depth	Sample	Conductivity	pH	TDS	Conductivity	pH	TDS	Bromide	Chloride	Nitrate-N	Sulfate	Bicarbonate	Carbonate	Hydroxide	Total	Barium	Calcium	Iron	Magnesium	Potassium	Sodium
Sample ID	Interval	Date	uS/cm	S.U.	ppm	umhos/cm	S.U.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Driscoll # 2 Site																						
P-D2-MW-12	S	2/14/07	15600	6.7	10000			11000	12.1	3930		3260	486	10 U	10 U	486	0.0198	555	0.269	104	6.39	2890
P-D2-MW-12	S	10/3/07	14910	7.01	13030	15800	6.91	10700	9.53	3510	2.34	3400	448	10 U	10 U	448	0.0199	559	1.58	103	6.45	2650
P-D2-MW-12	S	3/18/09	13940	6.75	12370	14200	7.02	11000	28.5	3150	6.91	3500	475	10 U	10 U	475	0.0171	503	0.0948 J	101	6.28	2480
P-D2-MW-13	S	2/15/07	21900	6.6	14000			13600	30 U	5480		2900	515	10 U	10 U	515	0.0278	839	0.706	158	9.71	3340
Driscoll #3 Site																						
P-D3-MW-08	S	2/14/07	3780	6.5	23000			24500	164	12800		2950	310	10 U	10 U	310	0.0246	1170	0.05 U	342	15.3	6040
P-D3-MW-17	S	2/14/07	92200	6.3	55000			68800	130	42100		2140	305	10 U	10 U	305	0.0828	3000	0.25 U	556	69.7	19000
P-D3-MW-17-D	S	2/14/07	92200	6.3	55000			70400	127	41400		2130	305	10 U	10 U	305	0.0834	3430	0.273 J	570	67.6	20700
P-D3-MW-27	S	10/3/07	88400	6.24	120200	112000	6.29	72800	133	40400	1 U	2400	249	10 U	10 U	249	0.157	3420	5.39	601	47.1	19100
P-D3-MW-27	S	3/18/09	88980	5.93	122800	114000	6.38	70700	152	38400	1 U	2310	262	10 U	10 U	262	0.131	3410	3.97	571	42.4	17400
P-D3-MW-27-D	S	3/18/09	88980	5.93	122800	112000	6.36	70000	153	38400	1 U	2350	264	10 U	10 U	264	0.128	3290	3.8	574	42.2	17600
King Ranch to Viola Pipeline Site																						
P-KRVP-MW-06	S	2/14/07	735	6.96				453	0.452 J	33.4		36.2	325	10 U	10 U	325	0.241	88.6	0.315	11.7	4.85	43.4
P-KRVP-MW-09	I	2/14/07	3149	7.29				2460	1.06	544		785	347	10 U	10 U	347	0.0355	107	0.0912 J	22.3	4.97	614
Petronila Creek Monitoring Wells																						
P-MW-01	D	10/2/07	32190	6.97	33120	39000	6.65	25600	26.9	12300	0.5 U	2690	358	10 U	10 U	358	0.0353	1320	0.486	337	27.7	5850
P-MW-01	D	3/18/09	35190	6.35	35400	39800	6.52	25400	36.8	12400	1 U	2700	381	10 U	10 U	381	0.0844	1330	0.544	366	31.5	6000
P-MW-02	I	10/3/07	32440	7.17	33130	38500	6.73	24600	28.7	12100	0.5 U	2740	381	10 U	10 U	381	0.159	1730	19.1	337	28	5970
P-MW-02	I	3/18/09	34370	6.82	34400	40200	7.03	24700	35.9	11800	1 U	2600	304	10 U	10 U	304	0.0808	1170	0.05 U	307	35.2	6120
P-MW-03	S	10/26/07	39800	6.31	42930	46600	6.50	30300	33.6	15800	0.1 U	1030	231	10 U	10 U	231	0.433	4400	6.01	482	19.2	5940
P-MW-03	S	3/18/09	49340	6.07	52550	58000	6.64	37600	66.1	19900	0.5 U	1160	256	10 U	10 U	256	0.11	3630	1.1	584	19.3	6610
P-MW-04	D	10/4/07	7540	12.60	6267	8310	12.50	2100	0.6 U	300	0.2 U	3.89	10 U	74	1730	1800	1.71	657	4.66	1.96	59.7	163
P-MW-04	D	3/19/09	8240	11.89	6598	8050	12.40	2920	3.15	719	0.1 U	3.97	10 U	101	1390	1500	1.6	710	0.557	0.21 J	68.1	225
P-MW-05	I	10/4/07	20900	6.16	19900	23500	6.58	16900	14.3	8110	2.15 J	544	219	10 U	10 U	219	0.311	2100	0.145	322	37.7	1650
P-MW-05	I	3/19/09	22300	6.57	21540	24200	6.63	18100	26.9	7820	3.52	570	226	10 U	10 U	226	0.211	2420	0.191	419	36.4	1740
P-MW-06	S	10/4/07	50750	6.34	56640	69800	6.27	42600	78.5	23100	1.68 J	1300	328	10 U	10 U	328	0.274	3620	5.97	644	83.4	7340
P-MW-06-D	S	10/4/07	50750	6.34	56640	72300	6.16	42100	77.1	22800	1.79 J	1170	305	10 U	10 U	305	0.27	3380	6.42	662	80.6	9830
P-MW-06	S	3/19/09	37300	6.29	37700	41400	6.55	30400	54.2	13300	0.5 U	1300	290	10 U	10 U	290	0.0981	3080	0.0622 J	799	84.5	3640
P-MW-07	D	10/4/07	14940	11.36	13540	17700	11.70	10800	9.65	5410	0.5 U	679	10 U	61.8	240	302	0.843	633	0.5 U	5.35	52.5	2680
P-MW-07	D	3/19/09	22460	10.43	20910	23500	10.50	16200	24.3	7140	0.5 U	817	10 U	55.4	16.1 J	71.5	0.217	1150	0.0737 J	18.2	43.6	3330
P-MW-08	I	10/4/07	31710	6.47	32570	44400	7.21	26100	26.1	12600	3.23	1840	294	10 U	10 U	294	0.0657 J	1440	0.787 J	304	27.4	6070
P-MW-08	I	3/19/09	34800	6.79	34950	35500	7.58	25700	37.4	11800	2.86	1780	280	10 U	10 U	280	0.0615	1430	0.0991 J	317	31.1	5640
P-MW-09	S	10/4/07	7860	7.15	6370	6480	7.45	5220	7.4	748	3.8	2680	300	10 U	10 U	300	0.0495 J	430	4.45	58.4	2.69	1050
P-MW-09	S	3/20/09	5218	7.1	4022	5010	7.19	4380	0.983 J	309	7.04	2460	294	10 U	10 U	294	0.0147	363	0.0532 J	48.7	1.58	784
P-MW-10	S	10/2/07	24980	7.01	24350	33600	6.94	20700	16.3	9280	76.5	3140	197	10 U	10 U	197	0.0787	1090	4.1	291	18.3	5040
P-MW-10	S	3/20/09	23870	6.93	22510	25800	7.08	18000	14.9	6540	102	3440	236	10 U	10 U	236	0.0229	801	0.05 U	253	15.4	4250
P-MW-10-D	S	3/20/09	23870	6.93	22510	25500	7.06	17000	15.4	6380	105	3420	240	10 U	10 U	240	0.0225	802	0.05 U	254	15.3	4210
P-MW-11	S	10/2/07	11850	6.81	10320	12500	6.77	8140	6.36	3240	5.21	2200	317	10 U	10 U	317	0.0469	750	2.9	85.1	3.51	1960
P-MW-11	S	3/20/09	13350	6.63	11350	13400	7.01	9610	8.18	3690	6.95	2490	334	10 U	10 U	334	0.0203	788	0.0564 J	93.1	3.37	2020
P-MW-12	S	10/2/07	10340	6.82	88630	12300	7.12	8000	11.3	3690	3	1040	572	10 U	10 U	572	0.134	468	1.41	99.4	7.29	2040
P-MW-12	S	3/18/09	15070	6.48	13450	15300	6.69	10600	72.6	4810	0.5 U	891	886	10 U	10 U	886	0.099	624	3.63	137	6.43	2350
P-MW-13	D	10/3/07	18690	7.58	16800	19300	6.89	12700	13.6	6120	0.5 U	1370	283	10 U	10 U	283	0.0391	604	0.392	186	15.7	3230
P-MW-13	D	3/18/09	2777	10.64	2036	2620	10.6	1600	12.4	713	0.1 U	199	10 U	47.4	38.5	85.9	0.167	146	0.05 U	0.252	21.1	314
P-MW-14	I	10/3/07	18430	7.70	16530	19600	6.59	14300	15.2	6320	0.5 U	1280	282	10 U	10 U	282	0.101	997	6.25	156	18.8	2870
P-MW-14D	I	10/3/07	18430	7.70	16530	19600	6.77	14600	15.3	6310	0.5 U	1270	287	10 U	10 U	287	0.105	948	7.29	151	21.3	2940
P-MW-14	I	3/18/09	20780	6.52	18810	20800	6.57	14800	20.2	6480	0.5 U	1410	284	10 U	10 U	284	0.101	1090	14.9	162	15.9	2670
P-MW-15	S	10/4/07	21950	11.36	20410	28400	11.80	16300	31.2	8710	0.5 U	658	10 U	71.2	440	511	0.988	1700	0.5 U	2.59	75.6	3190
P-MW-15	S	3/18/09	32570	7.87	32010	38100	7.73	24200	65.1	12500	0.5 U	1490	51.6	10 U	10 U	51.6	0.106	2410	2.16	198	13.1	4290
P-MW-16	S	10/3/07	36000	6.61	36480	42400	6.42	31400	35	14800	0.5 U	1320	245	10 U	10 U	245	0.177	3160	6.3	436	9.51	4290
P-MW-16	S	3/18/09	37050	6.09	37400	42000	6.96	28600	38.9	14400	0.5 U	1290	247	10 U	10 U	247	0.0858	3160	1.84	473	8.41	4150
P-MW-17	D	10/4/07	25470	8.00	25310	31700	7.66	19100	19.1	9590	0.5 U	1380	286	10 U	10 U	286	0.173	1530	8.33	287	33.5	4120
P-MW-17	D	3/19/09	26090	11.97	24960	26900	12.2	16600	19.6	6840	0.5 U	103	10 U	126	1530	1660	3.62	1740	0.0586 J	0.1 U	375	2710
P-MW-18	I	10/4/07	39120	7.00	40280	55100	6.69	31300	33.6	17300	0.5 U	1490	265	10 U	10 U	265	0.128	2930	6	473	32.3	6390
P-MW-18	I	3/18/09	40400	6.78	42860	48300	6.89	33900	48	16500	0.716	1450	271	10 U	10 U	271	0.103	2730	0.272	435	23.9	5520
P-MW-19	S	10/4/07	14480	7.60	12590	18400	7.80	11500	8.57	4910	0.829 J	1250	216	10 U	10 U	216	0.188	1000	11.9	139	9.98	2110
P-MW-19	S	3/19/09	30520	6.73	30530	42600	7.56	29500	42.9	13900	2.83	1320	201	10 U	10 U	201	0.129	2630	5.5	396	8.12	4940
P-MW-20	I	10/2/07	34770	6.87	35880	43900	6.81	26900	36.3	14300	0.5 U	2520	272	10 U	10 U	272	0.0881	1410	4.87	366	24	6810
P-MW-20	I	3/18/09	33720	7.12	34580	39600	7.18	24800	38.6	12200	0.5 U	3120	308	10 U	10 U	308	0.0236	1050	0.05 U	339	19.2	6240
P-MW-21	S	10/2/07	38890	7.00	41860	50200	6.99	32400	44.7	16900	3	2790	307	10 U	10 U	307	0.132	798	2.67	230	23.2	8590
P-MW-21	S	3/18/09	42200	6.93	42200	50200	7.15	30300	56.9	15500	2.65	2900	601	10 U	10 U	601	0.0405	381	0.05 U	100	24	9310
P-MW-22	S	10/2/07	21690	6.76	20760	15200	6.71	12500	13.5	4690	0.2 U	182	710	10 U	10 U	710	1.9	524	3.39	210	8.76	2240
P-MW-22	S	3/18/09	25760	6.16	24430	24600	6.58	17000	30.2	8840	0.5 U	268	643	10 U	10 U	643	2.2	1040	58.7	429	14.8	3380
P-MW-23	S	3/17/09	44520	6.44	47140	53800	6.39	36200	67.4	19000	6.84	1050	262	10 U	10 U	262	0.24	2490	0.05 U	367	86	6950
P-MW-24	S	3/17/09	71490	6.24	86380	85900	6.56	53900	111	31200	1 U	899	257	10 U	10 U	257	0.64	2950	2.43	526	62.1	12900
P-MW-25	S	3/17/09	19810	6.8	17320	23400	6.91	14900	20.1	7570	0.808 J	928	227	10 U	10 U	227	0.208	1050	0.667	241	12.5	2820
P-MW-26	D	3/17/09	31320	6.8	30750	36700	6.77	24500	31	11200	0.5 U	2380	208	10 U	10 U	208	0.0656	1210	0.704	378	28.2	4740
P-MW-27	D	3/17/09	37690	6.49	38490	44400	6.62	29700	40.3	14100	0.5 U	2190	232	10 U	10 U	232	0.0359	1740	0.05 U	395	24.4	5880
P-MW-28	D	3/17/09	30320	6.78	29400	35500	6.87	27700	31.1	10800	0.5 U	2490	318	10 U	10 U	318	0.12	905	0.069 J	285	21.4	5060
P-MW-29	S	3/17/09	16590	6.79	14810	22700	6.86	14800	18.5	7060	0.5 U	1390	249	10 U	10 U	249	0.151	836	0.398	156	13.5	2990
P-MW-30	S	3/17/09	24180	6.65	23060	28600	6.8	17900	22.6	8420	33.2	2130	258	10 U	10 U	258	0.0839	1370	0.05 U	188	7.53	3790

APPENDIX A, TABLE 3. GROUNDWATER SAMPLING RESULTS

			Field Results			Laboratory Results																
									Anions				Alkalinity (As CaCO3)				Cations					
	Depth	Sample	Conductivity	pH	TDS	Conductivity	pH	TDS	Bromide	Chloride	Nitrate-N	Sulfate	Bicarbonate	Carbonate	Hydroxide	Total	Barium	Calcium	Iron	Magnesium	Potassium	Sodium
Sample ID	Interval	Date	uS/cm	S.U.	ppm	umhos/cm	S.U.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Petronila Creek Piezometers																						
P-PZ-01	S	3/19/09	- -	- -	- -	- -	- -	17900	- -	4830	- -	407	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
P-PZ-01	S	3/26/09	- -	- -	- -	14800	7.3	- -	15.6	- -	0.5 U	- -	290	10 U	10 U	290	0.982	1270	8.44	133	23.3	1150
P-PZ-02	S	3/19/09	- -	- -	- -	- -	- -	35000	- -	12700	- -	2220	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
P-PZ-02	S	3/26/09	- -	- -	- -	46400	7.37	- -	38.3	- -	1 U	- -	298	10 U	10 U	298	0.16	1640	4.98	354	23.2	6620
P-PZ-03	S	3/19/09	- -	- -	- -	- -	- -	19200	- -	7140	- -	1280	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
P-PZ-03	S	3/26/09	- -	- -	- -	23400	7.47	- -	22	- -	0.5 U		393	10 U	10 U	393	0.106	1120	0.668	334	30.5	2990
P-PZ-04	S	3/19/09	- -	- -	- -	- -	- -	37300	- -	12900	- -	1460	266	10 U	10 U	266	0.136	2440	0.25 U	481	23.1	5720
P-PZ-04	S	3/26/09	- -	- -	- -	44800	6.96	- -	33.2	- -	2.8	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
P-PZ-05	S	3/19/09	- -	- -	- -	- -	- -	37900	- -	9830	- -	682	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
P-PZ-05	S	3/26/09	- -	- -	- -	26800	7.09	- -	29	- -	1 U	- -	242	10 U	10 U	242	1.01	2900	13.9	297	45.2	804
P-PZ-06	S	3/26/09	- -	- -	- -	45200	6.96	27300	36.2	16300	1 U	1950	293	10 U	10 U	293	0.189	2060	1.79	407	23.2	5620
P-PZ-07	S	3/19/09	27210	6.77	26460	29000	6.55	22000	29.5	9340	0.945 J	1320	260	10 U	10 U	260	0.1	1450	3.57	355	24.5	4140
P-PZ-07-D	S	3/19/09	27210	6.77	26460	29200	6.55	20800	35.7	9280	0.878	1310	250	10 U	10 U	250	0.0931	1500	2.68	348	24.1	4080
P-PZ-08	S	3/19/09	- -	- -	- -	18000	6.88	13100	16	5230	0.5 U	1670	292	10 U	10 U	292	0.0354	911	0.347	183	8.44	2710
P-PZ-09	S	3/19/09	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
P-PZ-09	S	3/26/09	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
P-PZ-10	S	3/20/09	- -	- -	- -	- -	- -	17900	- -	7740	- -	2410	- -	- -	- -	- -	0.0735	902	0.25 U	240	17.6	5130
P-PZ-10	S	3/26/09	- -	- -	- -	26900	7.04	- -	23.6	- -	1 U	- -	397	10 U	10 U	397	- -	- -	- -	- -	- -	- -
P-PZ-11	S	3/20/09	- -	- -	- -	- -	- -	13600	- -	5580	- -	2110	268	10 U	10 U	268	0.0399	1230	0.25 U	152	6.68	3180
P-PZ-11	S	3/26/09	- -	- -	- -	21900	7.1	- -	16	- -	22.7	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
P-PZ-12	S	3/19/09	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
P-PZ-12	S	3/26/09	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
P-PZ-13	S	3/20/09	- -	- -	- -	34800	6.93	21500	37.8	10300	2.36	122	187	10 U	10 U	187	7.92	2660	38.6	340	41	3160
P-PZ-14	S	3/19/09	- -	- -	- -	- -	- -	35000	- -	12500	- -	1570	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
P-PZ-14	S	3/26/09	- -	- -	- -	42500	7.29	- -	37.5	- -	1 U	- -	288	10 U	10 U	288	0.223	2580	3.18	622	13.7	4640

Notes:

S	Shallow well
I	Intermediate well
D	Deep well
J	Analyte detected between sample quantification limit and reporting limit
U	Analyte not detected at the sample quantification limit
mg/L	Milligrams per liter
ppm	Parts per million
S.U.	pH standard units
TDS	Total dissolved solids
uS/cm	Microsiemens per centimeter
umhos/cm	Micromhos per centimeter
- -	No Data Available

APPENDIX B
MARCH 2009 ANALYTICAL DATA

March 30, 2009

James Harte
TRC Environmental Corp.
505 East Huntland Drive Suite 250
Austin, Texas 78752

TEL: (512) 329-6080
FAX: (512) 329-8750

Order No: 0903125

RE: Petronila Creek GW

Dear James Harte:

DHL Analytical received 8 sample(s) on 3/18/2009 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

John DuPont
Lab Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-08C-TX

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DHL ANALYTICAL

2300 Double Creek Drive • Round Rock, TX 78664
Phone (512) 388-8222 • FAX (512) 388-8229

№ 33508

CHAIN-OF-CUSTODY

CLIENT: TRC
ADDRESS: 505 E. Huntland Dr Suite 250 Austin, Tx 78752
PHONE: 512-329-6080 FAX 512-329-8750
DATA REPORTED TO: J. Harte
ADDITIONAL REPORT COPIES TO: S. Miller

DATE: 3/17/09 PAGE 1 OF 1
PO #: R DHL WORK ORDER #: 0903125
PROJECT LOCATION OR NAME: Petronila Creek GW
CLIENT PROJECT #: 166420-04 COLLECTOR: RK/MT

Authorize 5% surcharge for TRRP report? ☐ Yes ☒ No

S=SOIL W=WATER A=AIR P=PAINT SL=SLUDGE OT=OTHER

PRESERVATION: HCl, HNO_3, H_2SO_4 ☐ NaOH ☐, ICE, UNPRESERVED

ANALYSES: BTEX ☐ MTBE ☐ | TRPH 418.1 ☐ | TPH 1005 ☐ TPH 1006 ☐ | GASOLINE MOD 8015 ☐ | DIESEL - MOD 8015 ☐ | VOC 8260 ☐ | SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ | 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ | 8082 PCBS ☐ | TCLP - METALS (RCRA) ☐ TCLP VOC ☐ | TCLP - PEST ☐ HERB ☐ SemiVOC ☐ | TOTAL METALS (RCRA) ☐ OTHER LIST ☐ | LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐ | RCI ☐ TOX ☐ FLASHPOINT ☐ | TDS ☒ TSS ☐ % MOISTURE ☐ CYANIDE ☐ | pH ☒ HEXAVALENT CHROMIUM ☐ | EXPLOSIVES ☐ PECHLORATE ☐ | CHLORIDE ☐ ANIONS ☒ ALKALINITY ☒ | CATIONS EPA 6020 | CONDUCTIVITY M2510B

Field Sample I.D.	DHL Lab #	Date	Time	Matrix	Container Type	# of Containers	HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESERVED	TDS ☒	pH ☒	CHLORIDE ☐ ANIONS ☒	ALKALINITY ☒	CATIONS EPA 6020	CONDUCTIVITY M2510B	FIELD NOTES
P-MW-26	01	3/17/09	1210	W	PI	2		X		X		X	X	X	X	X	X	Anions: Cl, Br, Sulfate, Nitrate
P-MW-27	02	3/17/09	1255	W	PI	2		X		X		X	X	X	X	X	X	
P-MW-30	03	3/17/09	1341	W	PI	2		X		X		X	X	X	X	X	X	
P-MW-29	04	3/17/09	1425	W	PI	2		X		X		X	X	X	X	X	X	
P-MW-28	05	3/17/09	1500	W	PI	2		X		X		X	X	X	X	X	X	Cations: Ca, Na, Mg, K, Fe, Ba
P-MW-25	06	3/17/09	1600	W	PI	2		X		X		X	X	X	X	X	X	
P-MW-24	07	3/17/09	1625	W	PI	2		X		X		X	X	X	X	X	X	
P-MW-23	08	3/17/09	1700	W	PI	2		X		X		X	X	X	X	X	X	Alkalinity: carbonate + bicarbonate
																		* IN ACCORDANCE W/ TRC - TRC PETRONILA QAPP *
TOTAL																		

RELINQUISHED BY: (Signature) DATE/TIME 3/17/09 1815 RECEIVED BY: (Signature) Fedex
RELINQUISHED BY: (Signature) Fedex DATE/TIME 3/18/09 9:00 RECEIVED BY: (Signature)
RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature)

☐ DHL DISPOSAL @ $5.00 each ☐ Return

TURN AROUND TIME
RUSH ☐ CALL FIRST
1 DAY ☐ CALL FIRST
2 DAY ☐
NORMAL ☒
OTHER ☐ ____

LABORATORY USE ONLY:
RECEIVING TEMP: 2.5° THERM #: 57
CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED
☒ CARRIER BILL # Fedex
☐ APC DELIVERY
☐ HAND DELIVERED

FedEx. US Airbill
Express

FedEx Tracking Number 8686 4651 9329

0200 Recipient's Copy

1 From

Date 3/17/09

Sender's Name Richard Ketner Jr Phone 979 229-3521

Company TRC

Address 10911 Meadowglen Lane Suite M

Dept/Floor/Suite/Room

City Houston State TX ZIP 77042

2 Your Internal Billing Reference

3 To

Recipient's Name Receiving Phone 512 388-8222

Company DHL

Recipient's Address 2300 Double Creek Dr

We cannot deliver to P.O. boxes or P.O. ZIP codes. Dept/Floor/Suite/Room

Address

To request a package be held at a specific FedEx location, print FedEx address here.

City Round Rock State TX ZIP 78664

8686 4651 9329

4a Express Package Service — Packages up to 150 lbs.

- [x] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.
- [ ] FedEx 2Day — Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

FedEx Envelope rate not available. Minimum charge: One-pound rate. * To most locations.

4b Express Freight Service — Packages over 150 lbs.

- [ ] FedEx 1Day Freight* — Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 2Day Freight — Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available.

* Call for Confirmation: ** To most locations.

5 Packaging

- [ ] FedEx Envelope*
- [ ] FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak.
- [ ] FedEx Box
- [ ] FedEx Tube
- [x] Other

* Declared value limit $500.

6 Special Handling — Include FedEx address in Section 3.

- [ ] SATURDAY Delivery — Not available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.
- [ ] HOLD Weekday at FedEx Location — Not available for FedEx First Overnight.
- [ ] HOLD Saturday at FedEx Location — Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Does this shipment contain dangerous goods? One box must be checked.

- [x] No
- [ ] Yes — As per attached Shipper's Declaration.
- [ ] Yes — Shipper's Declaration not required.
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging.

- [ ] Cargo Aircraft Only

7 Payment Bill to: — Enter FedEx Acct. No. or Credit Card No. below. Obtain Recip. Acct. No. [ ]

- [ ] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

Total Packages	Total Weight	Total Declared Value†
1	1.0	$ .00

†Our liability is limited to $100 unless you declare a higher value. See back for details. Credit Card Auth.

8 Residential Delivery Signature Options — If you require a signature, check Direct or Indirect.

- [ ] No Signature Required — Package may be left without obtaining a signature for delivery.
- [ ] Direct Signature — Someone at recipient's address may sign for delivery. *Fee applies.*
- [ ] Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. *Fee applies.*

520

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fedex.com 1.800.GoFedEx 1.800.463.3339

CUSTODY SEAL
DATE 3/17/09
SIGNATURE

REC
Quality Environmental Containers
800-255-3950 • 304-255-3900

Laboratory Data Package Signature Page

This data package consists of:

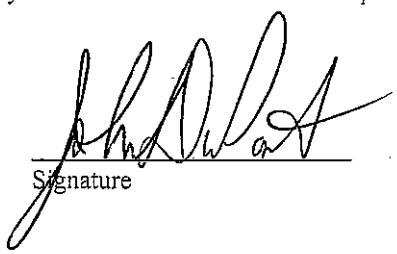
This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC 5.13
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix;
- R10 Other problems or anomalies.

The Exception Report for every "No" or "Not Reviewed (NR)" item in laboratory review checklist.

Release Statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By me signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

Scott Schroeder – Project Manager
John DuPont – General / QA Manager



Signature

03/30/09

Date

DHL Analytical, Inc.

Laboratory Review Checklist: Reportable Data

Project Name: Petronila Creek GW	Date: 3/30/09
Reviewer Name: Carlos Castro	Laboratory Work Order: 0903125
Prep Batch Number(s): See Prep Dates Report	Run Batch: See Analytical Dates Report

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-Custody (C-O-C)					
R1	OI	1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				R1-01
		2) Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and Quality Control (QC) Identification**					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test Reports**					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample quantitation limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?			X		
		7) Were % moisture (or solids) reported for all soil and sediment samples?			X		
		8) If required for the project, TICs reported?			X		
R4	O	**Surrogate Recovery Data**					
		1) Were surrogates added prior to extraction?			X		
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test Reports/Summary Forms for Blank Samples**					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Where method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations < MQL?		X			R5-04
R6	OI	**Laboratory Control Samples (LCS):**					
		1) Were all COCs included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs?	X				
		6) Was the LCSD RPD within QC limits (if applicable)?	X				
R7	OI	**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data**					
		1) Were the project/method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			R7-03
		4) Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical Duplicate Data**					
		1) Were appropriate analytical duplicates analyzed for each matrix?	X				
		2) Were analytical duplicates analyzed at the appropriate frequency?	X				
		3) Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	**Method Quantitation Limits (MQLs):**					
		1) Are the MQLs for each method analyte included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs included in the laboratory data package?	X				
R10	OI	**Other Problems/Anomalies**					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				R10-01
		2) Were all necessary corrective actions performed for the reported data?	X				
		3) Was applicable and available technology used to lower the SQL minimize the matrix interference affects on the sample results?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

DHL Analytical, Inc.

Laboratory Review Checklist (continued): Supporting Data

Project Name: Petronila Creek GW	Date: 3/30/09
Reviewer Name: Carlos Castro	Laboratory Work Order: 0903125

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial Calibration (ICAL)**					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB):**					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass Spectral Tuning:**					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal Standards (IS):**					
		1) Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**Raw Data (NELAC section 1 appendix A glossary, and section 5.12)**					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual Column Confirmation**					
		1) Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively Identified Compounds (TICs):**					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) Results:**					
		1) Were percent recoveries within method QC limits?	X				
S9	I	**Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions**					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?		X			S9-01
S10	OI	**Method Detection Limit (MDL) Studies**					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency Test Reports:**					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards Documentation**					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/Analyte Identification Procedures**					
		1) Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of Analyst Competency (DOC)**					
		1) Was DOC conducted consistent with NELAC Chapter 5C?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/Validation Documentation for Methods** (NELAC Chap 5)					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory Standard Operating Procedures (SOPs):**					
		1) Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

DHL Analytical

Sample Receipt Checklist

Client Name TRC Environmental Corp. Date Received: 3/18/2009

Work Order Number 0903125 Received by JB

Checklist completed by: [signature] 3/18/09 (Signature / Date) Reviewed by JD (Initials) 03/18/09 (Date)

Carrier name: FedEx 1day

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	2.5 °C
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	Not Applicable ☐

Adjusted? NO Checked by [signature]

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

DHL Analytical Date: 03/30/09

CLIENT: TRC Environmental Corp.
Project: Petronila Creek GW
Lab Order: 0903125

CASE NARRATIVE

The samples were analyzed using the methods outlined in the following references:

Method M4500-H+ B (18th Edition) - pH of a Water
Method E300 - Anions Analysis
Method M2320 B (18th Edition) - Alkalinity Analysis
Method M2510 B (18th Edition) - Specific Conductance
Method M2540C (18th Edition) - TDS Analysis
Method SW6020 - Metals Analysis

Exception Report R1-01

Samples were received and log-in performed on 3/18/09. A total of 8 samples were received. The samples arrived in good condition and were properly packaged.

Exception Report R5-04

For TDS analysis performed on 3/23/09 (batch 34098) TDS was detected at the reporting limit in the method blank (MB-34098). All samples were detected greater than 10 times the amount in the blank. No further corrective actions were taken.

Exception Report R7-03

For Anions analysis performed on 3/18/09 the matrix spike and matrix spike duplicate recoveries were above control limits for Bromide and Nitrate-N. These are flagged accordingly in the QC summary report. The reference sample selected for the matrix spike and matrix spike duplicate was from this work order. The LCS was within control limits for these analytes. No further corrective actions were taken.

For Metals analysis performed on 3/24/09 the matrix spike and matrix spike duplicate recoveries were out of control limits for some analytes. These are flagged accordingly. The reference sample selected for the matrix spike and matrix spike duplicate was from this work order. The LCS was within control limits for these analytes. No further corrective actions were taken.

Exception Report R10-01

For Anions analysis some samples were diluted prior to analysis due to the nature of the samples (chloride content).

Exception Report S9-01

For Metals analysis performed on 3/23/09 the RPD for the serial dilution was slightly above control limits for Iron. This is flagged accordingly in the QC summary report. The PDS was within control limits for this analyte. No further corrective actions were taken.

CLIENT: TRC Environmental Corp.
Project: Petronila Creek GW
Lab Order: 0903125

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recv'd
0903125-01	P-MW-26		03/17/09 12:10 PM	03/18/09
0903125-02	P-MW-27		03/17/09 12:55 PM	03/18/09
0903125-03	P-MW-30		03/17/09 01:41 PM	03/18/09
0903125-04	P-MW-29		03/17/09 02:25 PM	03/18/09
0903125-05	P-MW-28		03/17/09 03:00 PM	03/18/09
0903125-06	P-MW-25		03/17/09 04:00 PM	03/18/09
0903125-07	P-MW-24		03/17/09 04:25 PM	03/18/09
0903125-08	P-MW-23		03/17/09 05:00 PM	03/18/09

CLIENT: TRC Environmental Corp.
Project: Petronila Creek GW
Lab Order: 0903125

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
0903125-01A	P-MW-26	03/17/09 12:10 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/18/09 10:51 AM	34013
	P-MW-26	03/17/09 12:10 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/18/09 10:51 AM	34013
	P-MW-26	03/17/09 12:10 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/18/09 10:51 AM	34013
0903125-01B	P-MW-26	03/17/09 12:10 PM	Aqueous	E300	Anion Preparation	03/18/09 09:00 AM	34012
	P-MW-26	03/17/09 12:10 PM	Aqueous	E300	Anion Preparation	03/18/09 09:00 AM	34012
	P-MW-26	03/17/09 12:10 PM	Aqueous	E300	Anion Preparation	03/18/09 09:00 AM	34012
	P-MW-26	03/17/09 12:10 PM	Aqueous	M2320 B	Alkalinity Preparation	03/23/09 09:45 AM	34091
	P-MW-26	03/17/09 12:10 PM	Aqueous	M4500-H+ B	pH Preparation	03/18/09 11:20 AM	34014
	P-MW-26	03/17/09 12:10 PM	Aqueous	M2510 B	Conductivity Preparation	03/19/09 09:59 AM	34034
	P-MW-26	03/17/09 12:10 PM	Aqueous	M2540C	TDS Preparation	03/23/09 01:00 PM	34098
0903125-02A	P-MW-27	03/17/09 12:55 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/18/09 10:51 AM	34013
	P-MW-27	03/17/09 12:55 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/18/09 10:51 AM	34013
	P-MW-27	03/17/09 12:55 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/18/09 10:51 AM	34013
0903125-02B	P-MW-27	03/17/09 12:55 PM	Aqueous	E300	Anion Preparation	03/18/09 09:00 AM	34012
	P-MW-27	03/17/09 12:55 PM	Aqueous	E300	Anion Preparation	03/18/09 09:00 AM	34012
	P-MW-27	03/17/09 12:55 PM	Aqueous	E300	Anion Preparation	03/18/09 09:00 AM	34012
	P-MW-27	03/17/09 12:55 PM	Aqueous	M2320 B	Alkalinity Preparation	03/23/09 09:45 AM	34091
	P-MW-27	03/17/09 12:55 PM	Aqueous	M4500-H+ B	pH Preparation	03/18/09 11:20 AM	34014
	P-MW-27	03/17/09 12:55 PM	Aqueous	M2510 B	Conductivity Preparation	03/19/09 09:59 AM	34034
	P-MW-27	03/17/09 12:55 PM	Aqueous	M2540C	TDS Preparation	03/23/09 01:00 PM	34098
0903125-03A	P-MW-30	03/17/09 01:41 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/18/09 10:51 AM	34013
	P-MW-30	03/17/09 01:41 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/18/09 10:51 AM	34013
	P-MW-30	03/17/09 01:41 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/18/09 10:51 AM	34013
	P-MW-30	03/17/09 01:41 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/18/09 10:51 AM	34013
0903125-03B	P-MW-30	03/17/09 01:41 PM	Aqueous	E300	Anion Preparation	03/18/09 09:00 AM	34012
	P-MW-30	03/17/09 01:41 PM	Aqueous	E300	Anion Preparation	03/18/09 09:00 AM	34012
	P-MW-30	03/17/09 01:41 PM	Aqueous	E300	Anion Preparation	03/18/09 09:00 AM	34012
	P-MW-30	03/17/09 01:41 PM	Aqueous	M2320 B	Alkalinity Preparation	03/23/09 09:45 AM	34091
	P-MW-30	03/17/09 01:41 PM	Aqueous	M4500-H+ B	pH Preparation	03/18/09 11:20 AM	34014

CLIENT: TRC Environmental Corp.
Project: Petronila Creek GW
Lab Order: 0903125

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
	P-MW-30	03/17/09 01:41 PM	Aqueous	M2510 B	Conductivity Preparation	03/19/09 09:59 AM	34034
	P-MW-30	03/17/09 01:41 PM	Aqueous	M2540C	TDS Preparation	03/24/09 10:00 AM	34109
0903125-04A	P-MW-29	03/17/09 02:25 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/18/09 10:51 AM	34013
	P-MW-29	03/17/09 02:25 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/18/09 10:51 AM	34013
	P-MW-29	03/17/09 02:25 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/18/09 10:51 AM	34013
	P-MW-29	03/17/09 02:25 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/18/09 10:51 AM	34013
0903125-04B	P-MW-29	03/17/09 02:25 PM	Aqueous	E300	Anion Preparation	03/18/09 09:00 AM	34012
	P-MW-29	03/17/09 02:25 PM	Aqueous	E300	Anion Preparation	03/18/09 09:00 AM	34012
	P-MW-29	03/17/09 02:25 PM	Aqueous	E300	Anion Preparation	03/18/09 09:00 AM	34012
	P-MW-29	03/17/09 02:25 PM	Aqueous	M2320 B	Alkalinity Preparation	03/23/09 09:45 AM	34091
	P-MW-29	03/17/09 02:25 PM	Aqueous	M4500-H+ B	pH Preparation	03/18/09 11:20 AM	34014
	P-MW-29	03/17/09 02:25 PM	Aqueous	M2510 B	Conductivity Preparation	03/19/09 09:59 AM	34034
	P-MW-29	03/17/09 02:25 PM	Aqueous	M2540C	TDS Preparation	03/24/09 10:00 AM	34109
0903125-05A	P-MW-28	03/17/09 03:00 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/18/09 10:51 AM	34013
	P-MW-28	03/17/09 03:00 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/18/09 10:51 AM	34013
	P-MW-28	03/17/09 03:00 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/18/09 10:51 AM	34013
0903125-05B	P-MW-28	03/17/09 03:00 PM	Aqueous	E300	Anion Preparation	03/18/09 09:00 AM	34012
	P-MW-28	03/17/09 03:00 PM	Aqueous	E300	Anion Preparation	03/18/09 09:00 AM	34012
	P-MW-28	03/17/09 03:00 PM	Aqueous	E300	Anion Preparation	03/18/09 09:00 AM	34012
	P-MW-28	03/17/09 03:00 PM	Aqueous	M2320 B	Alkalinity Preparation	03/23/09 09:45 AM	34091
	P-MW-28	03/17/09 03:00 PM	Aqueous	M4500-H+ B	pH Preparation	03/18/09 11:20 AM	34014
	P-MW-28	03/17/09 03:00 PM	Aqueous	M2510 B	Conductivity Preparation	03/19/09 09:59 AM	34034
	P-MW-28	03/17/09 03:00 PM	Aqueous	M2540C	TDS Preparation	03/24/09 10:00 AM	34109
0903125-06A	P-MW-25	03/17/09 04:00 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/18/09 10:51 AM	34013
	P-MW-25	03/17/09 04:00 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/18/09 10:51 AM	34013
	P-MW-25	03/17/09 04:00 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/18/09 10:51 AM	34013
	P-MW-25	03/17/09 04:00 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/18/09 10:51 AM	34013
0903125-06B	P-MW-25	03/17/09 04:00 PM	Aqueous	E300	Anion Preparation	03/18/09 09:00 AM	34012
	P-MW-25	03/17/09 04:00 PM	Aqueous	E300	Anion Preparation	03/18/09 09:00 AM	34012

CLIENT: TRC Environmental Corp.
Project: Petronila Creek GW
Lab Order: 0903125

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
	P-MW-25	03/17/09 04:00 PM	Aqueous	E300	Anion Preparation	03/18/09 09:00 AM	34012
	P-MW-25	03/17/09 04:00 PM	Aqueous	M2320 B	Alkalinity Preparation	03/23/09 09:45 AM	34091
	P-MW-25	03/17/09 04:00 PM	Aqueous	M4500-H+ B	pH Preparation	03/18/09 11:20 AM	34014
	P-MW-25	03/17/09 04:00 PM	Aqueous	M2510 B	Conductivity Preparation	03/19/09 09:59 AM	34034
	P-MW-25	03/17/09 04:00 PM	Aqueous	M2540C	TDS Preparation	03/24/09 10:00 AM	34109
0903125-07A	P-MW-24	03/17/09 04:25 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/18/09 10:51 AM	34013
	P-MW-24	03/17/09 04:25 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/18/09 10:51 AM	34013
	P-MW-24	03/17/09 04:25 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/18/09 10:51 AM	34013
0903125-07B	P-MW-24	03/17/09 04:25 PM	Aqueous	E300	Anion Preparation	03/18/09 09:00 AM	34012
	P-MW-24	03/17/09 04:25 PM	Aqueous	E300	Anion Preparation	03/18/09 09:00 AM	34012
	P-MW-24	03/17/09 04:25 PM	Aqueous	E300	Anion Preparation	03/18/09 09:00 AM	34012
	P-MW-24	03/17/09 04:25 PM	Aqueous	M2320 B	Alkalinity Preparation	03/23/09 09:45 AM	34091
	P-MW-24	03/17/09 04:25 PM	Aqueous	M4500-H+ B	pH Preparation	03/18/09 11:20 AM	34014
	P-MW-24	03/17/09 04:25 PM	Aqueous	M2510 B	Conductivity Preparation	03/19/09 09:59 AM	34034
	P-MW-24	03/17/09 04:25 PM	Aqueous	M2540C	TDS Preparation	03/24/09 10:00 AM	34109
0903125-08A	P-MW-23	03/17/09 05:00 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/18/09 10:51 AM	34013
	P-MW-23	03/17/09 05:00 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/18/09 10:51 AM	34013
	P-MW-23	03/17/09 05:00 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/18/09 10:51 AM	34013
0903125-08B	P-MW-23	03/17/09 05:00 PM	Aqueous	E300	Anion Preparation	03/18/09 09:00 AM	34012
	P-MW-23	03/17/09 05:00 PM	Aqueous	E300	Anion Preparation	03/18/09 09:00 AM	34012
	P-MW-23	03/17/09 05:00 PM	Aqueous	E300	Anion Preparation	03/18/09 09:00 AM	34012
	P-MW-23	03/17/09 05:00 PM	Aqueous	M2320 B	Alkalinity Preparation	03/23/09 09:45 AM	34091
	P-MW-23	03/17/09 05:00 PM	Aqueous	M4500-H+ B	pH Preparation	03/18/09 11:20 AM	34014
	P-MW-23	03/17/09 05:00 PM	Aqueous	M2510 B	Conductivity Preparation	03/19/09 09:59 AM	34034
	P-MW-23	03/17/09 05:00 PM	Aqueous	M2540C	TDS Preparation	03/24/09 10:00 AM	34109

CLIENT: TRC Environmental Corp.
Project: Petronila Creek GW
Lab Order: 0903125

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
0903125-01A	P-MW-26	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34013	1	03/24/09 12:34 AM	ICP-MS2_090323C
	P-MW-26	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34013	1000	03/24/09 03:39 PM	ICP-MS3_090324A
	P-MW-26	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34013	50	03/24/09 05:39 PM	ICP-MS3_090324A
0903125-01B	P-MW-26	Aqueous	M2320 B	Alkalinity	34091	1	03/23/09 10:52 AM	TITRATOR_090323B
	P-MW-26	Aqueous	E300	Anions by IC method - Water	34012	5	03/18/09 11:44 AM	IC_090318A
	P-MW-26	Aqueous	E300	Anions by IC method - Water	34012	1000	03/24/09 02:12 PM	IC_090324A
	P-MW-26	Aqueous	E300	Anions by IC method - Water	34012	100	03/24/09 04:18 PM	IC_090324A
	P-MW-26	Aqueous	M4500-H+ B	pH	34014	1	03/18/09 10:50 AM	TITRATOR_090318A
	P-MW-26	Aqueous	M2510 B	Specific Conductance	34034	1	03/19/09 10:00 AM	WC_090319A
	P-MW-26	Aqueous	M2540C	Total Dissolved Solids	34098	1	03/23/09 01:00 PM	WC_090323B
0903125-02A	P-MW-27	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34013	1	03/24/09 12:39 AM	ICP-MS2_090323C
	P-MW-27	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34013	1000	03/24/09 03:45 PM	ICP-MS3_090324A
	P-MW-27	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34013	50	03/24/09 05:44 PM	ICP-MS3_090324A
0903125-02B	P-MW-27	Aqueous	M2320 B	Alkalinity	34091	1	03/23/09 10:59 AM	TITRATOR_090323B
	P-MW-27	Aqueous	E300	Anions by IC method - Water	34012	5	03/18/09 12:43 PM	IC_090318A
	P-MW-27	Aqueous	E300	Anions by IC method - Water	34012	1000	03/24/09 02:27 PM	IC_090324A
	P-MW-27	Aqueous	E300	Anions by IC method - Water	34012	100	03/24/09 05:05 PM	IC_090324A
	P-MW-27	Aqueous	M4500-H+ B	pH	34014	1	03/18/09 10:51 AM	TITRATOR_090318A
	P-MW-27	Aqueous	M2510 B	Specific Conductance	34034	1	03/19/09 10:00 AM	WC_090319A
	P-MW-27	Aqueous	M2540C	Total Dissolved Solids	34098	1	03/23/09 01:00 PM	WC_090323B
0903125-03A	P-MW-30	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34013	1	03/24/09 12:45 AM	ICP-MS2_090323C
	P-MW-30	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34013	500	03/24/09 04:05 PM	ICP-MS3_090324A
	P-MW-30	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34013	500	03/26/09 02:38 PM	ICP-MS3_090326A
0903125-03B	P-MW-30	Aqueous	M2320 B	Alkalinity	34091	1	03/23/09 11:03 AM	TITRATOR_090323B
	P-MW-30	Aqueous	E300	Anions by IC method - Water	34012	5	03/18/09 12:59 PM	IC_090318A
	P-MW-30	Aqueous	E300	Anions by IC method - Water	34012	1000	03/24/09 02:43 PM	IC_090324A
	P-MW-30	Aqueous	E300	Anions by IC method - Water	34012	100	03/24/09 05:20 PM	IC_090324A
	P-MW-30	Aqueous	M4500-H+ B	pH	34014	1	03/18/09 10:53 AM	TITRATOR_090318A
	P-MW-30	Aqueous	M2510 B	Specific Conductance	34034	1	03/19/09 10:00 AM	WC_090319A

CLIENT: TRC Environmental Corp.
Project: Petronila Creek GW
Lab Order: 0903125

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
	P-MW-30	Aqueous	M2540C	Total Dissolved Solids	34109	1	03/24/09 11:00 AM	WC_090324A
0903125-04A	P-MW-29	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34013	1	03/24/09 12:50 AM	ICP-MS2_090323C
	P-MW-29	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34013	500	03/24/09 04:10 PM	ICP-MS3_090324A
	P-MW-29	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34013	25	03/24/09 05:49 PM	ICP-MS3_090324A
	P-MW-29	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34013	500	03/26/09 02:43 PM	ICP-MS3_090326A
0903125-04B	P-MW-29	Aqueous	M2320 B	Alkalinity	34091	1	03/23/09 11:07 AM	TITRATOR_090323B
	P-MW-29	Aqueous	E300	Anions by IC method - Water	34012	5	03/18/09 01:15 PM	IC_090318A
	P-MW-29	Aqueous	E300	Anions by IC method - Water	34012	1000	03/24/09 02:59 PM	IC_090324A
	P-MW-29	Aqueous	E300	Anions by IC method - Water	34012	100	03/24/09 05:36 PM	IC_090324A
	P-MW-29	Aqueous	M4500-H+ B	pH	34014	1	03/18/09 10:54 AM	TITRATOR_090318A
	P-MW-29	Aqueous	M2510 B	Specific Conductance	34034	1	03/19/09 10:00 AM	WC_090319A
	P-MW-29	Aqueous	M2540C	Total Dissolved Solids	34109	1	03/24/09 11:00 AM	WC_090324A
0903125-05A	P-MW-28	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34013	1	03/24/09 12:56 AM	ICP-MS2_090323C
	P-MW-28	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34013	1000	03/24/09 04:15 PM	ICP-MS3_090324A
	P-MW-28	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34013	50	03/24/09 05:54 PM	ICP-MS3_090324A
0903125-05B	P-MW-28	Aqueous	M2320 B	Alkalinity	34091	1	03/23/09 11:12 AM	TITRATOR_090323B
	P-MW-28	Aqueous	E300	Anions by IC method - Water	34012	5	03/18/09 01:30 PM	IC_090318A
	P-MW-28	Aqueous	E300	Anions by IC method - Water	34012	1000	03/24/09 03:14 PM	IC_090324A
	P-MW-28	Aqueous	E300	Anions by IC method - Water	34012	100	03/24/09 05:52 PM	IC_090324A
	P-MW-28	Aqueous	M4500-H+ B	pH	34014	1	03/18/09 10:55 AM	TITRATOR_090318A
	P-MW-28	Aqueous	M2510 B	Specific Conductance	34034	1	03/19/09 10:00 AM	WC_090319A
	P-MW-28	Aqueous	M2540C	Total Dissolved Solids	34109	1	03/24/09 11:00 AM	WC_090324A
0903125-06A	P-MW-25	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34013	1	03/24/09 01:01 AM	ICP-MS2_090323C
	P-MW-25	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34013	500	03/24/09 04:20 PM	ICP-MS3_090324A
	P-MW-25	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34013	25	03/24/09 05:59 PM	ICP-MS3_090324A
	P-MW-25	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34013	500	03/26/09 02:49 PM	ICP-MS3_090326A
0903125-06B	P-MW-25	Aqueous	M2320 B	Alkalinity	34091	1	03/23/09 11:15 AM	TITRATOR_090323B
	P-MW-25	Aqueous	E300	Anions by IC method - Water	34012	5	03/18/09 02:20 PM	IC_090318A
	P-MW-25	Aqueous	E300	Anions by IC method - Water	34012	1000	03/24/09 06:08 PM	IC_090324A

CLIENT: TRC Environmental Corp.
Project: Petronila Creek GW
Lab Order: 0903125

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
	P-MW-25	Aqueous	E300	Anions by IC method - Water	34012	100	03/24/09 07:10 PM	IC_090324A
	P-MW-25	Aqueous	M4500-H+ B	pH	34014	1	03/18/09 10:56 AM	TITRATOR_090318A
	P-MW-25	Aqueous	M2510 B	Specific Conductance	34034	1	03/19/09 10:00 AM	WC_090319A
	P-MW-25	Aqueous	M2540C	Total Dissolved Solids	34109	1	03/24/09 11:00 AM	WC_090324A
0903125-07A	P-MW-24	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34013	1	03/23/09 11:36 PM	ICP-MS2_090323C
	P-MW-24	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34013	2000	03/24/09 03:14 PM	ICP-MS3_090324A
	P-MW-24	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34013	100	03/24/09 04:52 PM	ICP-MS3_090324A
0903125-07B	P-MW-24	Aqueous	M2320 B	Alkalinity	34091	1	03/23/09 11:20 AM	TITRATOR_090323B
	P-MW-24	Aqueous	E300	Anions by IC method - Water	34012	10	03/18/09 02:35 PM	IC_090318A
	P-MW-24	Aqueous	E300	Anions by IC method - Water	34012	1000	03/24/09 06:39 PM	IC_090324A
	P-MW-24	Aqueous	E300	Anions by IC method - Water	34012	100	03/24/09 07:26 PM	IC_090324A
	P-MW-24	Aqueous	M4500-H+ B	pH	34014	1	03/18/09 10:57 AM	TITRATOR_090318A
	P-MW-24	Aqueous	M2510 B	Specific Conductance	34034	1	03/19/09 10:00 AM	WC_090319A
	P-MW-24	Aqueous	M2540C	Total Dissolved Solids	34109	1	03/24/09 11:00 AM	WC_090324A
0903125-08A	P-MW-23	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34013	1	03/24/09 01:06 AM	ICP-MS2_090323C
	P-MW-23	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34013	1000	03/24/09 04:26 PM	ICP-MS3_090324A
	P-MW-23	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34013	50	03/24/09 06:04 PM	ICP-MS3_090324A
0903125-08B	P-MW-23	Aqueous	M2320 B	Alkalinity	34091	1	03/23/09 11:32 AM	TITRATOR_090323B
	P-MW-23	Aqueous	E300	Anions by IC method - Water	34012	5	03/18/09 02:51 PM	IC_090318A
	P-MW-23	Aqueous	E300	Anions by IC method - Water	34012	1000	03/24/09 06:55 PM	IC_090324A
	P-MW-23	Aqueous	E300	Anions by IC method - Water	34012	100	03/24/09 07:42 PM	IC_090324A
	P-MW-23	Aqueous	M4500-H+ B	pH	34014	1	03/18/09 11:00 AM	TITRATOR_090318A
	P-MW-23	Aqueous	M2510 B	Specific Conductance	34034	1	03/19/09 10:00 AM	WC_090319A
	P-MW-23	Aqueous	M2540C	Total Dissolved Solids	34109	1	03/24/09 11:00 AM	WC_090324A

CLIENT:	TRC Environmental Corp.	**Client Sample ID:**	P-MW-26
Project:	Petronila Creek GW	**Lab ID:**	0903125-01
Project No:	166420-04	**Collection Date:**	03/17/09 12:10 PM
Lab Order:	0903125	**Matrix:**	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		**SW6020**					**Analyst: KW**
Barium	0.0656	0.00300	0.0100		mg/L	1	03/24/09 12:34 AM
Calcium	1210	100	300		mg/L	1000	03/24/09 03:39 PM
Iron	0.704	0.0500	0.150		mg/L	1	03/24/09 12:34 AM
Magnesium	378	5.00	15.0		mg/L	50	03/24/09 05:39 PM
Potassium	28.2	5.00	15.0		mg/L	50	03/24/09 05:39 PM
Sodium	4740	100	300		mg/L	1000	03/24/09 03:39 PM
Anions by IC method - Water		**E300**					**Analyst: JBC**
Bromide	31.0	1.50	5.00		mg/L	5	03/18/09 11:44 AM
Chloride	11200	300	1000		mg/L	1000	03/24/09 02:12 PM
Nitrate-N	ND	0.500	2.50		mg/L	5	03/18/09 11:44 AM
Sulfate	2380	100	300		mg/L	100	03/24/09 04:18 PM
Alkalinity		**M2320 B**					**Analyst: JBC**
Alkalinity, Bicarbonate (As CaCO3)	208	10.0	20.0		mg/L	1	03/23/09 10:52 AM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	03/23/09 10:52 AM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	03/23/09 10:52 AM
Alkalinity, Total (As CaCO3)	208	10.0	20.0		mg/L	1	03/23/09 10:52 AM
pH		**M4500-H+ B**					**Analyst: AAD**
pH	6.77	0	0		pH Units	1	03/18/09 10:50 AM
Specific Conductance		**M2510 B**					**Analyst: AAD**
Specific Conductance	36700	10.0	10.0		µmhos/cm	1	03/19/09 10:00 AM
Total Dissolved Solids		**M2540C**					**Analyst: AAD**
Total Dissolved Solids (Residue, Filterable)	24500	10.0	10.0		mg/L	1	03/23/09 01:00 PM

Qualifiers:

	See Final Page of Report for MQLs and MDLs
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between SDL and RL
N	Parameter not NELAC certified
ND	Not Detected at the SDL
RL	Reporting Limit (MQL adjusted for moisture and sample size)
S	Spike Recovery outside control limits
SDL	Sample Detection Limit

CLIENT:	TRC Environmental Corp.	**Client Sample ID:**	P-MW-27
Project:	Petronila Creek GW	**Lab ID:**	0903125-02
Project No:	166420-04	**Collection Date:**	03/17/09 12:55 PM
Lab Order:	0903125	**Matrix:**	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		**SW6020**					**Analyst: KW**
Barium	0.0359	0.00300	0.0100		mg/L	1	03/24/09 12:39 AM
Calcium	1740	100	300		mg/L	1000	03/24/09 03:45 PM
Iron	ND	0.0500	0.150		mg/L	1	03/24/09 12:39 AM
Magnesium	395	5.00	15.0		mg/L	50	03/24/09 05:44 PM
Potassium	24.4	5.00	15.0		mg/L	50	03/24/09 05:44 PM
Sodium	5880	100	300		mg/L	1000	03/24/09 03:45 PM
Anions by IC method - Water		**E300**					**Analyst: JBC**
Bromide	40.3	1.50	5.00		mg/L	5	03/18/09 12:43 PM
Chloride	14100	300	1000		mg/L	1000	03/24/09 02:27 PM
Nitrate-N	ND	0.500	2.50		mg/L	5	03/18/09 12:43 PM
Sulfate	2190	100	300		mg/L	100	03/24/09 05:05 PM
Alkalinity		**M2320 B**					**Analyst: JBC**
Alkalinity, Bicarbonate (As CaCO3)	232	10.0	20.0		mg/L	1	03/23/09 10:59 AM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	03/23/09 10:59 AM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	03/23/09 10:59 AM
Alkalinity, Total (As CaCO3)	232	10.0	20.0		mg/L	1	03/23/09 10:59 AM
pH		**M4500-H+ B**					**Analyst: AAD**
pH	6.62	0	0		pH Units	1	03/18/09 10:51 AM
Specific Conductance		**M2510 B**					**Analyst: AAD**
Specific Conductance	44400	10.0	10.0		µmhos/cm	1	03/19/09 10:00 AM
Total Dissolved Solids		**M2540C**					**Analyst: AAD**
Total Dissolved Solids (Residue, Filterable)	29700	10.0	10.0		mg/L	1	03/23/09 01:00 PM

Qualifiers:

	See Final Page of Report for MQLs and MDLs
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between SDL and RL
N	Parameter not NELAC certified
ND	Not Detected at the SDL
RL	Reporting Limit (MQL adjusted for moisture and sample size)
S	Spike Recovery outside control limits
SDL	Sample Detection Limit

CLIENT:	TRC Environmental Corp.	**Client Sample ID:**	P-MW-30
Project:	Petronila Creek GW	**Lab ID:**	0903125-03
Project No:	166420-04	**Collection Date:**	03/17/09 01:41 PM
Lab Order:	0903125	**Matrix:**	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		**SW6020**					**Analyst: KW**
Barium	0.0839	0.00300	0.0100		mg/L	1	03/24/09 12:45 AM
Calcium	1370	50.0	150		mg/L	500	03/26/09 02:38 PM
Iron	ND	0.0500	0.150		mg/L	1	03/24/09 12:45 AM
Magnesium	188	50.0	150		mg/L	500	03/26/09 02:38 PM
Potassium	7.53	0.100	0.300		mg/L	1	03/24/09 12:45 AM
Sodium	3790	50.0	150		mg/L	500	03/26/09 02:38 PM
Anions by IC method - Water		**E300**					**Analyst: JBC**
Bromide	22.6	1.50	5.00		mg/L	5	03/18/09 12:59 PM
Chloride	8420	300	1000		mg/L	1000	03/24/09 02:43 PM
Nitrate-N	33.2	0.500	2.50		mg/L	5	03/18/09 12:59 PM
Sulfate	2130	100	300		mg/L	100	03/24/09 05:20 PM
Alkalinity		**M2320 B**					**Analyst: JBC**
Alkalinity, Bicarbonate (As CaCO3)	258	10.0	20.0		mg/L	1	03/23/09 11:03 AM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	03/23/09 11:03 AM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	03/23/09 11:03 AM
Alkalinity, Total (As CaCO3)	258	10.0	20.0		mg/L	1	03/23/09 11:03 AM
pH		**M4500-H+ B**					**Analyst: AAD**
pH	6.80	0	0		pH Units	1	03/18/09 10:53 AM
Specific Conductance		**M2510 B**					**Analyst: AAD**
Specific Conductance	28600	10.0	10.0		µmhos/cm	1	03/19/09 10:00 AM
Total Dissolved Solids		**M2540C**					**Analyst: AAD**
Total Dissolved Solids (Residue, Filterable)	17900	10.0	10.0		mg/L	1	03/24/09 11:00 AM

Qualifiers:

	See Final Page of Report for MQLs and MDLs
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between SDL and RL
N	Parameter not NELAC certified
ND	Not Detected at the SDL
RL	Reporting Limit (MQL adjusted for moisture and sample size)
S	Spike Recovery outside control limits
SDL	Sample Detection Limit

CLIENT:	TRC Environmental Corp.	**Client Sample ID:**	P-MW-29
Project:	Petronila Creek GW	**Lab ID:**	0903125-04
Project No:	166420-04	**Collection Date:**	03/17/09 02:25 PM
Lab Order:	0903125	**Matrix:**	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		**SW6020**					**Analyst: KW**
Barium	0.151	0.00300	0.0100		mg/L	1	03/24/09 12:50 AM
Calcium	836	50.0	150		mg/L	500	03/26/09 02:43 PM
Iron	0.398	0.0500	0.150		mg/L	1	03/24/09 12:50 AM
Magnesium	156	50.0	150		mg/L	500	03/26/09 02:43 PM
Potassium	13.5	2.50	7.50		mg/L	25	03/24/09 05:49 PM
Sodium	2990	50.0	150		mg/L	500	03/26/09 02:43 PM
Anions by IC method - Water		**E300**					**Analyst: JBC**
Bromide	18.5	1.50	5.00		mg/L	5	03/18/09 01:15 PM
Chloride	7060	300	1000		mg/L	1000	03/24/09 02:59 PM
Nitrate-N	ND	0.500	2.50		mg/L	5	03/18/09 01:15 PM
Sulfate	1390	100	300		mg/L	100	03/24/09 05:36 PM
Alkalinity		**M2320 B**					**Analyst: JBC**
Alkalinity, Bicarbonate (As CaCO3)	249	10.0	20.0		mg/L	1	03/23/09 11:07 AM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	03/23/09 11:07 AM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	03/23/09 11:07 AM
Alkalinity, Total (As CaCO3)	249	10.0	20.0		mg/L	1	03/23/09 11:07 AM
pH		**M4500-H+ B**					**Analyst: AAD**
pH	6.86	0	0		pH Units	1	03/18/09 10:54 AM
Specific Conductance		**M2510 B**					**Analyst: AAD**
Specific Conductance	22700	10.0	10.0		µmhos/cm	1	03/19/09 10:00 AM
Total Dissolved Solids		**M2540C**					**Analyst: AAD**
Total Dissolved Solids (Residue, Filterable)	14800	10.0	10.0		mg/L	1	03/24/09 11:00 AM

Qualifiers: See Final Page of Report for MQLs and MDLs

B	Analyte detected in the associated Method Blank	J	Analyte detected between SDL and RL
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the SDL
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit (MQL adjusted for moisture and sample size)
		S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

CLIENT:	TRC Environmental Corp.	**Client Sample ID:**	P-MW-28
Project:	Petronila Creek GW	**Lab ID:**	0903125-05
Project No:	166420-04	**Collection Date:**	03/17/09 03:00 PM
Lab Order:	0903125	**Matrix:**	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		**SW6020**					**Analyst: KW**
Barium	0.120	0.00300	0.0100		mg/L	1	03/24/09 12:56 AM
Calcium	905	100	300		mg/L	1000	03/24/09 04:15 PM
Iron	0.0690	0.0500	0.150	J	mg/L	1	03/24/09 12:56 AM
Magnesium	285	5.00	15.0		mg/L	50	03/24/09 05:54 PM
Potassium	21.4	5.00	15.0		mg/L	50	03/24/09 05:54 PM
Sodium	5060	100	300		mg/L	1000	03/24/09 04:15 PM
Anions by IC method - Water		**E300**					**Analyst: JBC**
Bromide	31.1	1.50	5.00		mg/L	5	03/18/09 01:30 PM
Chloride	10800	300	1000		mg/L	1000	03/24/09 03:14 PM
Nitrate-N	ND	0.500	2.50		mg/L	5	03/18/09 01:30 PM
Sulfate	2490	100	300		mg/L	100	03/24/09 05:52 PM
Alkalinity		**M2320 B**					**Analyst: JBC**
Alkalinity, Bicarbonate (As CaCO3)	318	10.0	20.0		mg/L	1	03/23/09 11:12 AM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	03/23/09 11:12 AM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	03/23/09 11:12 AM
Alkalinity, Total (As CaCO3)	318	10.0	20.0		mg/L	1	03/23/09 11:12 AM
pH		**M4500-H+ B**					**Analyst: AAD**
pH	6.87	0	0		pH Units	1	03/18/09 10:55 AM
Specific Conductance		**M2510 B**					**Analyst: AAD**
Specific Conductance	35500	10.0	10.0		µmhos/cm	1	03/19/09 10:00 AM
Total Dissolved Solids		**M2540C**					**Analyst: AAD**
Total Dissolved Solids (Residue, Filterable)	27700	10.0	10.0		mg/L	1	03/24/09 11:00 AM

Qualifiers:

	See Final Page of Report for MQLs and MDLs	J	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

CLIENT:	TRC Environmental Corp.	**Client Sample ID:**	P-MW-25
Project:	Petronila Creek GW	**Lab ID:**	0903125-06
Project No:	166420-04	**Collection Date:**	03/17/09 04:00 PM
Lab Order:	0903125	**Matrix:**	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		**SW6020**					**Analyst: KW**
Barium	0.208	0.00300	0.0100		mg/L	1	03/24/09 01:01 AM
Calcium	1050	50.0	150		mg/L	500	03/26/09 02:49 PM
Iron	0.667	0.0500	0.150		mg/L	1	03/24/09 01:01 AM
Magnesium	241	50.0	150		mg/L	500	03/26/09 02:49 PM
Potassium	12.5	2.50	7.50		mg/L	25	03/24/09 05:59 PM
Sodium	2820	50.0	150		mg/L	500	03/26/09 02:49 PM
Anions by IC method - Water		**E300**					**Analyst: JBC**
Bromide	20.1	1.50	5.00		mg/L	5	03/18/09 02:20 PM
Chloride	7570	300	1000		mg/L	1000	03/24/09 06:08 PM
Nitrate-N	0.808	0.500	2.50	J	mg/L	5	03/18/09 02:20 PM
Sulfate	928	100	300		mg/L	100	03/24/09 07:10 PM
Alkalinity		**M2320 B**					**Analyst: JBC**
Alkalinity, Bicarbonate (As CaCO3)	227	10.0	20.0		mg/L	1	03/23/09 11:15 AM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	03/23/09 11:15 AM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	03/23/09 11:15 AM
Alkalinity, Total (As CaCO3)	227	10.0	20.0		mg/L	1	03/23/09 11:15 AM
pH		**M4500-H+ B**					**Analyst: AAD**
pH	6.91	0	0		pH Units	1	03/18/09 10:56 AM
Specific Conductance		**M2510 B**					**Analyst: AAD**
Specific Conductance	23400	10.0	10.0		µmhos/cm	1	03/19/09 10:00 AM
Total Dissolved Solids		**M2540C**					**Analyst: AAD**
Total Dissolved Solids (Residue, Filterable)	14900	10.0	10.0		mg/L	1	03/24/09 11:00 AM

Qualifiers:

	See Final Page of Report for MQLs and MDLs
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between SDL and RL
N	Parameter not NELAC certified
ND	Not Detected at the SDL
RL	Reporting Limit (MQL adjusted for moisture and sample size)
S	Spike Recovery outside control limits
SDL	Sample Detection Limit

CLIENT:	TRC Environmental Corp.	**Client Sample ID:**	P-MW-24
Project:	Petronila Creek GW	**Lab ID:**	0903125-07
Project No:	166420-04	**Collection Date:**	03/17/09 04:25 PM
Lab Order:	0903125	**Matrix:**	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		**SW6020**					**Analyst: KW**
Barium	0.640	0.00300	0.0100		mg/L	1	03/23/09 11:36 PM
Calcium	2950	200	600		mg/L	2000	03/24/09 03:14 PM
Iron	2.43	0.0500	0.150		mg/L	1	03/23/09 11:36 PM
Magnesium	526	10.0	30.0		mg/L	100	03/24/09 04:52 PM
Potassium	62.1	10.0	30.0		mg/L	100	03/24/09 04:52 PM
Sodium	12900	200	600		mg/L	2000	03/24/09 03:14 PM
Anions by IC method - Water		**E300**					**Analyst: JBC**
Bromide	111	3.00	10.0		mg/L	10	03/18/09 02:35 PM
Chloride	31200	300	1000		mg/L	1000	03/24/09 06:39 PM
Nitrate-N	ND	1.00	5.00		mg/L	10	03/18/09 02:35 PM
Sulfate	899	100	300		mg/L	100	03/24/09 07:26 PM
Alkalinity		**M2320 B**					**Analyst: JBC**
Alkalinity, Bicarbonate (As CaCO3)	257	10.0	20.0		mg/L	1	03/23/09 11:20 AM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	03/23/09 11:20 AM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	03/23/09 11:20 AM
Alkalinity, Total (As CaCO3)	257	10.0	20.0		mg/L	1	03/23/09 11:20 AM
pH		**M4500-H+ B**					**Analyst: AAD**
pH	6.56	0	0		pH Units	1	03/18/09 10:57 AM
Specific Conductance		**M2510 B**					**Analyst: AAD**
Specific Conductance	85900	10.0	10.0		µmhos/cm	1	03/19/09 10:00 AM
Total Dissolved Solids		**M2540C**					**Analyst: AAD**
Total Dissolved Solids (Residue, Filterable)	53900	10.0	10.0		mg/L	1	03/24/09 11:00 AM

Qualifiers:

	See Final Page of Report for MQLs and MDLs
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between SDL and RL
N	Parameter not NELAC certified
ND	Not Detected at the SDL
RL	Reporting Limit (MQL adjusted for moisture and sample size)
S	Spike Recovery outside control limits
SDL	Sample Detection Limit

CLIENT:	TRC Environmental Corp.	**Client Sample ID:**	P-MW-23
Project:	Petronila Creek GW	**Lab ID:**	0903125-08
Project No:	166420-04	**Collection Date:**	03/17/09 05:00 PM
Lab Order:	0903125	**Matrix:**	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		**SW6020**					**Analyst: KW**
Barium	0.240	0.00300	0.0100		mg/L	1	03/24/09 01:06 AM
Calcium	2490	100	300		mg/L	1000	03/24/09 04:26 PM
Iron	ND	0.0500	0.150		mg/L	1	03/24/09 01:06 AM
Magnesium	367	5.00	15.0		mg/L	50	03/24/09 06:04 PM
Potassium	86.0	5.00	15.0		mg/L	50	03/24/09 06:04 PM
Sodium	6950	100	300		mg/L	1000	03/24/09 04:26 PM
Anions by IC method - Water		**E300**					**Analyst: JBC**
Bromide	67.4	1.50	5.00		mg/L	5	03/18/09 02:51 PM
Chloride	19000	300	1000		mg/L	1000	03/24/09 06:55 PM
Nitrate-N	6.84	0.500	2.50		mg/L	5	03/18/09 02:51 PM
Sulfate	1050	100	300		mg/L	100	03/24/09 07:42 PM
Alkalinity		**M2320 B**					**Analyst: JBC**
Alkalinity, Bicarbonate (As CaCO3)	262	10.0	20.0		mg/L	1	03/23/09 11:32 AM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	03/23/09 11:32 AM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	03/23/09 11:32 AM
Alkalinity, Total (As CaCO3)	262	10.0	20.0		mg/L	1	03/23/09 11:32 AM
pH		**M4500-H+ B**					**Analyst: AAD**
pH	6.39	0	0		pH Units	1	03/18/09 11:00 AM
Specific Conductance		**M2510 B**					**Analyst: AAD**
Specific Conductance	53800	10.0	10.0		µmhos/cm	1	03/19/09 10:00 AM
Total Dissolved Solids		**M2540C**					**Analyst: AAD**
Total Dissolved Solids (Residue, Filterable)	36200	10.0	10.0		mg/L	1	03/24/09 11:00 AM

Qualifiers:

	See Final Page of Report for MQLs and MDLs
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between SDL and RL
N	Parameter not NELAC certified
ND	Not Detected at the SDL
RL	Reporting Limit (MQL adjusted for moisture and sample size)
S	Spike Recovery outside control limits
SDL	Sample Detection Limit

CLIENT: TRC Environmental Corp.
Work Order: 0903125
Project: Petronila Creek GW

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_090323C

Sample ID:	**MB-34013**	**Batch ID:**	**34013**		**TestNo:**		**SW6020**		**Units:**		**mg/L**
SampType:	**MBLK**	**Run ID:**	**ICP-MS2_090323C**		**Analysis Date:**		**03/23/09 11:19 PM**		**Prep Date:**		**03/18/09**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Barium		ND	0.0100								
Iron		ND	0.150								
Magnesium		ND	0.300								
Potassium		ND	0.300								

Sample ID:	**LCS-34013**	**Batch ID:**	**34013**		**TestNo:**		**SW6020**		**Units:**		**mg/L**
SampType:	**LCS**	**Run ID:**	**ICP-MS2_090323C**		**Analysis Date:**		**03/23/09 11:25 PM**		**Prep Date:**		**03/18/09**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Barium		0.202	0.0100	0.200	0	101	80	120			
Iron		4.91	0.150	5.00	0	98.2	80	120			
Magnesium		4.58	0.300	5.00	0	91.6	80	120			
Potassium		4.92	0.300	5.00	0	98.4	80	120			

Sample ID:	**LCSD-34013**	**Batch ID:**	**34013**		**TestNo:**		**SW6020**		**Units:**		**mg/L**
SampType:	**LCSD**	**Run ID:**	**ICP-MS2_090323C**		**Analysis Date:**		**03/23/09 11:30 PM**		**Prep Date:**		**03/18/09**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Barium		0.206	0.0100	0.200	0	103	80	120	1.81	15	
Iron		4.90	0.150	5.00	0	98.0	80	120	0.245	15	
Magnesium		4.60	0.300	5.00	0	91.9	80	120	0.327	15	
Potassium		5.01	0.300	5.00	0	100	80	120	1.89	15	

Sample ID:	**0903125-07A SD**	**Batch ID:**	**34013**		**TestNo:**		**SW6020**		**Units:**		**mg/L**
SampType:	**SD**	**Run ID:**	**ICP-MS2_090323C**		**Analysis Date:**		**03/23/09 11:41 PM**		**Prep Date:**		**03/18/09**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Barium		0.643	0.0500	0	0.640				0.468	10	
Iron		2.85	0.750	0	2.43				15.8	10	R

Sample ID:	**0903125-07A PDS**	**Batch ID:**	**34013**		**TestNo:**		**SW6020**		**Units:**		**mg/L**
SampType:	**PDS**	**Run ID:**	**ICP-MS2_090323C**		**Analysis Date:**		**03/23/09 11:46 PM**		**Prep Date:**		**03/18/09**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Barium		0.806	0.0100	0.200	0.640	83.1	75	125			
Iron		6.47	0.150	5.00	2.43	80.8	75	125			

Sample ID:	**0903125-07A MS**	**Batch ID:**	**34013**		**TestNo:**		**SW6020**		**Units:**		**mg/L**
SampType:	**MS**	**Run ID:**	**ICP-MS2_090323C**		**Analysis Date:**		**03/23/09 11:52 PM**		**Prep Date:**		**03/18/09**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Barium		0.836	0.0100	0.200	0.640	97.8	80	120			
Iron		6.44	0.150	5.00	2.43	80.3	80	120			

Sample ID:	**0903125-07A MSD**	**Batch ID:**	**34013**		**TestNo:**		**SW6020**		**Units:**		**mg/L**
SampType:	**MSD**	**Run ID:**	**ICP-MS2_090323C**		**Analysis Date:**		**03/23/09 11:57 PM**		**Prep Date:**		**03/18/09**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Barium		0.839	0.0100	0.200	0.640	99.7	80	120	0.454	15	
Iron		6.46	0.150	5.00	2.43	80.6	80	120	0.186	15	

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903125
Project: Petronila Creek GW

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_090323C

Sample ID:	**ICV1-090323**	**Batch ID:**	**R42473**		**TestNo:**		**SW6020**		**Units:**		**mg/L**
SampType:	**ICV**	**Run ID:**	**ICP-MS2_090323C**		**Analysis Date:**		**03/23/09 12:44 PM**		**Prep Date:**		
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Barium		0.0976	0.0100	0.100	0	97.6	90	110			
Iron		2.62	0.150	2.50	0	105	90	110			
Magnesium		2.37	0.300	2.50	0	95.0	90	110			
Potassium		2.46	0.300	2.50	0	98.2	90	110			

Sample ID:	**CCV6-090323**	**Batch ID:**	**R42473**		**TestNo:**		**SW6020**		**Units:**		**mg/L**
SampType:	**CCV**	**Run ID:**	**ICP-MS2_090323C**		**Analysis Date:**		**03/23/09 10:41 PM**		**Prep Date:**		
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Barium		0.200	0.0100	0.200	0	100	90	110			
Iron		4.97	0.150	5.00	0	99.4	90	110			
Magnesium		4.57	0.300	5.00	0	91.4	90	110			
Potassium		4.94	0.300	5.00	0	98.8	90	110			

Sample ID:	**CCV7-090323**	**Batch ID:**	**R42473**		**TestNo:**		**SW6020**		**Units:**		**mg/L**
SampType:	**CCV**	**Run ID:**	**ICP-MS2_090323C**		**Analysis Date:**		**03/24/09 12:02 AM**		**Prep Date:**		
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Barium		0.186	0.0100	0.200	0	93.0	90	110			
Iron		4.69	0.150	5.00	0	93.7	90	110			
Magnesium		4.55	0.300	5.00	0	91.0	90	110			
Potassium		5.30	0.300	5.00	0	106	90	110			

Sample ID:	**CCV8-090323**	**Batch ID:**	**R42473**		**TestNo:**		**SW6020**		**Units:**		**mg/L**
SampType:	**CCV**	**Run ID:**	**ICP-MS2_090323C**		**Analysis Date:**		**03/24/09 01:12 AM**		**Prep Date:**		
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Barium		0.200	0.0100	0.200	0	100	90	110			
Iron		4.73	0.150	5.00	0	94.6	90	110			
Potassium		5.25	0.300	5.00	0	105	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903125
Project: Petronila Creek GW

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_090324A

Sample ID:	**MB-34013**	**Batch ID:**	**34013**		**TestNo:**		**SW6020**		**Units:**		**mg/L**
SampType:	**MBLK**	**Run ID:**	**ICP-MS3_090324A**		**Analysis Date:**		**03/24/09 02:58 PM**		**Prep Date:**		**03/18/09**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Calcium		ND	0.300								
Sodium		ND	0.300								

Sample ID:	**LCS-34013**	**Batch ID:**	**34013**		**TestNo:**		**SW6020**		**Units:**		**mg/L**
SampType:	**LCS**	**Run ID:**	**ICP-MS3_090324A**		**Analysis Date:**		**03/24/09 03:04 PM**		**Prep Date:**		**03/18/09**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Calcium		4.69	0.300	5.00	0	93.8	80	120			
Sodium		4.89	0.300	5.00	0	97.7	80	120			

Sample ID:	**LCSD-34013**	**Batch ID:**	**34013**		**TestNo:**		**SW6020**		**Units:**		**mg/L**
SampType:	**LCSD**	**Run ID:**	**ICP-MS3_090324A**		**Analysis Date:**		**03/24/09 03:09 PM**		**Prep Date:**		**03/18/09**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Calcium		4.65	0.300	5.00	0	92.9	80	120	0.900	15	
Sodium		4.87	0.300	5.00	0	97.5	80	120	0.246	15	

Sample ID:	**0903125-07A SD**	**Batch ID:**	**34013**		**TestNo:**		**SW6020**		**Units:**		**mg/L**
SampType:	**SD**	**Run ID:**	**ICP-MS3_090324A**		**Analysis Date:**		**03/24/09 03:19 PM**		**Prep Date:**		**03/18/09**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Calcium		2910	3000	0	2950				1.43	10	
Sodium		13100	3000	0	12900				1.32	10	

Sample ID:	**0903125-07A PDS**	**Batch ID:**	**34013**		**TestNo:**		**SW6020**		**Units:**		**mg/L**
SampType:	**PDS**	**Run ID:**	**ICP-MS3_090324A**		**Analysis Date:**		**03/24/09 03:24 PM**		**Prep Date:**		**03/18/09**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Calcium		12800	600	10000	2950	98.8	75	125			
Sodium		22100	600	10000	12900	91.8	75	125			

Sample ID:	**0903125-07A MS**	**Batch ID:**	**34013**		**TestNo:**		**SW6020**		**Units:**		**mg/L**
SampType:	**MS**	**Run ID:**	**ICP-MS3_090324A**		**Analysis Date:**		**03/24/09 03:29 PM**		**Prep Date:**		**03/18/09**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Calcium		3050	600	5.00	2950	2120	80	120			S
Sodium		12800	600	5.00	12900	-3160	80	120			S

Sample ID:	**0903125-07A MSD**	**Batch ID:**	**34013**		**TestNo:**		**SW6020**		**Units:**		**mg/L**
SampType:	**MSD**	**Run ID:**	**ICP-MS3_090324A**		**Analysis Date:**		**03/24/09 03:34 PM**		**Prep Date:**		**03/18/09**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Calcium		2720	600	5.00	2950	-4600	80	120	11.6	15	S
Sodium		11400	600	5.00	12900	-30300	80	120	11.2	15	S

Sample ID:	**0903125-07A SD**	**Batch ID:**	**34013**		**TestNo:**		**SW6020**		**Units:**		**mg/L**
SampType:	**SD**	**Run ID:**	**ICP-MS3_090324A**		**Analysis Date:**		**03/24/09 04:57 PM**		**Prep Date:**		**03/18/09**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Magnesium		512	150	0	526				2.70	10	
Potassium		62.4	150	0	62.1				0.578	10	

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903125
Project: Petronila Creek GW

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_090324A

Sample ID:	**0903125-07A PDS**	**Batch ID:**	**34013**	**TestNo:**		**SW6020**		**Units:**		**mg/L**
SampType:	**PDS**	**Run ID:**	**ICP-MS3_090324A**	**Analysis Date:**		**03/24/09 05:02 PM**		**Prep Date:**		**03/18/09**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Magnesium		989	30.0	500	526	92.6	75	125			
Potassium		530	30.0	500	62.1	93.5	75	125			

Sample ID:	**0903125-07A MS**	**Batch ID:**	**34013**	**TestNo:**		**SW6020**		**Units:**		**mg/L**
SampType:	**MS**	**Run ID:**	**ICP-MS3_090324A**	**Analysis Date:**		**03/24/09 05:08 PM**		**Prep Date:**		**03/18/09**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Magnesium		512	30.0	5.00	526	-280	80	120			S
Potassium		64.5	30.0	5.00	62.1	48.4	80	120			S

Sample ID:	**0903125-07A MSD**	**Batch ID:**	**34013**	**TestNo:**		**SW6020**		**Units:**		**mg/L**
SampType:	**MSD**	**Run ID:**	**ICP-MS3_090324A**	**Analysis Date:**		**03/24/09 05:13 PM**		**Prep Date:**		**03/18/09**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Magnesium		499	30.0	5.00	526	-532	80	120	2.49	15	S
Potassium		63.0	30.0	5.00	62.1	18.4	80	120	2.35	15	S

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903125
Project: Petronila Creek GW

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_090324A

Sample ID:	**ICV1-090324**	**Batch ID:**	**R42485**		**TestNo:**		**SW6020**		**Units:**		**mg/L**
SampType:	**ICV**	**Run ID:**	**ICP-MS3_090324A**		**Analysis Date:**		**03/24/09 12:33 PM**		**Prep Date:**		
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Calcium		2.39	0.300	2.50	0	95.7	90	110			
Magnesium		2.43	0.300	2.50	0	97.4	90	110			
Potassium		2.46	0.300	2.50	0	98.2	90	110			
Sodium		2.42	0.300	2.50	0	97.0	90	110			

Sample ID:	**CCV1-090324**	**Batch ID:**	**R42485**		**TestNo:**		**SW6020**		**Units:**		**mg/L**
SampType:	**CCV**	**Run ID:**	**ICP-MS3_090324A**		**Analysis Date:**		**03/24/09 01:52 PM**		**Prep Date:**		
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Calcium		4.86	0.300	5.00	0	97.1	90	110			
Magnesium		4.96	0.300	5.00	0	99.1	90	110			
Potassium		4.95	0.300	5.00	0	99.0	90	110			
Sodium		4.99	0.300	5.00	0	99.8	90	110			

Sample ID:	**CCV2-090324**	**Batch ID:**	**R42485**		**TestNo:**		**SW6020**		**Units:**		**mg/L**
SampType:	**CCV**	**Run ID:**	**ICP-MS3_090324A**		**Analysis Date:**		**03/24/09 02:48 PM**		**Prep Date:**		
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Calcium		4.74	0.300	5.00	0	94.8	90	110			
Sodium		5.00	0.300	5.00	0	99.9	90	110			

Sample ID:	**CCV3-090324**	**Batch ID:**	**R42485**		**TestNo:**		**SW6020**		**Units:**		**mg/L**
SampType:	**CCV**	**Run ID:**	**ICP-MS3_090324A**		**Analysis Date:**		**03/24/09 03:50 PM**		**Prep Date:**		
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Calcium		4.80	0.300	5.00	0	95.9	90	110			
Sodium		5.02	0.300	5.00	0	100	90	110			

Sample ID:	**CCV4-090324**	**Batch ID:**	**R42485**		**TestNo:**		**SW6020**		**Units:**		**mg/L**
SampType:	**CCV**	**Run ID:**	**ICP-MS3_090324A**		**Analysis Date:**		**03/24/09 04:41 PM**		**Prep Date:**		
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Calcium		4.74	0.300	5.00	0	94.8	90	110			
Magnesium		4.95	0.300	5.00	0	99.0	90	110			
Potassium		5.02	0.300	5.00	0	100	90	110			
Sodium		5.01	0.300	5.00	0	100	90	110			

Sample ID:	**CCV5-090324**	**Batch ID:**	**R42485**		**TestNo:**		**SW6020**		**Units:**		**mg/L**
SampType:	**CCV**	**Run ID:**	**ICP-MS3_090324A**		**Analysis Date:**		**03/24/09 05:18 PM**		**Prep Date:**		
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Magnesium		4.88	0.300	5.00	0	97.5	90	110			
Potassium		4.93	0.300	5.00	0	98.6	90	110			

Sample ID:	**CCV6-090324**	**Batch ID:**	**R42485**		**TestNo:**		**SW6020**		**Units:**		**mg/L**
SampType:	**CCV**	**Run ID:**	**ICP-MS3_090324A**		**Analysis Date:**		**03/24/09 06:09 PM**		**Prep Date:**		
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Magnesium		4.85	0.300	5.00	0	96.9	90	110			
Potassium		4.94	0.300	5.00	0	98.8	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903125
Project: Petronila Creek GW

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_090326A

Sample ID:	**ICV1-090326**	**Batch ID:**	**R42551**		**TestNo:**		**SW6020**		**Units:**		**mg/L**
SampType:	**ICV**	**Run ID:**	**ICP-MS3_090326A**		**Analysis Date:**		**03/26/09 11:53 AM**		**Prep Date:**		
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Calcium		2.42	0.300	2.50	0	96.6	90	110			
Magnesium		2.43	0.300	2.50	0	97.1	90	110			
Sodium		2.40	0.300	2.50	0	95.8	90	110			

Sample ID:	**CCV2-090326**	**Batch ID:**	**R42551**		**TestNo:**		**SW6020**		**Units:**		**mg/L**
SampType:	**CCV**	**Run ID:**	**ICP-MS3_090326A**		**Analysis Date:**		**03/26/09 02:02 PM**		**Prep Date:**		
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Calcium		4.90	0.300	5.00	0	97.9	90	110			
Magnesium		4.87	0.300	5.00	0	97.4	90	110			
Sodium		4.80	0.300	5.00	0	96.0	90	110			

Sample ID:	**CCV3-090326**	**Batch ID:**	**R42551**		**TestNo:**		**SW6020**		**Units:**		**mg/L**
SampType:	**CCV**	**Run ID:**	**ICP-MS3_090326A**		**Analysis Date:**		**03/26/09 03:04 PM**		**Prep Date:**		
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Calcium		5.00	0.300	5.00	0	99.9	90	110			
Magnesium		4.93	0.300	5.00	0	98.5	90	110			
Sodium		4.82	0.300	5.00	0	96.5	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903125
Project: Petronila Creek GW

ANALYTICAL QC SUMMARY REPORT

RunID: IC_090318A

Sample ID:	**LCS-34012**	**Batch ID:**	**34012**		**TestNo:**		**E300**			**Units:**	**mg/L**
SampType:	**LCS**	**Run ID:**	**IC_090318A**		**Analysis Date:**		**03/18/09 08:54 AM**			**Prep Date:**	**03/18/09**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Bromide		21.2	1.00	20.00	0	106	90	110			
Nitrate-N		5.32	0.500	5.000	0	106	90	110			

Sample ID:	**LCSD-34012**	**Batch ID:**	**34012**		**TestNo:**		**E300**			**Units:**	**mg/L**
SampType:	**LCSD**	**Run ID:**	**IC_090318A**		**Analysis Date:**		**03/18/09 09:09 AM**			**Prep Date:**	**03/18/09**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Bromide		21.3	1.00	20.00	0	107	90	110	0.563	20	
Nitrate-N		5.34	0.500	5.000	0	107	90	110	0.360	20	

Sample ID:	**MB-34012**	**Batch ID:**	**34012**		**TestNo:**		**E300**			**Units:**	**mg/L**
SampType:	**MBLK**	**Run ID:**	**IC_090318A**		**Analysis Date:**		**03/18/09 09:25 AM**			**Prep Date:**	**03/18/09**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Bromide		ND	1.00								
Nitrate-N		ND	0.500								

Sample ID:	**0903125-01B MS**	**Batch ID:**	**34012**		**TestNo:**		**E300**			**Units:**	**mg/L**
SampType:	**MS**	**Run ID:**	**IC_090318A**		**Analysis Date:**		**03/18/09 12:12 PM**			**Prep Date:**	**03/18/09**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Bromide		165	5.00	100.0	18.57	147	90	110			S
Nitrate-N		34.4	2.50	25.00	0	138	90	110			S

Sample ID:	**0903125-01B MSD**	**Batch ID:**	**34012**		**TestNo:**		**E300**			**Units:**	**mg/L**
SampType:	**MSD**	**Run ID:**	**IC_090318A**		**Analysis Date:**		**03/18/09 12:27 PM**			**Prep Date:**	**03/18/09**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Bromide		166	5.00	100.0	18.57	147	90	110	0.418	20	S
Nitrate-N		33.8	2.50	25.00	0	135	90	110	1.78	20	S

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903125
Project: Petronila Creek GW

ANALYTICAL QC SUMMARY REPORT

RunID: IC_090318A

Sample ID:	**ICV-090318**	**Batch ID:**	**R42390**		**TestNo:**		**E300**			**Units:**	**mg/L**
SampType:	**ICV**	**Run ID:**	**IC_090318A**		**Analysis Date:**		**03/18/09 08:35 AM**			**Prep Date:**	**03/18/09**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Bromide		54.8	1.00	50.00	0	110	90	110			
Nitrate-N		13.7	0.500	12.50	0	110	90	110			

Sample ID:	**CCV1-090318**	**Batch ID:**	**R42390**		**TestNo:**		**E300**			**Units:**	**mg/L**
SampType:	**CCV**	**Run ID:**	**IC_090318A**		**Analysis Date:**		**03/18/09 02:02 PM**			**Prep Date:**	**03/18/09**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Bromide		21.5	1.00	20.00	0	108	90	110			
Nitrate-N		5.40	0.500	5.000	0	108	90	110			

Sample ID:	**CCV2-090318**	**Batch ID:**	**R42390**		**TestNo:**		**E300**			**Units:**	**mg/L**
SampType:	**CCV**	**Run ID:**	**IC_090318A**		**Analysis Date:**		**03/18/09 03:23 PM**			**Prep Date:**	**03/18/09**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Bromide		21.3	1.00	20.00	0	106	90	110			
Nitrate-N		5.32	0.500	5.000	0	106	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903125
Project: Petronila Creek GW

ANALYTICAL QC SUMMARY REPORT

RunID: IC_090324A

Sample ID:	**0903125-01B MS**	**Batch ID:**	**34012**		**TestNo:**		**E300**			**Units:**	**mg/L**
SampType:	**MS**	**Run ID:**	**IC_090324A**		**Analysis Date:**		**03/24/09 03:46 PM**			**Prep Date:**	**03/18/09**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Chloride		16800	1000	10000	6694	101	90	110			

Sample ID:	**0903125-01B MSD**	**Batch ID:**	**34012**		**TestNo:**		**E300**			**Units:**	**mg/L**
SampType:	**MSD**	**Run ID:**	**IC_090324A**		**Analysis Date:**		**03/24/09 04:02 PM**			**Prep Date:**	**03/18/09**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Chloride		16800	1000	10000	6694	101	90	110	0.141	20	

Sample ID:	**0903125-01B MS**	**Batch ID:**	**34012**		**TestNo:**		**E300**			**Units:**	**mg/L**
SampType:	**MS**	**Run ID:**	**IC_090324A**		**Analysis Date:**		**03/24/09 04:33 PM**			**Prep Date:**	**03/18/09**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Sulfate		4510	300	3000	1429	103	90	110			

Sample ID:	**0903125-01B MSD**	**Batch ID:**	**34012**		**TestNo:**		**E300**			**Units:**	**mg/L**
SampType:	**MSD**	**Run ID:**	**IC_090324A**		**Analysis Date:**		**03/24/09 04:49 PM**			**Prep Date:**	**03/18/09**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Sulfate		4520	300	3000	1429	103	90	110	0.0319	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903125
Project: Petronila Creek GW

ANALYTICAL QC SUMMARY REPORT

RunID: IC_090324A

Sample ID:	**ICV-090324**	**Batch ID:**	**R42480**		**TestNo:**		**E300**		**Units:**		**mg/L**
SampType:	**ICV**	**Run ID:**	**IC_090324A**		**Analysis Date:**		**03/24/09 09:04 AM**		**Prep Date:**		**03/24/09**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Chloride		26.1	1.00	25.00	0	104	90	110			
Sulfate		79.5	3.00	75.00	0	106	90	110			

Sample ID:	**CCV1-090324**	**Batch ID:**	**R42480**		**TestNo:**		**E300**		**Units:**		**mg/L**
SampType:	**CCV**	**Run ID:**	**IC_090324A**		**Analysis Date:**		**03/24/09 12:20 PM**		**Prep Date:**		**03/24/09**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Chloride		10.2	1.00	10.00	0	102	90	110			

Sample ID:	**CCV2-090324**	**Batch ID:**	**R42480**		**TestNo:**		**E300**		**Units:**		**mg/L**
SampType:	**CCV**	**Run ID:**	**IC_090324A**		**Analysis Date:**		**03/24/09 03:29 PM**		**Prep Date:**		**03/24/09**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Chloride		10.2	1.00	10.00	0	102	90	110			
Sulfate		30.9	3.00	30.00	0	103	90	110			

Sample ID:	**CCV3-090324**	**Batch ID:**	**R42480**		**TestNo:**		**E300**		**Units:**		**mg/L**
SampType:	**CCV**	**Run ID:**	**IC_090324A**		**Analysis Date:**		**03/24/09 06:23 PM**		**Prep Date:**		**03/24/09**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Chloride		10.2	1.00	10.00	0	102	90	110			
Sulfate		31.0	3.00	30.00	0	103	90	110			

Sample ID:	**CCV4-090324**	**Batch ID:**	**R42480**		**TestNo:**		**E300**		**Units:**		**mg/L**
SampType:	**CCV**	**Run ID:**	**IC_090324A**		**Analysis Date:**		**03/24/09 08:27 PM**		**Prep Date:**		**03/24/09**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Chloride		10.4	1.00	10.00	0	104	90	110			
Sulfate		30.9	3.00	30.00	0	103	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903125
Project: Petronila Creek GW

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_090318A

Sample ID:	**0903125-08B-DUP**	**Batch ID:**	**34014**		**TestNo:**	**M4500-H+ B**			**Units:**		**pH Units**
SampType:	**DUP**	**Run ID:**	**TITRATOR_090318A**		**Analysis Date:**	**03/18/09 11:01 AM**			**Prep Date:**		**03/18/09**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
pH		6.53	0	0	6.390				2.17	5	

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903125
Project: Petronila Creek GW

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_090318A

Sample ID:	**ICV-090318**	**Batch ID:**	**R42385**		**TestNo:**		**M4500-H+ B**		**Units:**		**pH Units**
SampType:	**ICV**	**Run ID:**	**TITRATOR_090318A**		**Analysis Date:**		**03/18/09 10:49 AM**		**Prep Date:**		**03/18/09**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
pH		9.98	0	10.00	0	99.8	99	101			

Sample ID:	**CCV-090318**	**Batch ID:**	**R42385**		**TestNo:**		**M4500-H+ B**		**Units:**		**pH Units**
SampType:	**CCV**	**Run ID:**	**TITRATOR_090318A**		**Analysis Date:**		**03/18/09 10:58 AM**		**Prep Date:**		**03/18/09**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
pH		7.02	0	7.000	0	100	97.1	102.9			

Sample ID:	**CCV1-090318**	**Batch ID:**	**R42385**		**TestNo:**		**M4500-H+ B**		**Units:**		**pH Units**
SampType:	**CCV**	**Run ID:**	**TITRATOR_090318A**		**Analysis Date:**		**03/18/09 11:02 AM**		**Prep Date:**		**03/18/09**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
pH		7.02	0	7.000	0	100	97.1	102.9			

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903125
Project: Petronila Creek GW

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_090323B

Sample ID:	**MB-34091**	**Batch ID:**	**34091**	**TestNo:**		**M2320 B**			**Units:**		**mg/L**
SampType:	**MBLK**	**Run ID:**	**TITRATOR_090323B**	**Analysis Date:**		**03/23/09 10:36 AM**			**Prep Date:**		**03/23/09**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Alkalinity, Bicarbonate (As CaCO3)		ND	20.0								
Alkalinity, Carbonate (As CaCO3)		ND	20.0								
Alkalinity, Hydroxide (As CaCO3)		ND	20.0								
Alkalinity, Total (As CaCO3)		ND	20.0								

Sample ID:	**LCS-34091**	**Batch ID:**	**34091**	**TestNo:**		**M2320 B**			**Units:**		**mg/L**
SampType:	**LCS**	**Run ID:**	**TITRATOR_090323B**	**Analysis Date:**		**03/23/09 10:40 AM**			**Prep Date:**		**03/23/09**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Alkalinity, Total (As CaCO3)		54.4	20.0	50.00	0	109	74	129			

Sample ID:	**0903125-01B DUP**	**Batch ID:**	**34091**	**TestNo:**		**M2320 B**			**Units:**		**mg/L**
SampType:	**DUP**	**Run ID:**	**TITRATOR_090323B**	**Analysis Date:**		**03/23/09 10:55 AM**			**Prep Date:**		**03/23/09**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Alkalinity, Bicarbonate (As CaCO3)		204	20.0	0	208.4				2.13	20	
Alkalinity, Carbonate (As CaCO3)		0	20.0	0	0				0	20	
Alkalinity, Hydroxide (As CaCO3)		0	20.0	0	0				0	20	
Alkalinity, Total (As CaCO3)		204	20.0	0	208.4				2.13	20	

Sample ID:	**0903142-10B DUP**	**Batch ID:**	**34091**	**TestNo:**		**M2320 B**			**Units:**		**mg/L**
SampType:	**DUP**	**Run ID:**	**TITRATOR_090323B**	**Analysis Date:**		**03/23/09 12:56 PM**			**Prep Date:**		**03/23/09**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Alkalinity, Bicarbonate (As CaCO3)		246	20.0	0	247.3				0.649	20	
Alkalinity, Carbonate (As CaCO3)		0	20.0	0	0				0	20	
Alkalinity, Hydroxide (As CaCO3)		0	20.0	0	0				0	20	
Alkalinity, Total (As CaCO3)		246	20.0	0	247.3				0.649	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903125
Project: Petronila Creek GW

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_090323B

Sample ID:	**ICV-090323**	**Batch ID:**	**R42457**		**TestNo:**		**M2320 B**		**Units:**		**mg/L**
SampType:	**ICV**	**Run ID:**	**TITRATOR_090323B**		**Analysis Date:**		**03/23/09 10:32 AM**		**Prep Date:**		**03/23/09**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Alkalinity, Bicarbonate (As CaCO3)		9.60	20.0	0							
Alkalinity, Carbonate (As CaCO3)		90.6	20.0	0							
Alkalinity, Hydroxide (As CaCO3)		0	20.0	0							
Alkalinity, Total (As CaCO3)		100	20.0	100.0	0	100	98	102			

Sample ID:	**CCV1-090323**	**Batch ID:**	**R42457**		**TestNo:**		**M2320 B**		**Units:**		**mg/L**
SampType:	**CCV**	**Run ID:**	**TITRATOR_090323B**		**Analysis Date:**		**03/23/09 11:25 AM**		**Prep Date:**		**03/23/09**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Alkalinity, Bicarbonate (As CaCO3)		14.0	20.0	0							
Alkalinity, Carbonate (As CaCO3)		89.1	20.0	0							
Alkalinity, Hydroxide (As CaCO3)		0	20.0	0							
Alkalinity, Total (As CaCO3)		103	20.0	100.0	0	103	90	110			

Sample ID:	**CCV2-090323**	**Batch ID:**	**R42457**		**TestNo:**		**M2320 B**		**Units:**		**mg/L**
SampType:	**CCV**	**Run ID:**	**TITRATOR_090323B**		**Analysis Date:**		**03/23/09 12:41 PM**		**Prep Date:**		**03/23/09**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Alkalinity, Bicarbonate (As CaCO3)		21.4	20.0	0							
Alkalinity, Carbonate (As CaCO3)		81.4	20.0	0							
Alkalinity, Hydroxide (As CaCO3)		0	20.0	0							
Alkalinity, Total (As CaCO3)		103	20.0	100.0	0	103	90	110			

Sample ID:	**CCV3-090323**	**Batch ID:**	**R42457**		**TestNo:**		**M2320 B**		**Units:**		**mg/L**
SampType:	**CCV**	**Run ID:**	**TITRATOR_090323B**		**Analysis Date:**		**03/23/09 01:16 PM**		**Prep Date:**		**03/23/09**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Alkalinity, Bicarbonate (As CaCO3)		16.5	20.0	0							
Alkalinity, Carbonate (As CaCO3)		86.1	20.0	0							
Alkalinity, Hydroxide (As CaCO3)		0	20.0	0							
Alkalinity, Total (As CaCO3)		103	20.0	100.0	0	103	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903125
Project: Petronila Creek GW

ANALYTICAL QC SUMMARY REPORT

RunID: WC_090319A

Sample ID:	**MB-34034**	**Batch ID:**	**34034**		**TestNo:**		**M2510 B**			**Units:**	**µmhos/cm**
SampType:	**MBLK**	**Run ID:**	**WC_090319A**		**Analysis Date:**		**03/19/09 10:00 AM**			**Prep Date:**	**03/19/09**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Specific Conductance		ND	10.0								

Sample ID:	**LCS-34034**	**Batch ID:**	**34034**		**TestNo:**		**M2510 B**			**Units:**	**µmhos/cm**
SampType:	**LCS**	**Run ID:**	**WC_090319A**		**Analysis Date:**		**03/19/09 10:00 AM**			**Prep Date:**	**03/19/09**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Specific Conductance		1370	10.0	1413	0	97.0	95	105			

Sample ID:	**0903125-08B-DUP**	**Batch ID:**	**34034**		**TestNo:**		**M2510 B**			**Units:**	**µmhos/cm**
SampType:	**DUP**	**Run ID:**	**WC_090319A**		**Analysis Date:**		**03/19/09 10:00 AM**			**Prep Date:**	**03/19/09**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Specific Conductance		53900	10.0	0	53750				0.279	2	

Sample ID:	**0903106-01B-DUP**	**Batch ID:**	**34034**		**TestNo:**		**M2510 B**			**Units:**	**µmhos/cm**
SampType:	**DUP**	**Run ID:**	**WC_090319A**		**Analysis Date:**		**03/19/09 10:00 AM**			**Prep Date:**	**03/19/09**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Specific Conductance		582	10.0	0	583.0				0.172	2	

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903125
Project: Petronila Creek GW

ANALYTICAL QC SUMMARY REPORT

RunID: WC_090319A

Sample ID:	**ICV-090319**	**Batch ID:**	**CONDW-03/19/09**	**TestNo:**		**M2510 B**			**Units:**		**µmhos/cm**
SampType:	**ICV**	**Run ID:**	**WC_090319A**	**Analysis Date:**		**03/19/09 10:00 AM**			**Prep Date:**		**03/19/09**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Specific Conductance		12900	10.0	12880	0	99.9	95	105			

Sample ID:	**CCV1-090319**	**Batch ID:**	**CONDW-03/19/09**	**TestNo:**		**M2510 B**			**Units:**		**µmhos/cm**
SampType:	**CCV**	**Run ID:**	**WC_090319A**	**Analysis Date:**		**03/19/09 10:00 AM**			**Prep Date:**		**03/19/09**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Specific Conductance		12900	10.0	12880	0	99.8	95	105			

Sample ID:	**CCV2-090319**	**Batch ID:**	**CONDW-03/19/09**	**TestNo:**		**M2510 B**			**Units:**		**µmhos/cm**
SampType:	**CCV**	**Run ID:**	**WC_090319A**	**Analysis Date:**		**03/19/09 10:00 AM**			**Prep Date:**		**03/19/09**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Specific Conductance		12600	10.0	12880	0	98.2	95	105			

Sample ID:	**CCV3-090319**	**Batch ID:**	**CONDW-03/19/09**	**TestNo:**		**M2510 B**			**Units:**		**µmhos/cm**
SampType:	**CCV**	**Run ID:**	**WC_090319A**	**Analysis Date:**		**03/19/09 10:00 AM**			**Prep Date:**		**03/19/09**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Specific Conductance		12700	10.0	12880	0	98.9	95	105			

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903125
Project: Petronila Creek GW

ANALYTICAL QC SUMMARY REPORT

RunID: WC_090323B

Sample ID:	**MB-34098**	**Batch ID:**	**34098**	**TestNo:**		**M2540C**			**Units:**		**mg/L**
SampType:	**MBLK**	**Run ID:**	**WC_090323B**	**Analysis Date:**		**03/23/09 01:00 PM**			**Prep Date:**		**03/23/09**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Total Dissolved Solids (Residue, Fi		10.0	10.0								

Sample ID:	**LCS-34098**	**Batch ID:**	**34098**	**TestNo:**		**M2540C**			**Units:**		**mg/L**
SampType:	**LCS**	**Run ID:**	**WC_090323B**	**Analysis Date:**		**03/23/09 01:00 PM**			**Prep Date:**		**03/23/09**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Total Dissolved Solids (Residue, Fi		788	10.0	745.6	0	106	90	113			

Sample ID:	**0903125-02B-DUP**	**Batch ID:**	**34098**	**TestNo:**		**M2540C**			**Units:**		**mg/L**
SampType:	**DUP**	**Run ID:**	**WC_090323B**	**Analysis Date:**		**03/23/09 01:00 PM**			**Prep Date:**		**03/23/09**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Total Dissolved Solids (Residue, Fi		28700	10.0	0	29700				3.56	5	

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903125
Project: Petronila Creek GW

ANALYTICAL QC SUMMARY REPORT

RunID: WC_090324A

Sample ID:	**MB-34109**	**Batch ID:**	**34109**		**TestNo:**	**M2540C**			**Units:**		**mg/L**
SampType:	**MBLK**	**Run ID:**	**WC_090324A**		**Analysis Date:**	**03/24/09 11:00 AM**			**Prep Date:**		**03/24/09**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Total Dissolved Solids (Residue, Fi		10.0	10.0								

Sample ID:	**LCS-34109**	**Batch ID:**	**34109**		**TestNo:**	**M2540C**			**Units:**		**mg/L**
SampType:	**LCS**	**Run ID:**	**WC_090324A**		**Analysis Date:**	**03/24/09 11:00 AM**			**Prep Date:**		**03/24/09**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Total Dissolved Solids (Residue, Fi		740	10.0	745.6	0	99.2	90	113			

Sample ID:	**0903125-07B-DUP**	**Batch ID:**	**34109**		**TestNo:**	**M2540C**			**Units:**		**mg/L**
SampType:	**DUP**	**Run ID:**	**WC_090324A**		**Analysis Date:**	**03/24/09 11:00 AM**			**Prep Date:**		**03/24/09**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Total Dissolved Solids (Residue, Fi		53700	10.0	0	53880				0.372	5	

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903125
Project: Petronila Creek GW

MQL SUMMARY REPORT

TestNo: E300	**MDL**	**MQL**
Analyte	**mg/L**	**mg/L**
Bromide	0.300	1.00
Nitrate-N	0.100	0.500

TestNo: M2320 B	**MDL**	**MQL**
Analyte	**mg/L**	**mg/L**
Alkalinity, Bicarbonate (As CaCO3)	10.0	20.0
Alkalinity, Carbonate (As CaCO3)	10.0	20.0
Alkalinity, Hydroxide (As CaCO3)	10.0	20.0
Alkalinity, Total (As CaCO3)	10.0	20.0

TestNo: SW6020	**MDL**	**MQL**
Analyte	**mg/L**	**mg/L**
Barium	0.00300	0.0100
Calcium	0.100	0.300
Iron	0.0500	0.150
Magnesium	0.100	0.300
Potassium	0.100	0.300
Sodium	0.100	0.300

TestNo: M2510 B	**MDL**	**MQL**
Analyte	**µmhos/cm**	**µmhos/cm**
Specific Conductance	10.0	10.0

TestNo: M2540C	**MDL**	**MQL**
Analyte	**mg/L**	**mg/L**
Total Dissolved Solids (Residue, Fi	10.0	10.0

Qualifiers:
MQL - Method Quantitation Limit as defined by TRRP
MDL - Method Detection Limit as defined by TRRP

March 27, 2009

James Harte
TRC Environmental Corp.
505 East Huntland Drive Suite 250
Austin, Texas 78752

TEL: (512) 329-6080
FAX: (512) 329-8750

Order No: 0903142

RE: RRC Petronila GW

Dear James Harte:

DHL Analytical received 15 sample(s) on 3/19/2009 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

John DuPont
Lab Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-08C-TX

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DHL ANALYTICAL

2300 Double Creek Drive • Round Rock, TX 78664
Phone (512) 388-8222 • FAX (512) 388-8229

№ 33509

CHAIN-OF-CUSTODY

CLIENT: TRC
ADDRESS: 505 E. Huntland Dr, Ste 250
PHONE: 512-329-6080 FAX 512-329-8750
DATA REPORTED TO: J. Harte
ADDITIONAL REPORT COPIES TO: S. Miller

DATE: 3/18/09 PAGE 1 OF 1
PO #: DHL WORK ORDER #: 0903142
PROJECT LOCATION OR NAME: RRC - Petronila - GW
CLIENT PROJECT #: 116420-04 COLLECTOR: RK/MT

Authorize 5% surcharge for TRRP report? ☐ Yes ☒ No

S=SOIL W=WATER A=AIR P=PAINT SL=SLUDGE OT=OTHER

PRESERVATION: HCl, HNO_3, H_2SO_4, NaOH ☐, ICE, UNPRESERVED

ANALYSES: BTEX ☐ MTBE ☐ | TRPH 418.1 ☐ | TPH 1005 ☐ TPH 1006 ☐ | GASOLINE MOD 8015 ☐ | DIESEL - MOD 8015 ☐ | VOC 8260 ☐ | SVOC 8270 ☐ | PAH 8270 ☐ HOLDPAH ☐ | 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ | 8082 PCBS ☐ | TCLP - METALS (RCRA) ☐ TCLP VOC ☐ | TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ | TOTAL METALS (RCRA) ☐ OTHER LIST ☐ | LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐ | RCI ☐ TOX ☐ FLASHPOINT ☐ | TDS ☒ TSS ☐ % MOISTURE ☐ CYANIDE ☐ | pH ☒ HEXAVALENT CHROMIUM ☐ ALKALINITY ☒ | EXPLOSIVES ☐ PECHLORATE ☐ | CHLORIDES ☒ ANIONS ☒ CATIONS | CONDUCTIVITY

Field Sample I.D.	DHL Lab #	Date	Time	Matrix	Container Type	# of Containers	HCl	HNO_3	H_2SO_4	NaOH	ICE	UNPRESERVED	FIELD NOTES
P-MW-01	01	3/18/09	1040	W	250/500mL	2		X			X		ANIONS:
P-MW-02	02		1105	W		2		X			X		Cl, Br, Sulfate, Nitrate
P-D3-MW-27	03		1130	W		2		X			X		CATIONS:
P-D3-MW-27-D	04		1130	W		2		X			X		Ca, Na, Mg, K, Fe, Ba
P-MW-03	05		1245	W		2		X			X		Alkalinity:
P-MW-22	06		1345	W		2		X			X		Carbonate & Bicarbonate
P-MW-15	07		1500	W		2		X			X		
P-MW-14	08		1510	W		2		X			X		
P-MW-13	09		1535	W		2		X			X		
P-MW-16	10	↓	1620	W	↓	6		X			X		MS/MSD
													* In accordance w/ TRC-RRC Petronila QAPP *
TOTAL													

RELINQUISHED BY: (Signature) — DATE/TIME 1715 3/18/09 — RECEIVED BY: (Signature) FedEx
RELINQUISHED BY: (Signature) FedEx — DATE/TIME 3/19/09 0830 — RECEIVED BY: (Signature) [illegible]
RELINQUISHED BY: (Signature) — DATE/TIME — RECEIVED BY: (Signature)

☐ DHL DISPOSAL @ $5.00 each ☐ Return

TURN AROUND TIME
RUSH ☐ CALL FIRST
1 DAY ☐ CALL FIRST
2 DAY ☐
NORMAL ☒
OTHER ☐ ____

LABORATORY USE ONLY:
RECEIVING TEMP: 2.5°C / 2.8 THERM #: 57
CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED
☒ CARRIER BILL # FedEx
☐ APC DELIVERY
☐ HAND DELIVERED

DHL ANALYTICAL

2300 Double Creek Drive • Round Rock, TX 78664
Phone (512) 388-8222 • FAX (512) 388-8229

№ 31307

CHAIN-OF-CUSTODY

CLIENT: TRC
ADDRESS: 505 E. Huntland Dr Ste 250
PHONE: 512-329-6080 FAX 512-329-8750
DATA REPORTED TO: J. HARTE
ADDITIONAL REPORT COPIES TO: S. MILLER

DATE: 3/18/09 PAGE 1 OF 1
PO #: DHL WORK ORDER #:
PROJECT LOCATION OR NAME: RRC-Petronila-GW
CLIENT PROJECT #: 166420-04 COLLECTOR: BCC/GJ

Authorize 5% surcharge for TRRP report? ☐ Yes ☑ No

S=SOIL W=WATER A=AIR P=PAINT SL=SLUDGE OT=OTHER

PRESERVATION: HCl | HNO_3 | H_2SO_4 ☐ NaOH ☐ | ICE | UNPRESERVED

ANALYSES: BTEX ☐ MTBE ☐ | TRPH 418.1 ☐ | TPH 1005 ☐ TPH 1006 ☐ | GASOLINE MOD 8015 ☐ | DIESEL - MOD 8015 ☐ | VOC 8260 ☐ | SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ | 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ | 8082 PCBS ☐ | TCLP - METALS (RCRA) ☐ TCLP VOC ☐ | TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ | TOTAL METALS (RCRA) ☐ OTHER LIST ☐ | LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐ | RCI ☐ TOX ☐ FLASHPOINT ☐ | TDS X TSS ☐ % MOISTURE ☐ CYANIDE ☐ | pH X HEXAVALENT CHROMIUM ☐ | EXPLOSIVES ☐ PECHLORATE ☐ | CHLORIDE X ANIONS X ALKALINITY X | CATIONS X CONDUCTIVITY

Field Sample I.D.	DHL Lab #	Date	Time	Matrix	Container Type	# of Containers	HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESERVED	FIELD NOTES
P-D2-MW-12	11	3/18/09	1035	GW	250,500mL	2		X		X	X	ANIONS:
P-MW-12	12	↓	1225	GW	↓	2		X		X	X	Cl, Br, Sulfate, Nitrate
P-MW-20	13		1335	GW		2		X		X	X	
P-MW-21	14		1415	GW		2		X		X	X	CATIONS:
P-MW-18	15	↓	1615	GW	↓	2		X		X	X	Ca, Na, Mg, K, Fe, Ba
												ALKALINITY:
												Carbonate + bicarbonate
												* IN ACCORDANCE w/ TRC-RRC PETRONILA QAPP *

TOTAL

RELINQUISHED BY: (Signature) DATE/TIME 1715 3/18/09 RECEIVED BY: (Signature) FedEx
RELINQUISHED BY: (Signature) FedEx DATE/TIME 3/19/09 0830 RECEIVED BY: (Signature) Rhonda Neck
RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature)

☐ DHL DISPOSAL @ $5.00 each ☐ Return

TURN AROUND TIME
RUSH ☐ CALL FIRST
1 DAY ☐ CALL FIRST
2 DAY ☐
NORMAL ☑
OTHER ☐ ____

LABORATORY USE ONLY:
RECEIVING TEMP: 2.8°C / 2.5 THERM #: 57
CUSTODY SEALS - ☐ BROKEN X INTACT ☐ NOT USED
X CARRIER BILL # FedEx
☐ APC DELIVERY
☐ HAND DELIVERED

FedEx Express US Airbill

FedEx Tracking Number 8686 4644 9693

0200 Recipient's Copy

1 From
Date 3/18/09
Sender's Name BARRETT CLARK Phone 512 329-6080
Company TRC
Address 505 E. HUNTLAND DR. 250 Dept./Floor/Suite/Room
City AUSTIN State TX ZIP 78752

2 Your Internal Billing Reference 166420-04

3 To
Recipient's Name Receiving Phone 512 388-8222
Company DHL Analytical
Recipient's Address 2300 Double Creek Dr. Dept./Floor/Suite/Room
We cannot deliver to P.O. boxes or P.O. ZIP codes.
Address
To request a package be held at a specific FedEx location, print FedEx address here.
City Round Rock State TX ZIP 78664

8686 4644 9693

4a Express Package Service — Packages up to 150 lbs.
- [x] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.
- [ ] FedEx 2Day — Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

FedEx Envelope rate not available. Minimum charge: One-pound rate. * To most locations.

4b Express Freight Service — Packages over 150 lbs.
- [ ] FedEx 1Day Freight* — Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 2Day Freight — Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available.

* Call for Confirmation: ** To most locations.

5 Packaging
- [ ] FedEx Envelope*
- [ ] FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak.
- [ ] FedEx Box
- [ ] FedEx Tube
- [x] Other

* Declared value limit $500.

6 Special Handling — Include FedEx address in Section 3.
- [ ] SATURDAY Delivery — Not available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.
- [ ] HOLD Weekday at FedEx Location — Not available for FedEx First Overnight.
- [ ] HOLD Saturday at FedEx Location — Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Does this shipment contain dangerous goods? One box must be checked.
- [x] No
- [ ] Yes — As per attached Shipper's Declaration.
- [ ] Yes — Shipper's Declaration not required.
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg
- [ ] Cargo Aircraft Only

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging.

7 Payment Bill to: Enter FedEx Acct. No. or Credit Card No. below. Obtain Recip. Acct. No.
- [x] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

Total Packages 1 Total Weight 2 Total Declared Value† $ .00 Credit Card Auth.

†Our liability is limited to $100 unless you declare a higher value. See back for details.

8 Residential Delivery Signature Options — If you require a signature, check Direct or Indirect.
- [ ] No Signature Required — Package may be left without obtaining a signature for delivery.
- [ ] Direct Signature — Someone at recipient's address may sign for delivery. Fee applies.
- [ ] Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. Fee applies.

520

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fedex.com 1.800.GoFedEx 1.800.463.3339

CUSTODY SEAL
DATE: 3/18/09
SIGNATURE: [signature]

QEC
Quality Environmental Containers
800-255-3950 • 304-255-3900

FedEx. US Airbill
Express

8686 4644 9693 0200

FedEx Copy

1 From

Date 3/18/09 Sender's FedEx Account Number 1402 46697

Sender's Name BARRETT CLARK Phone 512 329-6080

Company TRC

Address 505 E Huntland Dr 250

City Austin State TX ZIP 78752

2 Your Internal Billing Reference 166420-04

3 To

Recipient's Name Receiving Phone 512 380-8222

Company DHL Analytical

Recipient's Address 2300 Double Creek Dr.

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept/Floor/Suite/Room

Address

To request a package be held at a specific FedEx location, print FedEx address here.

City Round Rock State TX ZIP 78664

8686 4644 9693

4a Express Package Service — Packages up to 150 lbs.

1 ☒ FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

5 ☐ FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

6 ☐ FedEx First Overnight — Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.

3 ☐ FedEx 2Day — Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

20 ☐ FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

FedEx Envelope rate not available. Minimum charge: One-pound rate.

* To most locations.

4b Express Freight Service — Packages over 150 lbs.

7 ☐ FedEx 1Day Freight* — Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

8 ☐ FedEx 2Day Freight — Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

33 ☐ FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available.

* Call for Confirmation: ** To most locations.

5 Packaging

6 ☐ FedEx Envelope* 2 ☐ FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak. 3 ☐ FedEx Box 4 ☐ FedEx Tube 1 ☒ Other

* Declared value limit $500.

6 Special Handling — Include FedEx address in Section 3.

3 ☐ SATURDAY DELIVERY

1 ☐ HOLD Weekday at FedEx Location — Not available for FedEx First Overnight.

31 ☐ HOLD Saturday at FedEx Location — Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Does this shipment contain dangerous goods? One box must be checked.

5 ☒ No 4 ☐ Yes — As per attached Shipper's Declaration. ☐ Yes — Shipper's Declaration not required. 6 ☐ Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging. ☐ Cargo Aircraft Only

7 Payment Bill to: Enter FedEx Acct. No. or Credit Card No. below. Obtain Recip. Acct. No. ☐

1 ☐ Sender — Acct. No. in Section 1 will be billed. 2 ☐ Recipient 3 ☐ Third Party 4 ☐ Credit Card 5 ☐ Cash/Check

FedEx Acct. No. / Credit Card No. Exp. Date

Total Packages: 2 Total Weight: 9 1/2 Total Declared Value†: $ .00

†Our liability is limited to $100 unless you declare a higher value. See the current FedEx Service Guide for details. Credit Card Auth.

8 Residential Delivery Signature Options If you require a signature, check Direct or Indirect.

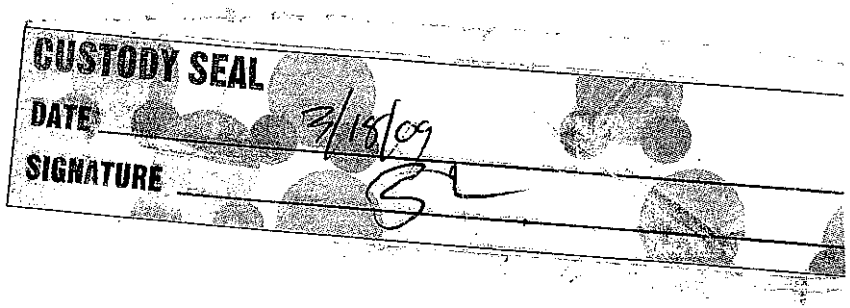
☐ No Signature Required — Package may be left without obtaining a signature for delivery.

10 ☐ Direct Signature — Someone at recipient's address may sign for delivery. Fee applies.

34 ☐ Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. Fee applies.

520

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Quality Environmental Containers
800-255-3950 • 304-255-3900

Laboratory Data Package Signature Page

This data package consists of:

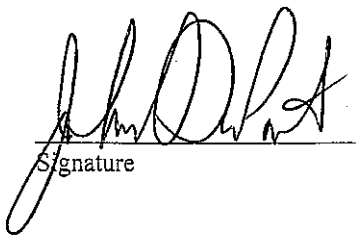
This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC 5.13
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix;
- R10 Other problems or anomalies.

The Exception Report for every "No" or "Not Reviewed (NR)" item in laboratory review checklist.

Release Statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By me signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

Scott Schroeder – Project Manager
John DuPont – General / QA Manager



Signature

03/27/09
Date

DHL Analytical, Inc.

Laboratory Review Checklist: Reportable Data

Project Name: RRC Petronila GW	Date: 3/27/09
Reviewer Name: Carlos Castro	Laboratory Work Order: 0903142
Prep Batch Number(s): See Prep Dates Report	Run Batch: See Analytical Dates Report

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-Custody (C-O-C)					
R1	OI	1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				R1-01
		2) Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and Quality Control (QC) Identification**					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test Reports**					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample quantitation limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?			X		
		7) Were % moisture (or solids) reported for all soil and sediment samples?			X		
		8) If required for the project, TICs reported?			X		
R4	O	**Surrogate Recovery Data**					
		1) Were surrogates added prior to extraction?			X		
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test Reports/Summary Forms for Blank Samples**					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Where method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations < MQL?		X			R5-04
R6	OI	**Laboratory Control Samples (LCS):**					
		1) Were all COCs included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs?	X				
		6) Was the LCSD RPD within QC limits (if applicable)?	X				
R7	OI	**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data**					
		1) Were the project/method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			R7-03
		4) Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical Duplicate Data**					
		1) Were appropriate analytical duplicates analyzed for each matrix?	X				
		2) Were analytical duplicates analyzed at the appropriate frequency?	X				
		3) Were RPDs or relative standard deviations within the laboratory QC limits?		X			R8-03
R9	OI	**Method Quantitation Limits (MQLs):**					
		1) Are the MQLs for each method analyte included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs included in the laboratory data package?	X				
R10	OI	**Other Problems/Anomalies**					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				R10-01
		2) Were all necessary corrective actions performed for the reported data?	X				
		3) Was applicable and available technology used to lower the SQL minimize the matrix interference affects on the sample results?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

DHL Analytical, Inc.

Laboratory Review Checklist (continued): Supporting Data

Project Name: RRC Petronila GW	Date: 3/27/09
Reviewer Name: Carlos Castro	Laboratory Work Order: 0903142

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial Calibration (ICAL)**					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB):**					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass Spectral Tuning:**					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal Standards (IS):**					
		1) Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**Raw Data (NELAC section 1 appendix A glossary, and section 5.12)**					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual Column Confirmation**					
		1) Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively Identified Compounds (TICs):**					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) Results:**					
		1) Were percent recoveries within method QC limits?	X				
S9	I	**Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions**					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?		X			S9-01
S10	OI	**Method Detection Limit (MDL) Studies**					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency Test Reports:**					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards Documentation**					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/Analyte Identification Procedures**					
		1) Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of Analyst Competency (DOC)**					
		1) Was DOC conducted consistent with NELAC Chapter 5C?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/Validation Documentation for Methods** (NELAC Chap 5)					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory Standard Operating Procedures (SOPs):**					
		1) Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

DHL Analytical

Sample Receipt Checklist

Client Name TRC Environmental Corp. Date Received: 3/19/2009

Work Order Number 0903142 Received by AK

Checklist completed by: [signature] 3/19/09 (Signature / Date) Reviewed by: DL 3/19/09 (Initials / Date)

Carrier name: fed

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	2.8 °C
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	Not Applicable ☐

Adjusted? NO Checked by QB

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Page 1 of 1

CLIENT: TRC Environmental Corp.
Project: RRC Petronila GW
Lab Order: 0903142

CASE NARRATIVE

The samples were analyzed using the methods outlined in the following references:

Method SW6020 - Metals Analysis
Method E300 - Anions Analysis
Method M2320 B (18th Edition) - Alkalinity Analysis
Method M2510 B (18th Edition) - Specific Conductance
Method M2540C (18th Edition) - TDS Analysis
Method M4500-H+ B (18th Edition) - pH of a Water

Exception Report R1-01

Samples were received and log-in performed on 3/19/09 . A total of 15 samples were received. The samples arrived in good condition and were properly packaged.

Exception Report R5-04

For TDS analysis performed on 3/24/09 TDS was detected at the reporting limit in the method blank (MB-34109). All samples were detected greater than 10 times the amount in the blank. No further corrective actions were taken.

Exception Report R7-03

For Metals analysis performed on 3/25/09 the matrix spike and matrix spike duplicate recoveries were out of control limits for a few analytes. These are flagged accordingly in the QC summary report. The reference sample selected for the matrix spike and matrix spike duplicate was from this work order. The LCS was within control limits for these analytes. No further corrective actions were taken.

Exception Report R8-03

For pH of a Water analysis performed on 3/19/09 the sample and sample duplicate had the RPD slightly above control limits. This is flagged accordingly in the QC summary report. No further corrective actions were taken.

Exception Report R10-01

For Anions analysis most samples were diluted prior to analysis due to the the nature of the samples (chloride concentration).

Exception Report S9-01

For Metals analysis performed on 3/25/09 the RPD for the serial dilution was slightly above control limits for Iron. This is flagged accordingly in the QC summary report. The PDS was within control limits for this analyte. No further corrective actions were taken.

CLIENT: TRC Environmental Corp.
Project: RRC Petronila GW
Lab Order: 0903142

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recv'd
0903142-01	P-MW-01		03/18/09 10:40 AM	03/19/09
0903142-02	P-MW-02		03/18/09 11:05 AM	03/19/09
0903142-03	P-D3-MW-27		03/18/09 11:30 AM	03/19/09
0903142-04	P-D3-MW-27-D		03/18/09 11:30 AM	03/19/09
0903142-05	P-MW-03		03/18/09 12:45 PM	03/19/09
0903142-06	P-MW-22		03/18/09 01:45 PM	03/19/09
0903142-07	P-MW-15		03/18/09 03:00 PM	03/19/09
0903142-08	P-MW-14		03/18/09 03:10 PM	03/19/09
0903142-09	P-MW-13		03/18/09 03:35 PM	03/19/09
0903142-10	P-MW-16		03/18/09 04:20 PM	03/19/09
0903142-11	P-D2-MW-12		03/18/09 10:35 AM	03/19/09
0903142-12	P-MW-12		03/18/09 12:25 PM	03/19/09
0903142-13	P-MW-20		03/18/09 01:25 PM	03/19/09
0903142-14	P-MW-21		03/18/09 02:15 PM	03/19/09
0903142-15	P-MW-18		03/18/09 04:15 PM	03/19/09

CLIENT: TRC Environmental Corp.
Project: RRC Petronila GW
Lab Order: 0903142

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
0903142-01A	P-MW-01	03/18/09 10:40 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/19/09 10:50 AM	34031
	P-MW-01	03/18/09 10:40 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/19/09 10:50 AM	34031
	P-MW-01	03/18/09 10:40 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/19/09 10:50 AM	34031
0903142-01B	P-MW-01	03/18/09 10:40 AM	Aqueous	E300	Anion Preparation	03/19/09 09:06 AM	34023
	P-MW-01	03/18/09 10:40 AM	Aqueous	E300	Anion Preparation	03/19/09 09:06 AM	34023
	P-MW-01	03/18/09 10:40 AM	Aqueous	E300	Anion Preparation	03/19/09 09:06 AM	34023
	P-MW-01	03/18/09 10:40 AM	Aqueous	M2320 B	Alkalinity Preparation	03/23/09 09:45 AM	34091
	P-MW-01	03/18/09 10:40 AM	Aqueous	M4500-H+ B	pH Preparation	03/19/09 01:53 PM	34047
	P-MW-01	03/18/09 10:40 AM	Aqueous	M2510 B	Conductivity Preparation	03/25/09 10:00 AM	34125
	P-MW-01	03/18/09 10:40 AM	Aqueous	M2540C	TDS Preparation	03/24/09 10:00 AM	34109
0903142-02A	P-MW-02	03/18/09 11:05 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/19/09 10:50 AM	34031
	P-MW-02	03/18/09 11:05 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/19/09 10:50 AM	34031
	P-MW-02	03/18/09 11:05 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/19/09 10:50 AM	34031
0903142-02B	P-MW-02	03/18/09 11:05 AM	Aqueous	E300	Anion Preparation	03/19/09 09:06 AM	34023
	P-MW-02	03/18/09 11:05 AM	Aqueous	E300	Anion Preparation	03/19/09 09:06 AM	34023
	P-MW-02	03/18/09 11:05 AM	Aqueous	E300	Anion Preparation	03/19/09 09:06 AM	34023
	P-MW-02	03/18/09 11:05 AM	Aqueous	M2320 B	Alkalinity Preparation	03/23/09 09:45 AM	34091
	P-MW-02	03/18/09 11:05 AM	Aqueous	M4500-H+ B	pH Preparation	03/19/09 01:53 PM	34047
	P-MW-02	03/18/09 11:05 AM	Aqueous	M2510 B	Conductivity Preparation	03/25/09 10:00 AM	34125
	P-MW-02	03/18/09 11:05 AM	Aqueous	M2540C	TDS Preparation	03/24/09 10:00 AM	34109
0903142-03A	P-D3-MW-27	03/18/09 11:30 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/19/09 10:50 AM	34031
	P-D3-MW-27	03/18/09 11:30 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/19/09 10:50 AM	34031
	P-D3-MW-27	03/18/09 11:30 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/19/09 10:50 AM	34031
	P-D3-MW-27	03/18/09 11:30 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/19/09 10:50 AM	34031
	P-D3-MW-27	03/18/09 11:30 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/19/09 10:50 AM	34031
0903142-03B	P-D3-MW-27	03/18/09 11:30 AM	Aqueous	E300	Anion Preparation	03/19/09 09:06 AM	34023
	P-D3-MW-27	03/18/09 11:30 AM	Aqueous	E300	Anion Preparation	03/19/09 09:06 AM	34023
	P-D3-MW-27	03/18/09 11:30 AM	Aqueous	E300	Anion Preparation	03/19/09 09:06 AM	34023
	P-D3-MW-27	03/18/09 11:30 AM	Aqueous	M2320 B	Alkalinity Preparation	03/23/09 09:45 AM	34091

CLIENT: TRC Environmental Corp.
Project: RRC Petronila GW
Lab Order: 0903142

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
	P-D3-MW-27	03/18/09 11:30 AM	Aqueous	M4500-H+ B	pH Preparation	03/19/09 01:53 PM	34047
	P-D3-MW-27	03/18/09 11:30 AM	Aqueous	M2510 B	Conductivity Preparation	03/25/09 10:00 AM	34125
	P-D3-MW-27	03/18/09 11:30 AM	Aqueous	M2540C	TDS Preparation	03/24/09 10:00 AM	34109
0903142-04A	P-D3-MW-27-D	03/18/09 11:30 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/19/09 10:50 AM	34031
	P-D3-MW-27-D	03/18/09 11:30 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/19/09 10:50 AM	34031
	P-D3-MW-27-D	03/18/09 11:30 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/19/09 10:50 AM	34031
	P-D3-MW-27-D	03/18/09 11:30 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/19/09 10:50 AM	34031
	P-D3-MW-27-D	03/18/09 11:30 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/19/09 10:50 AM	34031
0903142-04B	P-D3-MW-27-D	03/18/09 11:30 AM	Aqueous	E300	Anion Preparation	03/19/09 09:06 AM	34023
	P-D3-MW-27-D	03/18/09 11:30 AM	Aqueous	E300	Anion Preparation	03/19/09 09:06 AM	34023
	P-D3-MW-27-D	03/18/09 11:30 AM	Aqueous	E300	Anion Preparation	03/19/09 09:06 AM	34023
	P-D3-MW-27-D	03/18/09 11:30 AM	Aqueous	E300	Anion Preparation	03/19/09 09:06 AM	34023
	P-D3-MW-27-D	03/18/09 11:30 AM	Aqueous	M2320 B	Alkalinity Preparation	03/23/09 09:45 AM	34091
	P-D3-MW-27-D	03/18/09 11:30 AM	Aqueous	M4500-H+ B	pH Preparation	03/19/09 01:53 PM	34047
	P-D3-MW-27-D	03/18/09 11:30 AM	Aqueous	M2510 B	Conductivity Preparation	03/25/09 10:00 AM	34125
	P-D3-MW-27-D	03/18/09 11:30 AM	Aqueous	M2540C	TDS Preparation	03/24/09 10:00 AM	34109
0903142-05A	P-MW-03	03/18/09 12:45 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/19/09 10:50 AM	34031
	P-MW-03	03/18/09 12:45 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/19/09 10:50 AM	34031
	P-MW-03	03/18/09 12:45 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/19/09 10:50 AM	34031
	P-MW-03	03/18/09 12:45 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/19/09 10:50 AM	34031
0903142-05B	P-MW-03	03/18/09 12:45 PM	Aqueous	E300	Anion Preparation	03/19/09 09:06 AM	34023
	P-MW-03	03/18/09 12:45 PM	Aqueous	E300	Anion Preparation	03/19/09 09:06 AM	34023
	P-MW-03	03/18/09 12:45 PM	Aqueous	E300	Anion Preparation	03/19/09 09:06 AM	34023
	P-MW-03	03/18/09 12:45 PM	Aqueous	M2320 B	Alkalinity Preparation	03/23/09 09:45 AM	34091
	P-MW-03	03/18/09 12:45 PM	Aqueous	M4500-H+ B	pH Preparation	03/19/09 01:53 PM	34047
	P-MW-03	03/18/09 12:45 PM	Aqueous	M2510 B	Conductivity Preparation	03/25/09 10:00 AM	34125
	P-MW-03	03/18/09 12:45 PM	Aqueous	M2540C	TDS Preparation	03/25/09 10:00 AM	34138
0903142-06A	P-MW-22	03/18/09 01:45 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/19/09 10:50 AM	34031
	P-MW-22	03/18/09 01:45 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/19/09 10:50 AM	34031

CLIENT: TRC Environmental Corp.
Project: RRC Petronila GW
Lab Order: 0903142

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
	P-MW-22	03/18/09 01:45 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/19/09 10:50 AM	34031
0903142-06B	P-MW-22	03/18/09 01:45 PM	Aqueous	E300	Anion Preparation	03/19/09 09:06 AM	34023
	P-MW-22	03/18/09 01:45 PM	Aqueous	E300	Anion Preparation	03/19/09 09:06 AM	34023
	P-MW-22	03/18/09 01:45 PM	Aqueous	E300	Anion Preparation	03/19/09 09:06 AM	34023
	P-MW-22	03/18/09 01:45 PM	Aqueous	E300	Anion Preparation	03/19/09 09:06 AM	34023
	P-MW-22	03/18/09 01:45 PM	Aqueous	M2320 B	Alkalinity Preparation	03/23/09 09:45 AM	34091
	P-MW-22	03/18/09 01:45 PM	Aqueous	M4500-H+ B	pH Preparation	03/19/09 01:53 PM	34047
	P-MW-22	03/18/09 01:45 PM	Aqueous	M2510 B	Conductivity Preparation	03/25/09 10:00 AM	34125
	P-MW-22	03/18/09 01:45 PM	Aqueous	M2540C	TDS Preparation	03/25/09 10:00 AM	34138
0903142-07A	P-MW-15	03/18/09 03:00 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/19/09 10:50 AM	34031
	P-MW-15	03/18/09 03:00 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/19/09 10:50 AM	34031
	P-MW-15	03/18/09 03:00 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/19/09 10:50 AM	34031
	P-MW-15	03/18/09 03:00 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/19/09 10:50 AM	34031
0903142-07B	P-MW-15	03/18/09 03:00 PM	Aqueous	E300	Anion Preparation	03/19/09 09:06 AM	34023
	P-MW-15	03/18/09 03:00 PM	Aqueous	E300	Anion Preparation	03/19/09 09:06 AM	34023
	P-MW-15	03/18/09 03:00 PM	Aqueous	E300	Anion Preparation	03/19/09 09:06 AM	34023
	P-MW-15	03/18/09 03:00 PM	Aqueous	E300	Anion Preparation	03/19/09 09:06 AM	34023
	P-MW-15	03/18/09 03:00 PM	Aqueous	M2320 B	Alkalinity Preparation	03/23/09 09:45 AM	34091
	P-MW-15	03/18/09 03:00 PM	Aqueous	M4500-H+ B	pH Preparation	03/19/09 01:53 PM	34047
	P-MW-15	03/18/09 03:00 PM	Aqueous	M2510 B	Conductivity Preparation	03/25/09 10:00 AM	34125
	P-MW-15	03/18/09 03:00 PM	Aqueous	M2540C	TDS Preparation	03/25/09 10:00 AM	34138
0903142-08A	P-MW-14	03/18/09 03:10 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/19/09 10:50 AM	34031
	P-MW-14	03/18/09 03:10 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/19/09 10:50 AM	34031
	P-MW-14	03/18/09 03:10 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/19/09 10:50 AM	34031
	P-MW-14	03/18/09 03:10 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/19/09 10:50 AM	34031
0903142-08B	P-MW-14	03/18/09 03:10 PM	Aqueous	E300	Anion Preparation	03/19/09 09:06 AM	34023
	P-MW-14	03/18/09 03:10 PM	Aqueous	E300	Anion Preparation	03/19/09 09:06 AM	34023
	P-MW-14	03/18/09 03:10 PM	Aqueous	E300	Anion Preparation	03/19/09 09:06 AM	34023
	P-MW-14	03/18/09 03:10 PM	Aqueous	M2320 B	Alkalinity Preparation	03/23/09 09:45 AM	34091

CLIENT: TRC Environmental Corp.
Project: RRC Petronila GW
Lab Order: 0903142

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
	P-MW-14	03/18/09 03:10 PM	Aqueous	M4500-H+ B	pH Preparation	03/19/09 01:53 PM	34047
	P-MW-14	03/18/09 03:10 PM	Aqueous	M2510 B	Conductivity Preparation	03/25/09 10:00 AM	34125
	P-MW-14	03/18/09 03:10 PM	Aqueous	M2540C	TDS Preparation	03/25/09 10:00 AM	34138
0903142-09A	P-MW-13	03/18/09 03:35 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/19/09 10:50 AM	34031
	P-MW-13	03/18/09 03:35 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/19/09 10:50 AM	34031
	P-MW-13	03/18/09 03:35 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/19/09 10:50 AM	34031
0903142-09B	P-MW-13	03/18/09 03:35 PM	Aqueous	E300	Anion Preparation	03/19/09 09:06 AM	34023
	P-MW-13	03/18/09 03:35 PM	Aqueous	E300	Anion Preparation	03/19/09 09:06 AM	34023
	P-MW-13	03/18/09 03:35 PM	Aqueous	E300	Anion Preparation	03/19/09 09:06 AM	34023
	P-MW-13	03/18/09 03:35 PM	Aqueous	M2320 B	Alkalinity Preparation	03/23/09 09:45 AM	34091
	P-MW-13	03/18/09 03:35 PM	Aqueous	M4500-H+ B	pH Preparation	03/19/09 01:53 PM	34047
	P-MW-13	03/18/09 03:35 PM	Aqueous	M2510 B	Conductivity Preparation	03/25/09 10:00 AM	34125
	P-MW-13	03/18/09 03:35 PM	Aqueous	M2540C	TDS Preparation	03/25/09 10:00 AM	34138
0903142-10A	P-MW-16	03/18/09 04:20 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/19/09 10:50 AM	34031
	P-MW-16	03/18/09 04:20 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/19/09 10:50 AM	34031
	P-MW-16	03/18/09 04:20 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/19/09 10:50 AM	34031
0903142-10B	P-MW-16	03/18/09 04:20 PM	Aqueous	E300	Anion Preparation	03/19/09 09:06 AM	34023
	P-MW-16	03/18/09 04:20 PM	Aqueous	E300	Anion Preparation	03/19/09 09:06 AM	34023
	P-MW-16	03/18/09 04:20 PM	Aqueous	E300	Anion Preparation	03/19/09 09:06 AM	34023
	P-MW-16	03/18/09 04:20 PM	Aqueous	M2320 B	Alkalinity Preparation	03/23/09 09:45 AM	34091
	P-MW-16	03/18/09 04:20 PM	Aqueous	M4500-H+ B	pH Preparation	03/19/09 01:53 PM	34047
	P-MW-16	03/18/09 04:20 PM	Aqueous	M2510 B	Conductivity Preparation	03/25/09 10:00 AM	34125
	P-MW-16	03/18/09 04:20 PM	Aqueous	M2540C	TDS Preparation	03/25/09 10:00 AM	34138
0903142-11A	P-D2-MW-12	03/18/09 10:35 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/19/09 10:50 AM	34031
	P-D2-MW-12	03/18/09 10:35 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/19/09 10:50 AM	34031
	P-D2-MW-12	03/18/09 10:35 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/19/09 10:50 AM	34031
0903142-11B	P-D2-MW-12	03/18/09 10:35 AM	Aqueous	E300	Anion Preparation	03/19/09 09:06 AM	34023
	P-D2-MW-12	03/18/09 10:35 AM	Aqueous	E300	Anion Preparation	03/19/09 09:06 AM	34023
	P-D2-MW-12	03/18/09 10:35 AM	Aqueous	E300	Anion Preparation	03/19/09 09:06 AM	34023

CLIENT: TRC Environmental Corp.
Project: RRC Petronila GW
Lab Order: 0903142

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
	P-D2-MW-12	03/18/09 10:35 AM	Aqueous	M2320 B	Alkalinity Preparation	03/23/09 09:45 AM	34091
	P-D2-MW-12	03/18/09 10:35 AM	Aqueous	M4500-H+ B	pH Preparation	03/19/09 01:53 PM	34047
	P-D2-MW-12	03/18/09 10:35 AM	Aqueous	M2510 B	Conductivity Preparation	03/25/09 10:00 AM	34125
	P-D2-MW-12	03/18/09 10:35 AM	Aqueous	M2540C	TDS Preparation	03/25/09 10:00 AM	34138
0903142-12A	P-MW-12	03/18/09 12:25 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/19/09 10:50 AM	34031
	P-MW-12	03/18/09 12:25 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/19/09 10:50 AM	34031
	P-MW-12	03/18/09 12:25 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/19/09 10:50 AM	34031
0903142-12B	P-MW-12	03/18/09 12:25 PM	Aqueous	E300	Anion Preparation	03/19/09 09:06 AM	34023
	P-MW-12	03/18/09 12:25 PM	Aqueous	E300	Anion Preparation	03/19/09 09:06 AM	34023
	P-MW-12	03/18/09 12:25 PM	Aqueous	E300	Anion Preparation	03/19/09 09:06 AM	34023
	P-MW-12	03/18/09 12:25 PM	Aqueous	M2320 B	Alkalinity Preparation	03/23/09 09:45 AM	34091
	P-MW-12	03/18/09 12:25 PM	Aqueous	M4500-H+ B	pH Preparation	03/19/09 01:53 PM	34047
	P-MW-12	03/18/09 12:25 PM	Aqueous	M2510 B	Conductivity Preparation	03/25/09 10:00 AM	34125
	P-MW-12	03/18/09 12:25 PM	Aqueous	M2540C	TDS Preparation	03/25/09 10:00 AM	34138
0903142-13A	P-MW-20	03/18/09 01:25 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/19/09 10:50 AM	34031
	P-MW-20	03/18/09 01:25 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/19/09 10:50 AM	34031
	P-MW-20	03/18/09 01:25 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/19/09 10:50 AM	34031
	P-MW-20	03/18/09 01:25 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/19/09 10:50 AM	34031
0903142-13B	P-MW-20	03/18/09 01:25 PM	Aqueous	E300	Anion Preparation	03/19/09 09:06 AM	34023
	P-MW-20	03/18/09 01:25 PM	Aqueous	E300	Anion Preparation	03/19/09 09:06 AM	34023
	P-MW-20	03/18/09 01:25 PM	Aqueous	E300	Anion Preparation	03/19/09 09:06 AM	34023
	P-MW-20	03/18/09 01:25 PM	Aqueous	M2320 B	Alkalinity Preparation	03/25/09 01:32 PM	34132
	P-MW-20	03/18/09 01:25 PM	Aqueous	M4500-H+ B	pH Preparation	03/19/09 01:53 PM	34047
	P-MW-20	03/18/09 01:25 PM	Aqueous	M2510 B	Conductivity Preparation	03/25/09 10:00 AM	34125
	P-MW-20	03/18/09 01:25 PM	Aqueous	M2540C	TDS Preparation	03/25/09 10:00 AM	34138
0903142-14A	P-MW-21	03/18/09 02:15 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/19/09 10:50 AM	34031
	P-MW-21	03/18/09 02:15 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/19/09 10:50 AM	34031
	P-MW-21	03/18/09 02:15 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/19/09 10:50 AM	34031
	P-MW-21	03/18/09 02:15 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/19/09 10:50 AM	34031

CLIENT: TRC Environmental Corp.
Project: RRC Petronila GW
Lab Order: 0903142

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
0903142-14B	P-MW-21	03/18/09 02:15 PM	Aqueous	E300	Anion Preparation	03/19/09 09:06 AM	34023
	P-MW-21	03/18/09 02:15 PM	Aqueous	E300	Anion Preparation	03/19/09 09:06 AM	34023
	P-MW-21	03/18/09 02:15 PM	Aqueous	E300	Anion Preparation	03/19/09 09:06 AM	34023
	P-MW-21	03/18/09 02:15 PM	Aqueous	M2320 B	Alkalinity Preparation	03/25/09 01:32 PM	34132
	P-MW-21	03/18/09 02:15 PM	Aqueous	M4500-H+ B	pH Preparation	03/19/09 01:53 PM	34047
	P-MW-21	03/18/09 02:15 PM	Aqueous	M2510 B	Conductivity Preparation	03/25/09 10:00 AM	34125
	P-MW-21	03/18/09 02:15 PM	Aqueous	M2540C	TDS Preparation	03/25/09 10:00 AM	34138
0903142-15A	P-MW-18	03/18/09 04:15 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/19/09 10:50 AM	34031
	P-MW-18	03/18/09 04:15 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/19/09 10:50 AM	34031
	P-MW-18	03/18/09 04:15 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/19/09 10:50 AM	34031
	P-MW-18	03/18/09 04:15 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/19/09 10:50 AM	34031
0903142-15B	P-MW-18	03/18/09 04:15 PM	Aqueous	E300	Anion Preparation	03/19/09 09:06 AM	34023
	P-MW-18	03/18/09 04:15 PM	Aqueous	E300	Anion Preparation	03/19/09 09:06 AM	34023
	P-MW-18	03/18/09 04:15 PM	Aqueous	E300	Anion Preparation	03/19/09 09:06 AM	34023
	P-MW-18	03/18/09 04:15 PM	Aqueous	M2320 B	Alkalinity Preparation	03/25/09 01:32 PM	34132
	P-MW-18	03/18/09 04:15 PM	Aqueous	M4500-H+ B	pH Preparation	03/19/09 01:53 PM	34047
	P-MW-18	03/18/09 04:15 PM	Aqueous	M2510 B	Conductivity Preparation	03/25/09 10:00 AM	34125
	P-MW-18	03/18/09 04:15 PM	Aqueous	M2540C	TDS Preparation	03/25/09 10:00 AM	34138

CLIENT: TRC Environmental Corp.
Project: RRC Petronila GW
Lab Order: 0903142

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
0903142-01A	P-MW-01	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34031	1000	03/25/09 01:27 PM	ICP-MS2_090325B
	P-MW-01	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34031	100	03/25/09 03:10 PM	ICP-MS2_090325B
	P-MW-01	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34031	1	03/24/09 10:21 PM	ICP-MS3_090324A
0903142-01B	P-MW-01	Aqueous	M2320 B	Alkalinity	34091	1	03/23/09 11:42 AM	TITRATOR_090323B
	P-MW-01	Aqueous	E300	Anions by IC method - Water	34023	10	03/19/09 12:18 PM	IC_090319A
	P-MW-01	Aqueous	E300	Anions by IC method - Water	34023	1000	03/25/09 10:26 AM	IC_090325A
	P-MW-01	Aqueous	E300	Anions by IC method - Water	34023	100	03/25/09 12:28 PM	IC_090325A
	P-MW-01	Aqueous	M4500-H+ B	pH	34047	1	03/19/09 01:56 PM	TITRATOR_090319A
	P-MW-01	Aqueous	M2510 B	Specific Conductance	34125	5	03/25/09 10:00 AM	WC_090325A
	P-MW-01	Aqueous	M2540C	Total Dissolved Solids	34109	1	03/24/09 11:00 AM	WC_090324A
0903142-02A	P-MW-02	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34031	1000	03/25/09 01:33 PM	ICP-MS2_090325B
	P-MW-02	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34031	100	03/25/09 03:15 PM	ICP-MS2_090325B
	P-MW-02	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34031	1	03/24/09 10:26 PM	ICP-MS3_090324A
0903142-02B	P-MW-02	Aqueous	M2320 B	Alkalinity	34091	1	03/23/09 11:50 AM	TITRATOR_090323B
	P-MW-02	Aqueous	E300	Anions by IC method - Water	34023	10	03/19/09 12:33 PM	IC_090319A
	P-MW-02	Aqueous	E300	Anions by IC method - Water	34023	1000	03/25/09 10:42 AM	IC_090325A
	P-MW-02	Aqueous	E300	Anions by IC method - Water	34023	100	03/25/09 01:12 PM	IC_090325A
	P-MW-02	Aqueous	M4500-H+ B	pH	34047	1	03/19/09 01:57 PM	TITRATOR_090319A
	P-MW-02	Aqueous	M2510 B	Specific Conductance	34125	5	03/25/09 10:00 AM	WC_090325A
	P-MW-02	Aqueous	M2540C	Total Dissolved Solids	34109	1	03/24/09 11:00 AM	WC_090324A
0903142-03A	P-D3-MW-27	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34031	1000	03/25/09 01:54 PM	ICP-MS2_090325B
	P-D3-MW-27	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34031	5000	03/25/09 03:37 PM	ICP-MS2_090325B
	P-D3-MW-27	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34031	100	03/25/09 04:05 PM	ICP-MS2_090325B
	P-D3-MW-27	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34031	5	03/25/09 06:51 PM	ICP-MS2_090325B
	P-D3-MW-27	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34031	1	03/24/09 10:31 PM	ICP-MS3_090324A
0903142-03B	P-D3-MW-27	Aqueous	M2320 B	Alkalinity	34091	1	03/23/09 11:59 AM	TITRATOR_090323B
	P-D3-MW-27	Aqueous	E300	Anions by IC method - Water	34023	10	03/19/09 12:49 PM	IC_090319A
	P-D3-MW-27	Aqueous	E300	Anions by IC method - Water	34023	1000	03/25/09 10:57 AM	IC_090325A
	P-D3-MW-27	Aqueous	E300	Anions by IC method - Water	34023	100	03/25/09 01:27 PM	IC_090325A

CLIENT: TRC Environmental Corp.
Project: RRC Petronila GW
Lab Order: 0903142

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
	P-D3-MW-27	Aqueous	M4500-H+ B	pH	34047	1	03/19/09 01:58 PM	TITRATOR_090319A
	P-D3-MW-27	Aqueous	M2510 B	Specific Conductance	34125	10	03/25/09 10:00 AM	WC_090325A
	P-D3-MW-27	Aqueous	M2540C	Total Dissolved Solids	34109	1	03/24/09 11:00 AM	WC_090324A
0903142-04A	P-D3-MW-27-D	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34031	1000	03/25/09 02:00 PM	ICP-MS2_090325B
	P-D3-MW-27-D	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34031	5000	03/25/09 03:42 PM	ICP-MS2_090325B
	P-D3-MW-27-D	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34031	100	03/25/09 04:11 PM	ICP-MS2_090325B
	P-D3-MW-27-D	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34031	5	03/25/09 06:57 PM	ICP-MS2_090325B
	P-D3-MW-27-D	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34031	1	03/24/09 10:36 PM	ICP-MS3_090324A
0903142-04B	P-D3-MW-27-D	Aqueous	M2320 B	Alkalinity	34091	1	03/23/09 12:09 PM	TITRATOR_090323B
	P-D3-MW-27-D	Aqueous	E300	Anions by IC method - Water	34023	5	03/19/09 01:05 PM	IC_090319A
	P-D3-MW-27-D	Aqueous	E300	Anions by IC method - Water	34023	10	03/19/09 05:16 PM	IC_090319A
	P-D3-MW-27-D	Aqueous	E300	Anions by IC method - Water	34023	1000	03/25/09 11:13 AM	IC_090325A
	P-D3-MW-27-D	Aqueous	E300	Anions by IC method - Water	34023	100	03/25/09 01:42 PM	IC_090325A
	P-D3-MW-27-D	Aqueous	M4500-H+ B	pH	34047	1	03/19/09 01:59 PM	TITRATOR_090319A
	P-D3-MW-27-D	Aqueous	M2510 B	Specific Conductance	34125	10	03/25/09 10:00 AM	WC_090325A
	P-D3-MW-27-D	Aqueous	M2540C	Total Dissolved Solids	34109	1	03/24/09 11:00 AM	WC_090324A
0903142-05A	P-MW-03	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34031	1000	03/25/09 02:05 PM	ICP-MS2_090325B
	P-MW-03	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34031	100	03/25/09 04:16 PM	ICP-MS2_090325B
	P-MW-03	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34031	5	03/25/09 06:46 PM	ICP-MS2_090325B
	P-MW-03	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34031	1	03/24/09 10:41 PM	ICP-MS3_090324A
0903142-05B	P-MW-03	Aqueous	M2320 B	Alkalinity	34091	1	03/23/09 12:16 PM	TITRATOR_090323B
	P-MW-03	Aqueous	E300	Anions by IC method - Water	34023	5	03/19/09 01:21 PM	IC_090319A
	P-MW-03	Aqueous	E300	Anions by IC method - Water	34023	1000	03/25/09 11:28 AM	IC_090325A
	P-MW-03	Aqueous	E300	Anions by IC method - Water	34023	100	03/25/09 01:56 PM	IC_090325A
	P-MW-03	Aqueous	M4500-H+ B	pH	34047	1	03/19/09 02:00 PM	TITRATOR_090319A
	P-MW-03	Aqueous	M2510 B	Specific Conductance	34125	5	03/25/09 10:00 AM	WC_090325A
	P-MW-03	Aqueous	M2540C	Total Dissolved Solids	34138	1	03/26/09 09:30 AM	WC_090325B
0903142-06A	P-MW-22	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34031	1000	03/25/09 02:10 PM	ICP-MS2_090325B
	P-MW-22	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34031	10	03/25/09 05:36 PM	ICP-MS2_090325B

CLIENT: TRC Environmental Corp.
Project: RRC Petronila GW
Lab Order: 0903142

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
	P-MW-22	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34031	1	03/24/09 10:46 PM	ICP-MS3_090324A
0903142-06B	P-MW-22	Aqueous	M2320 B	Alkalinity	34091	1	03/23/09 12:22 PM	TITRATOR_090323B
	P-MW-22	Aqueous	E300	Anions by IC method - Water	34023	5	03/19/09 01:52 PM	IC_090319A
	P-MW-22	Aqueous	E300	Anions by IC method - Water	34023	1000	03/25/09 02:11 PM	IC_090325A
	P-MW-22	Aqueous	E300	Anions by IC method - Water	34023	100	03/25/09 04:08 PM	IC_090325A
	P-MW-22	Aqueous	E300	Anions by IC method - Water	34023	10	03/26/09 10:21 AM	IC_090326A
	P-MW-22	Aqueous	M4500-H+ B	pH	34047	1	03/19/09 02:01 PM	TITRATOR_090319A
	P-MW-22	Aqueous	M2510 B	Specific Conductance	34125	2	03/25/09 10:00 AM	WC_090325A
	P-MW-22	Aqueous	M2540C	Total Dissolved Solids	34138	1	03/26/09 09:30 AM	WC_090325B
0903142-07A	P-MW-15	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34031	1000	03/25/09 02:16 PM	ICP-MS2_090325B
	P-MW-15	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34031	100	03/25/09 04:21 PM	ICP-MS2_090325B
	P-MW-15	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34031	5	03/25/09 06:35 PM	ICP-MS2_090325B
	P-MW-15	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34031	1	03/24/09 10:52 PM	ICP-MS3_090324A
0903142-07B	P-MW-15	Aqueous	M2320 B	Alkalinity	34091	1	03/23/09 12:24 PM	TITRATOR_090323B
	P-MW-15	Aqueous	E300	Anions by IC method - Water	34023	5	03/19/09 02:08 PM	IC_090319A
	P-MW-15	Aqueous	E300	Anions by IC method - Water	34023	20	03/19/09 07:12 PM	IC_090319A
	P-MW-15	Aqueous	E300	Anions by IC method - Water	34023	1000	03/25/09 02:26 PM	IC_090325A
	P-MW-15	Aqueous	E300	Anions by IC method - Water	34023	100	03/25/09 04:23 PM	IC_090325A
	P-MW-15	Aqueous	M4500-H+ B	pH	34047	1	03/19/09 02:03 PM	TITRATOR_090319A
	P-MW-15	Aqueous	M2510 B	Specific Conductance	34125	5	03/25/09 10:00 AM	WC_090325A
	P-MW-15	Aqueous	M2540C	Total Dissolved Solids	34138	1	03/26/09 09:30 AM	WC_090325B
0903142-08A	P-MW-14	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34031	1000	03/25/09 02:21 PM	ICP-MS2_090325B
	P-MW-14	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34031	100	03/25/09 04:27 PM	ICP-MS2_090325B
	P-MW-14	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34031	5	03/25/09 06:41 PM	ICP-MS2_090325B
	P-MW-14	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34031	1	03/24/09 10:57 PM	ICP-MS3_090324A
0903142-08B	P-MW-14	Aqueous	M2320 B	Alkalinity	34091	1	03/23/09 12:31 PM	TITRATOR_090323B
	P-MW-14	Aqueous	E300	Anions by IC method - Water	34023	5	03/19/09 02:23 PM	IC_090319A
	P-MW-14	Aqueous	E300	Anions by IC method - Water	34023	1000	03/25/09 02:40 PM	IC_090325A
	P-MW-14	Aqueous	E300	Anions by IC method - Water	34023	100	03/25/09 04:38 PM	IC_090325A

CLIENT: TRC Environmental Corp.
Project: RRC Petronila GW
Lab Order: 0903142

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
	P-MW-14	Aqueous	M4500-H+ B	pH	34047	1	03/19/09 02:05 PM	TITRATOR_090319A
	P-MW-14	Aqueous	M2510 B	Specific Conductance	34125	2	03/25/09 10:00 AM	WC_090325A
	P-MW-14	Aqueous	M2540C	Total Dissolved Solids	34138	1	03/26/09 09:30 AM	WC_090325B
0903142-09A	P-MW-13	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34031	50	03/25/09 01:49 PM	ICP-MS2_090325B
	P-MW-13	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34031	1	03/25/09 04:00 PM	ICP-MS2_090325B
	P-MW-13	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34031	1	03/24/09 11:02 PM	ICP-MS3_090324A
0903142-09B	P-MW-13	Aqueous	M2320 B	Alkalinity	34091	1	03/23/09 12:36 PM	TITRATOR_090323B
	P-MW-13	Aqueous	E300	Anions by IC method - Water	34023	1	03/19/09 02:39 PM	IC_090319A
	P-MW-13	Aqueous	E300	Anions by IC method - Water	34023	100	03/25/09 04:52 PM	IC_090325A
	P-MW-13	Aqueous	E300	Anions by IC method - Water	34023	10	03/26/09 10:37 AM	IC_090326A
	P-MW-13	Aqueous	M4500-H+ B	pH	34047	1	03/19/09 02:06 PM	TITRATOR_090319A
	P-MW-13	Aqueous	M2510 B	Specific Conductance	34125	1	03/25/09 10:00 AM	WC_090325A
	P-MW-13	Aqueous	M2540C	Total Dissolved Solids	34138	1	03/26/09 09:30 AM	WC_090325B
0903142-10A	P-MW-16	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34031	1000	03/25/09 01:00 PM	ICP-MS2_090325B
	P-MW-16	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34031	1	03/25/09 05:04 PM	ICP-MS2_090325B
	P-MW-16	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34031	1	03/24/09 11:07 PM	ICP-MS3_090324A
0903142-10B	P-MW-16	Aqueous	M2320 B	Alkalinity	34091	1	03/23/09 12:49 PM	TITRATOR_090323B
	P-MW-16	Aqueous	E300	Anions by IC method - Water	34023	5	03/19/09 02:55 PM	IC_090319A
	P-MW-16	Aqueous	E300	Anions by IC method - Water	34023	1000	03/25/09 03:24 PM	IC_090325A
	P-MW-16	Aqueous	E300	Anions by IC method - Water	34023	100	03/25/09 05:07 PM	IC_090325A
	P-MW-16	Aqueous	M4500-H+ B	pH	34047	1	03/19/09 02:08 PM	TITRATOR_090319A
	P-MW-16	Aqueous	M2510 B	Specific Conductance	34125	5	03/25/09 10:00 AM	WC_090325A
	P-MW-16	Aqueous	M2540C	Total Dissolved Solids	34138	1	03/26/09 09:30 AM	WC_090325B
0903142-11A	P-D2-MW-12	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34031	1000	03/25/09 02:27 PM	ICP-MS2_090325B
	P-D2-MW-12	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34031	100	03/25/09 03:21 PM	ICP-MS2_090325B
	P-D2-MW-12	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34031	1	03/24/09 11:48 PM	ICP-MS3_090324A
0903142-11B	P-D2-MW-12	Aqueous	M2320 B	Alkalinity	34091	1	03/23/09 01:01 PM	TITRATOR_090323B
	P-D2-MW-12	Aqueous	E300	Anions by IC method - Water	34023	5	03/19/09 03:42 PM	IC_090319A
	P-D2-MW-12	Aqueous	E300	Anions by IC method - Water	34023	1000	03/25/09 06:06 PM	IC_090325A

CLIENT: TRC Environmental Corp.
Project: RRC Petronila GW
Lab Order: 0903142

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
	P-D2-MW-12	Aqueous	E300	Anions by IC method - Water	34023	100	03/25/09 07:19 PM	IC_090325A
	P-D2-MW-12	Aqueous	M4500-H+ B	pH	34047	1	03/19/09 02:10 PM	TITRATOR_090319A
	P-D2-MW-12	Aqueous	M2510 B	Specific Conductance	34125	1	03/25/09 10:00 AM	WC_090325A
	P-D2-MW-12	Aqueous	M2540C	Total Dissolved Solids	34138	1	03/26/09 09:30 AM	WC_090325B
0903142-12A	P-MW-12	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34031	1000	03/25/09 02:32 PM	ICP-MS2_090325B
	P-MW-12	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34031	100	03/25/09 03:26 PM	ICP-MS2_090325B
	P-MW-12	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34031	1	03/24/09 11:53 PM	ICP-MS3_090324A
0903142-12B	P-MW-12	Aqueous	M2320 B	Alkalinity	34091	1	03/23/09 01:11 PM	TITRATOR_090323B
	P-MW-12	Aqueous	E300	Anions by IC method - Water	34023	5	03/19/09 03:58 PM	IC_090319A
	P-MW-12	Aqueous	E300	Anions by IC method - Water	34023	1000	03/25/09 06:20 PM	IC_090325A
	P-MW-12	Aqueous	E300	Anions by IC method - Water	34023	100	03/25/09 07:34 PM	IC_090325A
	P-MW-12	Aqueous	M4500-H+ B	pH	34047	1	03/19/09 02:12 PM	TITRATOR_090319A
	P-MW-12	Aqueous	M2510 B	Specific Conductance	34125	1	03/25/09 10:00 AM	WC_090325A
	P-MW-12	Aqueous	M2540C	Total Dissolved Solids	34138	1	03/26/09 09:30 AM	WC_090325B
0903142-13A	P-MW-20	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34031	1000	03/25/09 02:38 PM	ICP-MS2_090325B
	P-MW-20	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34031	50	03/25/09 04:32 PM	ICP-MS2_090325B
	P-MW-20	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34031	1	03/25/09 05:42 PM	ICP-MS2_090325B
	P-MW-20	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34031	1	03/24/09 11:58 PM	ICP-MS3_090324A
0903142-13B	P-MW-20	Aqueous	M2320 B	Alkalinity	34132	1	03/25/09 01:16 PM	TITRATOR_090325A
	P-MW-20	Aqueous	E300	Anions by IC method - Water	34023	5	03/19/09 04:29 PM	IC_090319A
	P-MW-20	Aqueous	E300	Anions by IC method - Water	34023	1000	03/25/09 06:35 PM	IC_090325A
	P-MW-20	Aqueous	E300	Anions by IC method - Water	34023	100	03/25/09 07:48 PM	IC_090325A
	P-MW-20	Aqueous	M4500-H+ B	pH	34047	1	03/19/09 02:13 PM	TITRATOR_090319A
	P-MW-20	Aqueous	M2510 B	Specific Conductance	34125	5	03/25/09 10:00 AM	WC_090325A
	P-MW-20	Aqueous	M2540C	Total Dissolved Solids	34138	1	03/26/09 09:30 AM	WC_090325B
0903142-14A	P-MW-21	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34031	1000	03/25/09 02:59 PM	ICP-MS2_090325B
	P-MW-21	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34031	50	03/25/09 04:38 PM	ICP-MS2_090325B
	P-MW-21	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34031	1	03/25/09 05:47 PM	ICP-MS2_090325B
	P-MW-21	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34031	1	03/25/09 12:03 AM	ICP-MS3_090324A

CLIENT: TRC Environmental Corp.
Project: RRC Petronila GW
Lab Order: 0903142

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
0903142-14B	P-MW-21	Aqueous	M2320 B	Alkalinity	34132	1	03/25/09 01:23 PM	TITRATOR_090325A
	P-MW-21	Aqueous	E300	Anions by IC method - Water	34023	5	03/19/09 04:45 PM	IC_090319A
	P-MW-21	Aqueous	E300	Anions by IC method - Water	34023	1000	03/25/09 06:50 PM	IC_090325A
	P-MW-21	Aqueous	E300	Anions by IC method - Water	34023	100	03/25/09 08:03 PM	IC_090325A
	P-MW-21	Aqueous	M4500-H+ B	pH	34047	1	03/19/09 02:14 PM	TITRATOR_090319A
	P-MW-21	Aqueous	M2510 B	Specific Conductance	34125	5	03/25/09 10:00 AM	WC_090325A
	P-MW-21	Aqueous	M2540C	Total Dissolved Solids	34138	1	03/26/09 09:30 AM	WC_090325B
0903142-15A	P-MW-18	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34031	1000	03/25/09 03:04 PM	ICP-MS2_090325B
	P-MW-18	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34031	50	03/25/09 04:43 PM	ICP-MS2_090325B
	P-MW-18	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34031	1	03/25/09 05:53 PM	ICP-MS2_090325B
	P-MW-18	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34031	1	03/25/09 12:09 AM	ICP-MS3_090324A
0903142-15B	P-MW-18	Aqueous	M2320 B	Alkalinity	34132	1	03/25/09 01:30 PM	TITRATOR_090325A
	P-MW-18	Aqueous	E300	Anions by IC method - Water	34023	5	03/19/09 05:00 PM	IC_090319A
	P-MW-18	Aqueous	E300	Anions by IC method - Water	34023	1000	03/25/09 07:04 PM	IC_090325A
	P-MW-18	Aqueous	E300	Anions by IC method - Water	34023	100	03/25/09 08:33 PM	IC_090325A
	P-MW-18	Aqueous	M4500-H+ B	pH	34047	1	03/19/09 02:16 PM	TITRATOR_090319A
	P-MW-18	Aqueous	M2510 B	Specific Conductance	34125	5	03/25/09 10:00 AM	WC_090325A
	P-MW-18	Aqueous	M2540C	Total Dissolved Solids	34138	1	03/26/09 09:30 AM	WC_090325B

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-MW-01
Project:	RRC Petronila GW	Lab ID:	0903142-01
Project No:	166420-04	Collection Date:	03/18/09 10:40 AM
Lab Order:	0903142	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		**SW6020**					**Analyst: CZ**
Barium	0.0844	0.00300	0.0100		mg/L	1	03/24/09 10:21 PM
Calcium	1330	100	300		mg/L	1000	03/25/09 01:27 PM
Iron	0.544	0.0500	0.150		mg/L	1	03/24/09 10:21 PM
Magnesium	366	10.0	30.0		mg/L	100	03/25/09 03:10 PM
Potassium	31.5	10.0	30.0		mg/L	100	03/25/09 03:10 PM
Sodium	6000	100	300		mg/L	1000	03/25/09 01:27 PM
Anions by IC method - Water		**E300**					**Analyst: DEW**
Bromide	36.8	3.00	10.0		mg/L	10	03/19/09 12:18 PM
Chloride	12400	300	1000		mg/L	1000	03/25/09 10:26 AM
Nitrate-N	ND	1.00	5.00		mg/L	10	03/19/09 12:18 PM
Sulfate	2700	100	300		mg/L	100	03/25/09 12:28 PM
Alkalinity		**M2320 B**					**Analyst: JBC**
Alkalinity, Bicarbonate (As CaCO3)	381	10.0	20.0		mg/L	1	03/23/09 11:42 AM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	03/23/09 11:42 AM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	03/23/09 11:42 AM
Alkalinity, Total (As CaCO3)	381	10.0	20.0		mg/L	1	03/23/09 11:42 AM
pH		**M4500-H+ B**					**Analyst: AAD**
pH	6.52	0	0		pH Units	1	03/19/09 01:56 PM
Specific Conductance		**M2510 B**					**Analyst: AAD**
Specific Conductance	39800	50.0	50.0		µmhos/cm	5	03/25/09 10:00 AM
Total Dissolved Solids		**M2540C**					**Analyst: AAD**
Total Dissolved Solids (Residue, Filterable)	25400	10.0	10.0		mg/L	1	03/24/09 11:00 AM

Qualifiers:

	See Final Page of Report for MQLs and MDLs
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between SDL and RL
N	Parameter not NELAC certified
ND	Not Detected at the SDL
RL	Reporting Limit (MQL adjusted for moisture and sample size)
S	Spike Recovery outside control limits
SDL	Sample Detection Limit

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-MW-02
Project:	RRC Petronila GW	Lab ID:	0903142-02
Project No:	166420-04	Collection Date:	03/18/09 11:05 AM
Lab Order:	0903142	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		**SW6020**					**Analyst: CZ**
Barium	0.0808	0.00300	0.0100		mg/L	1	03/24/09 10:26 PM
Calcium	1170	100	300		mg/L	1000	03/25/09 01:33 PM
Iron	ND	0.0500	0.150		mg/L	1	03/24/09 10:26 PM
Magnesium	307	10.0	30.0		mg/L	100	03/25/09 03:15 PM
Potassium	35.2	10.0	30.0		mg/L	100	03/25/09 03:15 PM
Sodium	6120	100	300		mg/L	1000	03/25/09 01:33 PM
Anions by IC method - Water		**E300**					**Analyst: DEW**
Bromide	35.9	3.00	10.0		mg/L	10	03/19/09 12:33 PM
Chloride	11800	300	1000		mg/L	1000	03/25/09 10:42 AM
Nitrate-N	ND	1.00	5.00		mg/L	10	03/19/09 12:33 PM
Sulfate	2600	100	300		mg/L	100	03/25/09 01:12 PM
Alkalinity		**M2320 B**					**Analyst: JBC**
Alkalinity, Bicarbonate (As CaCO3)	304	10.0	20.0		mg/L	1	03/23/09 11:50 AM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	03/23/09 11:50 AM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	03/23/09 11:50 AM
Alkalinity, Total (As CaCO3)	304	10.0	20.0		mg/L	1	03/23/09 11:50 AM
pH		**M4500-H+ B**					**Analyst: AAD**
pH	7.03	0	0		pH Units	1	03/19/09 01:57 PM
Specific Conductance		**M2510 B**					**Analyst: AAD**
Specific Conductance	40200	50.0	50.0		µmhos/cm	5	03/25/09 10:00 AM
Total Dissolved Solids		**M2540C**					**Analyst: AAD**
Total Dissolved Solids (Residue, Filterable)	24700	10.0	10.0		mg/L	1	03/24/09 11:00 AM

Qualifiers:

	See Final Page of Report for MQLs and MDLs
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between SDL and RL
N	Parameter not NELAC certified
ND	Not Detected at the SDL
RL	Reporting Limit (MQL adjusted for moisture and sample size)
S	Spike Recovery outside control limits
SDL	Sample Detection Limit

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-D3-MW-27
Project:	RRC Petronila GW	Lab ID:	0903142-03
Project No:	166420-04	Collection Date:	03/18/09 11:30 AM
Lab Order:	0903142	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		**SW6020**					**Analyst: KW**
Barium	0.131	0.0150	0.0500		mg/L	5	03/25/09 06:51 PM
Calcium	3410	100	300		mg/L	1000	03/25/09 01:54 PM
Iron	3.97	0.250	0.750		mg/L	5	03/25/09 06:51 PM
Magnesium	571	10.0	30.0		mg/L	100	03/25/09 04:05 PM
Potassium	42.4	0.500	1.50		mg/L	5	03/25/09 06:51 PM
Sodium	17400	500	1500		mg/L	5000	03/25/09 03:37 PM
Anions by IC method - Water		**E300**					**Analyst: DEW**
Bromide	152	3.00	10.0		mg/L	10	03/19/09 12:49 PM
Chloride	38400	300	1000		mg/L	1000	03/25/09 10:57 AM
Nitrate-N	ND	1.00	5.00		mg/L	10	03/19/09 12:49 PM
Sulfate	2310	100	300		mg/L	100	03/25/09 01:27 PM
Alkalinity		**M2320 B**					**Analyst: JBC**
Alkalinity, Bicarbonate (As CaCO3)	262	10.0	20.0		mg/L	1	03/23/09 11:59 AM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	03/23/09 11:59 AM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	03/23/09 11:59 AM
Alkalinity, Total (As CaCO3)	262	10.0	20.0		mg/L	1	03/23/09 11:59 AM
pH		**M4500-H+ B**					**Analyst: AAD**
pH	6.38	0	0		pH Units	1	03/19/09 01:58 PM
Specific Conductance		**M2510 B**					**Analyst: AAD**
Specific Conductance	114000	100	100		µmhos/cm	10	03/25/09 10:00 AM
Total Dissolved Solids		**M2540C**					**Analyst: AAD**
Total Dissolved Solids (Residue, Filterable)	70700	10.0	10.0		mg/L	1	03/24/09 11:00 AM

Qualifiers: See Final Page of Report for MQLs and MDLs

B	Analyte detected in the associated Method Blank	J	Analyte detected between SDL and RL
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the SDL
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit (MQL adjusted for moisture and sample size)
		S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-D3-MW-27-D
Project:	RRC Petronila GW	Lab ID:	0903142-04
Project No:	166420-04	Collection Date:	03/18/09 11:30 AM
Lab Order:	0903142	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		**SW6020**					**Analyst: KW**
Barium	0.128	0.0150	0.0500		mg/L	5	03/25/09 06:57 PM
Calcium	3290	100	300		mg/L	1000	03/25/09 02:00 PM
Iron	3.80	0.250	0.750		mg/L	5	03/25/09 06:57 PM
Magnesium	574	10.0	30.0		mg/L	100	03/25/09 04:11 PM
Potassium	42.2	0.500	1.50		mg/L	5	03/25/09 06:57 PM
Sodium	17600	500	1500		mg/L	5000	03/25/09 03:42 PM
Anions by IC method - Water		**E300**					**Analyst: DEW**
Bromide	153	3.00	10.0		mg/L	10	03/19/09 05:16 PM
Chloride	38400	300	1000		mg/L	1000	03/25/09 11:13 AM
Nitrate-N	ND	0.500	2.50		mg/L	5	03/19/09 01:05 PM
Sulfate	2350	100	300		mg/L	100	03/25/09 01:42 PM
Alkalinity		**M2320 B**					**Analyst: JBC**
Alkalinity, Bicarbonate (As CaCO3)	264	10.0	20.0		mg/L	1	03/23/09 12:09 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	03/23/09 12:09 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	03/23/09 12:09 PM
Alkalinity, Total (As CaCO3)	264	10.0	20.0		mg/L	1	03/23/09 12:09 PM
pH		**M4500-H+ B**					**Analyst: AAD**
pH	6.36	0	0		pH Units	1	03/19/09 01:59 PM
Specific Conductance		**M2510 B**					**Analyst: AAD**
Specific Conductance	112000	100	100		µmhos/cm	10	03/25/09 10:00 AM
Total Dissolved Solids		**M2540C**					**Analyst: AAD**
Total Dissolved Solids (Residue, Filterable)	70000	10.0	10.0		mg/L	1	03/24/09 11:00 AM

Qualifiers: See Final Page of Report for MQLs and MDLs

B	Analyte detected in the associated Method Blank	J	Analyte detected between SDL and RL
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the SDL
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit (MQL adjusted for moisture and sample size)
		S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-MW-03
Project:	RRC Petronila GW	Lab ID:	0903142-05
Project No:	166420-04	Collection Date:	03/18/09 12:45 PM
Lab Order:	0903142	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		**SW6020**					**Analyst: KW**
Barium	0.110	0.0150	0.0500		mg/L	5	03/25/09 06:46 PM
Calcium	3630	100	300		mg/L	1000	03/25/09 02:05 PM
Iron	1.10	0.250	0.750		mg/L	5	03/25/09 06:46 PM
Magnesium	584	10.0	30.0		mg/L	100	03/25/09 04:16 PM
Potassium	19.3	0.500	1.50		mg/L	5	03/25/09 06:46 PM
Sodium	6610	100	300		mg/L	1000	03/25/09 02:05 PM
Anions by IC method - Water		**E300**					**Analyst: DEW**
Bromide	66.1	1.50	5.00		mg/L	5	03/19/09 01:21 PM
Chloride	19900	300	1000		mg/L	1000	03/25/09 11:28 AM
Nitrate-N	ND	0.500	2.50		mg/L	5	03/19/09 01:21 PM
Sulfate	1160	100	300		mg/L	100	03/25/09 01:56 PM
Alkalinity		**M2320 B**					**Analyst: JBC**
Alkalinity, Bicarbonate (As CaCO3)	256	10.0	20.0		mg/L	1	03/23/09 12:16 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	03/23/09 12:16 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	03/23/09 12:16 PM
Alkalinity, Total (As CaCO3)	256	10.0	20.0		mg/L	1	03/23/09 12:16 PM
pH		**M4500-H+ B**					**Analyst: AAD**
pH	6.64	0	0		pH Units	1	03/19/09 02:00 PM
Specific Conductance		**M2510 B**					**Analyst: AAD**
Specific Conductance	58000	50.0	50.0		µmhos/cm	5	03/25/09 10:00 AM
Total Dissolved Solids		**M2540C**					**Analyst: AAD**
Total Dissolved Solids (Residue, Filterable)	37600	10.0	10.0		mg/L	1	03/26/09 09:30 AM

Qualifiers:

	See Final Page of Report for MQLs and MDLs
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between SDL and RL
N	Parameter not NELAC certified
ND	Not Detected at the SDL
RL	Reporting Limit (MQL adjusted for moisture and sample size)
S	Spike Recovery outside control limits
SDL	Sample Detection Limit

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-MW-22
Project:	RRC Petronila GW	Lab ID:	0903142-06
Project No:	166420-04	Collection Date:	03/18/09 01:45 PM
Lab Order:	0903142	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		**SW6020**					**Analyst: KW**
Barium	2.20	0.0300	0.100		mg/L	10	03/25/09 05:36 PM
Calcium	1040	100	300		mg/L	1000	03/25/09 02:10 PM
Iron	58.7	0.500	1.50		mg/L	10	03/25/09 05:36 PM
Magnesium	429	100	300		mg/L	1000	03/25/09 02:10 PM
Potassium	14.8	1.00	3.00		mg/L	10	03/25/09 05:36 PM
Sodium	3380	100	300		mg/L	1000	03/25/09 02:10 PM
Anions by IC method - Water		**E300**					**Analyst: DEW**
Bromide	30.2	1.50	5.00		mg/L	5	03/19/09 01:52 PM
Chloride	8840	300	1000		mg/L	1000	03/25/09 02:11 PM
Nitrate-N	ND	0.500	2.50		mg/L	5	03/19/09 01:52 PM
Sulfate	268	10.0	30.0		mg/L	10	03/26/09 10:21 AM
Alkalinity		**M2320 B**					**Analyst: JBC**
Alkalinity, Bicarbonate (As CaCO3)	643	10.0	20.0		mg/L	1	03/23/09 12:22 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	03/23/09 12:22 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	03/23/09 12:22 PM
Alkalinity, Total (As CaCO3)	643	10.0	20.0		mg/L	1	03/23/09 12:22 PM
pH		**M4500-H+ B**					**Analyst: AAD**
pH	6.58	0	0		pH Units	1	03/19/09 02:01 PM
Specific Conductance		**M2510 B**					**Analyst: AAD**
Specific Conductance	24600	20.0	20.0		µmhos/cm	2	03/25/09 10:00 AM
Total Dissolved Solids		**M2540C**					**Analyst: AAD**
Total Dissolved Solids (Residue, Filterable)	17000	10.0	10.0		mg/L	1	03/26/09 09:30 AM

Qualifiers:

	See Final Page of Report for MQLs and MDLs
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between SDL and RL
N	Parameter not NELAC certified
ND	Not Detected at the SDL
RL	Reporting Limit (MQL adjusted for moisture and sample size)
S	Spike Recovery outside control limits
SDL	Sample Detection Limit

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-MW-15
Project:	RRC Petronila GW	Lab ID:	0903142-07
Project No:	166420-04	Collection Date:	03/18/09 03:00 PM
Lab Order:	0903142	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		**SW6020**					**Analyst: KW**
Barium	0.106	0.0150	0.0500		mg/L	5	03/25/09 06:35 PM
Calcium	2410	100	300		mg/L	1000	03/25/09 02:16 PM
Iron	2.16	0.250	0.750		mg/L	5	03/25/09 06:35 PM
Magnesium	198	10.0	30.0		mg/L	100	03/25/09 04:21 PM
Potassium	13.1	0.500	1.50		mg/L	5	03/25/09 06:35 PM
Sodium	4290	100	300		mg/L	1000	03/25/09 02:16 PM
Anions by IC method - Water		**E300**					**Analyst: DEW**
Bromide	65.1	6.00	20.0		mg/L	20	03/19/09 07:12 PM
Chloride	12500	300	1000		mg/L	1000	03/25/09 02:26 PM
Nitrate-N	ND	0.500	2.50		mg/L	5	03/19/09 02:08 PM
Sulfate	1490	100	300		mg/L	100	03/25/09 04:23 PM
Alkalinity		**M2320 B**					**Analyst: JBC**
Alkalinity, Bicarbonate (As CaCO3)	51.6	10.0	20.0		mg/L	1	03/23/09 12:24 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	03/23/09 12:24 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	03/23/09 12:24 PM
Alkalinity, Total (As CaCO3)	51.6	10.0	20.0		mg/L	1	03/23/09 12:24 PM
pH		**M4500-H+ B**					**Analyst: AAD**
pH	7.73	0	0		pH Units	1	03/19/09 02:03 PM
Specific Conductance		**M2510 B**					**Analyst: AAD**
Specific Conductance	38100	50.0	50.0		µmhos/cm	5	03/25/09 10:00 AM
Total Dissolved Solids		**M2540C**					**Analyst: AAD**
Total Dissolved Solids (Residue, Filterable)	24200	10.0	10.0		mg/L	1	03/26/09 09:30 AM

Qualifiers:

	See Final Page of Report for MQLs and MDLs	J	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-MW-14
Project:	RRC Petronila GW	Lab ID:	0903142-08
Project No:	166420-04	Collection Date:	03/18/09 03:10 PM
Lab Order:	0903142	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		**SW6020**					**Analyst: CZ**
Barium	0.101	0.00300	0.0100		mg/L	1	03/24/09 10:57 PM
Calcium	1090	100	300		mg/L	1000	03/25/09 02:21 PM
Iron	14.9	0.250	0.750		mg/L	5	03/25/09 06:41 PM
Magnesium	162	10.0	30.0		mg/L	100	03/25/09 04:27 PM
Potassium	15.9	0.500	1.50		mg/L	5	03/25/09 06:41 PM
Sodium	2670	100	300		mg/L	1000	03/25/09 02:21 PM
Anions by IC method - Water		**E300**					**Analyst: DEW**
Bromide	20.2	1.50	5.00		mg/L	5	03/19/09 02:23 PM
Chloride	6480	300	1000		mg/L	1000	03/25/09 02:40 PM
Nitrate-N	ND	0.500	2.50		mg/L	5	03/19/09 02:23 PM
Sulfate	1410	100	300		mg/L	100	03/25/09 04:38 PM
Alkalinity		**M2320 B**					**Analyst: JBC**
Alkalinity, Bicarbonate (As CaCO3)	284	10.0	20.0		mg/L	1	03/23/09 12:31 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	03/23/09 12:31 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	03/23/09 12:31 PM
Alkalinity, Total (As CaCO3)	284	10.0	20.0		mg/L	1	03/23/09 12:31 PM
pH		**M4500-H+ B**					**Analyst: AAD**
pH	6.57	0	0		pH Units	1	03/19/09 02:05 PM
Specific Conductance		**M2510 B**					**Analyst: AAD**
Specific Conductance	20800	20.0	20.0		µmhos/cm	2	03/25/09 10:00 AM
Total Dissolved Solids		**M2540C**					**Analyst: AAD**
Total Dissolved Solids (Residue, Filterable)	14800	10.0	10.0		mg/L	1	03/26/09 09:30 AM

Qualifiers:

	See Final Page of Report for MQLs and MDLs	J	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

DHL Analytical

Date: 03/27/09

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-MW-13
Project:	RRC Petronila GW	Lab ID:	0903142-09
Project No:	166420-04	Collection Date:	03/18/09 03:35 PM
Lab Order:	0903142	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		**SW6020**					**Analyst: CZ**
Barium	0.167	0.00300	0.0100		mg/L	1	03/24/09 11:02 PM
Calcium	146	5.00	15.0		mg/L	50	03/25/09 01:49 PM
Iron	ND	0.0500	0.150		mg/L	1	03/24/09 11:02 PM
Magnesium	0.252	0.100	0.300	J	mg/L	1	03/25/09 04:00 PM
Potassium	21.1	5.00	15.0		mg/L	50	03/25/09 01:49 PM
Sodium	314	5.00	15.0		mg/L	50	03/25/09 01:49 PM
Anions by IC method - Water		**E300**					**Analyst: DEW**
Bromide	12.4	0.300	1.00		mg/L	1	03/19/09 02:39 PM
Chloride	713	30.0	100		mg/L	100	03/25/09 04:52 PM
Nitrate-N	ND	0.100	0.500		mg/L	1	03/19/09 02:39 PM
Sulfate	199	10.0	30.0		mg/L	10	03/26/09 10:37 AM
Alkalinity		**M2320 B**					**Analyst: JBC**
Alkalinity, Bicarbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	03/23/09 12:36 PM
Alkalinity, Carbonate (As CaCO3)	47.4	10.0	20.0		mg/L	1	03/23/09 12:36 PM
Alkalinity, Hydroxide (As CaCO3)	38.5	10.0	20.0		mg/L	1	03/23/09 12:36 PM
Alkalinity, Total (As CaCO3)	85.9	10.0	20.0		mg/L	1	03/23/09 12:36 PM
pH		**M4500-H+ B**					**Analyst: AAD**
pH	10.6	0	0		pH Units	1	03/19/09 02:06 PM
Specific Conductance		**M2510 B**					**Analyst: AAD**
Specific Conductance	2620	10.0	10.0		µmhos/cm	1	03/25/09 10:00 AM
Total Dissolved Solids		**M2540C**					**Analyst: AAD**
Total Dissolved Solids (Residue, Filterable)	1600	10.0	10.0		mg/L	1	03/26/09 09:30 AM

Qualifiers:

	See Final Page of Report for MQLs and MDLs
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between SDL and RL
N	Parameter not NELAC certified
ND	Not Detected at the SDL
RL	Reporting Limit (MQL adjusted for moisture and sample size)
S	Spike Recovery outside control limits
SDL	Sample Detection Limit

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-MW-16
Project:	RRC Petronila GW	Lab ID:	0903142-10
Project No:	166420-04	Collection Date:	03/18/09 04:20 PM
Lab Order:	0903142	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		**SW6020**					**Analyst: KW**
Barium	0.0858	0.00300	0.0100		mg/L	1	03/25/09 05:04 PM
Calcium	3160	100	300		mg/L	1000	03/25/09 01:00 PM
Iron	1.84	0.0500	0.150		mg/L	1	03/25/09 05:04 PM
Magnesium	473	100	300		mg/L	1000	03/25/09 01:00 PM
Potassium	8.41	0.100	0.300		mg/L	1	03/25/09 05:04 PM
Sodium	4150	100	300		mg/L	1000	03/25/09 01:00 PM
Anions by IC method - Water		**E300**					**Analyst: DEW**
Bromide	38.9	1.50	5.00		mg/L	5	03/19/09 02:55 PM
Chloride	14400	300	1000		mg/L	1000	03/25/09 03:24 PM
Nitrate-N	ND	0.500	2.50		mg/L	5	03/19/09 02:55 PM
Sulfate	1290	100	300		mg/L	100	03/25/09 05:07 PM
Alkalinity		**M2320 B**					**Analyst: JBC**
Alkalinity, Bicarbonate (As CaCO3)	247	10.0	20.0		mg/L	1	03/23/09 12:49 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	03/23/09 12:49 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	03/23/09 12:49 PM
Alkalinity, Total (As CaCO3)	247	10.0	20.0		mg/L	1	03/23/09 12:49 PM
pH		**M4500-H+ B**					**Analyst: AAD**
pH	6.96	0	0		pH Units	1	03/19/09 02:08 PM
Specific Conductance		**M2510 B**					**Analyst: AAD**
Specific Conductance	42000	50.0	50.0		µmhos/cm	5	03/25/09 10:00 AM
Total Dissolved Solids		**M2540C**					**Analyst: AAD**
Total Dissolved Solids (Residue, Filterable)	28600	10.0	10.0		mg/L	1	03/26/09 09:30 AM

Qualifiers:

	See Final Page of Report for MQLs and MDLs
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between SDL and RL
N	Parameter not NELAC certified
ND	Not Detected at the SDL
RL	Reporting Limit (MQL adjusted for moisture and sample size)
S	Spike Recovery outside control limits
SDL	Sample Detection Limit

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-D2-MW-12
Project:	RRC Petronila GW	Lab ID:	0903142-11
Project No:	166420-04	Collection Date:	03/18/09 10:35 AM
Lab Order:	0903142	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		**SW6020**					**Analyst: CZ**
Barium	0.0171	0.00300	0.0100		mg/L	1	03/24/09 11:48 PM
Calcium	503	10.0	30.0		mg/L	100	03/25/09 03:21 PM
Iron	0.0948	0.0500	0.150	J	mg/L	1	03/24/09 11:48 PM
Magnesium	101	10.0	30.0		mg/L	100	03/25/09 03:21 PM
Potassium	6.28	0.100	0.300		mg/L	1	03/24/09 11:48 PM
Sodium	2480	100	300		mg/L	1000	03/25/09 02:27 PM
Anions by IC method - Water		**E300**					**Analyst: DEW**
Bromide	28.5	1.50	5.00		mg/L	5	03/19/09 03:42 PM
Chloride	3150	30.0	100		mg/L	100	03/25/09 07:19 PM
Nitrate-N	6.91	0.500	2.50		mg/L	5	03/19/09 03:42 PM
Sulfate	3500	100	300		mg/L	100	03/25/09 07:19 PM
Alkalinity		**M2320 B**					**Analyst: JBC**
Alkalinity, Bicarbonate (As CaCO3)	475	10.0	20.0		mg/L	1	03/23/09 01:01 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	03/23/09 01:01 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	03/23/09 01:01 PM
Alkalinity, Total (As CaCO3)	475	10.0	20.0		mg/L	1	03/23/09 01:01 PM
pH		**M4500-H+ B**					**Analyst: AAD**
pH	7.02	0	0		pH Units	1	03/19/09 02:10 PM
Specific Conductance		**M2510 B**					**Analyst: AAD**
Specific Conductance	14200	10.0	10.0		µmhos/cm	1	03/25/09 10:00 AM
Total Dissolved Solids		**M2540C**					**Analyst: AAD**
Total Dissolved Solids (Residue, Filterable)	11000	10.0	10.0		mg/L	1	03/26/09 09:30 AM

Qualifiers:

	See Final Page of Report for MQLs and MDLs
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between SDL and RL
N	Parameter not NELAC certified
ND	Not Detected at the SDL
RL	Reporting Limit (MQL adjusted for moisture and sample size)
S	Spike Recovery outside control limits
SDL	Sample Detection Limit

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-MW-12
Project:	RRC Petronila GW	Lab ID:	0903142-12
Project No:	166420-04	Collection Date:	03/18/09 12:25 PM
Lab Order:	0903142	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		**SW6020**					**Analyst: CZ**
Barium	0.0990	0.00300	0.0100		mg/L	1	03/24/09 11:53 PM
Calcium	624	10.0	30.0		mg/L	100	03/25/09 03:26 PM
Iron	3.63	0.0500	0.150		mg/L	1	03/24/09 11:53 PM
Magnesium	137	10.0	30.0		mg/L	100	03/25/09 03:26 PM
Potassium	6.43	0.100	0.300		mg/L	1	03/24/09 11:53 PM
Sodium	2350	100	300		mg/L	1000	03/25/09 02:32 PM
Anions by IC method - Water		**E300**					**Analyst: DEW**
Bromide	72.6	1.50	5.00		mg/L	5	03/19/09 03:58 PM
Chloride	4810	30.0	100		mg/L	100	03/25/09 07:34 PM
Nitrate-N	ND	0.500	2.50		mg/L	5	03/19/09 03:58 PM
Sulfate	891	100	300		mg/L	100	03/25/09 07:34 PM
Alkalinity		**M2320 B**					**Analyst: JBC**
Alkalinity, Bicarbonate (As CaCO3)	886	10.0	20.0		mg/L	1	03/23/09 01:11 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	03/23/09 01:11 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	03/23/09 01:11 PM
Alkalinity, Total (As CaCO3)	886	10.0	20.0		mg/L	1	03/23/09 01:11 PM
pH		**M4500-H+ B**					**Analyst: AAD**
pH	6.69	0	0		pH Units	1	03/19/09 02:12 PM
Specific Conductance		**M2510 B**					**Analyst: AAD**
Specific Conductance	15300	10.0	10.0		µmhos/cm	1	03/25/09 10:00 AM
Total Dissolved Solids		**M2540C**					**Analyst: AAD**
Total Dissolved Solids (Residue, Filterable)	10600	10.0	10.0		mg/L	1	03/26/09 09:30 AM

Qualifiers:

	See Final Page of Report for MQLs and MDLs
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between SDL and RL
N	Parameter not NELAC certified
ND	Not Detected at the SDL
RL	Reporting Limit (MQL adjusted for moisture and sample size)
S	Spike Recovery outside control limits
SDL	Sample Detection Limit

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-MW-20
Project:	RRC Petronila GW	Lab ID:	0903142-13
Project No:	166420-04	Collection Date:	03/18/09 01:25 PM
Lab Order:	0903142	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		**SW6020**					**Analyst: KW**
Barium	0.0236	0.00300	0.0100		mg/L	1	03/25/09 05:42 PM
Calcium	1050	100	300		mg/L	1000	03/25/09 02:38 PM
Iron	ND	0.0500	0.150		mg/L	1	03/24/09 11:58 PM
Magnesium	339	5.00	15.0		mg/L	50	03/25/09 04:32 PM
Potassium	19.2	5.00	15.0		mg/L	50	03/25/09 04:32 PM
Sodium	6240	100	300		mg/L	1000	03/25/09 02:38 PM
Anions by IC method - Water		**E300**					**Analyst: DEW**
Bromide	38.6	1.50	5.00		mg/L	5	03/19/09 04:29 PM
Chloride	12200	300	1000		mg/L	1000	03/25/09 06:35 PM
Nitrate-N	ND	0.500	2.50		mg/L	5	03/19/09 04:29 PM
Sulfate	3120	100	300		mg/L	100	03/25/09 07:48 PM
Alkalinity		**M2320 B**					**Analyst: JBC**
Alkalinity, Bicarbonate (As CaCO3)	308	10.0	20.0		mg/L	1	03/25/09 01:16 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	03/25/09 01:16 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	03/25/09 01:16 PM
Alkalinity, Total (As CaCO3)	308	10.0	20.0		mg/L	1	03/25/09 01:16 PM
pH		**M4500-H+ B**					**Analyst: AAD**
pH	7.18	0	0		pH Units	1	03/19/09 02:13 PM
Specific Conductance		**M2510 B**					**Analyst: AAD**
Specific Conductance	39600	50.0	50.0		µmhos/cm	5	03/25/09 10:00 AM
Total Dissolved Solids		**M2540C**					**Analyst: AAD**
Total Dissolved Solids (Residue, Filterable)	24800	10.0	10.0		mg/L	1	03/26/09 09:30 AM

Qualifiers:

	See Final Page of Report for MQLs and MDLs
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between SDL and RL
N	Parameter not NELAC certified
ND	Not Detected at the SDL
RL	Reporting Limit (MQL adjusted for moisture and sample size)
S	Spike Recovery outside control limits
SDL	Sample Detection Limit

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-MW-21
Project:	RRC Petronila GW	Lab ID:	0903142-14
Project No:	166420-04	Collection Date:	03/18/09 02:15 PM
Lab Order:	0903142	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		**SW6020**					**Analyst: KW**
Barium	0.0405	0.00300	0.0100		mg/L	1	03/25/09 05:47 PM
Calcium	381	100	300		mg/L	1000	03/25/09 02:59 PM
Iron	ND	0.0500	0.150		mg/L	1	03/25/09 05:47 PM
Magnesium	100	5.00	15.0		mg/L	50	03/25/09 04:38 PM
Potassium	24.0	5.00	15.0		mg/L	50	03/25/09 04:38 PM
Sodium	9310	100	300		mg/L	1000	03/25/09 02:59 PM
Anions by IC method - Water		**E300**					**Analyst: DEW**
Bromide	56.9	1.50	5.00		mg/L	5	03/19/09 04:45 PM
Chloride	15500	300	1000		mg/L	1000	03/25/09 06:50 PM
Nitrate-N	2.65	0.500	2.50		mg/L	5	03/19/09 04:45 PM
Sulfate	2900	100	300		mg/L	100	03/25/09 08:03 PM
Alkalinity		**M2320 B**					**Analyst: JBC**
Alkalinity, Bicarbonate (As CaCO3)	601	10.0	20.0		mg/L	1	03/25/09 01:23 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	03/25/09 01:23 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	03/25/09 01:23 PM
Alkalinity, Total (As CaCO3)	601	10.0	20.0		mg/L	1	03/25/09 01:23 PM
pH		**M4500-H+ B**					**Analyst: AAD**
pH	7.15	0	0		pH Units	1	03/19/09 02:14 PM
Specific Conductance		**M2510 B**					**Analyst: AAD**
Specific Conductance	50200	50.0	50.0		µmhos/cm	5	03/25/09 10:00 AM
Total Dissolved Solids		**M2540C**					**Analyst: AAD**
Total Dissolved Solids (Residue, Filterable)	30300	10.0	10.0		mg/L	1	03/26/09 09:30 AM

Qualifiers:

	See Final Page of Report for MQLs and MDLs
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between SDL and RL
N	Parameter not NELAC certified
ND	Not Detected at the SDL
RL	Reporting Limit (MQL adjusted for moisture and sample size)
S	Spike Recovery outside control limits
SDL	Sample Detection Limit

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-MW-18
Project:	RRC Petronila GW	Lab ID:	0903142-15
Project No:	166420-04	Collection Date:	03/18/09 04:15 PM
Lab Order:	0903142	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		**SW6020**					**Analyst: KW**
Barium	0.103	0.00300	0.0100		mg/L	1	03/25/09 05:53 PM
Calcium	2730	100	300		mg/L	1000	03/25/09 03:04 PM
Iron	0.272	0.0500	0.150		mg/L	1	03/25/09 05:53 PM
Magnesium	435	5.00	15.0		mg/L	50	03/25/09 04:43 PM
Potassium	23.9	5.00	15.0		mg/L	50	03/25/09 04:43 PM
Sodium	5520	100	300		mg/L	1000	03/25/09 03:04 PM
Anions by IC method - Water		**E300**					**Analyst: DEW**
Bromide	48.0	1.50	5.00		mg/L	5	03/19/09 05:00 PM
Chloride	16500	300	1000		mg/L	1000	03/25/09 07:04 PM
Nitrate-N	0.716	0.500	2.50	J	mg/L	5	03/19/09 05:00 PM
Sulfate	1450	100	300		mg/L	100	03/25/09 08:33 PM
Alkalinity		**M2320 B**					**Analyst: JBC**
Alkalinity, Bicarbonate (As CaCO3)	271	10.0	20.0		mg/L	1	03/25/09 01:30 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	03/25/09 01:30 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	03/25/09 01:30 PM
Alkalinity, Total (As CaCO3)	271	10.0	20.0		mg/L	1	03/25/09 01:30 PM
pH		**M4500-H+ B**					**Analyst: AAD**
pH	6.89	0	0		pH Units	1	03/19/09 02:16 PM
Specific Conductance		**M2510 B**					**Analyst: AAD**
Specific Conductance	48300	50.0	50.0		µmhos/cm	5	03/25/09 10:00 AM
Total Dissolved Solids		**M2540C**					**Analyst: AAD**
Total Dissolved Solids (Residue, Filterable)	33900	10.0	10.0		mg/L	1	03/26/09 09:30 AM

Qualifiers:

	See Final Page of Report for MQLs and MDLs
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between SDL and RL
N	Parameter not NELAC certified
ND	Not Detected at the SDL
RL	Reporting Limit (MQL adjusted for moisture and sample size)
S	Spike Recovery outside control limits
SDL	Sample Detection Limit

CLIENT: TRC Environmental Corp.
Work Order: 0903142
Project: RRC Petronila GW

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_090325B

Sample ID:	MB-34031	Batch ID:	34031		TestNo:		SW6020		Units:		mg/L
SampType:	MBLK	Run ID:	ICP-MS2_090325B		Analysis Date:		03/25/09 12:44 PM		Prep Date:		03/19/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium		ND	0.0100								
Calcium		ND	0.300								
Iron		ND	0.150								
Magnesium		ND	0.300								
Potassium		ND	0.300								
Sodium		ND	0.300								

Sample ID:	LCS-34031	Batch ID:	34031		TestNo:		SW6020		Units:		mg/L
SampType:	LCS	Run ID:	ICP-MS2_090325B		Analysis Date:		03/25/09 12:50 PM		Prep Date:		03/19/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium		0.187	0.0100	0.200	0	93.3	80	120			
Calcium		4.85	0.300	5.00	0	97.1	80	120			
Iron		4.83	0.150	5.00	0	96.7	80	120			
Magnesium		4.74	0.300	5.00	0	94.8	80	120			
Potassium		4.75	0.300	5.00	0	95.1	80	120			
Sodium		4.51	0.300	5.00	0	90.1	80	120			

Sample ID:	LCSD-34031	Batch ID:	34031		TestNo:		SW6020		Units:		mg/L
SampType:	LCSD	Run ID:	ICP-MS2_090325B		Analysis Date:		03/25/09 12:55 PM		Prep Date:		03/19/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium		0.188	0.0100	0.200	0	94.2	80	120	1.01	15	
Calcium		4.87	0.300	5.00	0	97.5	80	120	0.411	15	
Iron		4.89	0.150	5.00	0	97.7	80	120	1.09	15	
Magnesium		4.81	0.300	5.00	0	96.2	80	120	1.40	15	
Potassium		4.84	0.300	5.00	0	96.9	80	120	1.92	15	
Sodium		4.54	0.300	5.00	0	90.7	80	120	0.664	15	

Sample ID:	0903142-10A SD	Batch ID:	34031		TestNo:		SW6020		Units:		mg/L
SampType:	SD	Run ID:	ICP-MS2_090325B		Analysis Date:		03/25/09 01:06 PM		Prep Date:		03/19/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium		3020	1500	0	3160				4.56	10	
Magnesium		0	1500	0	473				0	10	
Sodium		4120	1500	0	4150				0.641	10	

Sample ID:	0903142-10A PDS	Batch ID:	34031		TestNo:		SW6020		Units:		mg/L
SampType:	PDS	Run ID:	ICP-MS2_090325B		Analysis Date:		03/25/09 01:11 PM		Prep Date:		03/19/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium		7550	300	5000	3160	87.8	75	125			
Magnesium		4970	300	5000	473	89.9	75	125			
Sodium		8920	300	5000	4150	95.3	75	125			

Sample ID:	0903142-10A MS	Batch ID:	34031		TestNo:		SW6020		Units:		mg/L
SampType:	MS	Run ID:	ICP-MS2_090325B		Analysis Date:		03/25/09 01:16 PM		Prep Date:		03/19/09

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903142
Project: RRC Petronila GW

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_090325B

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	3020	300	5.00	3160	-2920	80	120			S
Magnesium	470	300	5.00	473	-60.0	80	120			S
Sodium	4060	300	5.00	4150	-1740	80	120			S

Sample ID: 0903142-10A MSD Batch ID: 34031 TestNo: SW6020 Units: mg/L
SampType: MSD Run ID: ICP-MS2_090325B Analysis Date: 03/25/09 01:22 PM Prep Date: 03/19/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	3180	300	5.00	3160	400	80	120	5.36	15	S
Magnesium	481	300	5.00	473	154	80	120	2.25	15	S
Sodium	4250	300	5.00	4150	2040	80	120	4.55	15	S

Sample ID: 0903142-10A SD Batch ID: 34031 TestNo: SW6020 Units: mg/L
SampType: SD Run ID: ICP-MS2_090325B Analysis Date: 03/25/09 05:10 PM Prep Date: 03/19/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.0857	0.0500	0	0.0858				0.163	10	
Iron	2.17	0.750	0	1.84				16.3	10	R
Potassium	8.29	1.50	0	8.41				1.45	10	

Sample ID: 0903142-10A PDS Batch ID: 34031 TestNo: SW6020 Units: mg/L
SampType: PDS Run ID: ICP-MS2_090325B Analysis Date: 03/25/09 05:15 PM Prep Date: 03/19/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.268	0.0100	0.200	0.0858	90.9	75	125			
Iron	6.25	0.150	5.00	1.84	88.1	75	125			
Potassium	12.7	0.300	5.00	8.41	85.4	75	125			

Sample ID: 0903142-10A MS Batch ID: 34031 TestNo: SW6020 Units: mg/L
SampType: MS Run ID: ICP-MS2_090325B Analysis Date: 03/25/09 05:20 PM Prep Date: 03/19/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.271	0.0100	0.200	0.0858	92.6	80	120			
Iron	6.18	0.150	5.00	1.84	86.8	80	120			
Potassium	13.9	0.300	5.00	8.41	110	80	120			

Sample ID: 0903142-10A MSD Batch ID: 34031 TestNo: SW6020 Units: mg/L
SampType: MSD Run ID: ICP-MS2_090325B Analysis Date: 03/25/09 05:26 PM Prep Date: 03/19/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.274	0.0100	0.200	0.0858	94.0	80	120	1.03	15	
Iron	6.17	0.150	5.00	1.84	86.6	80	120	0.178	15	
Potassium	13.6	0.300	5.00	8.41	105	80	120	1.89	15	

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903142
Project: RRC Petronila GW

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_090325B

Sample ID:	ICV1-090325	Batch ID:	R42533	TestNo:	SW6020	Units:	mg/L
SampType:	ICV	Run ID:	ICP-MS2_090325B	Analysis Date:	03/25/09 12:17 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.0978	0.0100	0.100	0	97.8	90	110			
Calcium	2.47	0.300	2.50	0	98.9	90	110			
Iron	2.61	0.150	2.50	0	104	90	110			
Magnesium	2.42	0.300	2.50	0	96.6	90	110			
Potassium	2.47	0.300	2.50	0	98.8	90	110			
Sodium	2.28	0.300	2.50	0	91.0	90	110			

Sample ID:	CCV1-090325	Batch ID:	R42533	TestNo:	SW6020	Units:	mg/L
SampType:	CCV	Run ID:	ICP-MS2_090325B	Analysis Date:	03/25/09 12:33 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.191	0.0100	0.200	0	95.6	90	110			
Calcium	4.97	0.300	5.00	0	99.3	90	110			
Iron	4.91	0.150	5.00	0	98.2	90	110			
Magnesium	4.80	0.300	5.00	0	96.0	90	110			
Potassium	4.89	0.300	5.00	0	97.8	90	110			
Sodium	4.71	0.300	5.00	0	94.2	90	110			

Sample ID:	CCV2-090325	Batch ID:	R42533	TestNo:	SW6020	Units:	mg/L
SampType:	CCV	Run ID:	ICP-MS2_090325B	Analysis Date:	03/25/09 01:38 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.192	0.0100	0.200	0	95.8	90	110			
Calcium	4.95	0.300	5.00	0	99.0	90	110			
Iron	4.83	0.150	5.00	0	96.7	90	110			
Magnesium	4.84	0.300	5.00	0	96.9	90	110			
Potassium	4.81	0.300	5.00	0	96.2	90	110			
Sodium	4.79	0.300	5.00	0	95.7	90	110			

Sample ID:	CCV3-090325	Batch ID:	R42533	TestNo:	SW6020	Units:	mg/L
SampType:	CCV	Run ID:	ICP-MS2_090325B	Analysis Date:	03/25/09 02:48 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	5.02	0.300	5.00	0	100	90	110			
Magnesium	4.91	0.300	5.00	0	98.2	90	110			
Potassium	4.92	0.300	5.00	0	98.3	90	110			
Sodium	4.84	0.300	5.00	0	96.8	90	110			

Sample ID:	CCV4-090325	Batch ID:	R42533	TestNo:	SW6020	Units:	mg/L
SampType:	CCV	Run ID:	ICP-MS2_090325B	Analysis Date:	03/25/09 03:48 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	4.87	0.300	5.00	0	97.4	90	110			
Magnesium	4.80	0.300	5.00	0	96.0	90	110			
Potassium	4.78	0.300	5.00	0	95.7	90	110			
Sodium	4.72	0.300	5.00	0	94.4	90	110			

Sample ID:	CCV5-090325	Batch ID:	R42533	TestNo:	SW6020	Units:	mg/L

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903142
Project: RRC Petronila GW

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_090325B

SampType:	CCV	Run ID:	ICP-MS2_090325B		Analysis Date:		03/25/09 04:48 PM		Prep Date:		
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium		0.189	0.0100	0.200	0	94.4	90	110			
Iron		4.88	0.150	5.00	0	97.5	90	110			
Magnesium		4.80	0.300	5.00	0	96.0	90	110			
Potassium		4.86	0.300	5.00	0	97.3	90	110			

Sample ID:	CCV6-090325	Batch ID:	R42533		TestNo:		SW6020		Units:		mg/L
SampType:	CCV	Run ID:	ICP-MS2_090325B		Analysis Date:		03/25/09 06:09 PM		Prep Date:		
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium		0.191	0.0100	0.200	0	95.7	90	110			
Iron		4.90	0.150	5.00	0	98.0	90	110			
Potassium		5.20	0.300	5.00	0	104	90	110			

Sample ID:	CCV7-090325	Batch ID:	R42533		TestNo:		SW6020		Units:		mg/L
SampType:	CCV	Run ID:	ICP-MS2_090325B		Analysis Date:		03/25/09 07:13 PM		Prep Date:		
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium		0.193	0.0100	0.200	0	96.4	90	110			
Iron		4.84	0.150	5.00	0	96.9	90	110			
Potassium		5.00	0.300	5.00	0	100	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903142
Project: RRC Petronila GW

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_090324A

Sample ID:	ICV1-090324	Batch ID:	R42485	TestNo:	SW6020	Units:	mg/L
SampType:	ICV	Run ID:	ICP-MS3_090324A	Analysis Date:	03/24/09 12:33 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.0991	0.0100	0.100	0	99.1	90	110			
Iron	2.71	0.150	2.50	0	108	90	110			
Potassium	2.46	0.300	2.50	0	98.2	90	110			

Sample ID:	CCV9-090324	Batch ID:	R42485	TestNo:	SW6020	Units:	mg/L
SampType:	CCV	Run ID:	ICP-MS3_090324A	Analysis Date:	03/24/09 09:45 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.186	0.0100	0.200	0	93.2	90	110			
Iron	4.92	0.150	5.00	0	98.5	90	110			

Sample ID:	CCV10-090324	Batch ID:	R42485	TestNo:	SW6020	Units:	mg/L
SampType:	CCV	Run ID:	ICP-MS3_090324A	Analysis Date:	03/24/09 11:12 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.192	0.0100	0.200	0	96.2	90	110			
Iron	4.96	0.150	5.00	0	99.1	90	110			
Potassium	4.95	0.300	5.00	0	99.0	90	110			

Sample ID:	CCV11-090324	Batch ID:	R42485	TestNo:	SW6020	Units:	mg/L
SampType:	CCV	Run ID:	ICP-MS3_090324A	Analysis Date:	03/25/09 12:14 AM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.201	0.0100	0.200	0	101	90	110			
Iron	4.75	0.150	5.00	0	95.0	90	110			
Potassium	4.96	0.300	5.00	0	99.2	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903142
Project: RRC Petronila GW

ANALYTICAL QC SUMMARY REPORT

RunID: IC_090319A

Sample ID:	LCS-34023	Batch ID:	34023		TestNo:		E300		Units:		mg/L
SampType:	LCS	Run ID:	IC_090319A		Analysis Date:		03/19/09 09:45 AM		Prep Date:		03/19/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide		21.3	1.00	20.00	0	106	90	110			
Nitrate-N		5.33	0.500	5.000	0	107	90	110			

Sample ID:	MB-34023	Batch ID:	34023		TestNo:		E300		Units:		mg/L
SampType:	MBLK	Run ID:	IC_090319A		Analysis Date:		03/19/09 10:17 AM		Prep Date:		03/19/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide		ND	1.00								
Nitrate-N		ND	0.500								

Sample ID:	LCSD-34023	Batch ID:	34023		TestNo:		E300		Units:		mg/L
SampType:	LCSD	Run ID:	IC_090319A		Analysis Date:		03/19/09 10:32 AM		Prep Date:		03/19/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide		21.4	1.00	20.00	0	107	90	110	0.402	20	
Nitrate-N		5.37	0.500	5.000	0	107	90	110	0.654	20	

Sample ID:	0903142-10BMS	Batch ID:	34023		TestNo:		E300		Units:		mg/L
SampType:	MS	Run ID:	IC_090319A		Analysis Date:		03/19/09 03:11 PM		Prep Date:		03/19/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide		131	5.00	100.0	23.31	108	90	110			
Nitrate-N		26.3	2.50	25.00	0	105	90	110			

Sample ID:	0903142-10BMSD	Batch ID:	34023		TestNo:		E300		Units:		mg/L
SampType:	MSD	Run ID:	IC_090319A		Analysis Date:		03/19/09 03:26 PM		Prep Date:		03/19/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide		131	5.00	100.0	23.31	108	90	110	0	20	
Nitrate-N		26.4	2.50	25.00	0	106	90	110	0.300	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903142
Project: RRC Petronila GW

ANALYTICAL QC SUMMARY REPORT

RunID: IC_090319A

Sample ID:	ICV-090319	Batch ID:	R42402		TestNo:		E300		Units:		mg/L
SampType:	ICV	Run ID:	IC_090319A		Analysis Date:		03/19/09 09:29 AM		Prep Date:		03/19/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide		54.6	1.00	50.00	0	109	90	110			
Nitrate-N		13.7	0.500	12.50	0	109	90	110			

Sample ID:	CCV1-090319	Batch ID:	R42402		TestNo:		E300		Units:		mg/L
SampType:	CCV	Run ID:	IC_090319A		Analysis Date:		03/19/09 01:36 PM		Prep Date:		03/19/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide		21.2	1.00	20.00	0	106	90	110			
Nitrate-N		5.30	0.500	5.000	0	106	90	110			

Sample ID:	CCV2-090319	Batch ID:	R42402		TestNo:		E300		Units:		mg/L
SampType:	CCV	Run ID:	IC_090319A		Analysis Date:		03/19/09 04:13 PM		Prep Date:		03/19/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide		20.5	1.00	20.00	0	103	90	110			
Nitrate-N		5.16	0.500	5.000	0	103	90	110			

Sample ID:	CCV3-090319	Batch ID:	R42402		TestNo:		E300		Units:		mg/L
SampType:	CCV	Run ID:	IC_090319A		Analysis Date:		03/19/09 05:48 PM		Prep Date:		03/19/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide		20.6	1.00	20.00	0	103	90	110			
Nitrate-N		5.16	0.500	5.000	0	103	90	110			

Sample ID:	ICV2-090319	Batch ID:	R42402		TestNo:		E300		Units:		mg/L
SampType:	ICV	Run ID:	IC_090319A		Analysis Date:		03/19/09 06:08 PM		Prep Date:		03/19/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide		55.0	1.00	50.00	0	110	90	110			

Sample ID:	CCV4-090319	Batch ID:	R42402		TestNo:		E300		Units:		mg/L
SampType:	CCV	Run ID:	IC_090319A		Analysis Date:		03/19/09 07:28 PM		Prep Date:		03/19/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide		20.6	1.00	20.00	0	103	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903142
Project: RRC Petronila GW

ANALYTICAL QC SUMMARY REPORT

RunID: IC_090325A

Sample ID:	LCS-34023	Batch ID:	34023		TestNo:		E300		Units:		mg/L
SampType:	LCS	Run ID:	IC_090325A		Analysis Date:		03/25/09 09:32 AM		Prep Date:		03/19/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		10.2	1.00	10.00	0	102	90	110			
Sulfate		30.9	3.00	30.00	0	103	90	110			

Sample ID:	LCSD-34023	Batch ID:	34023		TestNo:		E300		Units:		mg/L
SampType:	LCSD	Run ID:	IC_090325A		Analysis Date:		03/25/09 09:48 AM		Prep Date:		03/19/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		10.2	1.00	10.00	0	102	90	110	0.229	20	
Sulfate		30.8	3.00	30.00	0	103	90	110	0.225	20	

Sample ID:	MB-34023	Batch ID:	34023		TestNo:		E300		Units:		mg/L
SampType:	MBLK	Run ID:	IC_090325A		Analysis Date:		03/25/09 10:04 AM		Prep Date:		03/19/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		ND	1.00	0							
Sulfate		ND	3.00	0							

Sample ID:	0903142-01B MS	Batch ID:	34023		TestNo:		E300		Units:		mg/L
SampType:	MS	Run ID:	IC_090325A		Analysis Date:		03/25/09 11:44 AM		Prep Date:		03/19/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		17600	1000	10000	7429	102	90	110			

Sample ID:	0903142-01B MSD	Batch ID:	34023		TestNo:		E300		Units:		mg/L
SampType:	MSD	Run ID:	IC_090325A		Analysis Date:		03/25/09 11:59 AM		Prep Date:		03/19/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		17600	1000	10000	7429	101	90	110	0.420	20	

Sample ID:	0903142-01B MS	Batch ID:	34023		TestNo:		E300		Units:		mg/L
SampType:	MS	Run ID:	IC_090325A		Analysis Date:		03/25/09 12:43 PM		Prep Date:		03/19/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Sulfate		4710	300	3000	1617	103	90	110			

Sample ID:	0903142-01B MSD	Batch ID:	34023		TestNo:		E300		Units:		mg/L
SampType:	MSD	Run ID:	IC_090325A		Analysis Date:		03/25/09 12:58 PM		Prep Date:		03/19/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Sulfate		4700	300	3000	1617	103	90	110	0.254	20	

Sample ID:	0903142-10B MS	Batch ID:	34023		TestNo:		E300		Units:		mg/L
SampType:	MS	Run ID:	IC_090325A		Analysis Date:		03/25/09 03:39 PM		Prep Date:		03/19/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		18500	1000	10000	8632	99.0	90	110			

Sample ID:	0903142-10B MSD	Batch ID:	34023		TestNo:		E300		Units:		mg/L
SampType:	MSD	Run ID:	IC_090325A		Analysis Date:		03/25/09 03:54 PM		Prep Date:		03/19/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		18600	1000	10000	8632	99.3	90	110	0.192	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903142
Project: RRC Petronila GW

ANALYTICAL QC SUMMARY REPORT

RunID: IC_090325A

Sample ID:	0903142-10B MS	Batch ID:	34023		TestNo:		E300		Units:		mg/L
SampType:	MS	Run ID:	IC_090325A		Analysis Date:		03/25/09 05:22 PM		Prep Date:		03/19/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Sulfate		3840	300	3000	775.6	102	90	110			

Sample ID:	0903142-10B MSD	Batch ID:	34023		TestNo:		E300		Units:		mg/L
SampType:	MSD	Run ID:	IC_090325A		Analysis Date:		03/25/09 05:51 PM		Prep Date:		03/19/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Sulfate		3850	300	3000	775.6	102	90	110	0.212	20	

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903142
Project: RRC Petronila GW

ANALYTICAL QC SUMMARY REPORT

RunID: IC_090325A

Sample ID:	ICV-090325	Batch ID:	R42519		TestNo:		E300		Units:		mg/L
SampType:	ICV	Run ID:	IC_090325A		Analysis Date:		03/25/09 09:03 AM		Prep Date:		03/25/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		26.1	1.00	25.00	0	104	90	110			
Sulfate		79.3	3.00	75.00	0	106	90	110			

Sample ID:	CCV1-090325	Batch ID:	R42519		TestNo:		E300		Units:		mg/L
SampType:	CCV	Run ID:	IC_090325A		Analysis Date:		03/25/09 12:14 PM		Prep Date:		03/25/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		10.2	1.00	10.00	0	102	90	110			
Sulfate		30.9	3.00	30.00	0	103	90	110			

Sample ID:	CCV2-090325	Batch ID:	R42519		TestNo:		E300		Units:		mg/L
SampType:	CCV	Run ID:	IC_090325A		Analysis Date:		03/25/09 02:55 PM		Prep Date:		03/25/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		10.2	1.00	10.00	0	102	90	110			
Sulfate		31.0	3.00	30.00	0	103	90	110			

Sample ID:	CCV3-090325	Batch ID:	R42519		TestNo:		E300		Units:		mg/L
SampType:	CCV	Run ID:	IC_090325A		Analysis Date:		03/25/09 05:36 PM		Prep Date:		03/25/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		10.2	1.00	10.00	0	102	90	110			
Sulfate		30.7	3.00	30.00	0	102	90	110			

Sample ID:	CCV4-090325	Batch ID:	R42519		TestNo:		E300		Units:		mg/L
SampType:	CCV	Run ID:	IC_090325A		Analysis Date:		03/25/09 08:18 PM		Prep Date:		03/25/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		10.2	1.00	10.00	0	102	90	110			
Sulfate		31.0	3.00	30.00	0	103	90	110			

Sample ID:	CCV5-090325	Batch ID:	R42519		TestNo:		E300		Units:		mg/L
SampType:	CCV	Run ID:	IC_090325A		Analysis Date:		03/25/09 08:47 PM		Prep Date:		03/25/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Sulfate		30.8	3.00	30.00	0	103	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903142
Project: RRC Petronila GW

ANALYTICAL QC SUMMARY REPORT

RunID: IC_090326A

Sample ID:	LCS-34023	Batch ID:	34023		TestNo:		E300		Units:		mg/L
SampType:	LCS	Run ID:	IC_090326A		Analysis Date:		03/26/09 09:34 AM		Prep Date:		03/19/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Sulfate		30.9	3.00	30.00	0	103	90	110			

Sample ID:	LCSD-34023	Batch ID:	34023		TestNo:		E300		Units:		mg/L
SampType:	LCSD	Run ID:	IC_090326A		Analysis Date:		03/26/09 09:50 AM		Prep Date:		03/19/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Sulfate		31.1	3.00	30.00	0	104	90	110	0.420	20	

Sample ID:	MB-34023	Batch ID:	34023		TestNo:		E300		Units:		mg/L
SampType:	MBLK	Run ID:	IC_090326A		Analysis Date:		03/26/09 10:05 AM		Prep Date:		03/19/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Sulfate		ND	3.00								

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903142
Project: RRC Petronila GW

ANALYTICAL QC SUMMARY REPORT

RunID: IC_090326A

Sample ID:	ICV-090326	Batch ID:	R42536	TestNo:	E300			Units:	mg/L	
SampType:	ICV	Run ID:	IC_090326A	Analysis Date:	03/26/09 09:12 AM			Prep Date:	03/26/09	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit Qual
Sulfate		79.1	3.00	75.00	0	106	90	110		

Sample ID:	CCV1-090326	Batch ID:	R42536	TestNo:	E300			Units:	mg/L	
SampType:	CCV	Run ID:	IC_090326A	Analysis Date:	03/26/09 11:08 AM			Prep Date:	03/26/09	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit Qual
Sulfate		31.2	3.00	30.00	0	104	90	110		

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903142
Project: RRC Petronila GW

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_090319A

Sample ID:	0903142-10B-DUP	Batch ID:	34047	TestNo:	M4500-H+ B			Units:		pH Units
SampType:	DUP	Run ID:	TITRATOR_090319A	Analysis Date:	03/19/09 02:09 PM			Prep Date:		03/19/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit HighLimit	%RPD	RPD Limit	Qual
pH		6.58	0	0	6.960			5.61	5	R

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903142
Project: RRC Petronila GW

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_090319A

Sample ID:	ICV-090319	Batch ID:	R42416	TestNo:		M4500-H+ B		Units:		pH Units
SampType:	ICV	Run ID:	TITRATOR_090319A	Analysis Date:		03/19/09 01:55 PM		Prep Date:		03/19/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit Qual
pH		9.97	0	10.00	0	99.7	99	101		

Sample ID:	CCV1-090319	Batch ID:	R42416	TestNo:		M4500-H+ B		Units:		pH Units
SampType:	CCV	Run ID:	TITRATOR_090319A	Analysis Date:		03/19/09 02:04 PM		Prep Date:		03/19/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit Qual
pH		7.02	0	7.000	0	100	97.1	102.9		

Sample ID:	CCV2-090319	Batch ID:	R42416	TestNo:		M4500-H+ B		Units:		pH Units
SampType:	CCV	Run ID:	TITRATOR_090319A	Analysis Date:		03/19/09 02:17 PM		Prep Date:		03/19/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit Qual
pH		7.02	0	7.000	0	100	97.1	102.9		

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903142
Project: RRC Petronila GW

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_090323B

Sample ID:	MB-34091	Batch ID:	34091	TestNo:	M2320 B	Units:	mg/L
SampType:	MBLK	Run ID:	TITRATOR_090323B	Analysis Date:	03/23/09 10:36 AM	Prep Date:	03/23/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	ND	20.0								
Alkalinity, Carbonate (As CaCO3)	ND	20.0								
Alkalinity, Hydroxide (As CaCO3)	ND	20.0								
Alkalinity, Total (As CaCO3)	ND	20.0								

Sample ID:	LCS-34091	Batch ID:	34091	TestNo:	M2320 B	Units:	mg/L
SampType:	LCS	Run ID:	TITRATOR_090323B	Analysis Date:	03/23/09 10:40 AM	Prep Date:	03/23/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	54.4	20.0	50.00	0	109	74	129			

Sample ID:	0903125-01B DUP	Batch ID:	34091	TestNo:	M2320 B	Units:	mg/L
SampType:	DUP	Run ID:	TITRATOR_090323B	Analysis Date:	03/23/09 10:55 AM	Prep Date:	03/23/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	204	20.0	0	208.4				2.13	20	
Alkalinity, Carbonate (As CaCO3)	0	20.0	0	0				0	20	
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0	0				0	20	
Alkalinity, Total (As CaCO3)	204	20.0	0	208.4				2.13	20	

Sample ID:	0903142-10B DUP	Batch ID:	34091	TestNo:	M2320 B	Units:	mg/L
SampType:	DUP	Run ID:	TITRATOR_090323B	Analysis Date:	03/23/09 12:56 PM	Prep Date:	03/23/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	246	20.0	0	247.3				0.649	20	
Alkalinity, Carbonate (As CaCO3)	0	20.0	0	0				0	20	
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0	0				0	20	
Alkalinity, Total (As CaCO3)	246	20.0	0	247.3				0.649	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903142
Project: RRC Petronila GW

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_090323B

Sample ID:	ICV-090323	Batch ID:	R42457	TestNo:	M2320 B	Units:	mg/L
SampType:	ICV	Run ID:	TITRATOR_090323B	Analysis Date:	03/23/09 10:32 AM	Prep Date:	03/23/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	9.60	20.0	0							
Alkalinity, Carbonate (As CaCO3)	90.6	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0							
Alkalinity, Total (As CaCO3)	100	20.0	100.0	0	100	98	102			

Sample ID:	CCV1-090323	Batch ID:	R42457	TestNo:	M2320 B	Units:	mg/L
SampType:	CCV	Run ID:	TITRATOR_090323B	Analysis Date:	03/23/09 11:25 AM	Prep Date:	03/23/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	14.0	20.0	0							
Alkalinity, Carbonate (As CaCO3)	89.1	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0							
Alkalinity, Total (As CaCO3)	103	20.0	100.0	0	103	90	110			

Sample ID:	CCV2-090323	Batch ID:	R42457	TestNo:	M2320 B	Units:	mg/L
SampType:	CCV	Run ID:	TITRATOR_090323B	Analysis Date:	03/23/09 12:41 PM	Prep Date:	03/23/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	21.4	20.0	0							
Alkalinity, Carbonate (As CaCO3)	81.4	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0							
Alkalinity, Total (As CaCO3)	103	20.0	100.0	0	103	90	110			

Sample ID:	CCV3-090323	Batch ID:	R42457	TestNo:	M2320 B	Units:	mg/L
SampType:	CCV	Run ID:	TITRATOR_090323B	Analysis Date:	03/23/09 01:16 PM	Prep Date:	03/23/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	16.5	20.0	0							
Alkalinity, Carbonate (As CaCO3)	86.1	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0							
Alkalinity, Total (As CaCO3)	103	20.0	100.0	0	103	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903142
Project: RRC Petronila GW

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_090325A

Sample ID:	MB-34132	Batch ID:	34132		TestNo:		M2320 B		Units:		mg/L
SampType:	MBLK	Run ID:	TITRATOR_090325A		Analysis Date:		03/25/09 12:50 PM		Prep Date:		03/25/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)		ND	20.0								
Alkalinity, Carbonate (As CaCO3)		ND	20.0								
Alkalinity, Hydroxide (As CaCO3)		ND	20.0								
Alkalinity, Total (As CaCO3)		ND	20.0								

Sample ID:	LCS-34132	Batch ID:	34132		TestNo:		M2320 B		Units:		mg/L
SampType:	LCS	Run ID:	TITRATOR_090325A		Analysis Date:		03/25/09 12:54 PM		Prep Date:		03/25/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)		54.8	20.0	50.00	0	110	74	129			

Sample ID:	0903151-02B DUP	Batch ID:	34132		TestNo:		M2320 B		Units:		mg/L
SampType:	DUP	Run ID:	TITRATOR_090325A		Analysis Date:		03/25/09 01:48 PM		Prep Date:		03/25/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)		256	20.0	0	260.2				1.59	20	
Alkalinity, Carbonate (As CaCO3)		0	20.0	0	0				0	20	
Alkalinity, Hydroxide (As CaCO3)		0	20.0	0	0				0	20	
Alkalinity, Total (As CaCO3)		256	20.0	0	260.2				1.59	20	

Sample ID:	0903165-01B DUP	Batch ID:	34132		TestNo:		M2320 B		Units:		mg/L
SampType:	DUP	Run ID:	TITRATOR_090325A		Analysis Date:		03/25/09 03:36 PM		Prep Date:		03/25/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)		292	20.0	0	294.4				0.784	20	
Alkalinity, Carbonate (As CaCO3)		0	20.0	0	0				0	20	
Alkalinity, Hydroxide (As CaCO3)		0	20.0	0	0				0	20	
Alkalinity, Total (As CaCO3)		292	20.0	0	294.4				0.784	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903142
Project: RRC Petronila GW

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_090325A

Sample ID:	ICV-090325	Batch ID:	R42524	TestNo:	M2320 B	Units:	mg/L
SampType:	ICV	Run ID:	TITRATOR_090325A	Analysis Date:	03/25/09 12:48 PM	Prep Date:	03/25/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	11.4	20.0	0							
Alkalinity, Carbonate (As CaCO3)	89.3	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0							
Alkalinity, Total (As CaCO3)	101	20.0	100.0	0	101	98	102			

Sample ID:	CCV1-090325	Batch ID:	R42524	TestNo:	M2320 B	Units:	mg/L
SampType:	CCV	Run ID:	TITRATOR_090325A	Analysis Date:	03/25/09 02:06 PM	Prep Date:	03/25/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	18.8	20.0	0							
Alkalinity, Carbonate (As CaCO3)	82.1	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0							
Alkalinity, Total (As CaCO3)	101	20.0	100.0	0	101	90	110			

Sample ID:	CCV2-090325	Batch ID:	R42524	TestNo:	M2320 B	Units:	mg/L
SampType:	CCV	Run ID:	TITRATOR_090325A	Analysis Date:	03/25/09 03:29 PM	Prep Date:	03/25/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	25.0	20.0	0							
Alkalinity, Carbonate (As CaCO3)	76.0	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0							
Alkalinity, Total (As CaCO3)	101	20.0	100.0	0	101	90	110			

Sample ID:	CCV3-090325	Batch ID:	R42524	TestNo:	M2320 B	Units:	mg/L
SampType:	CCV	Run ID:	TITRATOR_090325A	Analysis Date:	03/25/09 03:55 PM	Prep Date:	03/25/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	21.5	20.0	0							
Alkalinity, Carbonate (As CaCO3)	79.4	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0							
Alkalinity, Total (As CaCO3)	101	20.0	100.0	0	101	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903142
Project: RRC Petronila GW

ANALYTICAL QC SUMMARY REPORT

RunID: WC_090324A

Sample ID:	MB-34109	Batch ID:	34109		TestNo:	M2540C			Units:		mg/L
SampType:	MBLK	Run ID:	WC_090324A		Analysis Date:	03/24/09 11:00 AM			Prep Date:		03/24/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Fi		10.0	10.0								

Sample ID:	LCS-34109	Batch ID:	34109		TestNo:	M2540C			Units:		mg/L
SampType:	LCS	Run ID:	WC_090324A		Analysis Date:	03/24/09 11:00 AM			Prep Date:		03/24/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Fi		740	10.0	745.6	0	99.2	90	113			

Sample ID:	0903125-07B-DUP	Batch ID:	34109		TestNo:	M2540C			Units:		mg/L
SampType:	DUP	Run ID:	WC_090324A		Analysis Date:	03/24/09 11:00 AM			Prep Date:		03/24/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Fi		53700	10.0	0	53880				0.372	5	

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903142
Project: RRC Petronila GW

ANALYTICAL QC SUMMARY REPORT

RunID: WC_090325A

Sample ID:	MB-34125	Batch ID:	34125		TestNo:	M2510 B			Units:		µmhos/cm
SampType:	MBLK	Run ID:	WC_090325A		Analysis Date:	03/25/09 10:00 AM			Prep Date:		03/25/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Specific Conductance		ND	10.0								

Sample ID:	LCS-34125	Batch ID:	34125		TestNo:	M2510 B			Units:		µmhos/cm
SampType:	LCS	Run ID:	WC_090325A		Analysis Date:	03/25/09 10:00 AM			Prep Date:		03/25/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Specific Conductance		1380	10.0	1413	0	97.7	95	105			

Sample ID:	0903149-05B-DUP	Batch ID:	34125		TestNo:	M2510 B			Units:		µmhos/cm
SampType:	DUP	Run ID:	WC_090325A		Analysis Date:	03/25/09 10:00 AM			Prep Date:		03/25/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Specific Conductance		3360	10.0	0	3360				0	2	

Sample ID:	0903142-10B-DUP	Batch ID:	34125		TestNo:	M2510 B			Units:		µmhos/cm
SampType:	DUP	Run ID:	WC_090325A		Analysis Date:	03/25/09 10:00 AM			Prep Date:		03/25/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Specific Conductance		42300	50.0	0	42000				0.712	2	

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903142
Project: RRC Petronila GW

ANALYTICAL QC SUMMARY REPORT

RunID: WC_090325A

Sample ID:	ICV-090325	Batch ID:	CONDW-03/25/09	TestNo:		M2510 B		Units:		µmhos/cm
SampType:	ICV	Run ID:	WC_090325A	Analysis Date:		03/25/09 10:00 AM		Prep Date:		03/25/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit Qual
Specific Conductance		12900	10.0	12880	0	100	95	105		

Sample ID:	CCV1-090325	Batch ID:	CONDW-03/25/09	TestNo:		M2510 B		Units:		µmhos/cm
SampType:	CCV	Run ID:	WC_090325A	Analysis Date:		03/25/09 10:00 AM		Prep Date:		03/25/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit Qual
Specific Conductance		12800	10.0	12880	0	99.3	95	105		

Sample ID:	CCV2-090325	Batch ID:	CONDW-03/25/09	TestNo:		M2510 B		Units:		µmhos/cm
SampType:	CCV	Run ID:	WC_090325A	Analysis Date:		03/25/09 10:00 AM		Prep Date:		03/25/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit Qual
Specific Conductance		13000	10.0	12880	0	101	95	105		

Sample ID:	CCV3-090325	Batch ID:	CONDW-03/25/09	TestNo:		M2510 B		Units:		µmhos/cm
SampType:	CCV	Run ID:	WC_090325A	Analysis Date:		03/25/09 10:00 AM		Prep Date:		03/25/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit Qual
Specific Conductance		12600	10.0	12880	0	98.2	95	105		

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903142
Project: RRC Petronila GW

ANALYTICAL QC SUMMARY REPORT

RunID: WC_090325B

Sample ID:	MB-34138	Batch ID:	34138		TestNo:	M2540C			Units:		mg/L
SampType:	MBLK	Run ID:	WC_090325B		Analysis Date:	03/26/09 09:30 AM			Prep Date:		03/25/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Fi		ND	10.0								

Sample ID:	LCS-34138	Batch ID:	34138		TestNo:	M2540C			Units:		mg/L
SampType:	LCS	Run ID:	WC_090325B		Analysis Date:	03/26/09 09:30 AM			Prep Date:		03/25/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Fi		754	10.0	745.6	0	101	90	113			

Sample ID:	0903142-10B-DUP	Batch ID:	34138		TestNo:	M2540C			Units:		mg/L
SampType:	DUP	Run ID:	WC_090325B		Analysis Date:	03/26/09 09:30 AM			Prep Date:		03/25/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Fi		27800	10.0	0	28580				2.77	5	

Sample ID:	0903151-02B-DUP	Batch ID:	34138		TestNo:	M2540C			Units:		mg/L
SampType:	DUP	Run ID:	WC_090325B		Analysis Date:	03/26/09 09:30 AM			Prep Date:		03/25/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Fi		22400	10.0	0	22040				1.80	5	

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903142
Project: RRC Petronila GW

MQL SUMMARY REPORT

TestNo: E300 Analyte	MDL mg/L	MQL mg/L
Bromide	0.300	1.00
Chloride	0.300	1.00
Nitrate-N	0.100	0.500
Sulfate	1.00	3.00

TestNo: M2320 B Analyte	MDL mg/L	MQL mg/L
Alkalinity, Bicarbonate (As CaCO3)	10.0	20.0
Alkalinity, Carbonate (As CaCO3)	10.0	20.0
Alkalinity, Hydroxide (As CaCO3)	10.0	20.0
Alkalinity, Total (As CaCO3)	10.0	20.0

TestNo: SW6020 Analyte	MDL mg/L	MQL mg/L
Barium	0.00300	0.0100
Calcium	0.100	0.300
Iron	0.0500	0.150
Magnesium	0.100	0.300
Potassium	0.100	0.300
Sodium	0.100	0.300

TestNo: M2510 B Analyte	MDL µmhos/cm	MQL µmhos/cm
Specific Conductance	10.0	10.0

TestNo: M2540C Analyte	MDL mg/L	MQL mg/L
Total Dissolved Solids (Residue, Fi	10.0	10.0

Qualifiers:
MQL - Method Quantitation Limit as defined by TRRP
MDL - Method Detection Limit as defined by TRRP

April 03, 2009

James Harte
TRC Environmental Corp.
505 East Huntland Drive Suite 250
Austin, Texas 78752

TEL: (512) 329-6080
FAX: (512) 329-8750

Order No: 0903151

RE: RRC Petronila PZ/SW

Dear James Harte:

DHL Analytical received 4 sample(s) on 3/20/2009 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

John DuPont
Lab Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-08C-TX

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DHL ANALYTICAL

2300 Double Creek Drive • Round Rock, TX 78664
Phone (512) 388-8222 • FAX (512) 388-8229

№ 31308

CHAIN-OF-CUSTODY

CLIENT: TRC
ADDRESS: 505 E. Huntland Dr Ste 250
PHONE: 512-329-6080 FAX 512-329-8250
DATA REPORTED TO: J. Hare
ADDITIONAL REPORT COPIES TO: S. Miller

DATE: 3/19/09 PAGE 1 OF 1
PO #: DHL WORK ORDER #: 090315
PROJECT LOCATION OR NAME: PRC Petronila PZ/SW
CLIENT PROJECT #: 166420-02 COLLECTOR: BCG

Authorize 5% surcharge for TRRP report? ☐ Yes ☒ No

S=SOIL W=WATER A=AIR P=PAINT SL=SLUDGE OT=OTHER

PRESERVATION: HCl, HNO_3, H_2SO_4, NaOH, ICE, UNPRESERVED

ANALYSES: BTEX MTBE; TRPH 418.1; TPH 1005; TPH 1006; GASOLINE MOD 8015; DIESEL - MOD 8015; VOC 8260; SVOC 8270; PAH 8270; HOLD PAH; 8081 PESTICIDES; 8151 HERBICIDES; 8082 PCBS; TCLP - METALS (RCRA); TCLP VOC; TCLP - PEST; HERB; Semi-VOC; TOTAL METALS (RCRA); OTHER UST; LEAD - TOTAL; D.W. 200.8; TCLP; RCI; TOX; FLASHPOINT; TDS; TSS; % MOISTURE; CYANIDE; PH; HEXAVALENT CHROMIUM; EXPLOSIVES; PECHLORATE; CHLORIDE; ANIONS; ALKALINITY; CATIONS; Carbonate and bicarbonate

Field Sample I.D.	DHL Lab #	Date	Time	Matrix	Container Type	# of Containers	FIELD NOTES
P-PZ-08 01	01	3/19/09	1100	W	500,250	2	Anions: Cl, Br, Sulfate, Nitrate
~~P-PZ-05~~ (Br)							
~~P-PZ-06~~ (BC)							
P-PZ-07	02		1615	W	500,250	2	Cations: Ca, Na, Mg, K, Fe, Ba
P-PZ07	02		1615	W		2	MS
P-PZ-07	02		1615	W		2	MSD
P-PZ-07-D	03		1615	W		2	
P-PZ-08	04		1720	W		2	

TOTAL

RELINQUISHED BY: (Signature) DATE/TIME 3/19/09 1815 RECEIVED BY: (Signature) FedEx
RELINQUISHED BY: (Signature) FedEx DATE/TIME 3/20/09 0830 RECEIVED BY: (Signature) Alhanneck
RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature)

☐ DHL DISPOSAL @ $5.00 each ☐ Return

TURN AROUND TIME
RUSH ☐ CALL FIRST
1 DAY ☐ CALL FIRST
2 DAY ☐
NORMAL ☑
OTHER ☐ ____

LABORATORY USE ONLY:
RECEIVING TEMP: 2.5°C THERM #: 57
CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED
☒ CARRIER BILL # FedEx
☐ APC DELIVERY
☐ HAND DELIVERED

FedEx. US Airbill
Express

FedEx Tracking Number 8686 4644 9991

0200 Recipient's Copy

1 From
Date 3/19/09
Sender's Name Barrett Clark Phone 512 329-6080
Company TRC
Address 505 E. Huntland Dr 250
Dept./Floor/Suite/Room
City Austin State TX ZIP 78752

2 Your Internal Billing Reference 166420-04

3 To
Recipient's Name Receiving Phone 512 388-8223
Company DHL Analytical
Recipient's Address 2300 Double Creek Dr
We cannot deliver to P.O. boxes or P.O. ZIP codes.
Dept/Floor/Suite/Room
Address
To request a package be held at a specific FedEx location, print FedEx address here.
City Round Rock State TX ZIP 78664

8686 4644 9991

4a Express Package Service — *Packages up to 150 lbs.*
- [X] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.
- [ ] FedEx 2Day — Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

FedEx Envelope rate not available. Minimum charge: One-pound rate. * To most locations.

4b Express Freight Service — *Packages over 150 lbs.*
- [ ] FedEx 1Day Freight* — Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 2Day Freight — Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available.

* Call for Confirmation: ** To most locations.

5 Packaging
- [ ] FedEx Envelope*
- [ ] FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak.
- [ ] FedEx Box
- [ ] FedEx Tube
- [ ] Other * Declared value limit $500.

6 Special Handling — Include FedEx address in Section 3.
- [ ] SATURDAY Delivery — Not available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.
- [ ] HOLD Weekday at FedEx Location — Not available for FedEx First Overnight.
- [ ] HOLD Saturday at FedEx Location — Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Does this shipment contain dangerous goods? One box must be checked.
- [X] No
- [ ] Yes — As per attached Shipper's Declaration.
- [ ] Yes — Shipper's Declaration not required.
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ kg
- [ ] Cargo Aircraft Only

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging.

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below. Obtain Recip. Acct. No. [ ]
- [X] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

Total Packages	Total Weight	Total Declared Value†
1	5.0	$ .00

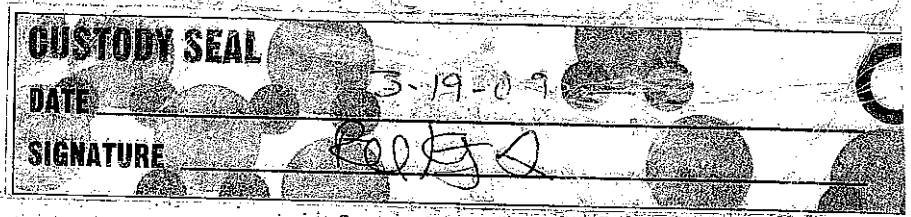
†Our liability is limited to $100 unless you declare a higher value. See back for details. Credit Card Auth.

8 Residential Delivery Signature Options If you require a signature, check Direct or Indirect.
- [ ] No Signature Required — Package may be left without obtaining a signature for delivery.
- [ ] Direct Signature — Someone at recipient's address may sign for delivery. *Fee applies.*
- [X] Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. *Fee applies.*

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Laboratory Data Package Signature Page

This data package consists of:

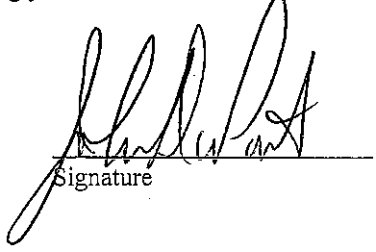
This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC 5.13
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix;
- R10 Other problems or anomalies.

The Exception Report for every "No" or "Not Reviewed (NR)" item in laboratory review checklist.

Release Statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By me signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

Scott Schroeder – Project Manager
John DuPont – General / QA Manager



Signature

04/03/09

Date

DHL Analytical, Inc.

Laboratory Review Checklist: Reportable Data

Project Name: RRC Petronila PZ/SW	Date: 4/3/09
Reviewer Name: Carlos Castro	Laboratory Work Order: 0903151
Prep Batch Number(s): See Prep Dates Report	Run Batch: See Analytical Dates Report

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-Custody (C-O-C)					
R1	OI	1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				R1-01
		2) Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and Quality Control (QC) Identification**					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test Reports**					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample quantitation limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?			X		
		7) Were % moisture (or solids) reported for all soil and sediment samples?			X		
		8) If required for the project, TICs reported?			X		
R4	O	**Surrogate Recovery Data**					
		1) Were surrogates added prior to extraction?			X		
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test Reports/Summary Forms for Blank Samples**					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Where method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations < MQL?	X				
R6	OI	**Laboratory Control Samples (LCS):**					
		1) Were all COCs included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs?	X				
		6) Was the LCSD RPD within QC limits (if applicable)?	X				
R7	OI	**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data**					
		1) Were the project/method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			R7-03
		4) Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical Duplicate Data**					
		1) Were appropriate analytical duplicates analyzed for each matrix?	X				
		2) Were analytical duplicates analyzed at the appropriate frequency?	X				
		3) Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	**Method Quantitation Limits (MQLs):**					
		1) Are the MQLs for each method analyte included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs included in the laboratory data package?	X				
R10	OI	**Other Problems/Anomalies**					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				R10-01
		2) Were all necessary corrective actions performed for the reported data?	X				
		3) Was applicable and available technology used to lower the SQL minimize the matrix interference affects on the sample results?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

DHL Analytical, Inc.

Laboratory Review Checklist (continued): Supporting Data

Project Name: RRC Petronila Creek PZ/SW	Date: 4/3/09
Reviewer Name: Carlos Castro	Laboratory Work Order: 0903151

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial Calibration (ICAL)**					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB):**					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass Spectral Tuning:**					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal Standards (IS):**					
		1) Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**Raw Data (NELAC section 1 appendix A glossary, and section 5.12)**					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual Column Confirmation**					
		1) Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively Identified Compounds (TICs):**					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) Results:**					
		1) Were percent recoveries within method QC limits?	X				
S9	I	**Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions**					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?		X			S9-01
S10	OI	**Method Detection Limit (MDL) Studies**					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency Test Reports:**					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards Documentation**					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/Analyte Identification Procedures**					
		1) Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of Analyst Competency (DOC)**					
		1) Was DOC conducted consistent with NELAC Chapter 5C?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/Validation Documentation for Methods** (NELAC Chap 5)					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory Standard Operating Procedures (SOPs):**					
		1) Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

DHL Analytical

Sample Receipt Checklist

Client Name TRC Environmental Corp.

Date Received: 3/20/2009

Work Order Number 0903151

Received by AK

Checklist completed by: [signature] 3/20/09
Signature Date

Reviewed by (DL) 3/20/09
Initials Date

Carrier name: FedEx 1day

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	2.5 °C
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	Not Applicable ☐

Adjusted? WD Checked by [signature]

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Page 1 of 1

CLIENT: TRC Environmental Corp.
Project: RRC Petronila PZ/SW
Lab Order: 0903151

CASE NARRATIVE

The samples were analyzed using the methods outlined in the following references:

Method SW6020 - Metals Analysis
Method E300 - Anions Analysis
Method M2320 B (18th Edition) - Alkalinity Analysis
Method M2510 B (18th Edition) - Specific Conductance
Method M2540C (18th Edition) - TDS Analysis
Method M4500-H+ B (18th Edition) - pH of a Water

Exception Report R1-01

Samples were received and log-in performed on 3/20/09 . A total of 4 samples were received. The samples arrived in good condition and were properly packaged.

Exception Report R7-03

For Metals analysis performed on 3/26/09 and 4/3/09 the matrix spikes and matrix spike duplicate recoveries were out of control limits for some analytes. These are flagged accordingly in the QC summary report. The reference sample selected for the matrix spikes and matrix spike duplicates was from this work order. The LCS was within control limits for these analytes. No further corrective actions were taken.

Exception Report R10-01

For Anions analysis samples P-D-01 and P-PZ-08 were diluted prior to analysis due to the the nature of the samples (chloride concentration).

Exception Report S9-01

For Metals analysis performed on 4/3/09 the RPD for the serial dilution was slightly above control limits for Iron. This is flagged accordingly in the QC summary report. The PDS was within control limits for this analyte. No further corrective actions were taken.

CLIENT: TRC Environmental Corp.
Project: RRC Petronila PZ/SW
Lab Order: 0903151

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recv'd
0903151-01	P-D-01		03/19/09 11:00 AM	03/20/09
0903151-02	P-PZ-07		03/19/09 04:15 PM	03/20/09
0903151-03	P-PZ-07-D		03/19/09 04:15 PM	03/20/09
0903151-04	P-PZ-08		03/19/09 05:20 PM	03/20/09

CLIENT: TRC Environmental Corp.
Project: RRC Petronila PZ/SW
Lab Order: 0903151

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
0903151-01A	P-D-01	03/19/09 11:00 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/20/09 10:11 AM	34056
	P-D-01	03/19/09 11:00 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/20/09 10:11 AM	34056
	P-D-01	03/19/09 11:00 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/20/09 10:11 AM	34056
0903151-01B	P-D-01	03/19/09 11:00 AM	Aqueous	E300	Anion Preparation	03/20/09 09:58 AM	34055
	P-D-01	03/19/09 11:00 AM	Aqueous	E300	Anion Preparation	03/20/09 09:58 AM	34055
	P-D-01	03/19/09 11:00 AM	Aqueous	E300	Anion Preparation	03/20/09 09:58 AM	34055
	P-D-01	03/19/09 11:00 AM	Aqueous	M2320 B	Alkalinity Preparation	03/25/09 01:32 PM	34132
	P-D-01	03/19/09 11:00 AM	Aqueous	M2540C	TDS Preparation	03/25/09 10:00 AM	34138
0903151-02A	P-PZ-07	03/19/09 04:15 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/20/09 10:11 AM	34056
	P-PZ-07	03/19/09 04:15 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/20/09 10:11 AM	34056
	P-PZ-07	03/19/09 04:15 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/20/09 10:11 AM	34056
	P-PZ-07	03/19/09 04:15 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/20/09 10:11 AM	34056
0903151-02B	P-PZ-07	03/19/09 04:15 PM	Aqueous	E300	Anion Preparation	03/20/09 09:58 AM	34055
	P-PZ-07	03/19/09 04:15 PM	Aqueous	E300	Anion Preparation	03/20/09 09:58 AM	34055
	P-PZ-07	03/19/09 04:15 PM	Aqueous	E300	Anion Preparation	03/20/09 09:58 AM	34055
	P-PZ-07	03/19/09 04:15 PM	Aqueous	M2320 B	Alkalinity Preparation	03/25/09 01:32 PM	34132
	P-PZ-07	03/19/09 04:15 PM	Aqueous	M4500-H+ B	pH Preparation	03/20/09 11:00 PM	34063
	P-PZ-07	03/19/09 04:15 PM	Aqueous	M2510 B	Conductivity Preparation	04/02/09 09:03 AM	34276
	P-PZ-07	03/19/09 04:15 PM	Aqueous	M2540C	TDS Preparation	03/25/09 10:00 AM	34138
0903151-03A	P-PZ-07-D	03/19/09 04:15 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/20/09 10:11 AM	34056
	P-PZ-07-D	03/19/09 04:15 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/20/09 10:11 AM	34056
	P-PZ-07-D	03/19/09 04:15 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/20/09 10:11 AM	34056
0903151-03B	P-PZ-07-D	03/19/09 04:15 PM	Aqueous	E300	Anion Preparation	03/20/09 09:58 AM	34055
	P-PZ-07-D	03/19/09 04:15 PM	Aqueous	E300	Anion Preparation	03/20/09 09:58 AM	34055
	P-PZ-07-D	03/19/09 04:15 PM	Aqueous	E300	Anion Preparation	03/20/09 09:58 AM	34055
	P-PZ-07-D	03/19/09 04:15 PM	Aqueous	M2320 B	Alkalinity Preparation	03/25/09 01:32 PM	34132
	P-PZ-07-D	03/19/09 04:15 PM	Aqueous	M4500-H+ B	pH Preparation	03/20/09 11:00 PM	34063
	P-PZ-07-D	03/19/09 04:15 PM	Aqueous	M2510 B	Conductivity Preparation	04/02/09 09:03 AM	34276
	P-PZ-07-D	03/19/09 04:15 PM	Aqueous	M2540C	TDS Preparation	03/26/09 08:00 AM	34159

CLIENT: TRC Environmental Corp.
Project: RRC Petronila PZ/SW
Lab Order: 0903151

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
0903151-04A	P-PZ-08	03/19/09 05:20 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/20/09 10:11 AM	34056
	P-PZ-08	03/19/09 05:20 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/20/09 10:11 AM	34056
	P-PZ-08	03/19/09 05:20 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/20/09 10:11 AM	34056
0903151-04B	P-PZ-08	03/19/09 05:20 PM	Aqueous	E300	Anion Preparation	03/20/09 09:58 AM	34055
	P-PZ-08	03/19/09 05:20 PM	Aqueous	E300	Anion Preparation	03/20/09 09:58 AM	34055
	P-PZ-08	03/19/09 05:20 PM	Aqueous	E300	Anion Preparation	03/20/09 09:58 AM	34055
	P-PZ-08	03/19/09 05:20 PM	Aqueous	M2320 B	Alkalinity Preparation	03/25/09 01:32 PM	34132
	P-PZ-08	03/19/09 05:20 PM	Aqueous	M4500-H+ B	pH Preparation	03/20/09 11:00 PM	34063
	P-PZ-08	03/19/09 05:20 PM	Aqueous	M2510 B	Conductivity Preparation	04/02/09 09:03 AM	34276
	P-PZ-08	03/19/09 05:20 PM	Aqueous	M2540C	TDS Preparation	03/26/09 08:00 AM	34159

CLIENT: TRC Environmental Corp.
Project: RRC Petronila PZ/SW
Lab Order: 0903151

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
0903151-01A	P-D-01	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34056	1	03/24/09 01:44 AM	ICP-MS2_090323C
	P-D-01	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34056	1000	03/26/09 02:54 PM	ICP-MS3_090326A
	P-D-01	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34056	50	03/26/09 05:41 PM	ICP-MS3_090326A
0903151-01B	P-D-01	Aqueous	M2320 B	Alkalinity	34132	1	03/25/09 01:34 PM	TITRATOR_090325A
	P-D-01	Aqueous	E300	Anions by IC method - Water	34055	10	03/20/09 11:40 AM	IC_090320A
	P-D-01	Aqueous	E300	Anions by IC method - Water	34055	1000	03/27/09 12:39 PM	IC2_090327A
	P-D-01	Aqueous	E300	Anions by IC method - Water	34055	100	03/27/09 04:18 PM	IC2_090327A
	P-D-01	Aqueous	M2540C	Total Dissolved Solids	34138	1	03/26/09 09:30 AM	WC_090325B
0903151-02A	P-PZ-07	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34056	1	03/24/09 01:49 AM	ICP-MS2_090323C
	P-PZ-07	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34056	1	04/03/09 12:27 PM	ICP-MS2_090403A
	P-PZ-07	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34056	500	03/26/09 01:11 PM	ICP-MS3_090326A
	P-PZ-07	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34056	50	03/26/09 05:16 PM	ICP-MS3_090326A
0903151-02B	P-PZ-07	Aqueous	M2320 B	Alkalinity	34132	1	03/25/09 01:41 PM	TITRATOR_090325A
	P-PZ-07	Aqueous	E300	Anions by IC method - Water	34055	5	03/20/09 11:55 AM	IC_090320A
	P-PZ-07	Aqueous	E300	Anions by IC method - Water	34055	1000	03/27/09 12:54 PM	IC2_090327A
	P-PZ-07	Aqueous	E300	Anions by IC method - Water	34055	100	03/27/09 04:33 PM	IC2_090327A
	P-PZ-07	Aqueous	M4500-H+ B	pH	34063	1	03/20/09 11:38 AM	TITRATOR_090320B
	P-PZ-07	Aqueous	M2510 B	Specific Conductance	34276	2	04/02/09 09:30 AM	WC_090402A
	P-PZ-07	Aqueous	M2540C	Total Dissolved Solids	34138	1	03/26/09 09:30 AM	WC_090325B
0903151-03A	P-PZ-07-D	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34056	1	03/24/09 01:55 AM	ICP-MS2_090323C
	P-PZ-07-D	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34056	500	03/26/09 02:59 PM	ICP-MS3_090326A
	P-PZ-07-D	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34056	50	03/26/09 05:46 PM	ICP-MS3_090326A
0903151-03B	P-PZ-07-D	Aqueous	M2320 B	Alkalinity	34132	1	03/25/09 01:54 PM	TITRATOR_090325A
	P-PZ-07-D	Aqueous	E300	Anions by IC method - Water	34055	1	03/20/09 12:11 PM	IC_090320A
	P-PZ-07-D	Aqueous	E300	Anions by IC method - Water	34055	1000	03/27/09 01:08 PM	IC2_090327A
	P-PZ-07-D	Aqueous	E300	Anions by IC method - Water	34055	100	03/27/09 04:46 PM	IC2_090327A
	P-PZ-07-D	Aqueous	M4500-H+ B	pH	34063	1	03/20/09 11:40 AM	TITRATOR_090320B
	P-PZ-07-D	Aqueous	M2510 B	Specific Conductance	34276	2	04/02/09 09:30 AM	WC_090402A
	P-PZ-07-D	Aqueous	M2540C	Total Dissolved Solids	34159	1	03/26/09 09:00 AM	WC_090326A

CLIENT: TRC Environmental Corp.
Project: RRC Petronila PZ/SW
Lab Order: 0903151

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
0903151-04A	P-PZ-08	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34056	1	03/24/09 02:00 AM	ICP-MS2_090323C
	P-PZ-08	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34056	250	03/26/09 03:17 PM	ICP-MS3_090326A
	P-PZ-08	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34056	500	03/26/09 04:03 PM	ICP-MS3_090326A
0903151-04B	P-PZ-08	Aqueous	M2320 B	Alkalinity	34132	1	03/25/09 02:01 PM	TITRATOR_090325A
	P-PZ-08	Aqueous	E300	Anions by IC method - Water	34055	5	03/20/09 12:27 PM	IC_090320A
	P-PZ-08	Aqueous	E300	Anions by IC method - Water	34055	1000	03/27/09 01:23 PM	IC2_090327A
	P-PZ-08	Aqueous	E300	Anions by IC method - Water	34055	100	03/27/09 05:16 PM	IC2_090327A
	P-PZ-08	Aqueous	M4500-H+ B	pH	34063	1	03/20/09 11:41 AM	TITRATOR_090320B
	P-PZ-08	Aqueous	M2510 B	Specific Conductance	34276	1	04/02/09 09:30 AM	WC_090402A
	P-PZ-08	Aqueous	M2540C	Total Dissolved Solids	34159	1	03/26/09 09:00 AM	WC_090326A

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-D-01
Project:	RRC Petronila PZ/SW	Lab ID:	0903151-01
Project No:	166420-02	Collection Date:	03/19/09 11:00 AM
Lab Order:	0903151	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		**SW6020**					**Analyst: KW**
Barium	0.164	0.00300	0.0100		mg/L	1	03/24/09 01:44 AM
Calcium	1520	100	300		mg/L	1000	03/26/09 02:54 PM
Iron	0.224	0.0500	0.150		mg/L	1	03/24/09 01:44 AM
Magnesium	337	5.00	15.0		mg/L	50	03/26/09 05:41 PM
Potassium	38.4	5.00	15.0		mg/L	50	03/26/09 05:41 PM
Sodium	9080	100	300		mg/L	1000	03/26/09 02:54 PM
Anions by IC method - Water		**E300**					**Analyst: DEW**
Bromide	61.4	3.00	10.0		mg/L	10	03/20/09 11:40 AM
Chloride	17700	300	1000		mg/L	1000	03/27/09 12:39 PM
Nitrate-N	ND	1.00	5.00		mg/L	10	03/20/09 11:40 AM
Sulfate	2850	100	300		mg/L	100	03/27/09 04:18 PM
Alkalinity		**M2320 B**					**Analyst: JBC**
Alkalinity, Bicarbonate (As CaCO3)	116	10.0	20.0		mg/L	1	03/25/09 01:34 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	03/25/09 01:34 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	03/25/09 01:34 PM
Alkalinity, Total (As CaCO3)	116	10.0	20.0		mg/L	1	03/25/09 01:34 PM
Total Dissolved Solids		**M2540C**					**Analyst: AAD**
Total Dissolved Solids (Residue, Filterable)	37400	10.0	10.0		mg/L	1	03/26/09 09:30 AM

Qualifiers:

	See Final Page of Report for MQLs and MDLs
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between SDL and RL
N	Parameter not NELAC certified
ND	Not Detected at the SDL
RL	Reporting Limit (MQL adjusted for moisture and sample size)
S	Spike Recovery outside control limits
SDL	Sample Detection Limit

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-PZ-07
Project:	RRC Petronila PZ/SW	Lab ID:	0903151-02
Project No:	166420-02	Collection Date:	03/19/09 04:15 PM
Lab Order:	0903151	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		**SW6020**					**Analyst: KW**
Barium	0.100	0.00300	0.0100		mg/L	1	03/24/09 01:49 AM
Calcium	1450	50.0	150		mg/L	500	03/26/09 01:11 PM
Iron	3.57	0.0500	0.150		mg/L	1	03/24/09 01:49 AM
Magnesium	355	50.0	150		mg/L	500	03/26/09 01:11 PM
Potassium	24.5	5.00	15.0		mg/L	50	03/26/09 05:16 PM
Sodium	4140	50.0	150		mg/L	500	03/26/09 01:11 PM
Anions by IC method - Water		**E300**					**Analyst: DEW**
Bromide	29.5	1.50	5.00		mg/L	5	03/20/09 11:55 AM
Chloride	9340	300	1000		mg/L	1000	03/27/09 12:54 PM
Nitrate-N	0.946	0.500	2.50	J	mg/L	5	03/20/09 11:55 AM
Sulfate	1320	100	300		mg/L	100	03/27/09 04:33 PM
Alkalinity		**M2320 B**					**Analyst: JBC**
Alkalinity, Bicarbonate (As CaCO3)	260	10.0	20.0		mg/L	1	03/25/09 01:41 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	03/25/09 01:41 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	03/25/09 01:41 PM
Alkalinity, Total (As CaCO3)	260	10.0	20.0		mg/L	1	03/25/09 01:41 PM
pH		**M4500-H+ B**					**Analyst: AAD**
pH	6.55	0	0		pH Units	1	03/20/09 11:38 AM
Specific Conductance		**M2510 B**					**Analyst: AAD**
Specific Conductance	29000	20.0	20.0		µmhos/cm	2	04/02/09 09:30 AM
Total Dissolved Solids		**M2540C**					**Analyst: AAD**
Total Dissolved Solids (Residue, Filterable)	22000	10.0	10.0		mg/L	1	03/26/09 09:30 AM

Qualifiers:

	See Final Page of Report for MQLs and MDLs
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between SDL and RL
N	Parameter not NELAC certified
ND	Not Detected at the SDL
RL	Reporting Limit (MQL adjusted for moisture and sample size)
S	Spike Recovery outside control limits
SDL	Sample Detection Limit

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-PZ-07-D
Project:	RRC Petronila PZ/SW	Lab ID:	0903151-03
Project No:	166420-02	Collection Date:	03/19/09 04:15 PM
Lab Order:	0903151	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		**SW6020**					**Analyst: KW**
Barium	0.0931	0.00300	0.0100		mg/L	1	03/24/09 01:55 AM
Calcium	1500	50.0	150		mg/L	500	03/26/09 02:59 PM
Iron	2.68	0.0500	0.150		mg/L	1	03/24/09 01:55 AM
Magnesium	348	50.0	150		mg/L	500	03/26/09 02:59 PM
Potassium	24.1	5.00	15.0		mg/L	50	03/26/09 05:46 PM
Sodium	4080	50.0	150		mg/L	500	03/26/09 02:59 PM
Anions by IC method - Water		**E300**					**Analyst: DEW**
Bromide	35.7	0.300	1.00		mg/L	1	03/20/09 12:11 PM
Chloride	9280	300	1000		mg/L	1000	03/27/09 01:08 PM
Nitrate-N	0.878	0.100	0.500		mg/L	1	03/20/09 12:11 PM
Sulfate	1310	100	300		mg/L	100	03/27/09 04:46 PM
Alkalinity		**M2320 B**					**Analyst: JBC**
Alkalinity, Bicarbonate (As CaCO3)	250	10.0	20.0		mg/L	1	03/25/09 01:54 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	03/25/09 01:54 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	03/25/09 01:54 PM
Alkalinity, Total (As CaCO3)	250	10.0	20.0		mg/L	1	03/25/09 01:54 PM
pH		**M4500-H+ B**					**Analyst: AAD**
pH	6.55	0	0		pH Units	1	03/20/09 11:40 AM
Specific Conductance		**M2510 B**					**Analyst: AAD**
Specific Conductance	29200	20.0	20.0		µmhos/cm	2	04/02/09 09:30 AM
Total Dissolved Solids		**M2540C**					**Analyst: JBC**
Total Dissolved Solids (Residue, Filterable)	20800	10.0	10.0		mg/L	1	03/26/09 09:00 AM

Qualifiers:

	See Final Page of Report for MQLs and MDLs
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between SDL and RL
N	Parameter not NELAC certified
ND	Not Detected at the SDL
RL	Reporting Limit (MQL adjusted for moisture and sample size)
S	Spike Recovery outside control limits
SDL	Sample Detection Limit

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-PZ-08
Project:	RRC Petronila PZ/SW	Lab ID:	0903151-04
Project No:	166420-02	Collection Date:	03/19/09 05:20 PM
Lab Order:	0903151	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		**SW6020**					**Analyst: KW**
Barium	0.0354	0.00300	0.0100		mg/L	1	03/24/09 02:00 AM
Calcium	911	25.0	75.0		mg/L	250	03/26/09 03:17 PM
Iron	0.347	0.0500	0.150		mg/L	1	03/24/09 02:00 AM
Magnesium	183	50.0	150		mg/L	500	03/26/09 04:03 PM
Potassium	8.44	0.100	0.300		mg/L	1	03/24/09 02:00 AM
Sodium	2710	50.0	150		mg/L	500	03/26/09 04:03 PM
Anions by IC method - Water		**E300**					**Analyst: DEW**
Bromide	16.0	1.50	5.00		mg/L	5	03/20/09 12:27 PM
Chloride	5230	300	1000		mg/L	1000	03/27/09 01:23 PM
Nitrate-N	ND	0.500	2.50		mg/L	5	03/20/09 12:27 PM
Sulfate	1670	100	300		mg/L	100	03/27/09 05:16 PM
Alkalinity		**M2320 B**					**Analyst: JBC**
Alkalinity, Bicarbonate (As CaCO3)	292	10.0	20.0		mg/L	1	03/25/09 02:01 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	03/25/09 02:01 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	03/25/09 02:01 PM
Alkalinity, Total (As CaCO3)	292	10.0	20.0		mg/L	1	03/25/09 02:01 PM
pH		**M4500-H+ B**					**Analyst: AAD**
pH	6.88	0	0		pH Units	1	03/20/09 11:41 AM
Specific Conductance		**M2510 B**					**Analyst: AAD**
Specific Conductance	18000	10.0	10.0		µmhos/cm	1	04/02/09 09:30 AM
Total Dissolved Solids		**M2540C**					**Analyst: JBC**
Total Dissolved Solids (Residue, Filterable)	13100	10.0	10.0		mg/L	1	03/26/09 09:00 AM

Qualifiers: See Final Page of Report for MQLs and MDLs

B	Analyte detected in the associated Method Blank	J	Analyte detected between SDL and RL
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the SDL
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit (MQL adjusted for moisture and sample size)
		S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

CLIENT: TRC Environmental Corp.
Work Order: 0903151
Project: RRC Petronila PZ/SW

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_090323C

Sample ID:	ICV1-090323	Batch ID:	R42473	TestNo:	SW6020	Units:	mg/L
SampType:	ICV	Run ID:	ICP-MS2_090323C	Analysis Date:	03/23/09 12:44 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.0976	0.0100	0.100	0	97.6	90	110			
Iron	2.62	0.150	2.50	0	105	90	110			
Potassium	2.46	0.300	2.50	0	98.2	90	110			

Sample ID:	CCV8-090323	Batch ID:	R42473	TestNo:	SW6020	Units:	mg/L
SampType:	CCV	Run ID:	ICP-MS2_090323C	Analysis Date:	03/24/09 01:12 AM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.200	0.0100	0.200	0	100	90	110			
Iron	4.73	0.150	5.00	0	94.6	90	110			
Potassium	5.25	0.300	5.00	0	105	90	110			

Sample ID:	CCV9-090323	Batch ID:	R42473	TestNo:	SW6020	Units:	mg/L
SampType:	CCV	Run ID:	ICP-MS2_090323C	Analysis Date:	03/24/09 02:38 AM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.201	0.0100	0.200	0	101	90	110			
Iron	4.59	0.150	5.00	0	91.9	90	110			
Potassium	5.09	0.300	5.00	0	102	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903151
Project: RRC Petronila PZ/SW

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_090403A

Sample ID:	0903151-02A SD	Batch ID:	34056	TestNo:	SW6020	Units:	mg/L
SampType:	SD	Run ID:	ICP-MS2_090403A	Analysis Date:	04/03/09 12:32 PM	Prep Date:	03/20/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.0986	0.0500	0	0.0992				0.606	10	
Iron	4.52	0.750	0	3.75				18.5	10	R

Sample ID:	0903151-02A PDS	Batch ID:	34056	TestNo:	SW6020	Units:	mg/L
SampType:	PDS	Run ID:	ICP-MS2_090403A	Analysis Date:	04/03/09 12:37 PM	Prep Date:	03/20/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.289	0.0100	0.200	0.0992	94.9	75	125			
Iron	8.14	0.150	5.00	3.75	87.7	75	125			

Sample ID:	0903151-02A MS	Batch ID:	34056	TestNo:	SW6020	Units:	mg/L
SampType:	MS	Run ID:	ICP-MS2_090403A	Analysis Date:	04/03/09 12:43 PM	Prep Date:	03/20/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.274	0.0100	0.200	0.0992	87.1	80	120			
Iron	4.86	0.150	5.00	3.75	22.1	80	120			S

Sample ID:	0903151-02A MSD	Batch ID:	34056	TestNo:	SW6020	Units:	mg/L
SampType:	MSD	Run ID:	ICP-MS2_090403A	Analysis Date:	04/03/09 12:48 PM	Prep Date:	03/20/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.266	0.0100	0.200	0.0992	83.4	80	120	2.78	15	
Iron	4.83	0.150	5.00	3.75	21.5	80	120	0.661	15	S

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903151
Project: RRC Petronila PZ/SW

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_090403A

Sample ID:	ICV1-090403	Batch ID:	R42680		TestNo:		SW6020		Units:		mg/L
SampType:	ICV	Run ID:	ICP-MS2_090403A		Analysis Date:		04/03/09 11:59 AM		Prep Date:		
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium		0.0996	0.0100	0.100	0	99.6	90	110			
Iron		2.68	0.150	2.50	0	107	90	110			

Sample ID:	CCV1-090403	Batch ID:	R42680		TestNo:		SW6020		Units:		mg/L
SampType:	CCV	Run ID:	ICP-MS2_090403A		Analysis Date:		04/03/09 12:16 PM		Prep Date:		
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium		0.196	0.0100	0.200	0	98.0	90	110			
Iron		4.94	0.150	5.00	0	98.8	90	110			

Sample ID:	CCV2-090403	Batch ID:	R42680		TestNo:		SW6020		Units:		mg/L
SampType:	CCV	Run ID:	ICP-MS2_090403A		Analysis Date:		04/03/09 12:53 PM		Prep Date:		
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium		0.194	0.0100	0.200	0	97.0	90	110			
Iron		4.98	0.150	5.00	0	99.7	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903151
Project: RRC Petronila PZ/SW

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_090326A

Sample ID:	MB-34056	Batch ID:	34056		TestNo:		SW6020		Units:		mg/L
SampType:	MBLK	Run ID:	ICP-MS3_090326A		Analysis Date:		03/26/09 12:09 PM		Prep Date:		03/20/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium		ND	0.0100								
Calcium		ND	0.300								
Iron		ND	0.150								
Magnesium		ND	0.300								
Potassium		ND	0.300								
Sodium		ND	0.300								

Sample ID:	LCS-34056	Batch ID:	34056		TestNo:		SW6020		Units:		mg/L
SampType:	LCS	Run ID:	ICP-MS3_090326A		Analysis Date:		03/26/09 12:25 PM		Prep Date:		03/20/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium		0.203	0.0100	0.200	0	102	80	120			
Calcium		5.02	0.300	5.00	0	100	80	120			
Iron		4.80	0.150	5.00	0	96.0	80	120			
Magnesium		5.07	0.300	5.00	0	101	80	120			
Potassium		5.24	0.300	5.00	0	105	80	120			
Sodium		5.03	0.300	5.00	0	101	80	120			

Sample ID:	LCSD-34056	Batch ID:	34056		TestNo:		SW6020		Units:		mg/L
SampType:	LCSD	Run ID:	ICP-MS3_090326A		Analysis Date:		03/26/09 12:30 PM		Prep Date:		03/20/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium		0.203	0.0100	0.200	0	102	80	120	0.0492	15	
Calcium		5.00	0.300	5.00	0	99.9	80	120	0.400	15	
Iron		4.89	0.150	5.00	0	97.7	80	120	1.73	15	
Magnesium		5.06	0.300	5.00	0	101	80	120	0.257	15	
Potassium		5.22	0.300	5.00	0	104	80	120	0.287	15	
Sodium		5.02	0.300	5.00	0	100	80	120	0.0597	15	

Sample ID:	0903151-02A SD	Batch ID:	34056		TestNo:		SW6020		Units:		mg/L
SampType:	SD	Run ID:	ICP-MS3_090326A		Analysis Date:		03/26/09 01:16 PM		Prep Date:		03/20/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium		1550	750	0	1450				6.69	10	
Magnesium		361	750	0	355				1.69	10	
Sodium		4500	750	0	4140				8.23	10	

Sample ID:	0903151-02A PDS	Batch ID:	34056		TestNo:		SW6020		Units:		mg/L
SampType:	PDS	Run ID:	ICP-MS3_090326A		Analysis Date:		03/26/09 01:21 PM		Prep Date:		03/20/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium		4080	150	2500	1450	105	75	125			
Magnesium		2810	150	2500	355	98.1	75	125			
Sodium		6620	150	2500	4140	99.2	75	125			

Sample ID:	0903151-02A MS	Batch ID:	34056		TestNo:		SW6020		Units:		mg/L
SampType:	MS	Run ID:	ICP-MS3_090326A		Analysis Date:		03/26/09 01:26 PM		Prep Date:		03/20/09

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903151
Project: RRC Petronila PZ/SW

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_090326A

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	1480	150	5.00	1450	590	80	120			S
Magnesium	365	150	5.00	355	193	80	120			S
Sodium	4190	150	5.00	4140	970	80	120			S

Sample ID: 0903151-02A MSD Batch ID: 34056 TestNo: SW6020 Units: mg/L
SampType: MSD Run ID: ICP-MS3_090326A Analysis Date: 03/26/09 01:31 PM Prep Date: 03/20/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	1450	150	5.00	1450	-130	80	120	2.46	15	S
Magnesium	364	150	5.00	355	180	80	120	0.178	15	S
Sodium	4240	150	5.00	4140	2070	80	120	1.30	15	S

Sample ID: 0903151-02A SD Batch ID: 34056 TestNo: SW6020 Units: mg/L
SampType: SD Run ID: ICP-MS3_090326A Analysis Date: 03/26/09 05:21 PM Prep Date: 03/20/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Potassium	0	75.0	0	24.5				0	10	

Sample ID: 0903151-02A PDS Batch ID: 34056 TestNo: SW6020 Units: mg/L
SampType: PDS Run ID: ICP-MS3_090326A Analysis Date: 03/26/09 05:26 PM Prep Date: 03/20/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Potassium	279	15.0	250	24.5	102	75	125			

Sample ID: 0903151-02A MS Batch ID: 34056 TestNo: SW6020 Units: mg/L
SampType: MS Run ID: ICP-MS3_090326A Analysis Date: 03/26/09 05:31 PM Prep Date: 03/20/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Potassium	28.9	15.0	5.00	24.5	86.7	80	120			

Sample ID: 0903151-02A MSD Batch ID: 34056 TestNo: SW6020 Units: mg/L
SampType: MSD Run ID: ICP-MS3_090326A Analysis Date: 03/26/09 05:36 PM Prep Date: 03/20/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Potassium	29.2	15.0	5.00	24.5	92.6	80	120	1.02	15	

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903151
Project: RRC Petronila PZ/SW

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_090326A

Sample ID:	ICV1-090326	Batch ID:	R42551	TestNo:	SW6020	Units:	mg/L
SampType:	ICV	Run ID:	ICP-MS3_090326A	Analysis Date:	03/26/09 11:53 AM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.0978	0.0100	0.100	0	97.8	90	110			
Calcium	2.42	0.300	2.50	0	96.6	90	110			
Iron	2.51	0.150	2.50	0	100	90	110			
Magnesium	2.43	0.300	2.50	0	97.1	90	110			
Potassium	2.46	0.300	2.50	0	98.6	90	110			
Sodium	2.40	0.300	2.50	0	95.8	90	110			

Sample ID:	CCV1-090326	Batch ID:	R42551	TestNo:	SW6020	Units:	mg/L
SampType:	CCV	Run ID:	ICP-MS3_090326A	Analysis Date:	03/26/09 12:55 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.205	0.0100	0.200	0	103	90	110			
Calcium	4.83	0.300	5.00	0	96.6	90	110			
Iron	4.88	0.150	5.00	0	97.5	90	110			
Magnesium	4.98	0.300	5.00	0	99.5	90	110			
Potassium	5.11	0.300	5.00	0	102	90	110			
Sodium	4.97	0.300	5.00	0	99.5	90	110			

Sample ID:	CCV2-090326	Batch ID:	R42551	TestNo:	SW6020	Units:	mg/L
SampType:	CCV	Run ID:	ICP-MS3_090326A	Analysis Date:	03/26/09 02:02 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	4.90	0.300	5.00	0	97.9	90	110			
Magnesium	4.87	0.300	5.00	0	97.4	90	110			
Sodium	4.80	0.300	5.00	0	96.0	90	110			

Sample ID:	CCV3-090326	Batch ID:	R42551	TestNo:	SW6020	Units:	mg/L
SampType:	CCV	Run ID:	ICP-MS3_090326A	Analysis Date:	03/26/09 03:04 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	5.00	0.300	5.00	0	99.9	90	110			
Magnesium	4.93	0.300	5.00	0	98.5	90	110			
Sodium	4.82	0.300	5.00	0	96.5	90	110			

Sample ID:	CCV4-090326	Batch ID:	R42551	TestNo:	SW6020	Units:	mg/L
SampType:	CCV	Run ID:	ICP-MS3_090326A	Analysis Date:	03/26/09 04:14 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	4.89	0.300	5.00	0	97.7	90	110			
Magnesium	4.80	0.300	5.00	0	96.0	90	110			
Sodium	4.72	0.300	5.00	0	94.3	90	110			

Sample ID:	CCV5-090326	Batch ID:	R42551	TestNo:	SW6020	Units:	mg/L
SampType:	CCV	Run ID:	ICP-MS3_090326A	Analysis Date:	03/26/09 05:05 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Potassium	5.16	0.300	5.00	0	103	90	110			

Sample ID:	CCV6-090326	Batch ID:	R42551	TestNo:	SW6020	Units:	mg/L

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903151
Project: RRC Petronila PZ/SW

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_090326A

SampType: CCV Run ID: ICP-MS3_090326A Analysis Date: 03/26/09 05:57 PM Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Magnesium	4.82	0.300	5.00	0	96.5	90	110			
Potassium	5.11	0.300	5.00	0	102	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903151
Project: RRC Petronila PZ/SW

ANALYTICAL QC SUMMARY REPORT

RunID: IC_090320A

Sample ID:	LCS-34055	Batch ID:	34055		TestNo:		E300		Units:		mg/L
SampType:	LCS	Run ID:	IC_090320A		Analysis Date:		03/20/09 10:53 AM		Prep Date:		03/20/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide		19.8	1.00	20.00	0	98.8	90	110			
Chloride		9.94	1.00	10.00	0	99.4	90	110			
Nitrate-N		4.96	0.500	5.000	0	99.2	90	110			
Sulfate		29.7	3.00	30.00	0	98.8	90	110			

Sample ID:	LCSD-34055	Batch ID:	34055		TestNo:		E300		Units:		mg/L
SampType:	LCSD	Run ID:	IC_090320A		Analysis Date:		03/20/09 11:08 AM		Prep Date:		03/20/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide		19.8	1.00	20.00	0	98.9	90	110	0.0895	20	
Chloride		9.96	1.00	10.00	0	99.6	90	110	0.135	20	
Nitrate-N		4.96	0.500	5.000	0	99.1	90	110	0.0504	20	
Sulfate		29.6	3.00	30.00	0	98.8	90	110	0.0617	20	

Sample ID:	MB-34055	Batch ID:	34055		TestNo:		E300		Units:		mg/L
SampType:	MBLK	Run ID:	IC_090320A		Analysis Date:		03/20/09 11:24 AM		Prep Date:		03/20/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide		ND	1.00								
Chloride		ND	1.00								
Nitrate-N		ND	0.500								
Sulfate		ND	3.00								

Sample ID:	0903151-02BMS	Batch ID:	34055		TestNo:		E300		Units:		mg/L
SampType:	MS	Run ID:	IC_090320A		Analysis Date:		03/20/09 05:22 PM		Prep Date:		03/20/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide		126	5.00	100.0	17.71	108	90	110			
Nitrate-N		27.0	2.50	25.00	0.5673	106	90	110			

Sample ID:	0903151-02BMSD	Batch ID:	34055		TestNo:		E300		Units:		mg/L
SampType:	MSD	Run ID:	IC_090320A		Analysis Date:		03/20/09 05:38 PM		Prep Date:		03/20/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide		126	5.00	100.0	17.71	108	90	110	0.0927	20	
Nitrate-N		26.9	2.50	25.00	0.5673	105	90	110	0.373	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903151
Project: RRC Petronila PZ/SW

ANALYTICAL QC SUMMARY REPORT

RunID: IC_090320A

Sample ID:	ICV-090320	Batch ID:	R42442		TestNo:		E300		Units:		mg/L
SampType:	ICV	Run ID:	IC_090320A		Analysis Date:		03/20/09 10:37 AM		Prep Date:		03/20/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide		53.7	1.00	50.00	0	107	90	110			
Chloride		26.9	1.00	25.00	0	108	90	110			
Nitrate-N		13.5	0.500	12.50	0	108	90	110			
Sulfate		80.5	3.00	75.00	0	107	90	110			

Sample ID:	CCV1-090320	Batch ID:	R42442		TestNo:		E300		Units:		mg/L
SampType:	CCV	Run ID:	IC_090320A		Analysis Date:		03/20/09 03:15 PM		Prep Date:		03/20/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide		21.1	1.00	20.00	0	105	90	110			
Chloride		10.8	1.00	10.00	0	108	90	110			
Nitrate-N		5.25	0.500	5.000	0	105	90	110			
Sulfate		31.5	3.00	30.00	0	105	90	110			

Sample ID:	CCV2-090320	Batch ID:	R42442		TestNo:		E300		Units:		mg/L
SampType:	CCV	Run ID:	IC_090320A		Analysis Date:		03/20/09 06:08 PM		Prep Date:		03/20/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide		21.2	1.00	20.00	0	106	90	110			
Nitrate-N		5.28	0.500	5.000	0	106	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903151
Project: RRC Petronila PZ/SW

ANALYTICAL QC SUMMARY REPORT

RunID: IC_090330A

Sample ID:	0903155-01E MS	Batch ID:	34055		TestNo:		E300		Units:		mg/L
SampType:	MS	Run ID:	IC_090330A		Analysis Date:		03/30/09 11:17 AM		Prep Date:		03/20/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		327	10.0	100.0	227.8	99.7	90	110			
Sulfate		544	30.0	300.0	238.0	102	90	110			

Sample ID:	0903155-01E MSD	Batch ID:	34055		TestNo:		E300		Units:		mg/L
SampType:	MSD	Run ID:	IC_090330A		Analysis Date:		03/30/09 11:32 AM		Prep Date:		03/20/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		328	10.0	100.0	227.8	99.8	90	110	0.0403	20	
Sulfate		547	30.0	300.0	238.0	103	90	110	0.394	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903151
Project: RRC Petronila PZ/SW

ANALYTICAL QC SUMMARY REPORT

RunID: IC_090330A

Sample ID:	ICV-090330	Batch ID:	R42586	TestNo:	E300	Units:	mg/L
SampType:	ICV	Run ID:	IC_090330A	Analysis Date:	03/30/09 09:07 AM	Prep Date:	03/30/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride	25.9	1.00	25.00	0	104	90	110			
Sulfate	77.8	3.00	75.00	0	104	90	110			

Sample ID:	CCV1-090330	Batch ID:	R42586	TestNo:	E300	Units:	mg/L
SampType:	CCV	Run ID:	IC_090330A	Analysis Date:	03/30/09 11:48 AM	Prep Date:	03/30/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride	10.3	1.00	10.00	0	103	90	110			
Sulfate	30.6	3.00	30.00	0	102	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903151
Project: RRC Petronila PZ/SW

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_090327A

Sample ID:	LCS-34055	Batch ID:	34055		TestNo:		E300		Units:		mg/L
SampType:	LCS	Run ID:	IC2_090327A		Analysis Date:		03/27/09 09:27 AM		Prep Date:		03/20/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		9.22	1.00	10.00	0	92.2	90	110			
Sulfate		28.8	3.00	30.00	0	96.0	90	110			

Sample ID:	LCSD-34055	Batch ID:	34055		TestNo:		E300		Units:		mg/L
SampType:	LCSD	Run ID:	IC2_090327A		Analysis Date:		03/27/09 09:42 AM		Prep Date:		03/20/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		9.22	1.00	10.00	0	92.2	90	110	0.00108	20	
Sulfate		28.7	3.00	30.00	0	95.7	90	110	0.295	20	

Sample ID:	MB-34055	Batch ID:	34055		TestNo:		E300		Units:		mg/L
SampType:	MBLK	Run ID:	IC2_090327A		Analysis Date:		03/27/09 10:30 AM		Prep Date:		03/20/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		ND	1.00								
Sulfate		ND	3.00								

Sample ID:	0903151-02BMS	Batch ID:	34055		TestNo:		E300		Units:		mg/L
SampType:	MS	Run ID:	IC2_090327A		Analysis Date:		03/27/09 03:48 PM		Prep Date:		03/20/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		15300	1000	10000	5604	96.8	90	110			

Sample ID:	0903151-02BMSD	Batch ID:	34055		TestNo:		E300		Units:		mg/L
SampType:	MSD	Run ID:	IC2_090327A		Analysis Date:		03/27/09 04:03 PM		Prep Date:		03/20/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		15400	1000	10000	5604	97.5	90	110	0.437	20	

Sample ID:	0903151-02BMS	Batch ID:	34055		TestNo:		E300		Units:		mg/L
SampType:	MS	Run ID:	IC2_090327A		Analysis Date:		03/27/09 06:58 PM		Prep Date:		03/20/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Sulfate		3740	300	3000	793.1	98.2	90	110			

Sample ID:	0903151-02BMSD	Batch ID:	34055		TestNo:		E300		Units:		mg/L
SampType:	MSD	Run ID:	IC2_090327A		Analysis Date:		03/27/09 07:13 PM		Prep Date:		03/20/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Sulfate		3730	300	3000	793.1	98.0	90	110	0.185	20	

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903151
Project: RRC Petronila PZ/SW

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_090327A

Sample ID:	ICV-090327	Batch ID:	R42575		TestNo:		E300		Units:		mg/L
SampType:	ICV	Run ID:	IC2_090327A		Analysis Date:		03/27/09 09:03 AM		Prep Date:		03/27/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		24.3	1.00	25.00	0	97.0	90	110			
Sulfate		75.1	3.00	75.00	0	100	90	110			

Sample ID:	CCV1-090327	Batch ID:	R42575		TestNo:		E300		Units:		mg/L
SampType:	CCV	Run ID:	IC2_090327A		Analysis Date:		03/27/09 02:20 PM		Prep Date:		03/27/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		9.70	1.00	10.00	0	97.0	90	110			
Sulfate		30.1	3.00	30.00	0	100	90	110			

Sample ID:	CCV2-090327	Batch ID:	R42575		TestNo:		E300		Units:		mg/L
SampType:	CCV	Run ID:	IC2_090327A		Analysis Date:		03/27/09 05:01 PM		Prep Date:		03/27/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		9.79	1.00	10.00	0	97.9	90	110			
Sulfate		30.3	3.00	30.00	0	101	90	110			

Sample ID:	CCV3-090327	Batch ID:	R42575		TestNo:		E300		Units:		mg/L
SampType:	CCV	Run ID:	IC2_090327A		Analysis Date:		03/27/09 07:28 PM		Prep Date:		03/27/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Sulfate		30.3	3.00	30.00	0	101	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903151
Project: RRC Petronila PZ/SW

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_090320B

Sample ID:	0903151-02B-DUP	Batch ID:	34063		TestNo:	M4500-H+ B		Units:		pH Units	
SampType:	DUP	Run ID:	TITRATOR_090320B		Analysis Date:	03/20/09 11:39 AM		Prep Date:		03/20/09	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit HighLimit	%RPD	RPD Limit		Qual
pH		6.53	0	0	6.550			0.306	5		

Sample ID:	0903152-07B-DUP	Batch ID:	34063		TestNo:	M4500-H+ B		Units:		pH Units	
SampType:	DUP	Run ID:	TITRATOR_090320B		Analysis Date:	03/20/09 11:52 AM		Prep Date:		03/20/09	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit HighLimit	%RPD	RPD Limit		Qual
pH		7.23	0	0	7.580			4.73	5		

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903151
Project: RRC Petronila PZ/SW

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_090320B

Sample ID:	ICV-090320	Batch ID:	R42438		TestNo:		M4500-H+ B		Units:		pH Units
SampType:	ICV	Run ID:	TITRATOR_090320B		Analysis Date:		03/20/09 11:37 AM		Prep Date:		03/20/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
pH		9.97	0	10.00	0	99.7	99	101			

Sample ID:	CCV1-090320	Batch ID:	R42438		TestNo:		M4500-H+ B		Units:		pH Units
SampType:	CCV	Run ID:	TITRATOR_090320B		Analysis Date:		03/20/09 11:46 AM		Prep Date:		03/20/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
pH		7.10	0	7.000	0	101	97.1	102.9			

Sample ID:	CCV2-090320	Batch ID:	R42438		TestNo:		M4500-H+ B		Units:		pH Units
SampType:	CCV	Run ID:	TITRATOR_090320B		Analysis Date:		03/20/09 11:55 AM		Prep Date:		03/20/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
pH		7.04	0	7.000	0	101	97.1	102.9			

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903151
Project: RRC Petronila PZ/SW

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_090325A

Sample ID:	MB-34132	Batch ID:	34132		TestNo:		M2320 B		Units:		mg/L
SampType:	MBLK	Run ID:	TITRATOR_090325A		Analysis Date:		03/25/09 12:50 PM		Prep Date:		03/25/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)		ND	20.0								
Alkalinity, Carbonate (As CaCO3)		ND	20.0								
Alkalinity, Hydroxide (As CaCO3)		ND	20.0								
Alkalinity, Total (As CaCO3)		ND	20.0								

Sample ID:	LCS-34132	Batch ID:	34132		TestNo:		M2320 B		Units:		mg/L
SampType:	LCS	Run ID:	TITRATOR_090325A		Analysis Date:		03/25/09 12:54 PM		Prep Date:		03/25/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)		54.8	20.0	50.00	0	110	74	129			

Sample ID:	0903151-02B DUP	Batch ID:	34132		TestNo:		M2320 B		Units:		mg/L
SampType:	DUP	Run ID:	TITRATOR_090325A		Analysis Date:		03/25/09 01:48 PM		Prep Date:		03/25/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)		256	20.0	0	260.2				1.59	20	
Alkalinity, Carbonate (As CaCO3)		0	20.0	0	0				0	20	
Alkalinity, Hydroxide (As CaCO3)		0	20.0	0	0				0	20	
Alkalinity, Total (As CaCO3)		256	20.0	0	260.2				1.59	20	

Sample ID:	0903165-01B DUP	Batch ID:	34132		TestNo:		M2320 B		Units:		mg/L
SampType:	DUP	Run ID:	TITRATOR_090325A		Analysis Date:		03/25/09 03:36 PM		Prep Date:		03/25/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)		292	20.0	0	294.4				0.784	20	
Alkalinity, Carbonate (As CaCO3)		0	20.0	0	0				0	20	
Alkalinity, Hydroxide (As CaCO3)		0	20.0	0	0				0	20	
Alkalinity, Total (As CaCO3)		292	20.0	0	294.4				0.784	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903151
Project: RRC Petronila PZ/SW

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_090325A

Sample ID:	ICV-090325	Batch ID:	R42524	TestNo:	M2320 B	Units:	mg/L
SampType:	ICV	Run ID:	TITRATOR_090325A	Analysis Date:	03/25/09 12:48 PM	Prep Date:	03/25/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	11.4	20.0	0							
Alkalinity, Carbonate (As CaCO3)	89.3	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0							
Alkalinity, Total (As CaCO3)	101	20.0	100.0	0	101	98	102			

Sample ID:	CCV1-090325	Batch ID:	R42524	TestNo:	M2320 B	Units:	mg/L
SampType:	CCV	Run ID:	TITRATOR_090325A	Analysis Date:	03/25/09 02:06 PM	Prep Date:	03/25/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	18.8	20.0	0							
Alkalinity, Carbonate (As CaCO3)	82.1	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0							
Alkalinity, Total (As CaCO3)	101	20.0	100.0	0	101	90	110			

Sample ID:	CCV2-090325	Batch ID:	R42524	TestNo:	M2320 B	Units:	mg/L
SampType:	CCV	Run ID:	TITRATOR_090325A	Analysis Date:	03/25/09 03:29 PM	Prep Date:	03/25/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	25.0	20.0	0							
Alkalinity, Carbonate (As CaCO3)	76.0	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0							
Alkalinity, Total (As CaCO3)	101	20.0	100.0	0	101	90	110			

Sample ID:	CCV3-090325	Batch ID:	R42524	TestNo:	M2320 B	Units:	mg/L
SampType:	CCV	Run ID:	TITRATOR_090325A	Analysis Date:	03/25/09 03:55 PM	Prep Date:	03/25/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	21.5	20.0	0							
Alkalinity, Carbonate (As CaCO3)	79.4	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0							
Alkalinity, Total (As CaCO3)	101	20.0	100.0	0	101	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903151
Project: RRC Petronila PZ/SW

ANALYTICAL QC SUMMARY REPORT

RunID: WC_090325B

Sample ID:	MB-34138	Batch ID:	34138		TestNo:	M2540C			Units:		mg/L
SampType:	MBLK	Run ID:	WC_090325B		Analysis Date:	03/26/09 09:30 AM			Prep Date:		03/25/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Fi		ND	10.0								

Sample ID:	LCS-34138	Batch ID:	34138		TestNo:	M2540C			Units:		mg/L
SampType:	LCS	Run ID:	WC_090325B		Analysis Date:	03/26/09 09:30 AM			Prep Date:		03/25/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Fi		754	10.0	745.6	0	101	90	113			

Sample ID:	0903142-10B-DUP	Batch ID:	34138		TestNo:	M2540C			Units:		mg/L
SampType:	DUP	Run ID:	WC_090325B		Analysis Date:	03/26/09 09:30 AM			Prep Date:		03/25/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Fi		27800	10.0	0	28580				2.77	5	

Sample ID:	0903151-02B-DUP	Batch ID:	34138		TestNo:	M2540C			Units:		mg/L
SampType:	DUP	Run ID:	WC_090325B		Analysis Date:	03/26/09 09:30 AM			Prep Date:		03/25/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Fi		22400	10.0	0	22040				1.80	5	

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903151
Project: RRC Petronila PZ/SW

ANALYTICAL QC SUMMARY REPORT

RunID: WC_090326A

Sample ID:	MB-34159	Batch ID:	34159		TestNo:	M2540C			Units:		mg/L
SampType:	MBLK	Run ID:	WC_090326A		Analysis Date:	03/26/09 09:00 AM			Prep Date:		03/26/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Fi		ND	10.0								

Sample ID:	LCS-34159	Batch ID:	34159		TestNo:	M2540C			Units:		mg/L
SampType:	LCS	Run ID:	WC_090326A		Analysis Date:	03/26/09 09:00 AM			Prep Date:		03/26/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Fi		756	10.0	745.6	0	101	90	113			

Sample ID:	0903165-01B DUP	Batch ID:	34159		TestNo:	M2540C			Units:		mg/L
SampType:	DUP	Run ID:	WC_090326A		Analysis Date:	03/26/09 09:00 AM			Prep Date:		03/26/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Fi		4200	10.0	0	4377				4.10	5	

Sample ID:	0903152-05B DUP	Batch ID:	34159		TestNo:	M2540C			Units:		mg/L
SampType:	DUP	Run ID:	WC_090326A		Analysis Date:	03/26/09 09:00 AM			Prep Date:		03/26/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Fi		29400	10.0	0	30440				3.34	5	

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903151
Project: RRC Petronila PZ/SW

ANALYTICAL QC SUMMARY REPORT

RunID: WC_090402A

Sample ID:	0903151-02B-DUP	Batch ID:	34276	TestNo:	M2510 B			Units:		µmhos/cm
SampType:	DUP	Run ID:	WC_090402A	Analysis Date:	04/02/09 09:30 AM			Prep Date:		04/02/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit HighLimit	%RPD	RPD Limit	Qual
Specific Conductance		29500	20.0	0	29020			1.71	2	

Sample ID:	0903165-01B-DUP	Batch ID:	34276	TestNo:	M2510 B			Units:		µmhos/cm
SampType:	DUP	Run ID:	WC_090402A	Analysis Date:	04/02/09 09:30 AM			Prep Date:		04/02/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit HighLimit	%RPD	RPD Limit	Qual
Specific Conductance		5060	10.0	0	5010			0.993	2	

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903151
Project: RRC Petronila PZ/SW

ANALYTICAL QC SUMMARY REPORT

RunID: WC_090402A

Sample ID:	ICV-090401	Batch ID:	CONDW-04/02/09	TestNo:		M2510 B			Units:		µmhos/cm
SampType:	ICV	Run ID:	WC_090402A	Analysis Date:		04/02/09 09:30 AM			Prep Date:		04/02/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Specific Conductance		12700	10.0	12880	0	98.6	95	105			

Sample ID:	CCV1-090401	Batch ID:	CONDW-04/02/09	TestNo:		M2510 B			Units:		µmhos/cm
SampType:	CCV	Run ID:	WC_090402A	Analysis Date:		04/02/09 09:30 AM			Prep Date:		04/02/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Specific Conductance		12600	10.0	12880	0	97.4	95	105			

Sample ID:	CCV2-090401	Batch ID:	CONDW-04/02/09	TestNo:		M2510 B			Units:		µmhos/cm
SampType:	CCV	Run ID:	WC_090402A	Analysis Date:		04/02/09 09:30 AM			Prep Date:		04/02/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Specific Conductance		12500	10.0	12880	0	97.1	95	105			

Sample ID:	CCV3-090401	Batch ID:	CONDW-04/02/09	TestNo:		M2510 B			Units:		µmhos/cm
SampType:	CCV	Run ID:	WC_090402A	Analysis Date:		04/02/09 09:30 AM			Prep Date:		04/02/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Specific Conductance		12500	10.0	12880	0	96.8	95	105			

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903151
Project: RRC Petronila PZ/SW

MQL SUMMARY REPORT

TestNo: E300 Analyte	MDL mg/L	MQL mg/L
Bromide	0.300	1.00
Chloride	0.300	1.00
Nitrate-N	0.100	0.500
Sulfate	1.00	3.00

TestNo: M2320 B Analyte	MDL mg/L	MQL mg/L
Alkalinity, Bicarbonate (As CaCO3)	10.0	20.0
Alkalinity, Carbonate (As CaCO3)	10.0	20.0
Alkalinity, Hydroxide (As CaCO3)	10.0	20.0
Alkalinity, Total (As CaCO3)	10.0	20.0

TestNo: SW6020 Analyte	MDL mg/L	MQL mg/L
Barium	0.00300	0.0100
Calcium	0.100	0.300
Iron	0.0500	0.150
Magnesium	0.100	0.300
Potassium	0.100	0.300
Sodium	0.100	0.300

TestNo: M2540C Analyte	MDL mg/L	MQL mg/L
Total Dissolved Solids (Residue, Fi	10.0	10.0

Qualifiers:
MQL - Method Quantitation Limit as defined by TRRP
MDL - Method Detection Limit as defined by TRRP

April 03, 2009

James Harte
TRC Environmental Corp.
505 East Huntland Drive Suite 250
Austin, Texas 78752

TEL: (512) 329-6080
FAX: (512) 329-8750

Order No: 0903152

RE: RRC Petronila Creek GW

Dear James Harte:

DHL Analytical received 8 sample(s) on 3/20/2009 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

John DuPont
Lab Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-08C-TX

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DHL ANALYTICAL

2300 Double Creek Drive • Round Rock, TX 78664
Phone (512) 388-8222 • FAX (512) 388-8229

№ 37524

CHAIN-OF-CUSTODY

CLIENT: TRC
ADDRESS: 505 E. Huntland Dr., Ste.
PHONE: 512-329-6080 FAX 512-329-8750
DATA REPORTED TO: J. HARTE
ADDITIONAL REPORT COPIES TO: S. MILLER

DATE: 3/19/09 PAGE 1 OF 1
PO #: DHL WORK ORDER #: 0903152
PROJECT LOCATION OR NAME: Petronila Creek GW
CLIENT PROJECT #: 166470-04 COLLECTOR: RK/MT

Authorize 5% surcharge for TRRP report? ☐ Yes ☒ No

S=SOIL W=WATER A=AIR P=PAINT SL=SLUDGE OT=OTHER

PRESERVATION: HCl | HNO_3 | H_2SO_4 ☐ NaOH ☐ | ICE | UNPRESERVED

ANALYSES: BTEX ☐ MTBE ☐ | TRPH 418.1 ☐ | TPH 1005 ☐ TPH 1006 ☐ | GASOLINE MOD 8015 ☐ | DIESEL - MOD 8015 ☐ | VOC 8260 ☐ | SVOC 8270 ☐ | PAH 8270 ☐ HOLDPAH ☐ | 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ | 8082 PCBS ☐ | TCLP - METALS (RCRA) ☐ TCLP VOC ☐ | TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ | TOTAL METALS (RCRA) ☐ OTHER LIST ☐ | LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐ | RCI ☐ TOX ☐ FLASHPOINT ☐ | TDS ☒ TSS ☐ % MOISTURE ☐ CYANIDE ☐ | PH ☒ HEXAVALENT CHROMIUM ☐ | EXPLOSIVES ☐ PECHLORATE ☐ | CHLORIDE ☒ ANIONS ☒ ALKALINITY ☒ | CATIONS | CONDUCTIVITY | FIELD NOTES

Field Sample I.D.	DHL Lab #	Date	Time	Matrix	Container Type	# of Containers	HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESERVED	ANALYSES	FIELD NOTES
P-MW-17	01	3/19/09	0950	W	250,500mL	2		X		X		TDS, TSS, PH, CHLORIDE, ANIONS, ALKALINITY, CATIONS, CONDUCTIVITY	CATIONS: Ca, Na, Mg, K, Fe, Ba
P-MW-19	02		1110	W		2		X		X		TDS, TSS, PH, CHLORIDE, ANIONS, ALKALINITY, CATIONS, CONDUCTIVITY	ANIONS: Cl, Br, Sulfate, Nitrate
~~P-4~~ P-MW-4	03		1305	W		2		X		X		TDS, TSS, PH, CHLORIDE, ANIONS, ALKALINITY, CATIONS, CONDUCTIVITY	
P-MW-5	04		1400	W		2		X		X		TDS, TSS, PH, CHLORIDE, ANIONS, ALKALINITY, CATIONS, CONDUCTIVITY	ALKALINITY: CARBONATE & BICARBONATE
P-MW-6	05		1440	W		2		X		X		TDS, TSS, PH, CHLORIDE, ANIONS, ALKALINITY, CATIONS, CONDUCTIVITY	
P-MW-7	06		1605	W		2		X		X		TDS, TSS, PH, CHLORIDE, ANIONS, ALKALINITY, CATIONS, CONDUCTIVITY	
P-MW-8	07	↓	1715	W	↓	2		X		X		TDS, TSS, PH, CHLORIDE, ANIONS, ALKALINITY, CATIONS, CONDUCTIVITY	
P-EB-W-03-19-09-1	08	3/19/09	1620	W	250,500mL	2		X		X		TDS, TSS, PH, CHLORIDE, ANIONS, ALKALINITY, CONDUCTIVITY	BILL THIS LINE TO TRC (NOT INTERA)
													add per James SB 3/20/09
TOTAL													

RELINQUISHED BY: (Signature) — DATE/TIME: 3/19/09 18:00 — RECEIVED BY: (Signature) FedEX
RELINQUISHED BY: (Signature) FedEX — DATE/TIME: 3/20/09 0830 — RECEIVED BY: (Signature) akuhanecki
RELINQUISHED BY: (Signature) — DATE/TIME — RECEIVED BY: (Signature)

☐ DHL DISPOSAL @ $5.00 each ☐ Return

TURN AROUND TIME
RUSH ☐ CALL FIRST
1 DAY ☐ CALL FIRST
2 DAY ☐
NORMAL ☒
OTHER ☐ ____

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☒ CARRIER BILL # FedEX
☐ APC DELIVERY
☐ HAND DELIVERED

FedEx US Airbill
Express

FedEx Tracking Number 8686 4644 9991

Form ID No. 0200 — Recipient's Copy

1 From

Date 3/19/09

Sender's Name Barrett Clark Phone 512 329-6080

Company TRC

Address 505 E. Huntland Dr 250

Dept./Floor/Suite/Room

City Austin State TX ZIP 78752

2 Your Internal Billing Reference 166420-04

3 To

Recipient's Name Receiving Phone 512 388-8222

Company DHL Analytical

Recipient's Address 2300 Double Creek Dr

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

Address

To request a package be held at a specific FedEx location, print FedEx address here.

City Round Rock State TX ZIP 78664

8686 4644 9991

4a Express Package Service — *Packages up to 150 lbs.*

- [x] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.
- [ ] FedEx 2Day — Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

FedEx Envelope rate not available. Minimum charge: One-pound rate.

* To most locations.

4b Express Freight Service — *Packages over 150 lbs.*

- [ ] FedEx 1Day Freight* — Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 2Day Freight — Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available.

* Call for Confirmation:

** To most locations.

5 Packaging

- [ ] FedEx Envelope*
- [ ] FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak.
- [ ] FedEx Box
- [ ] FedEx Tube
- [x] Other

* Declared value limit $500.

6 Special Handling — Include FedEx address in Section 3.

- [ ] SATURDAY Delivery — Not available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.
- [ ] HOLD Weekday at FedEx Location — Not available for FedEx First Overnight.
- [ ] HOLD Saturday at FedEx Location — Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Does this shipment contain dangerous goods? One box must be checked.

- [x] No
- [ ] Yes — As per attached Shipper's Declaration.
- [ ] Yes — Shipper's Declaration not required.
- [ ] Dry Ice — Dry ice, 9, UN 1845 ____ x ____ kg
- [ ] Cargo Aircraft Only

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging.

7 Payment *Bill to:* — Enter FedEx Acct. No. or Credit Card No. below. Obtain Recip. Acct. No. [ ]

- [x] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

Total Packages	Total Weight	Total Declared Value†
1	1 x	$ .00

†Our liability is limited to $100 unless you declare a higher value. See back for details.

Credit Card Auth.

8 Residential Delivery Signature Options If you require a signature, check Direct or Indirect.

- [ ] No Signature Required — Package may be left without obtaining a signature for delivery.
- [ ] Direct Signature — Someone at recipient's address may sign for delivery. *Fee applies.*
- [x] Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. *Fee applies.*

520

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800-255-3950 • 304-255-3900

Laboratory Data Package Signature Page

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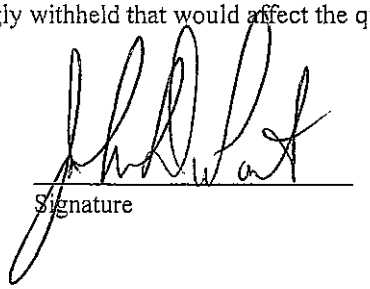
This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC 5.13
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix;
- R10 Other problems or anomalies.

The Exception Report for every "No" or "Not Reviewed (NR)" item in laboratory review checklist.

Release Statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By me signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

Scott Schroeder – Project Manager
John DuPont – General / QA Manager



Signature

04/03/09

Date

DHL Analytical, Inc.

Laboratory Review Checklist: Reportable Data

Project Name: RRC Petronila Creek GW	Date: 4/3/09
Reviewer Name: Carlos Castro	Laboratory Work Order: 0903152
Prep Batch Number(s): See Prep Dates Report	Run Batch: See Analytical Dates Report

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-Custody (C-O-C)					
R1	OI	1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				R1-01
		2) Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and Quality Control (QC) Identification**					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test Reports**					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample quantitation limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?			X		
		7) Were % moisture (or solids) reported for all soil and sediment samples?			X		
		8) If required for the project, TICs reported?			X		
R4	O	**Surrogate Recovery Data**					
		1) Were surrogates added prior to extraction?			X		
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test Reports/Summary Forms for Blank Samples**					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Where method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations < MQL?	X				
R6	OI	**Laboratory Control Samples (LCS):**					
		1) Were all COCs included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs?	X				
		6) Was the LCSD RPD within QC limits (if applicable)?	X				
R7	OI	**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data**					
		1) Were the project/method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			R7-03
		4) Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical Duplicate Data**					
		1) Were appropriate analytical duplicates analyzed for each matrix?	X				
		2) Were analytical duplicates analyzed at the appropriate frequency?	X				
		3) Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	**Method Quantitation Limits (MQLs):**					
		1) Are the MQLs for each method analyte included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs included in the laboratory data package?	X				
R10	OI	**Other Problems/Anomalies**					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				R10-01
		2) Were all necessary corrective actions performed for the reported data?	X				
		3) Was applicable and available technology used to lower the SQL minimize the matrix interference affects on the sample results?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

DHL Analytical, Inc.

Laboratory Review Checklist (continued): Supporting Data

Project Name: RRC Petronila Creek GW	Date: 4/3/09
Reviewer Name: Carlos Castro	Laboratory Work Order: 0903152

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial Calibration (ICAL)**					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB):**					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass Spectral Tuning:**					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal Standards (IS):**					
		1) Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**Raw Data (NELAC section 1 appendix A glossary, and section 5.12)**					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual Column Confirmation**					
		1) Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively Identified Compounds (TICs):**					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) Results:**					
		1) Were percent recoveries within method QC limits?	X				
S9	I	**Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions**					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?		X			S9-01
S10	OI	**Method Detection Limit (MDL) Studies**					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency Test Reports:**					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards Documentation**					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/Analyte Identification Procedures**					
		1) Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of Analyst Competency (DOC)**					
		1) Was DOC conducted consistent with NELAC Chapter 5C?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/Validation Documentation for Methods** (NELAC Chap 5)					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory Standard Operating Procedures (SOPs):**					
		1) Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

DHL Analytical

Sample Receipt Checklist

Client Name TRC Environmental Corp.

Date Received: 3/20/2009

Work Order Number 0903152

Received by AK

Checklist completed by: [signature] 3/20/09
Signature Date

Reviewed by AL 3/20/09
Initials Date

Carrier name: FedEx 1day

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	2.5 °C
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	Not Applicable ☐

Adjusted? NO Checked by [signature]

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

CLIENT:	TRC Environmental Corp.
Project:	RRC Petronila Creek GW
Lab Order:	0903152

CASE NARRATIVE

The samples were analyzed using the methods outlined in the following references:

Method SW6020 - Metals Analysis
Method E300 - Anions Analysis
Method M2320 B (18th Edition) - Alkalinity Analysis
Method M2510 B (18th Edition) - Specific Conductance
Method M2540C (18th Edition) - TDS Analysis
Method M4500-H+ B (18th Edition) - pH of a Water

Exception Report R1-01

Samples were received and log-in performed on 3/20/09 . A total of 8 samples were received. The samples arrived in good condition and were properly packaged.

Exception Report R7-03

For Metals analysis performed on 3/26/09 and 4/3/09 the matrix spikes and matrix spike duplicate recoveries were out of control limits for some analytes. These are flagged accordingly in the QC summary report. The reference sample selected for the matrix spikes and matrix spike duplicates was not from this work order. The LCS was within control limits for these analytes. No further corrective actions were taken.

Exception Report R10-01

For Anions analysis a few samples were diluted prior to analysis due to the the nature of the samples (chloride concentration).

For TDS analysis sample P-MW-4 had the TDS/Conductivity ratio below control limits due to the Hydroxide concentration in the sample. In addition, sample P-EB-W-03-19-09-1 had the TDS/ Conductivity ratio above control limits due to the low conductivity of the sample.

Exception Report S9-01

For Metals analysis performed on 4/3/09 the RPD for the serial dilution was slightly above control limits for Iron. This is flagged accordingly in the QC summary report. The PDS was within control limits for this analyte. No further corrective actions were taken.

CLIENT: TRC Environmental Corp.
Project: RRC Petronila Creek GW
Lab Order: 0903152

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recv'd
0903152-01	P-MW-17		03/19/09 09:50 AM	03/20/09
0903152-02	P-MW-19		03/19/09 11:10 AM	03/20/09
0903152-03	P-MW-4		03/19/09 01:05 PM	03/20/09
0903152-04	P-MW-5		03/19/09 02:00 PM	03/20/09
0903152-05	P-MW-6		03/19/09 02:40 PM	03/20/09
0903152-06	P-MW-7		03/19/09 04:05 PM	03/20/09
0903152-07	P-MW-8		03/19/09 05:15 PM	03/20/09
0903152-08	P-EB-W-03-19-09-1		03/19/09 04:20 PM	03/20/09

CLIENT: TRC Environmental Corp.
Project: RRC Petronila Creek GW
Lab Order: 0903152

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
0903152-01A	P-MW-17	03/19/09 09:50 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/20/09 10:11 AM	34056
	P-MW-17	03/19/09 09:50 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/20/09 10:11 AM	34056
	P-MW-17	03/19/09 09:50 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/20/09 10:11 AM	34056
	P-MW-17	03/19/09 09:50 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/20/09 10:11 AM	34056
	P-MW-17	03/19/09 09:50 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/20/09 10:11 AM	34056
	P-MW-17	03/19/09 09:50 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/20/09 10:11 AM	34056
	P-MW-17	03/19/09 09:50 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/20/09 10:11 AM	34056
	P-MW-17	03/19/09 09:50 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/20/09 10:11 AM	34056
0903152-01B	P-MW-17	03/19/09 09:50 AM	Aqueous	E300	Anion Preparation	03/20/09 09:58 AM	34055
	P-MW-17	03/19/09 09:50 AM	Aqueous	E300	Anion Preparation	03/20/09 09:58 AM	34055
	P-MW-17	03/19/09 09:50 AM	Aqueous	E300	Anion Preparation	03/20/09 09:58 AM	34055
	P-MW-17	03/19/09 09:50 AM	Aqueous	M2320 B	Alkalinity Preparation	03/25/09 01:32 PM	34132
	P-MW-17	03/19/09 09:50 AM	Aqueous	M4500-H+ B	pH Preparation	03/20/09 11:00 PM	34063
	P-MW-17	03/19/09 09:50 AM	Aqueous	M2510 B	Conductivity Preparation	04/02/09 09:03 AM	34276
	P-MW-17	03/19/09 09:50 AM	Aqueous	M2540C	TDS Preparation	03/26/09 08:00 AM	34159
0903152-02A	P-MW-19	03/19/09 11:10 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/20/09 10:11 AM	34056
	P-MW-19	03/19/09 11:10 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/20/09 10:11 AM	34056
0903152-02B	P-MW-19	03/19/09 11:10 AM	Aqueous	E300	Anion Preparation	03/20/09 09:58 AM	34055
	P-MW-19	03/19/09 11:10 AM	Aqueous	E300	Anion Preparation	03/20/09 09:58 AM	34055
	P-MW-19	03/19/09 11:10 AM	Aqueous	E300	Anion Preparation	03/20/09 09:58 AM	34055
	P-MW-19	03/19/09 11:10 AM	Aqueous	M2320 B	Alkalinity Preparation	03/25/09 01:32 PM	34132
	P-MW-19	03/19/09 11:10 AM	Aqueous	M4500-H+ B	pH Preparation	03/20/09 11:00 PM	34063
	P-MW-19	03/19/09 11:10 AM	Aqueous	M2510 B	Conductivity Preparation	04/02/09 09:03 AM	34276
	P-MW-19	03/19/09 11:10 AM	Aqueous	M2540C	TDS Preparation	03/26/09 08:00 AM	34159
0903152-03A	P-MW-4	03/19/09 01:05 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/20/09 10:11 AM	34056
	P-MW-4	03/19/09 01:05 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/20/09 10:11 AM	34056
	P-MW-4	03/19/09 01:05 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/20/09 10:11 AM	34056
0903152-03B	P-MW-4	03/19/09 01:05 PM	Aqueous	E300	Anion Preparation	03/20/09 09:58 AM	34055
	P-MW-4	03/19/09 01:05 PM	Aqueous	E300	Anion Preparation	03/20/09 09:58 AM	34055

CLIENT: TRC Environmental Corp.
Project: RRC Petronila Creek GW
Lab Order: 0903152

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
	P-MW-4	03/19/09 01:05 PM	Aqueous	E300	Anion Preparation	03/20/09 09:58 AM	34055
	P-MW-4	03/19/09 01:05 PM	Aqueous	E300	Anion Preparation	03/20/09 09:58 AM	34055
	P-MW-4	03/19/09 01:05 PM	Aqueous	E300	Anion Preparation	03/20/09 09:58 AM	34055
	P-MW-4	03/19/09 01:05 PM	Aqueous	M2320 B	Alkalinity Preparation	03/25/09 01:32 PM	34132
	P-MW-4	03/19/09 01:05 PM	Aqueous	M4500-H+ B	pH Preparation	03/20/09 11:00 PM	34063
	P-MW-4	03/19/09 01:05 PM	Aqueous	M2510 B	Conductivity Preparation	04/02/09 09:03 AM	34276
	P-MW-4	03/19/09 01:05 PM	Aqueous	M2540C	TDS Preparation	03/26/09 08:00 AM	34159
0903152-04A	P-MW-5	03/19/09 02:00 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/20/09 10:11 AM	34056
	P-MW-5	03/19/09 02:00 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/20/09 10:11 AM	34056
	P-MW-5	03/19/09 02:00 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/20/09 10:11 AM	34056
0903152-04B	P-MW-5	03/19/09 02:00 PM	Aqueous	E300	Anion Preparation	03/20/09 09:58 AM	34055
	P-MW-5	03/19/09 02:00 PM	Aqueous	E300	Anion Preparation	03/20/09 09:58 AM	34055
	P-MW-5	03/19/09 02:00 PM	Aqueous	E300	Anion Preparation	03/20/09 09:58 AM	34055
	P-MW-5	03/19/09 02:00 PM	Aqueous	M2320 B	Alkalinity Preparation	03/25/09 01:32 PM	34132
	P-MW-5	03/19/09 02:00 PM	Aqueous	M4500-H+ B	pH Preparation	03/20/09 11:00 PM	34063
	P-MW-5	03/19/09 02:00 PM	Aqueous	M2510 B	Conductivity Preparation	04/02/09 09:03 AM	34276
	P-MW-5	03/19/09 02:00 PM	Aqueous	M2540C	TDS Preparation	03/26/09 08:00 AM	34159
0903152-05A	P-MW-6	03/19/09 02:40 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/20/09 10:11 AM	34056
	P-MW-6	03/19/09 02:40 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/20/09 10:11 AM	34056
	P-MW-6	03/19/09 02:40 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/20/09 10:11 AM	34056
0903152-05B	P-MW-6	03/19/09 02:40 PM	Aqueous	E300	Anion Preparation	03/20/09 09:58 AM	34055
	P-MW-6	03/19/09 02:40 PM	Aqueous	E300	Anion Preparation	03/20/09 09:58 AM	34055
	P-MW-6	03/19/09 02:40 PM	Aqueous	E300	Anion Preparation	03/20/09 09:58 AM	34055
	P-MW-6	03/19/09 02:40 PM	Aqueous	E300	Anion Preparation	03/20/09 09:58 AM	34055
	P-MW-6	03/19/09 02:40 PM	Aqueous	M2320 B	Alkalinity Preparation	03/25/09 01:32 PM	34132
	P-MW-6	03/19/09 02:40 PM	Aqueous	M4500-H+ B	pH Preparation	03/20/09 11:00 PM	34063
	P-MW-6	03/19/09 02:40 PM	Aqueous	M2510 B	Conductivity Preparation	04/02/09 09:03 AM	34276
	P-MW-6	03/19/09 02:40 PM	Aqueous	M2540C	TDS Preparation	03/26/09 08:00 AM	34159
0903152-06A	P-MW-7	03/19/09 04:05 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/20/09 10:11 AM	34056

CLIENT: TRC Environmental Corp.
Project: RRC Petronila Creek GW
Lab Order: 0903152

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
	P-MW-7	03/19/09 04:05 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/20/09 10:11 AM	34056
	P-MW-7	03/19/09 04:05 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/20/09 10:11 AM	34056
0903152-06B	P-MW-7	03/19/09 04:05 PM	Aqueous	E300	Anion Preparation	03/20/09 09:58 AM	34055
	P-MW-7	03/19/09 04:05 PM	Aqueous	E300	Anion Preparation	03/20/09 09:58 AM	34055
	P-MW-7	03/19/09 04:05 PM	Aqueous	E300	Anion Preparation	03/20/09 09:58 AM	34055
	P-MW-7	03/19/09 04:05 PM	Aqueous	M2320 B	Alkalinity Preparation	03/25/09 01:32 PM	34132
	P-MW-7	03/19/09 04:05 PM	Aqueous	M4500-H+ B	pH Preparation	03/20/09 11:00 PM	34063
	P-MW-7	03/19/09 04:05 PM	Aqueous	M2510 B	Conductivity Preparation	04/02/09 09:03 AM	34276
	P-MW-7	03/19/09 04:05 PM	Aqueous	M2540C	TDS Preparation	03/26/09 08:00 AM	34159
0903152-07A	P-MW-8	03/19/09 05:15 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/20/09 10:11 AM	34056
	P-MW-8	03/19/09 05:15 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/20/09 10:11 AM	34056
	P-MW-8	03/19/09 05:15 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/20/09 10:11 AM	34056
0903152-07B	P-MW-8	03/19/09 05:15 PM	Aqueous	E300	Anion Preparation	03/20/09 09:58 AM	34055
	P-MW-8	03/19/09 05:15 PM	Aqueous	E300	Anion Preparation	03/20/09 09:58 AM	34055
	P-MW-8	03/19/09 05:15 PM	Aqueous	E300	Anion Preparation	03/20/09 09:58 AM	34055
	P-MW-8	03/19/09 05:15 PM	Aqueous	M2320 B	Alkalinity Preparation	03/25/09 01:32 PM	34132
	P-MW-8	03/19/09 05:15 PM	Aqueous	M4500-H+ B	pH Preparation	03/20/09 11:00 PM	34063
	P-MW-8	03/19/09 05:15 PM	Aqueous	M2510 B	Conductivity Preparation	04/02/09 09:03 AM	34276
	P-MW-8	03/19/09 05:15 PM	Aqueous	M2540C	TDS Preparation	03/26/09 08:00 AM	34159
0903152-08A	P-EB-W-03-19-09-1	03/19/09 04:20 PM	Equip Blank	SW3005A	Aq Prep Metals : ICP-MS	03/20/09 10:11 AM	34056
0903152-08B	P-EB-W-03-19-09-1	03/19/09 04:20 PM	Equip Blank	E300	Anion Preparation	03/20/09 09:58 AM	34055
	P-EB-W-03-19-09-1	03/19/09 04:20 PM	Equip Blank	E300	Anion Preparation	03/20/09 09:58 AM	34055
	P-EB-W-03-19-09-1	03/19/09 04:20 PM	Equip Blank	E300	Anion Preparation	03/20/09 09:58 AM	34055
	P-EB-W-03-19-09-1	03/19/09 04:20 PM	Equip Blank	M2320 B	Alkalinity Preparation	03/25/09 01:32 PM	34132
	P-EB-W-03-19-09-1	03/19/09 04:20 PM	Equip Blank	M4500-H+ B	pH Preparation	03/20/09 05:00 AM	34150
	P-EB-W-03-19-09-1	03/19/09 04:20 PM	Equip Blank	M2510 B	Conductivity Preparation	04/02/09 09:03 AM	34276
	P-EB-W-03-19-09-1	03/19/09 04:20 PM	Equip Blank	M2540C	TDS Preparation	03/26/09 08:00 AM	34159

CLIENT: TRC Environmental Corp.
Project: RRC Petronila Creek GW
Lab Order: 0903152

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
0903152-01A	P-MW-17	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34056	1	03/24/09 02:06 AM	ICP-MS2_090323C
	P-MW-17	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34056	250	03/26/09 03:22 PM	ICP-MS3_090326A
	P-MW-17	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34056	1000	03/26/09 04:09 PM	ICP-MS3_090326A
	P-MW-17	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34056	5	03/26/09 06:27 PM	ICP-MS3_090326A
	P-MW-17	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34056	1	03/26/09 06:33 PM	ICP-MS3_090326A
	P-MW-17	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34056	500	03/27/09 11:47 AM	ICP-MS3_090327A
	P-MW-17	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34056	10	03/27/09 01:40 PM	ICP-MS3_090327A
	P-MW-17	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34056	1	03/27/09 01:45 PM	ICP-MS3_090327A
0903152-01B	P-MW-17	Aqueous	M2320 B	Alkalinity	34132	1	03/25/09 02:23 PM	TITRATOR_090325A
	P-MW-17	Aqueous	E300	Anions by IC method - Water	34055	5	03/20/09 12:43 PM	IC_090320A
	P-MW-17	Aqueous	E300	Anions by IC method - Water	34055	1000	03/27/09 01:38 PM	IC2_090327A
	P-MW-17	Aqueous	E300	Anions by IC method - Water	34055	10	03/27/09 07:57 PM	IC2_090327A
	P-MW-17	Aqueous	M4500-H+ B	pH	34063	1	03/20/09 11:42 AM	TITRATOR_090320B
	P-MW-17	Aqueous	M2510 B	Specific Conductance	34276	2	04/02/09 09:30 AM	WC_090402A
	P-MW-17	Aqueous	M2540C	Total Dissolved Solids	34159	1	03/26/09 09:00 AM	WC_090326A
0903152-02A	P-MW-19	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34056	1	03/24/09 02:11 AM	ICP-MS2_090323C
	P-MW-19	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34056	500	03/26/09 03:27 PM	ICP-MS3_090326A
0903152-02B	P-MW-19	Aqueous	M2320 B	Alkalinity	34132	1	03/25/09 02:29 PM	TITRATOR_090325A
	P-MW-19	Aqueous	E300	Anions by IC method - Water	34055	5	03/20/09 12:58 PM	IC_090320A
	P-MW-19	Aqueous	E300	Anions by IC method - Water	34055	1000	03/27/09 01:51 PM	IC2_090327A
	P-MW-19	Aqueous	E300	Anions by IC method - Water	34055	100	03/27/09 05:30 PM	IC2_090327A
	P-MW-19	Aqueous	M4500-H+ B	pH	34063	1	03/20/09 11:43 AM	TITRATOR_090320B
	P-MW-19	Aqueous	M2510 B	Specific Conductance	34276	4	04/02/09 09:30 AM	WC_090402A
	P-MW-19	Aqueous	M2540C	Total Dissolved Solids	34159	1	03/26/09 09:00 AM	WC_090326A
0903152-03A	P-MW-4	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34056	1	03/24/09 02:16 AM	ICP-MS2_090323C
	P-MW-4	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34056	100	03/26/09 03:32 PM	ICP-MS3_090326A
	P-MW-4	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34056	1	03/26/09 06:38 PM	ICP-MS3_090326A
0903152-03B	P-MW-4	Aqueous	M2320 B	Alkalinity	34132	1	03/25/09 02:45 PM	TITRATOR_090325A
	P-MW-4	Aqueous	E300	Anions by IC method - Water	34055	1	03/20/09 03:32 PM	IC_090320A

CLIENT: TRC Environmental Corp.
Project: RRC Petronila Creek GW
Lab Order: 0903152

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
	P-MW-4	Aqueous	E300	Anions by IC method - Water	34055	5	03/20/09 07:26 PM	IC_090320A
	P-MW-4	Aqueous	E300	Anions by IC method - Water	34055	1000	03/27/09 02:06 PM	IC2_090327A
	P-MW-4	Aqueous	E300	Anions by IC method - Water	34055	100	03/27/09 05:45 PM	IC2_090327A
	P-MW-4	Aqueous	E300	Anions by IC method - Water	34055	1	03/27/09 08:12 PM	IC2_090327A
	P-MW-4	Aqueous	M4500-H+ B	pH	34063	1	03/20/09 11:45 AM	TITRATOR_090320B
	P-MW-4	Aqueous	M2510 B	Specific Conductance	34276	1	04/02/09 09:30 AM	WC_090402A
	P-MW-4	Aqueous	M2540C	Total Dissolved Solids	34159	1	03/26/09 09:00 AM	WC_090326A
0903152-04A	P-MW-5	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34056	1	03/24/09 02:22 AM	ICP-MS2_090323C
	P-MW-5	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34056	500	03/26/09 03:37 PM	ICP-MS3_090326A
	P-MW-5	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34056	50	03/26/09 06:43 PM	ICP-MS3_090326A
0903152-04B	P-MW-5	Aqueous	M2320 B	Alkalinity	34132	1	03/25/09 02:51 PM	TITRATOR_090325A
	P-MW-5	Aqueous	E300	Anions by IC method - Water	34055	5	03/20/09 03:48 PM	IC_090320A
	P-MW-5	Aqueous	E300	Anions by IC method - Water	34055	1000	03/27/09 02:35 PM	IC2_090327A
	P-MW-5	Aqueous	E300	Anions by IC method - Water	34055	100	03/27/09 06:00 PM	IC2_090327A
	P-MW-5	Aqueous	M4500-H+ B	pH	34063	1	03/20/09 11:47 AM	TITRATOR_090320B
	P-MW-5	Aqueous	M2510 B	Specific Conductance	34276	2	04/02/09 09:30 AM	WC_090402A
	P-MW-5	Aqueous	M2540C	Total Dissolved Solids	34159	1	03/26/09 09:00 AM	WC_090326A
0903152-05A	P-MW-6	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34056	1	03/24/09 02:27 AM	ICP-MS2_090323C
	P-MW-6	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34056	500	03/26/09 03:43 PM	ICP-MS3_090326A
	P-MW-6	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34056	100	03/26/09 06:48 PM	ICP-MS3_090326A
0903152-05B	P-MW-6	Aqueous	M2320 B	Alkalinity	34132	1	03/25/09 03:00 PM	TITRATOR_090325A
	P-MW-6	Aqueous	E300	Anions by IC method - Water	34055	5	03/20/09 04:04 PM	IC_090320A
	P-MW-6	Aqueous	E300	Anions by IC method - Water	34055	5	03/20/09 07:42 PM	IC_090320A
	P-MW-6	Aqueous	E300	Anions by IC method - Water	34055	1000	03/27/09 02:50 PM	IC2_090327A
	P-MW-6	Aqueous	E300	Anions by IC method - Water	34055	100	03/27/09 06:14 PM	IC2_090327A
	P-MW-6	Aqueous	M4500-H+ B	pH	34063	1	03/20/09 11:48 AM	TITRATOR_090320B
	P-MW-6	Aqueous	M2510 B	Specific Conductance	34276	4	04/02/09 09:30 AM	WC_090402A
	P-MW-6	Aqueous	M2540C	Total Dissolved Solids	34159	1	03/26/09 09:00 AM	WC_090326A
0903152-06A	P-MW-7	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34056	1	03/24/09 02:32 AM	ICP-MS2_090323C

CLIENT: TRC Environmental Corp.
Project: RRC Petronila Creek GW
Lab Order: 0903152

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
	P-MW-7	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34056	500	03/26/09 03:48 PM	ICP-MS3_090326A
	P-MW-7	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34056	10	03/26/09 06:53 PM	ICP-MS3_090326A
0903152-06B	P-MW-7	Aqueous	M2320 B	Alkalinity	34132	1	03/25/09 03:05 PM	TITRATOR_090325A
	P-MW-7	Aqueous	E300	Anions by IC method - Water	34055	5	03/20/09 04:19 PM	IC_090320A
	P-MW-7	Aqueous	E300	Anions by IC method - Water	34055	1000	03/27/09 03:04 PM	IC2_090327A
	P-MW-7	Aqueous	E300	Anions by IC method - Water	34055	100	03/27/09 06:29 PM	IC2_090327A
	P-MW-7	Aqueous	M4500-H+ B	pH	34063	1	03/20/09 11:50 AM	TITRATOR_090320B
	P-MW-7	Aqueous	M2510 B	Specific Conductance	34276	2	04/02/09 09:30 AM	WC_090402A
	P-MW-7	Aqueous	M2540C	Total Dissolved Solids	34159	1	03/26/09 09:00 AM	WC_090326A
0903152-07A	P-MW-8	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34056	1	03/24/09 03:10 AM	ICP-MS2_090323C
	P-MW-8	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34056	1000	03/26/09 03:53 PM	ICP-MS3_090326A
	P-MW-8	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34056	50	03/26/09 06:58 PM	ICP-MS3_090326A
0903152-07B	P-MW-8	Aqueous	M2320 B	Alkalinity	34132	1	03/25/09 03:12 PM	TITRATOR_090325A
	P-MW-8	Aqueous	E300	Anions by IC method - Water	34055	5	03/20/09 04:35 PM	IC_090320A
	P-MW-8	Aqueous	E300	Anions by IC method - Water	34055	1000	03/27/09 03:19 PM	IC2_090327A
	P-MW-8	Aqueous	E300	Anions by IC method - Water	34055	100	03/27/09 06:44 PM	IC2_090327A
	P-MW-8	Aqueous	M4500-H+ B	pH	34063	1	03/20/09 11:51 AM	TITRATOR_090320B
	P-MW-8	Aqueous	M2510 B	Specific Conductance	34276	2	04/02/09 09:30 AM	WC_090402A
	P-MW-8	Aqueous	M2540C	Total Dissolved Solids	34159	1	03/26/09 09:00 AM	WC_090326A
0903152-08A	P-EB-W-03-19-09-1	Equip Blank	SW6020	Trace Metals: ICP-MS - Water	34056	1	03/26/09 03:58 PM	ICP-MS3_090326A
0903152-08B	P-EB-W-03-19-09-1	Equip Blank	M2320 B	Alkalinity	34132	1	03/25/09 03:14 PM	TITRATOR_090325A
	P-EB-W-03-19-09-1	Equip Blank	E300	Anions by IC method - Water	34055	1	03/20/09 04:51 PM	IC_090320A
	P-EB-W-03-19-09-1	Equip Blank	E300	Anions by IC method - Water	34055	1000	03/27/09 03:34 PM	IC2_090327A
	P-EB-W-03-19-09-1	Equip Blank	E300	Anions by IC method - Water	34055	1	03/27/09 07:42 PM	IC2_090327A
	P-EB-W-03-19-09-1	Equip Blank	M4500-H+ B	pH	34150	1	03/20/09 05:00 PM	PH_090320A
	P-EB-W-03-19-09-1	Equip Blank	M2510 B	Specific Conductance	34276	1	04/02/09 09:30 AM	WC_090402A
	P-EB-W-03-19-09-1	Equip Blank	M2540C	Total Dissolved Solids	34159	1	03/26/09 09:00 AM	WC_090326A

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-MW-17
Project:	RRC Petronila Creek GW	Lab ID:	0903152-01
Project No:	166420-04	Collection Date:	03/19/09 09:50 AM
Lab Order:	0903152	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		**SW6020**					**Analyst: CZ**
Barium	3.62	0.0300	0.100		mg/L	10	03/27/09 01:40 PM
Calcium	1740	50.0	150		mg/L	500	03/27/09 11:47 AM
Iron	0.0586	0.0500	0.150	J	mg/L	1	03/24/09 02:06 AM
Magnesium	ND	0.100	0.300		mg/L	1	03/27/09 01:45 PM
Potassium	375	50.0	150		mg/L	500	03/27/09 11:47 AM
Sodium	2710	50.0	150		mg/L	500	03/27/09 11:47 AM
Anions by IC method - Water		**E300**					**Analyst: DEW**
Bromide	19.6	1.50	5.00		mg/L	5	03/20/09 12:43 PM
Chloride	6840	300	1000		mg/L	1000	03/27/09 01:38 PM
Nitrate-N	ND	0.500	2.50		mg/L	5	03/20/09 12:43 PM
Sulfate	103	5.00	15.0		mg/L	5	03/20/09 12:43 PM
Alkalinity		**M2320 B**					**Analyst: JBC**
Alkalinity, Bicarbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	03/25/09 02:23 PM
Alkalinity, Carbonate (As CaCO3)	126	10.0	20.0		mg/L	1	03/25/09 02:23 PM
Alkalinity, Hydroxide (As CaCO3)	1530	10.0	20.0		mg/L	1	03/25/09 02:23 PM
Alkalinity, Total (As CaCO3)	1660	10.0	20.0		mg/L	1	03/25/09 02:23 PM
pH		**M4500-H+ B**					**Analyst: AAD**
pH	12.2	0	0		pH Units	1	03/20/09 11:42 AM
Specific Conductance		**M2510 B**					**Analyst: AAD**
Specific Conductance	26900	20.0	20.0		µmhos/cm	2	04/02/09 09:30 AM
Total Dissolved Solids		**M2540C**					**Analyst: JBC**
Total Dissolved Solids (Residue, Filterable)	16600	10.0	10.0		mg/L	1	03/26/09 09:00 AM

Qualifiers:

	See Final Page of Report for MQLs and MDLs
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between SDL and RL
N	Parameter not NELAC certified
ND	Not Detected at the SDL
RL	Reporting Limit (MQL adjusted for moisture and sample size)
S	Spike Recovery outside control limits
SDL	Sample Detection Limit

DHL Analytical

Date: 04/03/09

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-MW-19
Project:	RRC Petronila Creek GW	Lab ID:	0903152-02
Project No:	166420-04	Collection Date:	03/19/09 11:10 AM
Lab Order:	0903152	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		**SW6020**					**Analyst: KW**
Barium	0.129	0.00300	0.0100		mg/L	1	03/24/09 02:11 AM
Calcium	2630	50.0	150		mg/L	500	03/26/09 03:27 PM
Iron	5.50	0.0500	0.150		mg/L	1	03/24/09 02:11 AM
Magnesium	396	50.0	150		mg/L	500	03/26/09 03:27 PM
Potassium	8.12	0.100	0.300		mg/L	1	03/24/09 02:11 AM
Sodium	4940	50.0	150		mg/L	500	03/26/09 03:27 PM
Anions by IC method - Water		**E300**					**Analyst: DEW**
Bromide	42.9	1.50	5.00		mg/L	5	03/20/09 12:58 PM
Chloride	13900	300	1000		mg/L	1000	03/27/09 01:51 PM
Nitrate-N	2.83	0.500	2.50		mg/L	5	03/20/09 12:58 PM
Sulfate	1320	100	300		mg/L	100	03/27/09 05:30 PM
Alkalinity		**M2320 B**					**Analyst: JBC**
Alkalinity, Bicarbonate (As CaCO3)	201	10.0	20.0		mg/L	1	03/25/09 02:29 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	03/25/09 02:29 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	03/25/09 02:29 PM
Alkalinity, Total (As CaCO3)	201	10.0	20.0		mg/L	1	03/25/09 02:29 PM
pH		**M4500-H+ B**					**Analyst: AAD**
pH	7.56	0	0		pH Units	1	03/20/09 11:43 AM
Specific Conductance		**M2510 B**					**Analyst: AAD**
Specific Conductance	42600	40.0	40.0		µmhos/cm	4	04/02/09 09:30 AM
Total Dissolved Solids		**M2540C**					**Analyst: JBC**
Total Dissolved Solids (Residue, Filterable)	29500	10.0	10.0		mg/L	1	03/26/09 09:00 AM

Qualifiers:

	See Final Page of Report for MQLs and MDLs
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between SDL and RL
N	Parameter not NELAC certified
ND	Not Detected at the SDL
RL	Reporting Limit (MQL adjusted for moisture and sample size)
S	Spike Recovery outside control limits
SDL	Sample Detection Limit

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-MW-4
Project:	RRC Petronila Creek GW	Lab ID:	0903152-03
Project No:	166420-04	Collection Date:	03/19/09 01:05 PM
Lab Order:	0903152	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		**SW6020**					**Analyst: KW**
Barium	1.60	0.00300	0.0100		mg/L	1	03/24/09 02:16 AM
Calcium	710	10.0	30.0		mg/L	100	03/26/09 03:32 PM
Iron	0.557	0.0500	0.150		mg/L	1	03/24/09 02:16 AM
Magnesium	0.210	0.100	0.300	J	mg/L	1	03/26/09 06:38 PM
Potassium	68.1	10.0	30.0		mg/L	100	03/26/09 03:32 PM
Sodium	225	10.0	30.0		mg/L	100	03/26/09 03:32 PM
Anions by IC method - Water		**E300**					**Analyst: DEW**
Bromide	3.15	0.300	1.00		mg/L	1	03/27/09 08:12 PM
Chloride	719	30.0	100		mg/L	100	03/27/09 05:45 PM
Nitrate-N	ND	0.100	0.500		mg/L	1	03/27/09 08:12 PM
Sulfate	3.97	1.00	3.00		mg/L	1	03/27/09 08:12 PM
Alkalinity		**M2320 B**					**Analyst: JBC**
Alkalinity, Bicarbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	03/25/09 02:45 PM
Alkalinity, Carbonate (As CaCO3)	101	10.0	20.0		mg/L	1	03/25/09 02:45 PM
Alkalinity, Hydroxide (As CaCO3)	1390	10.0	20.0		mg/L	1	03/25/09 02:45 PM
Alkalinity, Total (As CaCO3)	1500	10.0	20.0		mg/L	1	03/25/09 02:45 PM
pH		**M4500-H+ B**					**Analyst: AAD**
pH	12.4	0	0		pH Units	1	03/20/09 11:45 AM
Specific Conductance		**M2510 B**					**Analyst: AAD**
Specific Conductance	8050	10.0	10.0		µmhos/cm	1	04/02/09 09:30 AM
Total Dissolved Solids		**M2540C**					**Analyst: JBC**
Total Dissolved Solids (Residue, Filterable)	2920	10.0	10.0		mg/L	1	03/26/09 09:00 AM

Qualifiers:

	See Final Page of Report for MQLs and MDLs
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between SDL and RL
N	Parameter not NELAC certified
ND	Not Detected at the SDL
RL	Reporting Limit (MQL adjusted for moisture and sample size)
S	Spike Recovery outside control limits
SDL	Sample Detection Limit

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-MW-5
Project:	RRC Petronila Creek GW	Lab ID:	0903152-04
Project No:	166420-04	Collection Date:	03/19/09 02:00 PM
Lab Order:	0903152	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		**SW6020**					**Analyst: KW**
Barium	0.211	0.00300	0.0100		mg/L	1	03/24/09 02:22 AM
Calcium	2420	50.0	150		mg/L	500	03/26/09 03:37 PM
Iron	0.191	0.0500	0.150		mg/L	1	03/24/09 02:22 AM
Magnesium	419	50.0	150		mg/L	500	03/26/09 03:37 PM
Potassium	36.4	5.00	15.0		mg/L	50	03/26/09 06:43 PM
Sodium	1740	50.0	150		mg/L	500	03/26/09 03:37 PM
Anions by IC method - Water		**E300**					**Analyst: DEW**
Bromide	26.9	1.50	5.00		mg/L	5	03/20/09 03:48 PM
Chloride	7820	300	1000		mg/L	1000	03/27/09 02:35 PM
Nitrate-N	3.52	0.500	2.50		mg/L	5	03/20/09 03:48 PM
Sulfate	570	100	300		mg/L	100	03/27/09 06:00 PM
Alkalinity		**M2320 B**					**Analyst: JBC**
Alkalinity, Bicarbonate (As CaCO3)	226	10.0	20.0		mg/L	1	03/25/09 02:51 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	03/25/09 02:51 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	03/25/09 02:51 PM
Alkalinity, Total (As CaCO3)	226	10.0	20.0		mg/L	1	03/25/09 02:51 PM
pH		**M4500-H+ B**					**Analyst: AAD**
pH	6.63	0	0		pH Units	1	03/20/09 11:47 AM
Specific Conductance		**M2510 B**					**Analyst: AAD**
Specific Conductance	24200	20.0	20.0		µmhos/cm	2	04/02/09 09:30 AM
Total Dissolved Solids		**M2540C**					**Analyst: JBC**
Total Dissolved Solids (Residue, Filterable)	18100	10.0	10.0		mg/L	1	03/26/09 09:00 AM

Qualifiers: See Final Page of Report for MQLs and MDLs

B	Analyte detected in the associated Method Blank	J	Analyte detected between SDL and RL
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the SDL
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit (MQL adjusted for moisture and sample size)
		S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-MW-6
Project:	RRC Petronila Creek GW	Lab ID:	0903152-05
Project No:	166420-04	Collection Date:	03/19/09 02:40 PM
Lab Order:	0903152	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		**SW6020**					**Analyst: KW**
Barium	0.0981	0.00300	0.0100		mg/L	1	03/24/09 02:27 AM
Calcium	3080	50.0	150		mg/L	500	03/26/09 03:43 PM
Iron	0.0622	0.0500	0.150	J	mg/L	1	03/24/09 02:27 AM
Magnesium	799	10.0	30.0		mg/L	100	03/26/09 06:48 PM
Potassium	84.5	10.0	30.0		mg/L	100	03/26/09 06:48 PM
Sodium	3640	50.0	150		mg/L	500	03/26/09 03:43 PM
Anions by IC method - Water		**E300**					**Analyst: DEW**
Bromide	54.2	1.50	5.00		mg/L	5	03/20/09 07:42 PM
Chloride	13300	300	1000		mg/L	1000	03/27/09 02:50 PM
Nitrate-N	ND	0.500	2.50		mg/L	5	03/20/09 07:42 PM
Sulfate	1300	100	300		mg/L	100	03/27/09 06:14 PM
Alkalinity		**M2320 B**					**Analyst: JBC**
Alkalinity, Bicarbonate (As CaCO3)	290	10.0	20.0		mg/L	1	03/25/09 03:00 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	03/25/09 03:00 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	03/25/09 03:00 PM
Alkalinity, Total (As CaCO3)	290	10.0	20.0		mg/L	1	03/25/09 03:00 PM
pH		**M4500-H+ B**					**Analyst: AAD**
pH	6.55	0	0		pH Units	1	03/20/09 11:48 AM
Specific Conductance		**M2510 B**					**Analyst: AAD**
Specific Conductance	41400	40.0	40.0		µmhos/cm	4	04/02/09 09:30 AM
Total Dissolved Solids		**M2540C**					**Analyst: JBC**
Total Dissolved Solids (Residue, Filterable)	30400	10.0	10.0		mg/L	1	03/26/09 09:00 AM

Qualifiers:

	See Final Page of Report for MQLs and MDLs
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between SDL and RL
N	Parameter not NELAC certified
ND	Not Detected at the SDL
RL	Reporting Limit (MQL adjusted for moisture and sample size)
S	Spike Recovery outside control limits
SDL	Sample Detection Limit

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-MW-7
Project:	RRC Petronila Creek GW	Lab ID:	0903152-06
Project No:	166420-04	Collection Date:	03/19/09 04:05 PM
Lab Order:	0903152	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		**SW6020**					**Analyst: KW**
Barium	0.217	0.00300	0.0100		mg/L	1	03/24/09 02:32 AM
Calcium	1150	50.0	150		mg/L	500	03/26/09 03:48 PM
Iron	0.0737	0.0500	0.150	J	mg/L	1	03/24/09 02:32 AM
Magnesium	18.2	1.00	3.00		mg/L	10	03/26/09 06:53 PM
Potassium	43.6	1.00	3.00		mg/L	10	03/26/09 06:53 PM
Sodium	3330	50.0	150		mg/L	500	03/26/09 03:48 PM
Anions by IC method - Water		**E300**					**Analyst: DEW**
Bromide	24.3	1.50	5.00		mg/L	5	03/20/09 04:19 PM
Chloride	7140	300	1000		mg/L	1000	03/27/09 03:04 PM
Nitrate-N	ND	0.500	2.50		mg/L	5	03/20/09 04:19 PM
Sulfate	817	100	300		mg/L	100	03/27/09 06:29 PM
Alkalinity		**M2320 B**					**Analyst: JBC**
Alkalinity, Bicarbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	03/25/09 03:05 PM
Alkalinity, Carbonate (As CaCO3)	55.4	10.0	20.0		mg/L	1	03/25/09 03:05 PM
Alkalinity, Hydroxide (As CaCO3)	16.1	10.0	20.0	J	mg/L	1	03/25/09 03:05 PM
Alkalinity, Total (As CaCO3)	71.5	10.0	20.0		mg/L	1	03/25/09 03:05 PM
pH		**M4500-H+ B**					**Analyst: AAD**
pH	10.5	0	0		pH Units	1	03/20/09 11:50 AM
Specific Conductance		**M2510 B**					**Analyst: AAD**
Specific Conductance	23500	20.0	20.0		µmhos/cm	2	04/02/09 09:30 AM
Total Dissolved Solids		**M2540C**					**Analyst: JBC**
Total Dissolved Solids (Residue, Filterable)	16200	10.0	10.0		mg/L	1	03/26/09 09:00 AM

Qualifiers:

	See Final Page of Report for MQLs and MDLs
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between SDL and RL
N	Parameter not NELAC certified
ND	Not Detected at the SDL
RL	Reporting Limit (MQL adjusted for moisture and sample size)
S	Spike Recovery outside control limits
SDL	Sample Detection Limit

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-MW-8
Project:	RRC Petronila Creek GW	Lab ID:	0903152-07
Project No:	166420-04	Collection Date:	03/19/09 05:15 PM
Lab Order:	0903152	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		**SW6020**					**Analyst: KW**
Barium	0.0615	0.00300	0.0100		mg/L	1	03/24/09 03:10 AM
Calcium	1430	100	300		mg/L	1000	03/26/09 03:53 PM
Iron	0.0991	0.0500	0.150	J	mg/L	1	03/24/09 03:10 AM
Magnesium	317	100	300		mg/L	1000	03/26/09 03:53 PM
Potassium	31.1	5.00	15.0		mg/L	50	03/26/09 06:58 PM
Sodium	5640	100	300		mg/L	1000	03/26/09 03:53 PM
Anions by IC method - Water		**E300**					**Analyst: DEW**
Bromide	37.4	1.50	5.00		mg/L	5	03/20/09 04:35 PM
Chloride	11800	300	1000		mg/L	1000	03/27/09 03:19 PM
Nitrate-N	2.86	0.500	2.50		mg/L	5	03/20/09 04:35 PM
Sulfate	1780	100	300		mg/L	100	03/27/09 06:44 PM
Alkalinity		**M2320 B**					**Analyst: JBC**
Alkalinity, Bicarbonate (As CaCO3)	280	10.0	20.0		mg/L	1	03/25/09 03:12 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	03/25/09 03:12 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	03/25/09 03:12 PM
Alkalinity, Total (As CaCO3)	280	10.0	20.0		mg/L	1	03/25/09 03:12 PM
pH		**M4500-H+ B**					**Analyst: AAD**
pH	7.58	0	0		pH Units	1	03/20/09 11:51 AM
Specific Conductance		**M2510 B**					**Analyst: AAD**
Specific Conductance	35500	20.0	20.0		µmhos/cm	2	04/02/09 09:30 AM
Total Dissolved Solids		**M2540C**					**Analyst: JBC**
Total Dissolved Solids (Residue, Filterable)	25700	10.0	10.0		mg/L	1	03/26/09 09:00 AM

Qualifiers:

	See Final Page of Report for MQLs and MDLs
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between SDL and RL
N	Parameter not NELAC certified
ND	Not Detected at the SDL
RL	Reporting Limit (MQL adjusted for moisture and sample size)
S	Spike Recovery outside control limits
SDL	Sample Detection Limit

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-EB-W-03-19-09-1
Project:	RRC Petronila Creek GW	Lab ID:	0903152-08
Project No:	166420-04	Collection Date:	03/19/09 04:20 PM
Lab Order:	0903152	Matrix:	Equip Blank

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		**SW6020**					**Analyst: CZ**
Barium	ND	0.00300	0.0100		mg/L	1	03/26/09 03:58 PM
Calcium	ND	0.100	0.300		mg/L	1	03/26/09 03:58 PM
Iron	ND	0.0500	0.150		mg/L	1	03/26/09 03:58 PM
Magnesium	ND	0.100	0.300		mg/L	1	03/26/09 03:58 PM
Potassium	ND	0.100	0.300		mg/L	1	03/26/09 03:58 PM
Sodium	ND	0.100	0.300		mg/L	1	03/26/09 03:58 PM
Anions by IC method - Water		**E300**					**Analyst: DEW**
Bromide	ND	0.300	1.00		mg/L	1	03/20/09 04:51 PM
Chloride	ND	0.300	1.00		mg/L	1	03/27/09 07:42 PM
Nitrate-N	ND	0.100	0.500		mg/L	1	03/20/09 04:51 PM
Sulfate	ND	1.00	3.00		mg/L	1	03/27/09 07:42 PM
Alkalinity		**M2320 B**					**Analyst: JBC**
Alkalinity, Bicarbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	03/25/09 03:14 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	03/25/09 03:14 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	03/25/09 03:14 PM
Alkalinity, Total (As CaCO3)	ND	10.0	20.0		mg/L	1	03/25/09 03:14 PM
pH		**M4500-H+ B**					**Analyst: AAD**
pH	4.82	0	0		pH Units	1	03/20/09 05:00 PM
Specific Conductance		**M2510 B**					**Analyst: AAD**
Specific Conductance	10.6	10.0	10.0		µmhos/cm	1	04/02/09 09:30 AM
Total Dissolved Solids		**M2540C**					**Analyst: JBC**
Total Dissolved Solids (Residue, Filterable)	31.0	10.0	10.0		mg/L	1	03/26/09 09:00 AM

Qualifiers:

	See Final Page of Report for MQLs and MDLs
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between SDL and RL
N	Parameter not NELAC certified
ND	Not Detected at the SDL
RL	Reporting Limit (MQL adjusted for moisture and sample size)
S	Spike Recovery outside control limits
SDL	Sample Detection Limit

CLIENT: TRC Environmental Corp.
Work Order: 0903152
Project: RRC Petronila Creek GW

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_090323C

Sample ID:	ICV1-090323	Batch ID:	R42473	TestNo:	SW6020	Units:	mg/L
SampType:	ICV	Run ID:	ICP-MS2_090323C	Analysis Date:	03/23/09 12:44 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.0976	0.0100	0.100	0	97.6	90	110			
Iron	2.62	0.150	2.50	0	105	90	110			
Potassium	2.46	0.300	2.50	0	98.2	90	110			

Sample ID:	CCV8-090323	Batch ID:	R42473	TestNo:	SW6020	Units:	mg/L
SampType:	CCV	Run ID:	ICP-MS2_090323C	Analysis Date:	03/24/09 01:12 AM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.200	0.0100	0.200	0	100	90	110			
Iron	4.73	0.150	5.00	0	94.6	90	110			
Potassium	5.25	0.300	5.00	0	105	90	110			

Sample ID:	CCV9-090323	Batch ID:	R42473	TestNo:	SW6020	Units:	mg/L
SampType:	CCV	Run ID:	ICP-MS2_090323C	Analysis Date:	03/24/09 02:38 AM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.201	0.0100	0.200	0	101	90	110			
Iron	4.59	0.150	5.00	0	91.9	90	110			
Potassium	5.09	0.300	5.00	0	102	90	110			

Sample ID:	CCV10-090323	Batch ID:	R42473	TestNo:	SW6020	Units:	mg/L
SampType:	CCV	Run ID:	ICP-MS2_090323C	Analysis Date:	03/24/09 03:21 AM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.204	0.0100	0.200	0	102	90	110			
Iron	4.60	0.150	5.00	0	92.1	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903152
Project: RRC Petronila Creek GW

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_090403A

Sample ID:	0903151-02A SD	Batch ID:	34056	TestNo:	SW6020	Units:	mg/L
SampType:	SD	Run ID:	ICP-MS2_090403A	Analysis Date:	04/03/09 12:32 PM	Prep Date:	03/20/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.0986	0.0500	0	0.0992				0.606	10	
Iron	4.52	0.750	0	3.75				18.5	10	R

Sample ID:	0903151-02A PDS	Batch ID:	34056	TestNo:	SW6020	Units:	mg/L
SampType:	PDS	Run ID:	ICP-MS2_090403A	Analysis Date:	04/03/09 12:37 PM	Prep Date:	03/20/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.289	0.0100	0.200	0.0992	94.9	75	125			
Iron	8.14	0.150	5.00	3.75	87.7	75	125			

Sample ID:	0903151-02A MS	Batch ID:	34056	TestNo:	SW6020	Units:	mg/L
SampType:	MS	Run ID:	ICP-MS2_090403A	Analysis Date:	04/03/09 12:43 PM	Prep Date:	03/20/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.274	0.0100	0.200	0.0992	87.1	80	120			
Iron	4.86	0.150	5.00	3.75	22.1	80	120			S

Sample ID:	0903151-02A MSD	Batch ID:	34056	TestNo:	SW6020	Units:	mg/L
SampType:	MSD	Run ID:	ICP-MS2_090403A	Analysis Date:	04/03/09 12:48 PM	Prep Date:	03/20/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.266	0.0100	0.200	0.0992	83.4	80	120	2.78	15	
Iron	4.83	0.150	5.00	3.75	21.5	80	120	0.661	15	S

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903152
Project: RRC Petronila Creek GW

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_090403A

Sample ID:	ICV1-090403	Batch ID:	R42680	TestNo:	SW6020	Units:	mg/L
SampType:	ICV	Run ID:	ICP-MS2_090403A	Analysis Date:	04/03/09 11:59 AM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.0996	0.0100	0.100	0	99.6	90	110			
Iron	2.68	0.150	2.50	0	107	90	110			

Sample ID:	CCV1-090403	Batch ID:	R42680	TestNo:	SW6020	Units:	mg/L
SampType:	CCV	Run ID:	ICP-MS2_090403A	Analysis Date:	04/03/09 12:16 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.196	0.0100	0.200	0	98.0	90	110			
Iron	4.94	0.150	5.00	0	98.8	90	110			

Sample ID:	CCV2-090403	Batch ID:	R42680	TestNo:	SW6020	Units:	mg/L
SampType:	CCV	Run ID:	ICP-MS2_090403A	Analysis Date:	04/03/09 12:53 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.194	0.0100	0.200	0	97.0	90	110			
Iron	4.98	0.150	5.00	0	99.7	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903152
Project: RRC Petronila Creek GW

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_090326A

Sample ID:	MB-34056	Batch ID:	34056		TestNo:		SW6020		Units:		mg/L
SampType:	MBLK	Run ID:	ICP-MS3_090326A		Analysis Date:		03/26/09 12:09 PM		Prep Date:		03/20/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium		ND	0.0100								
Calcium		ND	0.300								
Iron		ND	0.150								
Magnesium		ND	0.300								
Potassium		ND	0.300								
Sodium		ND	0.300								

Sample ID:	LCS-34056	Batch ID:	34056		TestNo:		SW6020		Units:		mg/L
SampType:	LCS	Run ID:	ICP-MS3_090326A		Analysis Date:		03/26/09 12:25 PM		Prep Date:		03/20/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium		0.203	0.0100	0.200	0	102	80	120			
Calcium		5.02	0.300	5.00	0	100	80	120			
Iron		4.80	0.150	5.00	0	96.0	80	120			
Magnesium		5.07	0.300	5.00	0	101	80	120			
Potassium		5.24	0.300	5.00	0	105	80	120			
Sodium		5.03	0.300	5.00	0	101	80	120			

Sample ID:	LCSD-34056	Batch ID:	34056		TestNo:		SW6020		Units:		mg/L
SampType:	LCSD	Run ID:	ICP-MS3_090326A		Analysis Date:		03/26/09 12:30 PM		Prep Date:		03/20/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium		0.203	0.0100	0.200	0	102	80	120	0.0492	15	
Calcium		5.00	0.300	5.00	0	99.9	80	120	0.400	15	
Iron		4.89	0.150	5.00	0	97.7	80	120	1.73	15	
Magnesium		5.06	0.300	5.00	0	101	80	120	0.257	15	
Potassium		5.22	0.300	5.00	0	104	80	120	0.287	15	
Sodium		5.02	0.300	5.00	0	100	80	120	0.0597	15	

Sample ID:	0903151-02A SD	Batch ID:	34056		TestNo:		SW6020		Units:		mg/L
SampType:	SD	Run ID:	ICP-MS3_090326A		Analysis Date:		03/26/09 01:16 PM		Prep Date:		03/20/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium		1550	750	0	1450				6.69	10	
Magnesium		361	750	0	355				1.69	10	
Sodium		4500	750	0	4140				8.23	10	

Sample ID:	0903151-02A PDS	Batch ID:	34056		TestNo:		SW6020		Units:		mg/L
SampType:	PDS	Run ID:	ICP-MS3_090326A		Analysis Date:		03/26/09 01:21 PM		Prep Date:		03/20/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium		4080	150	2500	1450	105	75	125			
Magnesium		2810	150	2500	355	98.1	75	125			
Sodium		6620	150	2500	4140	99.2	75	125			

Sample ID:	0903151-02A MS	Batch ID:	34056		TestNo:		SW6020		Units:		mg/L
SampType:	MS	Run ID:	ICP-MS3_090326A		Analysis Date:		03/26/09 01:26 PM		Prep Date:		03/20/09

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903152
Project: RRC Petronila Creek GW

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_090326A

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	1480	150	5.00	1450	590	80	120			S
Magnesium	365	150	5.00	355	193	80	120			S
Sodium	4190	150	5.00	4140	970	80	120			S

Sample ID: 0903151-02A MSD Batch ID: 34056 TestNo: SW6020 Units: mg/L
SampType: MSD Run ID: ICP-MS3_090326A Analysis Date: 03/26/09 01:31 PM Prep Date: 03/20/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	1450	150	5.00	1450	-130	80	120	2.46	15	S
Magnesium	364	150	5.00	355	180	80	120	0.178	15	S
Sodium	4240	150	5.00	4140	2070	80	120	1.30	15	S

Sample ID: 0903151-02A SD Batch ID: 34056 TestNo: SW6020 Units: mg/L
SampType: SD Run ID: ICP-MS3_090326A Analysis Date: 03/26/09 05:21 PM Prep Date: 03/20/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Potassium	0	75.0	0	24.5				0	10	

Sample ID: 0903151-02A PDS Batch ID: 34056 TestNo: SW6020 Units: mg/L
SampType: PDS Run ID: ICP-MS3_090326A Analysis Date: 03/26/09 05:26 PM Prep Date: 03/20/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Potassium	279	15.0	250	24.5	102	75	125			

Sample ID: 0903151-02A MS Batch ID: 34056 TestNo: SW6020 Units: mg/L
SampType: MS Run ID: ICP-MS3_090326A Analysis Date: 03/26/09 05:31 PM Prep Date: 03/20/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Potassium	28.9	15.0	5.00	24.5	86.7	80	120			

Sample ID: 0903151-02A MSD Batch ID: 34056 TestNo: SW6020 Units: mg/L
SampType: MSD Run ID: ICP-MS3_090326A Analysis Date: 03/26/09 05:36 PM Prep Date: 03/20/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Potassium	29.2	15.0	5.00	24.5	92.6	80	120	1.02	15	

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903152
Project: RRC Petronila Creek GW

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_090326A

Sample ID:	ICV1-090326	Batch ID:	R42551	TestNo:	SW6020	Units:	mg/L
SampType:	ICV	Run ID:	ICP-MS3_090326A	Analysis Date:	03/26/09 11:53 AM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.0978	0.0100	0.100	0	97.8	90	110			
Calcium	2.42	0.300	2.50	0	96.6	90	110			
Iron	2.51	0.150	2.50	0	100	90	110			
Magnesium	2.43	0.300	2.50	0	97.1	90	110			
Potassium	2.46	0.300	2.50	0	98.6	90	110			
Sodium	2.40	0.300	2.50	0	95.8	90	110			

Sample ID:	CCV1-090326	Batch ID:	R42551	TestNo:	SW6020	Units:	mg/L
SampType:	CCV	Run ID:	ICP-MS3_090326A	Analysis Date:	03/26/09 12:55 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.205	0.0100	0.200	0	103	90	110			
Calcium	4.83	0.300	5.00	0	96.6	90	110			
Iron	4.88	0.150	5.00	0	97.5	90	110			
Magnesium	4.98	0.300	5.00	0	99.5	90	110			
Potassium	5.11	0.300	5.00	0	102	90	110			
Sodium	4.97	0.300	5.00	0	99.5	90	110			

Sample ID:	CCV2-090326	Batch ID:	R42551	TestNo:	SW6020	Units:	mg/L
SampType:	CCV	Run ID:	ICP-MS3_090326A	Analysis Date:	03/26/09 02:02 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	4.90	0.300	5.00	0	97.9	90	110			
Magnesium	4.87	0.300	5.00	0	97.4	90	110			
Sodium	4.80	0.300	5.00	0	96.0	90	110			

Sample ID:	CCV3-090326	Batch ID:	R42551	TestNo:	SW6020	Units:	mg/L
SampType:	CCV	Run ID:	ICP-MS3_090326A	Analysis Date:	03/26/09 03:04 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.203	0.0100	0.200	0	102	90	110			
Calcium	5.00	0.300	5.00	0	99.9	90	110			
Iron	4.87	0.150	5.00	0	97.4	90	110			
Magnesium	4.93	0.300	5.00	0	98.5	90	110			
Potassium	5.16	0.300	5.00	0	103	90	110			
Sodium	4.82	0.300	5.00	0	96.5	90	110			

Sample ID:	CCV4-090326	Batch ID:	R42551	TestNo:	SW6020	Units:	mg/L
SampType:	CCV	Run ID:	ICP-MS3_090326A	Analysis Date:	03/26/09 04:14 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.198	0.0100	0.200	0	98.8	90	110			
Calcium	4.89	0.300	5.00	0	97.7	90	110			
Iron	4.81	0.150	5.00	0	96.2	90	110			
Magnesium	4.80	0.300	5.00	0	96.0	90	110			
Potassium	5.15	0.300	5.00	0	103	90	110			
Sodium	4.72	0.300	5.00	0	94.3	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903152
Project: RRC Petronila Creek GW

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_090326A

Sample ID:	CCV5-090326	Batch ID:	R42551	TestNo:	SW6020		Units:	mg/L		
SampType:	CCV	Run ID:	ICP-MS3_090326A	Analysis Date:	03/26/09 05:05 PM		Prep Date:			
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Potassium		5.16	0.300	5.00	0	103	90	110			

Sample ID:	CCV6-090326	Batch ID:	R42551	TestNo:	SW6020		Units:	mg/L		
SampType:	CCV	Run ID:	ICP-MS3_090326A	Analysis Date:	03/26/09 05:57 PM		Prep Date:			
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Magnesium		4.82	0.300	5.00	0	96.5	90	110			
Potassium		5.11	0.300	5.00	0	102	90	110			

Sample ID:	CCV7-090326	Batch ID:	R42551	TestNo:	SW6020		Units:	mg/L		
SampType:	CCV	Run ID:	ICP-MS3_090326A	Analysis Date:	03/26/09 07:19 PM		Prep Date:			
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Magnesium		4.72	0.300	5.00	0	94.3	90	110			
Potassium		5.11	0.300	5.00	0	102	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903152
Project: RRC Petronila Creek GW

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_090327A

Sample ID:	ICV1-090327	Batch ID:	R42568	TestNo:	SW6020	Units:	mg/L
SampType:	ICV	Run ID:	ICP-MS3_090327A	Analysis Date:	03/27/09 11:34 AM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.0972	0.0100	0.100	0	97.2	90	110			
Calcium	2.41	0.300	2.50	0	96.6	90	110			
Magnesium	2.43	0.300	2.50	0	97.2	90	110			
Potassium	2.43	0.300	2.50	0	97.3	90	110			

Sample ID:	CCV1-090327	Batch ID:	R42568	TestNo:	SW6020	Units:	mg/L
SampType:	CCV	Run ID:	ICP-MS3_090327A	Analysis Date:	03/27/09 11:53 AM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	4.96	0.300	5.00	0	99.2	90	110			
Potassium	5.01	0.300	5.00	0	100	90	110			
Sodium	4.97	0.300	5.00	0	99.4	90	110			

Sample ID:	CCV2-090327	Batch ID:	R42568	TestNo:	SW6020	Units:	mg/L
SampType:	CCV	Run ID:	ICP-MS3_090327A	Analysis Date:	03/27/09 12:54 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.200	0.0100	0.200	0	99.8	90	110			
Magnesium	4.88	0.300	5.00	0	97.5	90	110			

Sample ID:	CCV3-090327	Batch ID:	R42568	TestNo:	SW6020	Units:	mg/L
SampType:	CCV	Run ID:	ICP-MS3_090327A	Analysis Date:	03/27/09 02:00 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.203	0.0100	0.200	0	102	90	110			
Magnesium	4.95	0.300	5.00	0	99.0	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903152
Project: RRC Petronila Creek GW

ANALYTICAL QC SUMMARY REPORT

RunID: IC_090320A

Sample ID:	LCS-34055	Batch ID:	34055		TestNo:		E300		Units:		mg/L
SampType:	LCS	Run ID:	IC_090320A		Analysis Date:		03/20/09 10:53 AM		Prep Date:		03/20/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide		19.8	1.00	20.00	0	98.8	90	110			
Nitrate-N		4.96	0.500	5.000	0	99.2	90	110			
Sulfate		29.7	3.00	30.00	0	98.8	90	110			

Sample ID:	LCSD-34055	Batch ID:	34055		TestNo:		E300		Units:		mg/L
SampType:	LCSD	Run ID:	IC_090320A		Analysis Date:		03/20/09 11:08 AM		Prep Date:		03/20/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide		19.8	1.00	20.00	0	98.9	90	110	0.0895	20	
Nitrate-N		4.96	0.500	5.000	0	99.1	90	110	0.0504	20	
Sulfate		29.6	3.00	30.00	0	98.8	90	110	0.0617	20	

Sample ID:	MB-34055	Batch ID:	34055		TestNo:		E300		Units:		mg/L
SampType:	MBLK	Run ID:	IC_090320A		Analysis Date:		03/20/09 11:24 AM		Prep Date:		03/20/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide		ND	1.00								
Nitrate-N		ND	0.500								
Sulfate		ND	3.00								

Sample ID:	0903151-02BMS	Batch ID:	34055		TestNo:		E300		Units:		mg/L
SampType:	MS	Run ID:	IC_090320A		Analysis Date:		03/20/09 05:22 PM		Prep Date:		03/20/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide		126	5.00	100.0	17.71	108	90	110			
Nitrate-N		27.0	2.50	25.00	0.5673	106	90	110			

Sample ID:	0903151-02BMSD	Batch ID:	34055		TestNo:		E300		Units:		mg/L
SampType:	MSD	Run ID:	IC_090320A		Analysis Date:		03/20/09 05:38 PM		Prep Date:		03/20/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide		126	5.00	100.0	17.71	108	90	110	0.0927	20	
Nitrate-N		26.9	2.50	25.00	0.5673	105	90	110	0.373	20	

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903152
Project: RRC Petronila Creek GW

ANALYTICAL QC SUMMARY REPORT

RunID: IC_090320A

Sample ID:	ICV-090320	Batch ID:	R42442		TestNo:		E300		Units:		mg/L
SampType:	ICV	Run ID:	IC_090320A		Analysis Date:		03/20/09 10:37 AM		Prep Date:		03/20/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide		53.7	1.00	50.00	0	107	90	110			
Nitrate-N		13.5	0.500	12.50	0	108	90	110			
Sulfate		80.5	3.00	75.00	0	107	90	110			

Sample ID:	CCV1-090320	Batch ID:	R42442		TestNo:		E300		Units:		mg/L
SampType:	CCV	Run ID:	IC_090320A		Analysis Date:		03/20/09 03:15 PM		Prep Date:		03/20/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide		21.1	1.00	20.00	0	105	90	110			
Nitrate-N		5.25	0.500	5.000	0	105	90	110			
Sulfate		31.5	3.00	30.00	0	105	90	110			

Sample ID:	CCV2-090320	Batch ID:	R42442		TestNo:		E300		Units:		mg/L
SampType:	CCV	Run ID:	IC_090320A		Analysis Date:		03/20/09 06:08 PM		Prep Date:		03/20/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide		21.2	1.00	20.00	0	106	90	110			
Nitrate-N		5.28	0.500	5.000	0	106	90	110			

Sample ID:	CCV3-090320	Batch ID:	R42442		TestNo:		E300		Units:		mg/L
SampType:	CCV	Run ID:	IC_090320A		Analysis Date:		03/20/09 07:58 PM		Prep Date:		03/20/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide		21.1	1.00	20.00	0	106	90	110			
Nitrate-N		5.26	0.500	5.000	0	105	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903152
Project: RRC Petronila Creek GW

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_090327A

Sample ID:	LCS-34055	Batch ID:	34055		TestNo:		E300		Units:		mg/L
SampType:	LCS	Run ID:	IC2_090327A		Analysis Date:		03/27/09 09:27 AM		Prep Date:		03/20/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		9.22	1.00	10.00	0	92.2	90	110			
Sulfate		28.8	3.00	30.00	0	96.0	90	110			

Sample ID:	LCSD-34055	Batch ID:	34055		TestNo:		E300		Units:		mg/L
SampType:	LCSD	Run ID:	IC2_090327A		Analysis Date:		03/27/09 09:42 AM		Prep Date:		03/20/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		9.22	1.00	10.00	0	92.2	90	110	0.00108	20	
Sulfate		28.7	3.00	30.00	0	95.7	90	110	0.295	20	

Sample ID:	MB-34055	Batch ID:	34055		TestNo:		E300		Units:		mg/L
SampType:	MBLK	Run ID:	IC2_090327A		Analysis Date:		03/27/09 10:30 AM		Prep Date:		03/20/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		ND	1.00								
Sulfate		ND	3.00								

Sample ID:	0903151-02BMS	Batch ID:	34055		TestNo:		E300		Units:		mg/L
SampType:	MS	Run ID:	IC2_090327A		Analysis Date:		03/27/09 03:48 PM		Prep Date:		03/20/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		15300	1000	10000	5604	96.8	90	110			

Sample ID:	0903151-02BMSD	Batch ID:	34055		TestNo:		E300		Units:		mg/L
SampType:	MSD	Run ID:	IC2_090327A		Analysis Date:		03/27/09 04:03 PM		Prep Date:		03/20/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		15400	1000	10000	5604	97.5	90	110	0.437	20	

Sample ID:	0903151-02BMS	Batch ID:	34055		TestNo:		E300		Units:		mg/L
SampType:	MS	Run ID:	IC2_090327A		Analysis Date:		03/27/09 06:58 PM		Prep Date:		03/20/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Sulfate		3740	300	3000	793.1	98.2	90	110			

Sample ID:	0903151-02BMSD	Batch ID:	34055		TestNo:		E300		Units:		mg/L
SampType:	MSD	Run ID:	IC2_090327A		Analysis Date:		03/27/09 07:13 PM		Prep Date:		03/20/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Sulfate		3730	300	3000	793.1	98.0	90	110	0.185	20	

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903152
Project: RRC Petronila Creek GW

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_090327A

Sample ID:	ICV-090327	Batch ID:	R42575		TestNo:	E300			Units:	mg/L
SampType:	ICV	Run ID:	IC2_090327A		Analysis Date:	03/27/09 09:03 AM			Prep Date:	03/27/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit Qual
Chloride		24.3	1.00	25.00	0	97.0	90	110		
Sulfate		75.1	3.00	75.00	0	100	90	110		

Sample ID:	CCV1-090327	Batch ID:	R42575		TestNo:	E300			Units:	mg/L
SampType:	CCV	Run ID:	IC2_090327A		Analysis Date:	03/27/09 02:20 PM			Prep Date:	03/27/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit Qual
Chloride		9.70	1.00	10.00	0	97.0	90	110		
Sulfate		30.1	3.00	30.00	0	100	90	110		

Sample ID:	CCV2-090327	Batch ID:	R42575		TestNo:	E300			Units:	mg/L
SampType:	CCV	Run ID:	IC2_090327A		Analysis Date:	03/27/09 05:01 PM			Prep Date:	03/27/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit Qual
Chloride		9.79	1.00	10.00	0	97.9	90	110		
Sulfate		30.3	3.00	30.00	0	101	90	110		

Sample ID:	CCV3-090327	Batch ID:	R42575		TestNo:	E300			Units:	mg/L
SampType:	CCV	Run ID:	IC2_090327A		Analysis Date:	03/27/09 07:28 PM			Prep Date:	03/27/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit Qual
Chloride		9.78	1.00	10.00	0	97.8	90	110		
Sulfate		30.3	3.00	30.00	0	101	90	110		

Sample ID:	CCV4-090327	Batch ID:	R42575		TestNo:	E300			Units:	mg/L
SampType:	CCV	Run ID:	IC2_090327A		Analysis Date:	03/27/09 08:41 PM			Prep Date:	03/27/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit Qual
Chloride		9.82	1.00	10.00	0	98.2	90	110		
Sulfate		30.1	3.00	30.00	0	100	90	110		

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903152
Project: RRC Petronila Creek GW

ANALYTICAL QC SUMMARY REPORT

RunID: PH_090320A

Sample ID:	0903152-08B-DUP	Batch ID:	34150	TestNo:	M4500-H+ B		Units:	pH Units	
SampType:	DUP	Run ID:	PH_090320A	Analysis Date:	03/20/09 05:00 PM		Prep Date:	03/20/09	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
pH		4.94	0	0	4.821				2.52	5	

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903152
Project: RRC Petronila Creek GW

ANALYTICAL QC SUMMARY REPORT

RunID: PH_090320A

Sample ID:	ICV-090320	Batch ID:	PH_W-03/20/09	TestNo:	M4500-H+ B			Units:	pH Units	
SampType:	ICV	Run ID:	PH_090320A	Analysis Date:	03/20/09 05:00 PM			Prep Date:	03/20/09	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit Qual
pH		9.96	0	10.00	0	99.6	99	101		

Sample ID:	CCV-090320	Batch ID:	PH_W-03/20/09	TestNo:	M4500-H+ B			Units:	pH Units	
SampType:	CCV	Run ID:	PH_090320A	Analysis Date:	03/20/09 05:00 PM			Prep Date:	03/20/09	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit Qual
pH		6.92	0	7.000	0	98.9	97.1	102.9		

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903152
Project: RRC Petronila Creek GW

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_090320B

Sample ID:	0903151-02B-DUP	Batch ID:	34063		TestNo:	M4500-H+ B		Units:		pH Units	
SampType:	DUP	Run ID:	TITRATOR_090320B		Analysis Date:	03/20/09 11:39 AM		Prep Date:		03/20/09	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit HighLimit	%RPD	RPD Limit		Qual
pH		6.53	0	0	6.550			0.306	5		

Sample ID:	0903152-07B-DUP	Batch ID:	34063		TestNo:	M4500-H+ B		Units:		pH Units	
SampType:	DUP	Run ID:	TITRATOR_090320B		Analysis Date:	03/20/09 11:52 AM		Prep Date:		03/20/09	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit HighLimit	%RPD	RPD Limit		Qual
pH		7.23	0	0	7.580			4.73	5		

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903152
Project: RRC Petronila Creek GW

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_090320B

Sample ID:	ICV-090320	Batch ID:	R42438		TestNo:		M4500-H+ B		Units:		pH Units
SampType:	ICV	Run ID:	TITRATOR_090320B		Analysis Date:		03/20/09 11:37 AM		Prep Date:		03/20/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
pH		9.97	0	10.00	0	99.7	99	101			

Sample ID:	CCV1-090320	Batch ID:	R42438		TestNo:		M4500-H+ B		Units:		pH Units
SampType:	CCV	Run ID:	TITRATOR_090320B		Analysis Date:		03/20/09 11:46 AM		Prep Date:		03/20/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
pH		7.10	0	7.000	0	101	97.1	102.9			

Sample ID:	CCV2-090320	Batch ID:	R42438		TestNo:		M4500-H+ B		Units:		pH Units
SampType:	CCV	Run ID:	TITRATOR_090320B		Analysis Date:		03/20/09 11:55 AM		Prep Date:		03/20/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
pH		7.04	0	7.000	0	101	97.1	102.9			

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903152
Project: RRC Petronila Creek GW

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_090325A

Sample ID:	MB-34132	Batch ID:	34132		TestNo:		M2320 B		Units:		mg/L
SampType:	MBLK	Run ID:	TITRATOR_090325A		Analysis Date:		03/25/09 12:50 PM		Prep Date:		03/25/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)		ND	20.0								
Alkalinity, Carbonate (As CaCO3)		ND	20.0								
Alkalinity, Hydroxide (As CaCO3)		ND	20.0								
Alkalinity, Total (As CaCO3)		ND	20.0								

Sample ID:	LCS-34132	Batch ID:	34132		TestNo:		M2320 B		Units:		mg/L
SampType:	LCS	Run ID:	TITRATOR_090325A		Analysis Date:		03/25/09 12:54 PM		Prep Date:		03/25/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)		54.8	20.0	50.00	0	110	74	129			

Sample ID:	0903151-02B DUP	Batch ID:	34132		TestNo:		M2320 B		Units:		mg/L
SampType:	DUP	Run ID:	TITRATOR_090325A		Analysis Date:		03/25/09 01:48 PM		Prep Date:		03/25/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)		256	20.0	0	260.2				1.59	20	
Alkalinity, Carbonate (As CaCO3)		0	20.0	0	0				0	20	
Alkalinity, Hydroxide (As CaCO3)		0	20.0	0	0				0	20	
Alkalinity, Total (As CaCO3)		256	20.0	0	260.2				1.59	20	

Sample ID:	0903165-01B DUP	Batch ID:	34132		TestNo:		M2320 B		Units:		mg/L
SampType:	DUP	Run ID:	TITRATOR_090325A		Analysis Date:		03/25/09 03:36 PM		Prep Date:		03/25/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)		292	20.0	0	294.4				0.784	20	
Alkalinity, Carbonate (As CaCO3)		0	20.0	0	0				0	20	
Alkalinity, Hydroxide (As CaCO3)		0	20.0	0	0				0	20	
Alkalinity, Total (As CaCO3)		292	20.0	0	294.4				0.784	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903152
Project: RRC Petronila Creek GW

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_090325A

Sample ID:	ICV-090325	Batch ID:	R42524	TestNo:	M2320 B	Units:	mg/L
SampType:	ICV	Run ID:	TITRATOR_090325A	Analysis Date:	03/25/09 12:48 PM	Prep Date:	03/25/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	11.4	20.0	0							
Alkalinity, Carbonate (As CaCO3)	89.3	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0							
Alkalinity, Total (As CaCO3)	101	20.0	100.0	0	101	98	102			

Sample ID:	CCV1-090325	Batch ID:	R42524	TestNo:	M2320 B	Units:	mg/L
SampType:	CCV	Run ID:	TITRATOR_090325A	Analysis Date:	03/25/09 02:06 PM	Prep Date:	03/25/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	18.8	20.0	0							
Alkalinity, Carbonate (As CaCO3)	82.1	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0							
Alkalinity, Total (As CaCO3)	101	20.0	100.0	0	101	90	110			

Sample ID:	CCV2-090325	Batch ID:	R42524	TestNo:	M2320 B	Units:	mg/L
SampType:	CCV	Run ID:	TITRATOR_090325A	Analysis Date:	03/25/09 03:29 PM	Prep Date:	03/25/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	25.0	20.0	0							
Alkalinity, Carbonate (As CaCO3)	76.0	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0							
Alkalinity, Total (As CaCO3)	101	20.0	100.0	0	101	90	110			

Sample ID:	CCV3-090325	Batch ID:	R42524	TestNo:	M2320 B	Units:	mg/L
SampType:	CCV	Run ID:	TITRATOR_090325A	Analysis Date:	03/25/09 03:55 PM	Prep Date:	03/25/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	21.5	20.0	0							
Alkalinity, Carbonate (As CaCO3)	79.4	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0							
Alkalinity, Total (As CaCO3)	101	20.0	100.0	0	101	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903152
Project: RRC Petronila Creek GW

ANALYTICAL QC SUMMARY REPORT

RunID: WC_090326A

Sample ID:	MB-34159	Batch ID:	34159		TestNo:	M2540C			Units:		mg/L
SampType:	MBLK	Run ID:	WC_090326A		Analysis Date:	03/26/09 09:00 AM			Prep Date:		03/26/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Fi		ND	10.0								

Sample ID:	LCS-34159	Batch ID:	34159		TestNo:	M2540C			Units:		mg/L
SampType:	LCS	Run ID:	WC_090326A		Analysis Date:	03/26/09 09:00 AM			Prep Date:		03/26/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Fi		756	10.0	745.6	0	101	90	113			

Sample ID:	0903165-01B DUP	Batch ID:	34159		TestNo:	M2540C			Units:		mg/L
SampType:	DUP	Run ID:	WC_090326A		Analysis Date:	03/26/09 09:00 AM			Prep Date:		03/26/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Fi		4200	10.0	0	4377				4.10	5	

Sample ID:	0903152-05B DUP	Batch ID:	34159		TestNo:	M2540C			Units:		mg/L
SampType:	DUP	Run ID:	WC_090326A		Analysis Date:	03/26/09 09:00 AM			Prep Date:		03/26/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Fi		29400	10.0	0	30440				3.34	5	

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903152
Project: RRC Petronila Creek GW

ANALYTICAL QC SUMMARY REPORT

RunID: WC_090402A

Sample ID:	0903151-02B-DUP	Batch ID:	34276	TestNo:	M2510 B			Units:		µmhos/cm
SampType:	DUP	Run ID:	WC_090402A	Analysis Date:	04/02/09 09:30 AM			Prep Date:		04/02/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit HighLimit	%RPD	RPD Limit	Qual
Specific Conductance		29500	20.0	0	29020			1.71	2	

Sample ID:	0903165-01B-DUP	Batch ID:	34276	TestNo:	M2510 B			Units:		µmhos/cm
SampType:	DUP	Run ID:	WC_090402A	Analysis Date:	04/02/09 09:30 AM			Prep Date:		04/02/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit HighLimit	%RPD	RPD Limit	Qual
Specific Conductance		5060	10.0	0	5010			0.993	2	

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903152
Project: RRC Petronila Creek GW

ANALYTICAL QC SUMMARY REPORT

RunID: WC_090402A

Sample ID:	ICV-090401	Batch ID:	CONDW-04/02/09	TestNo:		M2510 B			Units:		µmhos/cm
SampType:	ICV	Run ID:	WC_090402A	Analysis Date:		04/02/09 09:30 AM			Prep Date:		04/02/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Specific Conductance		12700	10.0	12880	0	98.6	95	105			

Sample ID:	CCV1-090401	Batch ID:	CONDW-04/02/09	TestNo:		M2510 B			Units:		µmhos/cm
SampType:	CCV	Run ID:	WC_090402A	Analysis Date:		04/02/09 09:30 AM			Prep Date:		04/02/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Specific Conductance		12600	10.0	12880	0	97.4	95	105			

Sample ID:	CCV2-090401	Batch ID:	CONDW-04/02/09	TestNo:		M2510 B			Units:		µmhos/cm
SampType:	CCV	Run ID:	WC_090402A	Analysis Date:		04/02/09 09:30 AM			Prep Date:		04/02/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Specific Conductance		12500	10.0	12880	0	97.1	95	105			

Sample ID:	CCV3-090401	Batch ID:	CONDW-04/02/09	TestNo:		M2510 B			Units:		µmhos/cm
SampType:	CCV	Run ID:	WC_090402A	Analysis Date:		04/02/09 09:30 AM			Prep Date:		04/02/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Specific Conductance		12500	10.0	12880	0	96.8	95	105			

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903152
Project: RRC Petronila Creek GW

MQL SUMMARY REPORT

TestNo: E300 Analyte	MDL mg/L	MQL mg/L
Bromide	0.300	1.00
Chloride	0.300	1.00
Nitrate-N	0.100	0.500
Sulfate	1.00	3.00

TestNo: M2320 B Analyte	MDL mg/L	MQL mg/L
Alkalinity, Bicarbonate (As CaCO3)	10.0	20.0
Alkalinity, Carbonate (As CaCO3)	10.0	20.0
Alkalinity, Hydroxide (As CaCO3)	10.0	20.0
Alkalinity, Total (As CaCO3)	10.0	20.0

TestNo: SW6020 Analyte	MDL mg/L	MQL mg/L
Barium	0.00300	0.0100
Calcium	0.100	0.300
Iron	0.0500	0.150
Magnesium	0.100	0.300
Potassium	0.100	0.300
Sodium	0.100	0.300

TestNo: M2540C Analyte	MDL mg/L	MQL mg/L
Total Dissolved Solids (Residue, Fi	10.0	10.0

Qualifiers:
MQL - Method Quantitation Limit as defined by TRRP
MDL - Method Detection Limit as defined by TRRP

April 08, 2009

James Harte
TRC Environmental Corp.
505 East Huntland Drive Suite 250
Austin, Texas 78752

TEL: (512) 329-6080
FAX: (512) 329-8750

Order No: 0903165

RE: RRC Petronila GW

Dear James Harte:

DHL Analytical received 5 sample(s) on 3/21/2009 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

John DuPont
Lab Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-08C-TX

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DHL ANALYTICAL

2300 Double Creek Drive • Round Rock, TX 78664
Phone (512) 388-8222 • FAX (512) 388-8229

№ 31314

CHAIN-OF-CUSTODY

CLIENT: TRC
ADDRESS: 505 E. Huntland Dr #250
PHONE: 512 329-6080 FAX 512 329-8750
DATA REPORTED TO: J. Haire
ADDITIONAL REPORT COPIES TO: S. Miller

DATE: 3/20/09 PAGE 1 OF 1
PO #: DHL WORK ORDER #: 0903165
PROJECT LOCATION OR NAME: RRC-PETRONILA-GLO
CLIENT PROJECT #: 14420-04 COLLECTOR: RKM

Authorize 5% surcharge for TRRP report? ☐ Yes ☒ No

S=SOIL W=WATER A=AIR P=PAINT SL=SLUDGE OT=OTHER

PRESERVATION: HCl, HNO_3, H_2SO_4 ☐ NaOH ☐, ICE, UNPRESERVED

ANALYSES: BTEX ☐ MTBE ☐ | TRPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐ | GASOLINE MOD 8015 ☐ | DIESEL - MOD 8015 ☐ | VOC 8260 ☐ | SVOC 8270 ☐ | 8081 PESTICIDES ☐ PAH 8270 ☐ HOLDPAH ☐ | 8082 PCBS ☐ | TCLP - METALS (RCRA) ☐ 8151 HERBICIDES ☐ | TOTAL METALS (RCRA) ☐ TCLP VOC ☐ | LEAD - TOTAL ☐ HERB ☐ Semi-VOC ☐ | RCI ☐ TOX ☐ D.W. 200.8 ☐ OTHER LIST ☐ | TDS ☐ TSS ☐ FLASHPOINT ☐ TCLP ☐ | PH ☐ % MOISTURE ☐ CYANIDE ☐ | EXPLOSIVES ☐ HEXAVALENT CHROMIUM ☐ | CHLORIDE ☐ PERCHLORATE ☐ | CATIONS ☐ ANIONS ☐ ALKALINITY ☐ | CATIONS (CA,MG,NA,K) ☐

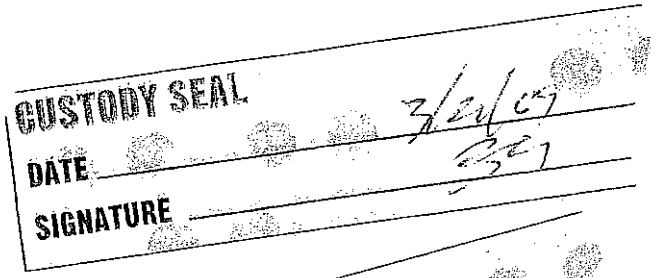
Field Sample I.D.	DHL Lab #	Date	Time	Matrix	Container Type	# of Containers	HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESERVED	FIELD NOTES
P-MW-09	01	3/20/09	1000	W	500,250	2		X		X		CATIONS: Ca, Na, Mg, K, Fe, Ba
P-MW-10	02	↓	1115	W	↓	3		X		X		
P-MW-11	03	↓	1220	W	↓	2		X		X		
P-MW-10-D	04	↓	11:15			2		X		X		ANIONS: Cl, Br, SULFATE, NITRATE
P-EB-W-03-20	05 09-03	↓	12:50			2		X		X		added to COC 3/24/09 per Barrett
												ALKALINITY & Carbonates w/ carbonates
												X-TRC-PRC PETRONILA QAPP
TOTAL												

RELINQUISHED BY: (Signature) DATE/TIME 3/21/09 1100 RECEIVED BY: (Signature)
RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature)
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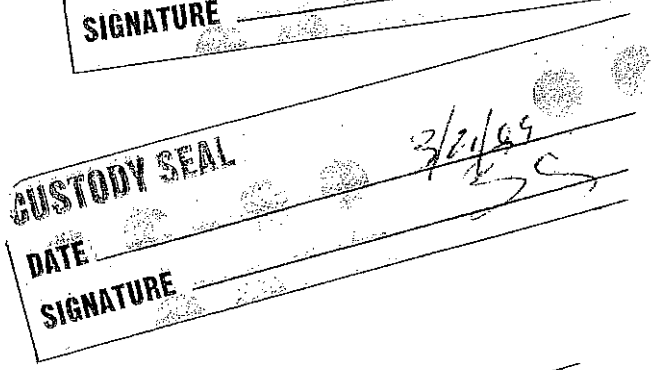
☐ DHL DISPOSAL @ $5.00 each ☐ Return

TURN AROUND TIME
RUSH ☐ CALL FIRST
1 DAY ☐ CALL FIRST
2 DAY ☐
NORMAL ☒
OTHER ☐ ____

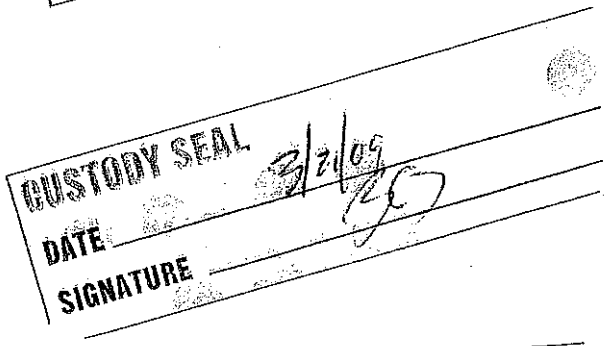
LABORATORY USE ONLY:
RECEIVING TEMP: 1.6/2.5 THERM #: 57
CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☒ NOT USED
☐ CARRIER BILL # ____
☐ APC DELIVERY
☒ HAND DELIVERED


CUSTODY SEAL
DATE 3/24/09
SIGNATURE

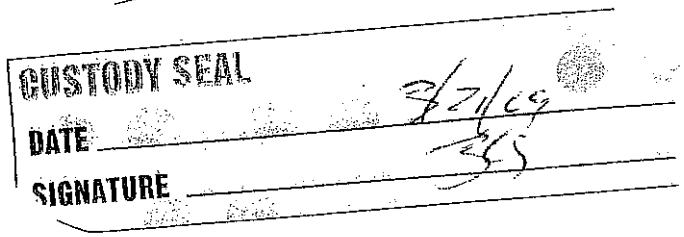

QEC
Quality Environmental Containers
800-255-3950 • 304-255-3900


CUSTODY SEAL
DATE 3/24/09
SIGNATURE


QEC
Quality Environmental Containers
800-255-3950 • 304-255-3900


CUSTODY SEAL
DATE 3/24/09
SIGNATURE


QEC
Quality Environmental Containers
800-255-3950 • 304-255-3900


CUSTODY SEAL
DATE 3/24/09
SIGNATURE


QEC
Quality Environmental Containers
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Laboratory Data Package Signature Page

This data package consists of:

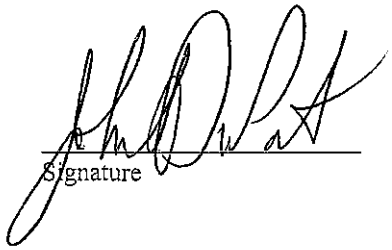
This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC 5.13
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix;
- R10 Other problems or anomalies.

The Exception Report for every "No" or "Not Reviewed (NR)" item in laboratory review checklist.

Release Statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By me signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

Scott Schroeder – Project Manager
John DuPont – General / QA Manager



Signature

04/08/09
Date

DHL Analytical, Inc.

Laboratory Review Checklist: Reportable Data

Project Name: RRC Petronila GW	Date: 4/8/09
Reviewer Name: Carlos Castro	Laboratory Work Order: 0903165
Prep Batch Number(s): See Prep Dates Report	Run Batch: See Analytical Dates Report

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-Custody (C-O-C)					
R1	OI	1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				R1-01
		2) Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and Quality Control (QC) Identification**					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test Reports**					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample quantitation limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?			X		
		7) Were % moisture (or solids) reported for all soil and sediment samples?			X		
		8) If required for the project, TICs reported?			X		
R4	O	**Surrogate Recovery Data**					
		1) Were surrogates added prior to extraction?			X		
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test Reports/Summary Forms for Blank Samples**					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Where method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations < MQL?	X				
R6	OI	**Laboratory Control Samples (LCS):**					
		1) Were all COCs included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs?	X				
		6) Was the LCSD RPD within QC limits (if applicable)?	X				
R7	OI	**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data**					
		1) Were the project/method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			R7-03
		4) Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical Duplicate Data**					
		1) Were appropriate analytical duplicates analyzed for each matrix?	X				
		2) Were analytical duplicates analyzed at the appropriate frequency?	X				
		3) Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	**Method Quantitation Limits (MQLs):**					
		1) Are the MQLs for each method analyte included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs included in the laboratory data package?	X				
R10	OI	**Other Problems/Anomalies**					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		2) Were all necessary corrective actions performed for the reported data?	X				
		3) Was applicable and available technology used to lower the SQL minimize the matrix interference affects on the sample results?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

DHL Analytical, Inc.

Laboratory Review Checklist (continued): Supporting Data

Project Name: RRC Petronila GW	Date: 4/8/09
Reviewer Name: Carlos Castro	Laboratory Work Order: 0903165

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial Calibration (ICAL)**					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB):**					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass Spectral Tuning:**					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal Standards (IS):**					
		1) Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**Raw Data (NELAC section 1 appendix A glossary, and section 5.12)**					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual Column Confirmation**					
		1) Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively Identified Compounds (TICs):**					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) Results:**					
		1) Were percent recoveries within method QC limits?	X				
S9	I	**Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions**					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	OI	**Method Detection Limit (MDL) Studies**					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency Test Reports:**					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards Documentation**					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/Analyte Identification Procedures**					
		1) Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of Analyst Competency (DOC)**					
		1) Was DOC conducted consistent with NELAC Chapter 5C?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/Validation Documentation for Methods** (NELAC Chap 5)					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory Standard Operating Procedures (SOPs):**					
		1) Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

DHL Analytical

Sample Receipt Checklist

Client Name TRC Environmental Corp. Date Received: 3/21/2009

Work Order Number 0903165 Received by JB

Checklist completed by: JBarlow 3/21/09 (Signature / Date) Reviewed by BL 3/21/09 (Initials / Date)

Carrier name: Hand Delivered

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☑	No ☐	Not Present ☐
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	2.5 °C / 1.6°
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	Not Applicable ☐

Adjusted? NO Checked by JB

Any No response must be detailed in the comments section below.

Client contacted TRC Date contacted: 3-21-09 Person contacted Barrett C.

Contacted by: JBarlow Regarding: P-MW-10-D & P-EB-W-03-20.09-01

Comments: Per Barrett, add both samples to COC and run for same analysis as other samples.

Corrective Action Added samples to COC and logged in for requested analysis.

DHL Analytical Date: 04/08/09

CLIENT: TRC Environmental Corp.
Project: RRC Petronila GW
Lab Order: 0903165

CASE NARRATIVE

The samples were analyzed using the methods outlined in the following references:

Method SW6020 - Metals Analysis
Method E300 - Anions Analysis
Method M2320 B (18th Edition) - Alkalinity Analysis
Method M2510 B (18th Edition) - Specific Conductance
Method M2540C (18th Edition) - TDS Analysis
Method M4500-H+ B (18th Edition) - pH of a Water

Exception Report R1-01

Samples were received and log-in performed on 3/21/09 . A total of 5 samples were received. Samples P-MW-10-D and P-EB-W-03-20-09-01 were included in the cooler but not listed on the Chain-of-Custody (COC). Added these samples to the COC as per the client. The samples arrived in good condition and were properly packaged.

Exception Report R7-03

For Metals analysis performed on 3/26/09 the matrix spike and matrix spike duplicate recoveries were above control limits for a few analytes. These are flagged accordingly in the QC summary report. The reference sample selected for the matrix spike and matrix spike duplicate was from this work order. The LCS was within control limits for these analytes. No further corrective actions were taken.

CLIENT: TRC Environmental Corp.
Project: RRC Petronila GW
Lab Order: 0903165

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recv'd
0903165-01	P-MW-09		03/20/09 10:00 AM	03/21/09
0903165-02	P-MW-10		03/20/09 11:15 AM	03/21/09
0903165-03	P-MW-11		03/20/09 12:20 PM	03/21/09
0903165-04	P-MW-10-D		03/20/09 11:15 AM	03/21/09
0903165-05	P-EB-W-03-20-09-01		03/20/09 12:50 PM	03/21/09

CLIENT: TRC Environmental Corp.
Project: RRC Petronila GW
Lab Order: 0903165

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
0903165-01A	P-MW-09	03/20/09 10:00 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/23/09 10:15 AM	34080
	P-MW-09	03/20/09 10:00 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/23/09 10:15 AM	34080
	P-MW-09	03/20/09 10:00 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/23/09 10:15 AM	34080
0903165-01B	P-MW-09	03/20/09 10:00 AM	Aqueous	E300	Anion Preparation	03/21/09 09:52 AM	34068
	P-MW-09	03/20/09 10:00 AM	Aqueous	E300	Anion Preparation	03/21/09 09:52 AM	34068
	P-MW-09	03/20/09 10:00 AM	Aqueous	E300	Anion Preparation	03/21/09 09:52 AM	34068
	P-MW-09	03/20/09 10:00 AM	Aqueous	M2320 B	Alkalinity Preparation	03/25/09 01:32 PM	34132
	P-MW-09	03/20/09 10:00 AM	Aqueous	M4500-H+ B	pH Preparation	03/23/09 10:42 AM	34086
	P-MW-09	03/20/09 10:00 AM	Aqueous	M2510 B	Conductivity Preparation	04/02/09 09:03 AM	34276
	P-MW-09	03/20/09 10:00 AM	Aqueous	M2540C	TDS Preparation	03/26/09 08:00 AM	34159
0903165-02A	P-MW-10	03/20/09 11:15 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/23/09 10:15 AM	34080
	P-MW-10	03/20/09 11:15 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/23/09 10:15 AM	34080
	P-MW-10	03/20/09 11:15 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/23/09 10:15 AM	34080
0903165-02B	P-MW-10	03/20/09 11:15 AM	Aqueous	E300	Anion Preparation	03/21/09 09:52 AM	34068
	P-MW-10	03/20/09 11:15 AM	Aqueous	E300	Anion Preparation	03/21/09 09:52 AM	34068
	P-MW-10	03/20/09 11:15 AM	Aqueous	E300	Anion Preparation	03/21/09 09:52 AM	34068
	P-MW-10	03/20/09 11:15 AM	Aqueous	M2320 B	Alkalinity Preparation	03/25/09 01:32 PM	34132
	P-MW-10	03/20/09 11:15 AM	Aqueous	M4500-H+ B	pH Preparation	03/23/09 10:42 AM	34086
	P-MW-10	03/20/09 11:15 AM	Aqueous	M2510 B	Conductivity Preparation	04/02/09 09:03 AM	34276
	P-MW-10	03/20/09 11:15 AM	Aqueous	M2540C	TDS Preparation	03/26/09 08:00 AM	34159
0903165-03A	P-MW-11	03/20/09 12:20 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/23/09 10:15 AM	34080
	P-MW-11	03/20/09 12:20 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/23/09 10:15 AM	34080
	P-MW-11	03/20/09 12:20 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/23/09 10:15 AM	34080
0903165-03B	P-MW-11	03/20/09 12:20 PM	Aqueous	E300	Anion Preparation	03/21/09 09:52 AM	34068
	P-MW-11	03/20/09 12:20 PM	Aqueous	E300	Anion Preparation	03/21/09 09:52 AM	34068
	P-MW-11	03/20/09 12:20 PM	Aqueous	M2320 B	Alkalinity Preparation	03/25/09 01:32 PM	34132
	P-MW-11	03/20/09 12:20 PM	Aqueous	M4500-H+ B	pH Preparation	03/23/09 10:42 AM	34086
	P-MW-11	03/20/09 12:20 PM	Aqueous	M2510 B	Conductivity Preparation	04/02/09 09:03 AM	34276
	P-MW-11	03/20/09 12:20 PM	Aqueous	M2540C	TDS Preparation	03/26/09 08:00 AM	34159

CLIENT: TRC Environmental Corp.
Project: RRC Petronila GW
Lab Order: 0903165

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
0903165-04A	P-MW-10-D	03/20/09 11:15 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/23/09 10:15 AM	34080
	P-MW-10-D	03/20/09 11:15 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/23/09 10:15 AM	34080
	P-MW-10-D	03/20/09 11:15 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/23/09 10:15 AM	34080
0903165-04B	P-MW-10-D	03/20/09 11:15 AM	Aqueous	E300	Anion Preparation	03/21/09 09:52 AM	34068
	P-MW-10-D	03/20/09 11:15 AM	Aqueous	E300	Anion Preparation	03/21/09 09:52 AM	34068
	P-MW-10-D	03/20/09 11:15 AM	Aqueous	E300	Anion Preparation	03/21/09 09:52 AM	34068
	P-MW-10-D	03/20/09 11:15 AM	Aqueous	M2320 B	Alkalinity Preparation	03/25/09 01:32 PM	34132
	P-MW-10-D	03/20/09 11:15 AM	Aqueous	M4500-H+ B	pH Preparation	03/23/09 10:42 AM	34086
	P-MW-10-D	03/20/09 11:15 AM	Aqueous	M2510 B	Conductivity Preparation	04/02/09 09:03 AM	34276
	P-MW-10-D	03/20/09 11:15 AM	Aqueous	M2540C	TDS Preparation	03/27/09 09:00 AM	34182
0903165-05A	P-EB-W-03-20-09-01	03/20/09 12:50 PM	Equip Blank	SW3005A	Aq Prep Metals : ICP-MS	03/23/09 10:15 AM	34080
	P-EB-W-03-20-09-01	03/20/09 12:50 PM	Equip Blank	SW3005A	Aq Prep Metals : ICP-MS	03/23/09 10:15 AM	34080
0903165-05B	P-EB-W-03-20-09-01	03/20/09 12:50 PM	Equip Blank	E300	Anion Preparation	03/21/09 09:52 AM	34068
	P-EB-W-03-20-09-01	03/20/09 12:50 PM	Equip Blank	M2320 B	Alkalinity Preparation	03/30/09 10:23 AM	34199
	P-EB-W-03-20-09-01	03/20/09 12:50 PM	Equip Blank	M4500-H+ B	pH Preparation	03/23/09 10:42 AM	34086
	P-EB-W-03-20-09-01	03/20/09 12:50 PM	Equip Blank	M2510 B	Conductivity Preparation	04/02/09 09:03 AM	34276
	P-EB-W-03-20-09-01	03/20/09 12:50 PM	Equip Blank	M2540C	TDS Preparation	03/27/09 09:00 AM	34182

CLIENT: TRC Environmental Corp.
Project: RRC Petronila GW
Lab Order: 0903165

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
0903165-01A	P-MW-09	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34080	1	03/25/09 07:39 PM	ICP-MS2_090325B
	P-MW-09	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34080	100	03/26/09 01:36 PM	ICP-MS3_090326A
	P-MW-09	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34080	1	03/26/09 07:54 PM	ICP-MS3_090326A
0903165-01B	P-MW-09	Aqueous	M2320 B	Alkalinity	34132	1	03/25/09 03:24 PM	TITRATOR_090325A
	P-MW-09	Aqueous	E300	Anions by IC method - Water	34068	1	03/21/09 03:02 PM	IC_090321C
	P-MW-09	Aqueous	E300	Anions by IC method - Water	34068	10	03/22/09 09:55 PM	IC_090322B
	P-MW-09	Aqueous	E300	Anions by IC method - Water	34068	100	03/22/09 10:11 PM	IC_090322B
	P-MW-09	Aqueous	M4500-H+ B	pH	34086	1	03/23/09 10:04 AM	TITRATOR_090323A
	P-MW-09	Aqueous	M2510 B	Specific Conductance	34276	1	04/02/09 09:30 AM	WC_090402A
	P-MW-09	Aqueous	M2540C	Total Dissolved Solids	34159	1	03/26/09 09:00 AM	WC_090326A
0903165-02A	P-MW-10	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34080	1	03/25/09 07:45 PM	ICP-MS2_090325B
	P-MW-10	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34080	500	03/26/09 04:24 PM	ICP-MS3_090326A
	P-MW-10	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34080	25	03/26/09 07:03 PM	ICP-MS3_090326A
0903165-02B	P-MW-10	Aqueous	M2320 B	Alkalinity	34132	1	03/25/09 03:42 PM	TITRATOR_090325A
	P-MW-10	Aqueous	E300	Anions by IC method - Water	34068	5	03/21/09 04:05 PM	IC_090321C
	P-MW-10	Aqueous	E300	Anions by IC method - Water	34068	100	03/22/09 11:10 PM	IC_090322B
	P-MW-10	Aqueous	E300	Anions by IC method - Water	34068	1000	03/31/09 07:28 PM	IC2_090331C
	P-MW-10	Aqueous	M4500-H+ B	pH	34086	1	03/23/09 10:06 AM	TITRATOR_090323A
	P-MW-10	Aqueous	M2510 B	Specific Conductance	34276	2	04/02/09 09:30 AM	WC_090402A
	P-MW-10	Aqueous	M2540C	Total Dissolved Solids	34159	1	03/26/09 09:00 AM	WC_090326A
0903165-03A	P-MW-11	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34080	1	03/25/09 07:50 PM	ICP-MS2_090325B
	P-MW-11	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34080	500	03/26/09 04:29 PM	ICP-MS3_090326A
	P-MW-11	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34080	10	03/26/09 07:08 PM	ICP-MS3_090326A
0903165-03B	P-MW-11	Aqueous	M2320 B	Alkalinity	34132	1	03/25/09 03:46 PM	TITRATOR_090325A
	P-MW-11	Aqueous	E300	Anions by IC method - Water	34068	5	03/21/09 04:20 PM	IC_090321C
	P-MW-11	Aqueous	E300	Anions by IC method - Water	34068	100	03/22/09 11:24 PM	IC_090322B
	P-MW-11	Aqueous	M4500-H+ B	pH	34086	1	03/23/09 10:07 AM	TITRATOR_090323A
	P-MW-11	Aqueous	M2510 B	Specific Conductance	34276	1	04/02/09 09:30 AM	WC_090402A
	P-MW-11	Aqueous	M2540C	Total Dissolved Solids	34159	1	03/26/09 09:00 AM	WC_090326A

CLIENT: TRC Environmental Corp.
Project: RRC Petronila GW
Lab Order: 0903165

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
0903165-04A	P-MW-10-D	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34080	1	03/25/09 07:56 PM	ICP-MS2_090325B
	P-MW-10-D	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34080	500	03/26/09 04:34 PM	ICP-MS3_090326A
	P-MW-10-D	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34080	25	03/26/09 07:13 PM	ICP-MS3_090326A
0903165-04B	P-MW-10-D	Aqueous	M2320 B	Alkalinity	34132	1	03/25/09 03:50 PM	TITRATOR_090325A
	P-MW-10-D	Aqueous	E300	Anions by IC method - Water	34068	5	03/21/09 04:36 PM	IC_090321C
	P-MW-10-D	Aqueous	E300	Anions by IC method - Water	34068	100	03/22/09 11:39 PM	IC_090322B
	P-MW-10-D	Aqueous	E300	Anions by IC method - Water	34068	1000	03/31/09 07:43 PM	IC2_090331C
	P-MW-10-D	Aqueous	M4500-H+ B	pH	34086	1	03/23/09 10:08 AM	TITRATOR_090323A
	P-MW-10-D	Aqueous	M2510 B	Specific Conductance	34276	2	04/02/09 09:30 AM	WC_090402A
	P-MW-10-D	Aqueous	M2540C	Total Dissolved Solids	34182	1	03/27/09 09:30 AM	WC_090327A
0903165-05A	P-EB-W-03-20-09-01	Equip Blank	SW6020	Trace Metals: ICP-MS - Water	34080	1	03/26/09 04:40 PM	ICP-MS3_090326A
	P-EB-W-03-20-09-01	Equip Blank	SW6020	Trace Metals: ICP-MS - Water	34080	1	03/26/09 05:00 PM	ICP-MS3_090326A
0903165-05B	P-EB-W-03-20-09-01	Equip Blank	M2320 B	Alkalinity	34199	1	03/30/09 09:41 AM	TITRATOR_090330B
	P-EB-W-03-20-09-01	Equip Blank	E300	Anions by IC method - Water	34068	1	03/21/09 02:46 PM	IC_090321C
	P-EB-W-03-20-09-01	Equip Blank	M4500-H+ B	pH	34086	1	03/23/09 10:09 AM	TITRATOR_090323A
	P-EB-W-03-20-09-01	Equip Blank	M2510 B	Specific Conductance	34276	1	04/02/09 09:30 AM	WC_090402A
	P-EB-W-03-20-09-01	Equip Blank	M2540C	Total Dissolved Solids	34182	1	03/27/09 09:30 AM	WC_090327A

DHL Analytical

Date: 04/08/09

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-MW-09
Project:	RRC Petronila GW	Lab ID:	0903165-01
Project No:	14420-04	Collection Date:	03/20/09 10:00 AM
Lab Order:	0903165	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		**SW6020**					**Analyst: KW**
Barium	0.0147	0.00300	0.0100		mg/L	1	03/25/09 07:39 PM
Calcium	363	10.0	30.0		mg/L	100	03/26/09 01:36 PM
Iron	0.0532	0.0500	0.150	J	mg/L	1	03/25/09 07:39 PM
Magnesium	48.7	10.0	30.0		mg/L	100	03/26/09 01:36 PM
Potassium	1.58	0.100	0.300		mg/L	1	03/26/09 07:54 PM
Sodium	784	10.0	30.0		mg/L	100	03/26/09 01:36 PM
Anions by IC method - Water		**E300**					**Analyst: DEW**
Bromide	0.983	0.300	1.00	J	mg/L	1	03/21/09 03:02 PM
Chloride	309	3.00	10.0		mg/L	10	03/22/09 09:55 PM
Nitrate-N	7.04	0.100	0.500		mg/L	1	03/21/09 03:02 PM
Sulfate	2460	100	300		mg/L	100	03/22/09 10:11 PM
Alkalinity		**M2320 B**					**Analyst: JBC**
Alkalinity, Bicarbonate (As CaCO3)	294	10.0	20.0		mg/L	1	03/25/09 03:24 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	03/25/09 03:24 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	03/25/09 03:24 PM
Alkalinity, Total (As CaCO3)	294	10.0	20.0		mg/L	1	03/25/09 03:24 PM
pH		**M4500-H+ B**					**Analyst: JBC**
pH	7.19	0	0		pH Units	1	03/23/09 10:04 AM
Specific Conductance		**M2510 B**					**Analyst: AAD**
Specific Conductance	5010	10.0	10.0		µmhos/cm	1	04/02/09 09:30 AM
Total Dissolved Solids		**M2540C**					**Analyst: JBC**
Total Dissolved Solids (Residue, Filterable)	4380	10.0	10.0		mg/L	1	03/26/09 09:00 AM

Qualifiers:

	See Final Page of Report for MQLs and MDLs
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between SDL and RL
N	Parameter not NELAC certified
ND	Not Detected at the SDL
RL	Reporting Limit (MQL adjusted for moisture and sample size)
S	Spike Recovery outside control limits
SDL	Sample Detection Limit

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-MW-10
Project:	RRC Petronila GW	Lab ID:	0903165-02
Project No:	14420-04	Collection Date:	03/20/09 11:15 AM
Lab Order:	0903165	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		**SW6020**					**Analyst: KW**
Barium	0.0229	0.00300	0.0100		mg/L	1	03/25/09 07:45 PM
Calcium	801	50.0	150		mg/L	500	03/26/09 04:24 PM
Iron	ND	0.0500	0.150		mg/L	1	03/25/09 07:45 PM
Magnesium	253	50.0	150		mg/L	500	03/26/09 04:24 PM
Potassium	15.4	2.50	7.50		mg/L	25	03/26/09 07:03 PM
Sodium	4250	50.0	150		mg/L	500	03/26/09 04:24 PM
Anions by IC method - Water		**E300**					**Analyst: DEW**
Bromide	14.9	1.50	5.00		mg/L	5	03/21/09 04:05 PM
Chloride	6540	300	1000		mg/L	1000	03/31/09 07:28 PM
Nitrate-N	102	0.500	2.50		mg/L	5	03/21/09 04:05 PM
Sulfate	3440	1000	3000		mg/L	1000	03/31/09 07:28 PM
Alkalinity		**M2320 B**					**Analyst: JBC**
Alkalinity, Bicarbonate (As CaCO3)	236	10.0	20.0		mg/L	1	03/25/09 03:42 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	03/25/09 03:42 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	03/25/09 03:42 PM
Alkalinity, Total (As CaCO3)	236	10.0	20.0		mg/L	1	03/25/09 03:42 PM
pH		**M4500-H+ B**					**Analyst: JBC**
pH	7.08	0	0		pH Units	1	03/23/09 10:06 AM
Specific Conductance		**M2510 B**					**Analyst: AAD**
Specific Conductance	25800	20.0	20.0		µmhos/cm	2	04/02/09 09:30 AM
Total Dissolved Solids		**M2540C**					**Analyst: JBC**
Total Dissolved Solids (Residue, Filterable)	18000	10.0	10.0		mg/L	1	03/26/09 09:00 AM

Qualifiers:

	See Final Page of Report for MQLs and MDLs
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between SDL and RL
N	Parameter not NELAC certified
ND	Not Detected at the SDL
RL	Reporting Limit (MQL adjusted for moisture and sample size)
S	Spike Recovery outside control limits
SDL	Sample Detection Limit

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-MW-11
Project:	RRC Petronila GW	Lab ID:	0903165-03
Project No:	14420-04	Collection Date:	03/20/09 12:20 PM
Lab Order:	0903165	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		**SW6020**					**Analyst: KW**
Barium	0.0203	0.00300	0.0100		mg/L	1	03/25/09 07:50 PM
Calcium	788	50.0	150		mg/L	500	03/26/09 04:29 PM
Iron	0.0564	0.0500	0.150	J	mg/L	1	03/25/09 07:50 PM
Magnesium	93.1	1.00	3.00		mg/L	10	03/26/09 07:08 PM
Potassium	3.37	1.00	3.00		mg/L	10	03/26/09 07:08 PM
Sodium	2020	50.0	150		mg/L	500	03/26/09 04:29 PM
Anions by IC method - Water		**E300**					**Analyst: DEW**
Bromide	8.18	1.50	5.00		mg/L	5	03/21/09 04:20 PM
Chloride	3690	30.0	100		mg/L	100	03/22/09 11:24 PM
Nitrate-N	6.95	0.500	2.50		mg/L	5	03/21/09 04:20 PM
Sulfate	2490	100	300		mg/L	100	03/22/09 11:24 PM
Alkalinity		**M2320 B**					**Analyst: JBC**
Alkalinity, Bicarbonate (As CaCO3)	334	10.0	20.0		mg/L	1	03/25/09 03:46 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	03/25/09 03:46 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	03/25/09 03:46 PM
Alkalinity, Total (As CaCO3)	334	10.0	20.0		mg/L	1	03/25/09 03:46 PM
pH		**M4500-H+ B**					**Analyst: JBC**
pH	7.01	0	0		pH Units	1	03/23/09 10:07 AM
Specific Conductance		**M2510 B**					**Analyst: AAD**
Specific Conductance	13400	10.0	10.0		µmhos/cm	1	04/02/09 09:30 AM
Total Dissolved Solids		**M2540C**					**Analyst: JBC**
Total Dissolved Solids (Residue, Filterable)	9610	10.0	10.0		mg/L	1	03/26/09 09:00 AM

Qualifiers:

	See Final Page of Report for MQLs and MDLs
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between SDL and RL
N	Parameter not NELAC certified
ND	Not Detected at the SDL
RL	Reporting Limit (MQL adjusted for moisture and sample size)
S	Spike Recovery outside control limits
SDL	Sample Detection Limit

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-MW-10-D
Project:	RRC Petronila GW	Lab ID:	0903165-04
Project No:	14420-04	Collection Date:	03/20/09 11:15 AM
Lab Order:	0903165	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		**SW6020**					**Analyst: KW**
Barium	0.0225	0.00300	0.0100		mg/L	1	03/25/09 07:56 PM
Calcium	802	50.0	150		mg/L	500	03/26/09 04:34 PM
Iron	ND	0.0500	0.150		mg/L	1	03/25/09 07:56 PM
Magnesium	254	50.0	150		mg/L	500	03/26/09 04:34 PM
Potassium	15.3	2.50	7.50		mg/L	25	03/26/09 07:13 PM
Sodium	4210	50.0	150		mg/L	500	03/26/09 04:34 PM
Anions by IC method - Water		**E300**					**Analyst: DEW**
Bromide	15.4	1.50	5.00		mg/L	5	03/21/09 04:36 PM
Chloride	6380	300	1000		mg/L	1000	03/31/09 07:43 PM
Nitrate-N	105	0.500	2.50		mg/L	5	03/21/09 04:36 PM
Sulfate	3420	1000	3000		mg/L	1000	03/31/09 07:43 PM
Alkalinity		**M2320 B**					**Analyst: JBC**
Alkalinity, Bicarbonate (As CaCO3)	240	10.0	20.0		mg/L	1	03/25/09 03:50 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	03/25/09 03:50 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	03/25/09 03:50 PM
Alkalinity, Total (As CaCO3)	240	10.0	20.0		mg/L	1	03/25/09 03:50 PM
pH		**M4500-H+ B**					**Analyst: JBC**
pH	7.06	0	0		pH Units	1	03/23/09 10:08 AM
Specific Conductance		**M2510 B**					**Analyst: AAD**
Specific Conductance	25500	20.0	20.0		µmhos/cm	2	04/02/09 09:30 AM
Total Dissolved Solids		**M2540C**					**Analyst: JBC**
Total Dissolved Solids (Residue, Filterable)	17000	10.0	10.0		mg/L	1	03/27/09 09:30 AM

Qualifiers: See Final Page of Report for MQLs and MDLs

B	Analyte detected in the associated Method Blank	J	Analyte detected between SDL and RL
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the SDL
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit (MQL adjusted for moisture and sample size)
		S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-EB-W-03-20-09-01
Project:	RRC Petronila GW	Lab ID:	0903165-05
Project No:	14420-04	Collection Date:	03/20/09 12:50 PM
Lab Order:	0903165	Matrix:	Equip Blank

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		**SW6020**					**Analyst: CZ**
Barium	ND	0.00300	0.0100		mg/L	1	03/26/09 04:40 PM
Calcium	ND	0.100	0.300		mg/L	1	03/26/09 04:40 PM
Iron	ND	0.0500	0.150		mg/L	1	03/26/09 04:40 PM
Magnesium	ND	0.100	0.300		mg/L	1	03/26/09 04:40 PM
Potassium	ND	0.100	0.300		mg/L	1	03/26/09 04:40 PM
Sodium	0.254	0.100	0.300	J	mg/L	1	03/26/09 04:40 PM
Anions by IC method - Water		**E300**					**Analyst: DEW**
Bromide	ND	0.300	1.00		mg/L	1	03/21/09 02:46 PM
Chloride	ND	0.300	1.00		mg/L	1	03/21/09 02:46 PM
Nitrate-N	ND	0.100	0.500		mg/L	1	03/21/09 02:46 PM
Sulfate	ND	1.00	3.00		mg/L	1	03/21/09 02:46 PM
Alkalinity		**M2320 B**					**Analyst: JBC**
Alkalinity, Bicarbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	03/30/09 09:41 AM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	03/30/09 09:41 AM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	03/30/09 09:41 AM
Alkalinity, Total (As CaCO3)	ND	10.0	20.0		mg/L	1	03/30/09 09:41 AM
pH		**M4500-H+ B**					**Analyst: JBC**
pH	8.91	0	0		pH Units	1	03/23/09 10:09 AM
Specific Conductance		**M2510 B**					**Analyst: AAD**
Specific Conductance	ND	10.0	10.0		µmhos/cm	1	04/02/09 09:30 AM
Total Dissolved Solids		**M2540C**					**Analyst: JBC**
Total Dissolved Solids (Residue, Filterable)	ND	10.0	10.0		mg/L	1	03/27/09 09:30 AM

Qualifiers:

	See Final Page of Report for MQLs and MDLs	J	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

CLIENT: TRC Environmental Corp.
Work Order: 0903165
Project: RRC Petronila GW

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_090325B

Sample ID:	ICV1-090325	Batch ID:	R42533	TestNo:	SW6020	Units:	mg/L
SampType:	ICV	Run ID:	ICP-MS2_090325B	Analysis Date:	03/25/09 12:17 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.0978	0.0100	0.100	0	97.8	90	110			
Iron	2.61	0.150	2.50	0	104	90	110			

Sample ID:	CCV7-090325	Batch ID:	R42533	TestNo:	SW6020	Units:	mg/L
SampType:	CCV	Run ID:	ICP-MS2_090325B	Analysis Date:	03/25/09 07:13 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.193	0.0100	0.200	0	96.4	90	110			
Iron	4.84	0.150	5.00	0	96.9	90	110			

Sample ID:	CCV8-090325	Batch ID:	R42533	TestNo:	SW6020	Units:	mg/L
SampType:	CCV	Run ID:	ICP-MS2_090325B	Analysis Date:	03/25/09 08:38 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.192	0.0100	0.200	0	96.2	90	110			
Iron	4.69	0.150	5.00	0	93.7	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903165
Project: RRC Petronila GW

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_090326A

Sample ID:	MB-34080	Batch ID:	34080		TestNo:		SW6020		Units:		mg/L
SampType:	MBLK	Run ID:	ICP-MS3_090326A		Analysis Date:		03/26/09 12:14 PM		Prep Date:		03/23/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium		ND	0.0100								
Calcium		ND	0.300								
Iron		ND	0.150								
Magnesium		ND	0.300								
Potassium		ND	0.300								
Sodium		ND	0.300								

Sample ID:	LCS-34080	Batch ID:	34080		TestNo:		SW6020		Units:		mg/L
SampType:	LCS	Run ID:	ICP-MS3_090326A		Analysis Date:		03/26/09 12:35 PM		Prep Date:		03/23/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium		0.201	0.0100	0.200	0	100	80	120			
Calcium		5.05	0.300	5.00	0	101	80	120			
Iron		4.85	0.150	5.00	0	97.0	80	120			
Magnesium		5.04	0.300	5.00	0	101	80	120			
Potassium		5.22	0.300	5.00	0	104	80	120			
Sodium		5.04	0.300	5.00	0	101	80	120			

Sample ID:	LCSD-34080	Batch ID:	34080		TestNo:		SW6020		Units:		mg/L
SampType:	LCSD	Run ID:	ICP-MS3_090326A		Analysis Date:		03/26/09 12:40 PM		Prep Date:		03/23/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium		0.206	0.0100	0.200	0	103	80	120	2.51	15	
Calcium		5.05	0.300	5.00	0	101	80	120	0.0990	15	
Iron		4.86	0.150	5.00	0	97.2	80	120	0.206	15	
Magnesium		5.06	0.300	5.00	0	101	80	120	0.535	15	
Potassium		5.26	0.300	5.00	0	105	80	120	0.916	15	
Sodium		5.05	0.300	5.00	0	101	80	120	0.198	15	

Sample ID:	0903165-01A SD	Batch ID:	34080		TestNo:		SW6020		Units:		mg/L
SampType:	SD	Run ID:	ICP-MS3_090326A		Analysis Date:		03/26/09 01:42 PM		Prep Date:		03/23/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium		362	150	0	363				0.483	10	
Magnesium		0	150	0	48.7				0	10	
Sodium		802	150	0	784				2.28	10	

Sample ID:	0903165-01A PDS	Batch ID:	34080		TestNo:		SW6020		Units:		mg/L
SampType:	PDS	Run ID:	ICP-MS3_090326A		Analysis Date:		03/26/09 01:47 PM		Prep Date:		03/23/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium		871	30.0	500	363	102	75	125			
Magnesium		537	30.0	500	48.7	97.6	75	125			
Sodium		1280	30.0	500	784	98.4	75	125			

Sample ID:	0903165-01A MS	Batch ID:	34080		TestNo:		SW6020		Units:		mg/L
SampType:	MS	Run ID:	ICP-MS3_090326A		Analysis Date:		03/26/09 01:52 PM		Prep Date:		03/23/09

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903165
Project: RRC Petronila GW

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_090326A

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	377	30.0	5.00	363	278	80	120			S
Magnesium	55.9	30.0	5.00	48.7	144	80	120			S
Sodium	821	30.0	5.00	784	740	80	120			S

Sample ID: 0903165-01A MSD | Batch ID: 34080 | TestNo: SW6020 | Units: mg/L
SampType: MSD | Run ID: ICP-MS3_090326A | Analysis Date: 03/26/09 01:57 PM | Prep Date: 03/23/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	368	30.0	5.00	363	94.0	80	120	2.47	15	
Magnesium	54.4	30.0	5.00	48.7	115	80	120	2.61	15	
Sodium	804	30.0	5.00	784	396	80	120	2.12	15	S

Sample ID: 0903165-01A SD | Batch ID: 34080 | TestNo: SW6020 | Units: mg/L
SampType: SD | Run ID: ICP-MS3_090326A | Analysis Date: 03/26/09 08:00 PM | Prep Date: 03/23/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.0154	0.0500	0	0.0154				0.0972	10	
Iron	0	0.750	0	0.0547				0	10	
Potassium	1.63	1.50	0	1.58				3.05	10	

Sample ID: 0903165-01A PDS | Batch ID: 34080 | TestNo: SW6020 | Units: mg/L
SampType: PDS | Run ID: ICP-MS3_090326A | Analysis Date: 03/26/09 08:05 PM | Prep Date: 03/23/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.214	0.0100	0.200	0.0154	99.5	75	125			
Iron	4.73	0.150	5.00	0.0547	93.4	75	125			
Potassium	6.18	0.300	5.00	1.58	92.0	75	125			

Sample ID: 0903165-01A MS | Batch ID: 34080 | TestNo: SW6020 | Units: mg/L
SampType: MS | Run ID: ICP-MS3_090326A | Analysis Date: 03/26/09 08:10 PM | Prep Date: 03/23/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.221	0.0100	0.200	0.0154	103	80	120			
Iron	4.81	0.150	5.00	0.0547	95.1	80	120			
Potassium	6.43	0.300	5.00	1.58	97.1	80	120			

Sample ID: 0903165-01A MSD | Batch ID: 34080 | TestNo: SW6020 | Units: mg/L
SampType: MSD | Run ID: ICP-MS3_090326A | Analysis Date: 03/26/09 08:15 PM | Prep Date: 03/23/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.220	0.0100	0.200	0.0154	102	80	120	0.227	15	
Iron	4.70	0.150	5.00	0.0547	93.0	80	120	2.25	15	
Potassium	6.26	0.300	5.00	1.58	93.6	80	120	2.73	15	

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903165
Project: RRC Petronila GW

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_090326A

Sample ID:	ICV1-090326	Batch ID:	R42551	TestNo:	SW6020	Units:	mg/L
SampType:	ICV	Run ID:	ICP-MS3_090326A	Analysis Date:	03/26/09 11:53 AM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.0978	0.0100	0.100	0	97.8	90	110			
Calcium	2.42	0.300	2.50	0	96.6	90	110			
Iron	2.51	0.150	2.50	0	100	90	110			
Magnesium	2.43	0.300	2.50	0	97.1	90	110			
Potassium	2.46	0.300	2.50	0	98.6	90	110			
Sodium	2.40	0.300	2.50	0	95.8	90	110			

Sample ID:	CCV1-090326	Batch ID:	R42551	TestNo:	SW6020	Units:	mg/L
SampType:	CCV	Run ID:	ICP-MS3_090326A	Analysis Date:	03/26/09 12:55 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.205	0.0100	0.200	0	103	90	110			
Calcium	4.83	0.300	5.00	0	96.6	90	110			
Iron	4.88	0.150	5.00	0	97.5	90	110			
Magnesium	4.98	0.300	5.00	0	99.5	90	110			
Potassium	5.11	0.300	5.00	0	102	90	110			
Sodium	4.97	0.300	5.00	0	99.5	90	110			

Sample ID:	CCV2-090326	Batch ID:	R42551	TestNo:	SW6020	Units:	mg/L
SampType:	CCV	Run ID:	ICP-MS3_090326A	Analysis Date:	03/26/09 02:02 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	4.90	0.300	5.00	0	97.9	90	110			
Magnesium	4.87	0.300	5.00	0	97.4	90	110			
Sodium	4.80	0.300	5.00	0	96.0	90	110			

Sample ID:	CCV4-090326	Batch ID:	R42551	TestNo:	SW6020	Units:	mg/L
SampType:	CCV	Run ID:	ICP-MS3_090326A	Analysis Date:	03/26/09 04:14 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.198	0.0100	0.200	0	98.8	90	110			
Calcium	4.89	0.300	5.00	0	97.7	90	110			
Iron	4.81	0.150	5.00	0	96.2	90	110			
Magnesium	4.80	0.300	5.00	0	96.0	90	110			
Potassium	5.15	0.300	5.00	0	103	90	110			
Sodium	4.72	0.300	5.00	0	94.3	90	110			

Sample ID:	CCV5-090326	Batch ID:	R42551	TestNo:	SW6020	Units:	mg/L
SampType:	CCV	Run ID:	ICP-MS3_090326A	Analysis Date:	03/26/09 05:05 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.199	0.0100	0.200	0	99.4	90	110			
Calcium	4.90	0.300	5.00	0	98.1	90	110			
Iron	4.87	0.150	5.00	0	97.5	90	110			
Magnesium	4.80	0.300	5.00	0	96.1	90	110			
Potassium	5.16	0.300	5.00	0	103	90	110			
Sodium	4.71	0.300	5.00	0	94.2	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903165
Project: RRC Petronila GW

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_090326A

Sample ID:	CCV6-090326	Batch ID:	R42551	TestNo:	SW6020	Units:	mg/L
SampType:	CCV	Run ID:	ICP-MS3_090326A	Analysis Date:	03/26/09 05:57 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Magnesium	4.82	0.300	5.00	0	96.5	90	110			
Potassium	5.11	0.300	5.00	0	102	90	110			

Sample ID:	CCV7-090326	Batch ID:	R42551	TestNo:	SW6020	Units:	mg/L
SampType:	CCV	Run ID:	ICP-MS3_090326A	Analysis Date:	03/26/09 07:19 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.199	0.0100	0.200	0	99.4	90	110			
Iron	4.99	0.150	5.00	0	99.9	90	110			
Potassium	5.11	0.300	5.00	0	102	90	110			

Sample ID:	CCV8-090326	Batch ID:	R42551	TestNo:	SW6020	Units:	mg/L
SampType:	CCV	Run ID:	ICP-MS3_090326A	Analysis Date:	03/26/09 08:46 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.197	0.0100	0.200	0	98.7	90	110			
Iron	4.94	0.150	5.00	0	98.8	90	110			
Potassium	5.08	0.300	5.00	0	102	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903165
Project: RRC Petronila GW

ANALYTICAL QC SUMMARY REPORT

RunID: IC_090321C

Sample ID:	LCS-34068	Batch ID:	34068		TestNo:		E300		Units:		mg/L
SampType:	LCS	Run ID:	IC_090321C		Analysis Date:		03/21/09 10:56 AM		Prep Date:		03/21/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide		20.4	1.00	20.00	0	102	90	110			
Chloride		10.2	1.00	10.00	0	102	90	110			
Nitrate-N		5.19	0.500	5.000	0	104	90	110			
Sulfate		30.6	3.00	30.00	0	102	90	110			

Sample ID:	LCSD-34068	Batch ID:	34068		TestNo:		E300		Units:		mg/L
SampType:	LCSD	Run ID:	IC_090321C		Analysis Date:		03/21/09 11:12 AM		Prep Date:		03/21/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide		20.3	1.00	20.00	0	102	90	110	0.382	20	
Chloride		10.1	1.00	10.00	0	101	90	110	0.517	20	
Nitrate-N		5.17	0.500	5.000	0	103	90	110	0.369	20	
Sulfate		30.6	3.00	30.00	0	102	90	110	0.00490	20	

Sample ID:	MB-34068	Batch ID:	34068		TestNo:		E300		Units:		mg/L
SampType:	MBLK	Run ID:	IC_090321C		Analysis Date:		03/21/09 11:28 AM		Prep Date:		03/21/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide		ND	1.00								
Chloride		ND	1.00								
Nitrate-N		ND	0.500								
Sulfate		ND	3.00								

Sample ID:	0903165-01BMS	Batch ID:	34068		TestNo:		E300		Units:		mg/L
SampType:	MS	Run ID:	IC_090321C		Analysis Date:		03/21/09 03:17 PM		Prep Date:		03/21/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide		19.2	1.00	20.00	0.5896	93.0	90	110			
Nitrate-N		9.22	0.500	5.000	4.222	99.9	90	110			

Sample ID:	0903165-01BMSD	Batch ID:	34068		TestNo:		E300		Units:		mg/L
SampType:	MSD	Run ID:	IC_090321C		Analysis Date:		03/21/09 03:33 PM		Prep Date:		03/21/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide		19.5	1.00	20.00	0.5896	94.3	90	110	1.39	20	
Nitrate-N		9.25	0.500	5.000	4.222	101	90	110	0.408	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903165
Project: RRC Petronila GW

ANALYTICAL QC SUMMARY REPORT

RunID: IC_090321C

Sample ID:	ICV-090321	Batch ID:	R42638		TestNo:	E300		Units:	mg/L	
SampType:	ICV	Run ID:	IC_090321C		Analysis Date:	03/21/09 10:41 AM		Prep Date:	03/21/09	
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	53.0	1.00	50.00	0	106	90	110			
Chloride	26.1	1.00	25.00	0	104	90	110			
Nitrate-N	13.4	0.500	12.50	0	108	90	110			
Sulfate	79.1	3.00	75.00	0	106	90	110			

Sample ID:	CCV1-090321	Batch ID:	R42638		TestNo:	E300		Units:	mg/L	
SampType:	CCV	Run ID:	IC_090321C		Analysis Date:	03/21/09 01:43 PM		Prep Date:	03/21/09	
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	20.5	1.00	20.00	0	102	90	110			
Chloride	10.2	1.00	10.00	0	102	90	110			
Nitrate-N	5.20	0.500	5.000	0	104	90	110			
Sulfate	30.5	3.00	30.00	0	102	90	110			

Sample ID:	CCV2-090321	Batch ID:	R42638		TestNo:	E300		Units:	mg/L	
SampType:	CCV	Run ID:	IC_090321C		Analysis Date:	03/21/09 04:52 PM		Prep Date:	03/21/09	
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	20.3	1.00	20.00	0	101	90	110			
Chloride	10.4	1.00	10.00	0	104	90	110			
Nitrate-N	5.15	0.500	5.000	0	103	90	110			
Sulfate	31.1	3.00	30.00	0	104	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903165
Project: RRC Petronila GW

ANALYTICAL QC SUMMARY REPORT

RunID: IC_090322B

Sample ID:	MB-34068	Batch ID:	34068	TestNo:	E300	Units:	mg/L	
SampType:	MBLK	Run ID:	IC_090322B	Analysis Date:	03/22/09 09:24 PM	Prep Date:	03/21/09	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride	ND	1.00								
Sulfate	ND	3.00								

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903165
Project: RRC Petronila GW

ANALYTICAL QC SUMMARY REPORT

RunID: IC_090322B

Sample ID:	ICV-090322	Batch ID:	R42642	TestNo:	E300			Units:	mg/L	
SampType:	ICV	Run ID:	IC_090322B	Analysis Date:	03/22/09 09:08 PM			Prep Date:	03/22/09	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit Qual
Chloride		26.8	1.00	25.00	0	107	90	110		
Sulfate		79.5	3.00	75.00	0	106	90	110		

Sample ID:	CCV1-090322	Batch ID:	R42642	TestNo:	E300			Units:	mg/L	
SampType:	CCV	Run ID:	IC_090322B	Analysis Date:	03/23/09 12:08 AM			Prep Date:	03/23/09	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit Qual
Chloride		9.99	1.00	10.00	0	99.9	90	110		
Sulfate		30.3	3.00	30.00	0	101	90	110		

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903165
Project: RRC Petronila GW

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_090330B

Sample ID:	LCS-34068	Batch ID:	34068		TestNo:		E300		Units:		mg/L
SampType:	LCS	Run ID:	IC2_090330B		Analysis Date:		03/30/09 09:28 AM		Prep Date:		03/21/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		9.27	1.00	10.00	0	92.7	90	110			
Sulfate		28.9	3.00	30.00	0	96.5	90	110			

Sample ID:	LCSD-34068	Batch ID:	34068		TestNo:		E300		Units:		mg/L
SampType:	LCSD	Run ID:	IC2_090330B		Analysis Date:		03/30/09 09:43 AM		Prep Date:		03/21/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		9.25	1.00	10.00	0	92.5	90	110	0.240	20	
Sulfate		28.9	3.00	30.00	0	96.3	90	110	0.195	20	

Sample ID:	MB-34068	Batch ID:	34068		TestNo:		E300		Units:		mg/L
SampType:	MBLK	Run ID:	IC2_090330B		Analysis Date:		03/30/09 09:57 AM		Prep Date:		03/21/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		ND	1.00								
Sulfate		ND	3.00								

Sample ID:	0903166-15BMS	Batch ID:	34068		TestNo:		E300		Units:		mg/L
SampType:	MS	Run ID:	IC2_090330B		Analysis Date:		03/30/09 03:11 PM		Prep Date:		03/21/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		13400	1000	10000	3989	93.9	90	110			
Sulfate		29300	3000	30000	930.4	94.6	90	110			

Sample ID:	0903166-15BMSD	Batch ID:	34068		TestNo:		E300		Units:		mg/L
SampType:	MSD	Run ID:	IC2_090330B		Analysis Date:		03/30/09 03:25 PM		Prep Date:		03/21/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		13400	1000	10000	3989	94.2	90	110	0.203	20	
Sulfate		29400	3000	30000	930.4	94.8	90	110	0.254	20	

Sample ID:	0903166-17BMS	Batch ID:	34068		TestNo:		E300		Units:		mg/L
SampType:	MS	Run ID:	IC2_090330B		Analysis Date:		03/30/09 03:55 PM		Prep Date:		03/21/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		9620	1000	10000	403.7	92.2	90	110			
Sulfate		28800	3000	30000	0	95.9	90	110			

Sample ID:	0903166-17BMSD	Batch ID:	34068		TestNo:		E300		Units:		mg/L
SampType:	MSD	Run ID:	IC2_090330B		Analysis Date:		03/30/09 04:09 PM		Prep Date:		03/21/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		9510	1000	10000	403.7	91.1	90	110	1.17	20	
Sulfate		28700	3000	30000	0	95.7	90	110	0.207	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903165
Project: RRC Petronila GW

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_090330B

Sample ID:	ICV-090330	Batch ID:	R42609	TestNo:	E300	Units:	mg/L
SampType:	ICV	Run ID:	IC2_090330B	Analysis Date:	03/30/09 09:04 AM	Prep Date:	03/30/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride	23.8	1.00	25.00	0	95.4	90	110			
Sulfate	74.1	3.00	75.00	0	98.8	90	110			

Sample ID:	CCV1-090330	Batch ID:	R42609	TestNo:	E300	Units:	mg/L
SampType:	CCV	Run ID:	IC2_090330B	Analysis Date:	03/30/09 12:01 PM	Prep Date:	03/30/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride	10.0	1.00	10.00	0	100	90	110			
Sulfate	30.1	3.00	30.00	0	100	90	110			

Sample ID:	CCV2-090330	Batch ID:	R42609	TestNo:	E300	Units:	mg/L
SampType:	CCV	Run ID:	IC2_090330B	Analysis Date:	03/30/09 02:41 PM	Prep Date:	03/30/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride	9.19	1.00	10.00	0	91.9	90	110			
Sulfate	28.6	3.00	30.00	0	95.2	90	110			

Sample ID:	CCV3-090330	Batch ID:	R42609	TestNo:	E300	Units:	mg/L
SampType:	CCV	Run ID:	IC2_090330B	Analysis Date:	03/30/09 05:23 PM	Prep Date:	03/30/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride	9.20	1.00	10.00	0	92.0	90	110			
Sulfate	28.6	3.00	30.00	0	95.4	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903165
Project: RRC Petronila GW

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_090331C

Sample ID:	LCS-34068	Batch ID:	34068		TestNo:		E300		Units:		mg/L
SampType:	LCS	Run ID:	IC2_090331C		Analysis Date:		03/31/09 09:48 AM		Prep Date:		03/21/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		9.59	1.00	10.00	0	95.9	90	110			
Sulfate		28.7	3.00	30.00	0	95.7	90	110			

Sample ID:	LCSD-34068	Batch ID:	34068		TestNo:		E300		Units:		mg/L
SampType:	LCSD	Run ID:	IC2_090331C		Analysis Date:		03/31/09 10:02 AM		Prep Date:		03/21/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		9.39	1.00	10.00	0	93.9	90	110	2.17	20	
Sulfate		29.0	3.00	30.00	0	96.7	90	110	1.04	20	

Sample ID:	MB-34068	Batch ID:	34068		TestNo:		E300		Units:		mg/L
SampType:	MBLK	Run ID:	IC2_090331C		Analysis Date:		03/31/09 10:42 AM		Prep Date:		03/21/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		ND	1.00								
Sulfate		ND	3.00								

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903165
Project: RRC Petronila GW

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_090331C

Sample ID:	ICV-090331	Batch ID:	R42643	TestNo:	E300	Units:	mg/L
SampType:	ICV	Run ID:	IC2_090331C	Analysis Date:	03/31/09 09:33 AM	Prep Date:	03/31/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride	24.5	1.00	25.00	0	98.2	90	110			
Sulfate	75.0	3.00	75.00	0	100	90	110			

Sample ID:	CCV1-090331	Batch ID:	R42643	TestNo:	E300	Units:	mg/L
SampType:	CCV	Run ID:	IC2_090331C	Analysis Date:	03/31/09 11:55 AM	Prep Date:	03/31/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride	9.22	1.00	10.00	0	92.2	90	110			
Sulfate	28.5	3.00	30.00	0	94.9	90	110			

Sample ID:	CCV3-090331	Batch ID:	R42643	TestNo:	E300	Units:	mg/L
SampType:	CCV	Run ID:	IC2_090331C	Analysis Date:	03/31/09 05:17 PM	Prep Date:	03/31/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride	9.20	1.00	10.00	0	92.0	90	110			
Sulfate	28.7	3.00	30.00	0	95.5	90	110			

Sample ID:	CCV4-090331	Batch ID:	R42643	TestNo:	E300	Units:	mg/L
SampType:	CCV	Run ID:	IC2_090331C	Analysis Date:	03/31/09 07:58 PM	Prep Date:	03/31/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride	9.27	1.00	10.00	0	92.7	90	110			
Sulfate	28.6	3.00	30.00	0	95.4	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903165
Project: RRC Petronila GW

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_090323A

Sample ID:	0903165-01B DUP	Batch ID:	34086	TestNo:	M4500-H+ B			Units:	pH Units
SampType:	DUP	Run ID:	TITRATOR_090323A	Analysis Date:	03/23/09 10:05 AM			Prep Date:	03/23/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
pH	7.29	0	0	7.190				1.38	5	

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903165
Project: RRC Petronila GW

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_090323A

Sample ID:	ICV-090323	Batch ID:	R42449	TestNo:		M4500-H+ B		Units:		pH Units
SampType:	ICV	Run ID:	TITRATOR_090323A	Analysis Date:		03/23/09 10:02 AM		Prep Date:		03/23/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit Qual
pH		9.97	0	10.00	0	99.7	99	101		

Sample ID:	CCV-090323	Batch ID:	R42449	TestNo:		M4500-H+ B		Units:		pH Units
SampType:	CCV	Run ID:	TITRATOR_090323A	Analysis Date:		03/23/09 10:10 AM		Prep Date:		03/23/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit Qual
pH		7.03	0	7.000	0	100	97.1	102.9		

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903165
Project: RRC Petronila GW

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_090325A

Sample ID:	MB-34132	Batch ID:	34132		TestNo:		M2320 B		Units:		mg/L
SampType:	MBLK	Run ID:	TITRATOR_090325A		Analysis Date:		03/25/09 12:50 PM		Prep Date:		03/25/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)		ND	20.0								
Alkalinity, Carbonate (As CaCO3)		ND	20.0								
Alkalinity, Hydroxide (As CaCO3)		ND	20.0								
Alkalinity, Total (As CaCO3)		ND	20.0								

Sample ID:	LCS-34132	Batch ID:	34132		TestNo:		M2320 B		Units:		mg/L
SampType:	LCS	Run ID:	TITRATOR_090325A		Analysis Date:		03/25/09 12:54 PM		Prep Date:		03/25/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)		54.8	20.0	50.00	0	110	74	129			

Sample ID:	0903151-02B DUP	Batch ID:	34132		TestNo:		M2320 B		Units:		mg/L
SampType:	DUP	Run ID:	TITRATOR_090325A		Analysis Date:		03/25/09 01:48 PM		Prep Date:		03/25/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)		256	20.0	0	260.2				1.59	20	
Alkalinity, Carbonate (As CaCO3)		0	20.0	0	0				0	20	
Alkalinity, Hydroxide (As CaCO3)		0	20.0	0	0				0	20	
Alkalinity, Total (As CaCO3)		256	20.0	0	260.2				1.59	20	

Sample ID:	0903165-01B DUP	Batch ID:	34132		TestNo:		M2320 B		Units:		mg/L
SampType:	DUP	Run ID:	TITRATOR_090325A		Analysis Date:		03/25/09 03:36 PM		Prep Date:		03/25/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)		292	20.0	0	294.4				0.784	20	
Alkalinity, Carbonate (As CaCO3)		0	20.0	0	0				0	20	
Alkalinity, Hydroxide (As CaCO3)		0	20.0	0	0				0	20	
Alkalinity, Total (As CaCO3)		292	20.0	0	294.4				0.784	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903165
Project: RRC Petronila GW

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_090325A

Sample ID:	ICV-090325	Batch ID:	R42524	TestNo:	M2320 B	Units:	mg/L
SampType:	ICV	Run ID:	TITRATOR_090325A	Analysis Date:	03/25/09 12:48 PM	Prep Date:	03/25/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	11.4	20.0	0							
Alkalinity, Carbonate (As CaCO3)	89.3	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0							
Alkalinity, Total (As CaCO3)	101	20.0	100.0	0	101	98	102			

Sample ID:	CCV1-090325	Batch ID:	R42524	TestNo:	M2320 B	Units:	mg/L
SampType:	CCV	Run ID:	TITRATOR_090325A	Analysis Date:	03/25/09 02:06 PM	Prep Date:	03/25/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	18.8	20.0	0							
Alkalinity, Carbonate (As CaCO3)	82.1	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0							
Alkalinity, Total (As CaCO3)	101	20.0	100.0	0	101	90	110			

Sample ID:	CCV2-090325	Batch ID:	R42524	TestNo:	M2320 B	Units:	mg/L
SampType:	CCV	Run ID:	TITRATOR_090325A	Analysis Date:	03/25/09 03:29 PM	Prep Date:	03/25/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	25.0	20.0	0							
Alkalinity, Carbonate (As CaCO3)	76.0	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0							
Alkalinity, Total (As CaCO3)	101	20.0	100.0	0	101	90	110			

Sample ID:	CCV3-090325	Batch ID:	R42524	TestNo:	M2320 B	Units:	mg/L
SampType:	CCV	Run ID:	TITRATOR_090325A	Analysis Date:	03/25/09 03:55 PM	Prep Date:	03/25/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	21.5	20.0	0							
Alkalinity, Carbonate (As CaCO3)	79.4	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0							
Alkalinity, Total (As CaCO3)	101	20.0	100.0	0	101	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903165
Project: RRC Petronila GW

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_090330B

Sample ID:	LCS-090330	Batch ID:	34199	TestNo:	M2320 B			Units:	mg/L		
SampType:	LCS	Run ID:	TITRATOR_090330B	Analysis Date:	03/30/09 09:14 AM			Prep Date:	03/30/09		
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)		55.5	20.0	50.00	0	111	74	129			

Sample ID:	MB-34199	Batch ID:	34199	TestNo:	M2320 B			Units:	mg/L		
SampType:	MBLK	Run ID:	TITRATOR_090330B	Analysis Date:	03/30/09 09:16 AM			Prep Date:	03/30/09		
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)		ND	20.0	0							
Alkalinity, Carbonate (As CaCO3)		ND	20.0	0							
Alkalinity, Hydroxide (As CaCO3)		ND	20.0	0							
Alkalinity, Total (As CaCO3)		ND	20.0	0							

Sample ID:	0903166-15B DUP	Batch ID:	34199	TestNo:	M2320 B			Units:	mg/L		
SampType:	DUP	Run ID:	TITRATOR_090330B	Analysis Date:	03/30/09 10:32 AM			Prep Date:	03/30/09		
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)		87.9	20.0	0	89.00				1.24	20	
Alkalinity, Carbonate (As CaCO3)		0	20.0	0	0				0	20	
Alkalinity, Hydroxide (As CaCO3)		0	20.0	0	0				0	20	
Alkalinity, Total (As CaCO3)		87.9	20.0	0	89.00				1.24	20	

Sample ID:	0903171-01D DUP	Batch ID:	34199	TestNo:	M2320 B			Units:	mg/L		
SampType:	DUP	Run ID:	TITRATOR_090330B	Analysis Date:	03/30/09 11:27 AM			Prep Date:	03/30/09		
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)		371	20.0	0	374.0				0.859	20	
Alkalinity, Carbonate (As CaCO3)		0	20.0	0	0				0	20	
Alkalinity, Hydroxide (As CaCO3)		0	20.0	0	0				0	20	
Alkalinity, Total (As CaCO3)		371	20.0	0	374.0				0.859	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903165
Project: RRC Petronila GW

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_090330B

Sample ID:	ICV-090330	Batch ID:	R42585	TestNo:	M2320 B	Units:	mg/L
SampType:	ICV	Run ID:	TITRATOR_090330B	Analysis Date:	03/30/09 09:10 AM	Prep Date:	03/30/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	11.2	20.0	0							
Alkalinity, Carbonate (As CaCO3)	89.9	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0							
Alkalinity, Total (As CaCO3)	101	20.0	100.0	0	101	98	102			

Sample ID:	CCV1-090330	Batch ID:	R42585	TestNo:	M2320 B	Units:	mg/L
SampType:	CCV	Run ID:	TITRATOR_090330B	Analysis Date:	03/30/09 10:21 AM	Prep Date:	03/30/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	15.2	20.0	0							
Alkalinity, Carbonate (As CaCO3)	87.2	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0							
Alkalinity, Total (As CaCO3)	102	20.0	100.0	0	102	90	110			

Sample ID:	CCV2-090330	Batch ID:	R42585	TestNo:	M2320 B	Units:	mg/L
SampType:	CCV	Run ID:	TITRATOR_090330B	Analysis Date:	03/30/09 11:11 AM	Prep Date:	03/30/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	17.0	20.0	0							
Alkalinity, Carbonate (As CaCO3)	85.9	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0							
Alkalinity, Total (As CaCO3)	103	20.0	100.0	0	103	90	110			

Sample ID:	CCV3-090330	Batch ID:	R42585	TestNo:	M2320 B	Units:	mg/L
SampType:	CCV	Run ID:	TITRATOR_090330B	Analysis Date:	03/30/09 11:45 AM	Prep Date:	03/30/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	19.2	20.0	0							
Alkalinity, Carbonate (As CaCO3)	83.2	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0							
Alkalinity, Total (As CaCO3)	102	20.0	100.0	0	102	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903165
Project: RRC Petronila GW

ANALYTICAL QC SUMMARY REPORT

RunID: WC_090326A

Sample ID:	MB-34159	Batch ID:	34159		TestNo:	M2540C			Units:		mg/L
SampType:	MBLK	Run ID:	WC_090326A		Analysis Date:	03/26/09 09:00 AM			Prep Date:		03/26/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Fi		ND	10.0								

Sample ID:	LCS-34159	Batch ID:	34159		TestNo:	M2540C			Units:		mg/L
SampType:	LCS	Run ID:	WC_090326A		Analysis Date:	03/26/09 09:00 AM			Prep Date:		03/26/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Fi		756	10.0	745.6	0	101	90	113			

Sample ID:	0903165-01B DUP	Batch ID:	34159		TestNo:	M2540C			Units:		mg/L
SampType:	DUP	Run ID:	WC_090326A		Analysis Date:	03/26/09 09:00 AM			Prep Date:		03/26/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Fi		4200	10.0	0	4377				4.10	5	

Sample ID:	0903152-05B DUP	Batch ID:	34159		TestNo:	M2540C			Units:		mg/L
SampType:	DUP	Run ID:	WC_090326A		Analysis Date:	03/26/09 09:00 AM			Prep Date:		03/26/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Fi		29400	10.0	0	30440				3.34	5	

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903165
Project: RRC Petronila GW

ANALYTICAL QC SUMMARY REPORT

RunID: WC_090327A

Sample ID:	MB-34182	Batch ID:	34182		TestNo:	M2540C			Units:		mg/L
SampType:	MBLK	Run ID:	WC_090327A		Analysis Date:	03/27/09 09:30 AM			Prep Date:		03/27/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Fi		ND	10.0								

Sample ID:	LCS-34182	Batch ID:	34182		TestNo:	M2540C			Units:		mg/L
SampType:	LCS	Run ID:	WC_090327A		Analysis Date:	03/27/09 09:30 AM			Prep Date:		03/27/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Fi		746	10.0	745.6	0	100	90	113			

Sample ID:	0903166-15B DUP	Batch ID:	34182		TestNo:	M2540C			Units:		mg/L
SampType:	DUP	Run ID:	WC_090327A		Analysis Date:	03/27/09 09:30 AM			Prep Date:		03/27/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Fi		14700	10.0	0	14540				1.16	5	

Sample ID:	0903186-02C DUP	Batch ID:	34182		TestNo:	M2540C			Units:		mg/L
SampType:	DUP	Run ID:	WC_090327A		Analysis Date:	03/27/09 09:30 AM			Prep Date:		03/27/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Fi		280	10.0	0	277.0				1.08	5	

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903165
Project: RRC Petronila GW

ANALYTICAL QC SUMMARY REPORT

RunID: WC_090402A

Sample ID:	0903151-02B-DUP	Batch ID:	34276	TestNo:	M2510 B			Units:		µmhos/cm
SampType:	DUP	Run ID:	WC_090402A	Analysis Date:	04/02/09 09:30 AM			Prep Date:		04/02/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit HighLimit	%RPD	RPD Limit	Qual
Specific Conductance		29500	20.0	0	29020			1.71	2	

Sample ID:	0903165-01B-DUP	Batch ID:	34276	TestNo:	M2510 B			Units:		µmhos/cm
SampType:	DUP	Run ID:	WC_090402A	Analysis Date:	04/02/09 09:30 AM			Prep Date:		04/02/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit HighLimit	%RPD	RPD Limit	Qual
Specific Conductance		5060	10.0	0	5010			0.993	2	

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903165
Project: RRC Petronila GW

ANALYTICAL QC SUMMARY REPORT

RunID: WC_090402A

Sample ID:	ICV-090401	Batch ID:	CONDW-04/02/09	TestNo:		M2510 B			Units:		µmhos/cm
SampType:	ICV	Run ID:	WC_090402A	Analysis Date:		04/02/09 09:30 AM			Prep Date:		04/02/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Specific Conductance		12700	10.0	12880	0	98.6	95	105			

Sample ID:	CCV1-090401	Batch ID:	CONDW-04/02/09	TestNo:		M2510 B			Units:		µmhos/cm
SampType:	CCV	Run ID:	WC_090402A	Analysis Date:		04/02/09 09:30 AM			Prep Date:		04/02/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Specific Conductance		12600	10.0	12880	0	97.4	95	105			

Sample ID:	CCV2-090401	Batch ID:	CONDW-04/02/09	TestNo:		M2510 B			Units:		µmhos/cm
SampType:	CCV	Run ID:	WC_090402A	Analysis Date:		04/02/09 09:30 AM			Prep Date:		04/02/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Specific Conductance		12500	10.0	12880	0	97.1	95	105			

Sample ID:	CCV3-090401	Batch ID:	CONDW-04/02/09	TestNo:		M2510 B			Units:		µmhos/cm
SampType:	CCV	Run ID:	WC_090402A	Analysis Date:		04/02/09 09:30 AM			Prep Date:		04/02/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Specific Conductance		12500	10.0	12880	0	96.8	95	105			

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903165
Project: RRC Petronila GW

MQL SUMMARY REPORT

TestNo: E300 Analyte	MDL mg/L	MQL mg/L
Bromide	0.300	1.00
Chloride	0.300	1.00
Nitrate-N	0.100	0.500
Sulfate	1.00	3.00

TestNo: M2320 B Analyte	MDL mg/L	MQL mg/L
Alkalinity, Bicarbonate (As CaCO3)	10.0	20.0
Alkalinity, Carbonate (As CaCO3)	10.0	20.0
Alkalinity, Hydroxide (As CaCO3)	10.0	20.0
Alkalinity, Total (As CaCO3)	10.0	20.0

TestNo: SW6020 Analyte	MDL mg/L	MQL mg/L
Barium	0.00300	0.0100
Calcium	0.100	0.300
Iron	0.0500	0.150
Magnesium	0.100	0.300
Potassium	0.100	0.300
Sodium	0.100	0.300

TestNo: M2540C Analyte	MDL mg/L	MQL mg/L
Total Dissolved Solids (Residue, Fi	10.0	10.0

Qualifiers:
MQL - Method Quantitation Limit as defined by TRRP
MDL - Method Detection Limit as defined by TRRP

April 09, 2009

James Harte
TRC Environmental Corp.
505 East Huntland Drive Suite 250
Austin, Texas 78752

TEL: (512) 329-6080
FAX: (512) 329-8750

Order No: 0903166

RE: RRC Petronila PZ/SW

Dear James Harte:

DHL Analytical received 22 sample(s) on 3/21/2009 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

John DuPont
Lab Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-08C-TX

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DHL ANALYTICAL

2300 Double Creek Drive • Round Rock, TX 78664
Phone (512) 388-8222 • FAX (512) 388-8229

№ 31315

CHAIN-OF-CUSTODY

CLIENT: TRC
ADDRESS: 505 E. Huntland Dr #250
PHONE: 512-329-6080 FAX 512-329-8750
DATA REPORTED TO: Shane Similer
ADDITIONAL REPORT COPIES TO:

DATE: 3/20/09 PAGE 1 OF 2
PO #: DHL WORK ORDER #: 0903166
PROJECT LOCATION OR NAME: TRC-PETRONILA - ~~SWMU~~ PZ/SVE
CLIENT PROJECT #: 14420-02 COLLECTOR: BCG/RWT

Authorize 5% surcharge for TRRP report? ☐Yes ☒No

S=SOIL W=WATER A=AIR P=PAINT SL=SLUDGE OT=OTHER

PRESERVATION: HCl | HNO_3 | H_2SO_4 ☐ NaOH ☐ | ICE | UNPRESERVED

ANALYSES: BTEX ☐ MTBE ☐ | TRPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐ | GASOLINE MOD 8015 ☐ | DIESEL - MOD 8015 ☐ | VOC 8260 ☐ | SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ | 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ | 8082 PCBS ☐ | TCLP - METALS (RCRA) ☐ TCLP VOC ☐ | TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ | TOTAL METALS (RCRA) ☐ OTHER LIST ☐ | LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐ | RCI ☐ TOX ☐ FLASHPOINT ☐ | TDS ☒ TSS ☐ % MOISTURE ☐ CYANIDE ☐ | pH ☒ HEXAVALENT CHROMIUM ☐ | EXPLOSIVES ☐ PECHLORATE ☐ | CHLORIDES ☒ ANIONS ☒ ALKALINITY ☒ | CATIONS | Conductivity | Sulfate, Chloride

Field Sample I.D.	DHL Lab #	Date	Time	Matrix	Container Type	# of Containers	HCl	HNO_3	H_2SO_4 NaOH	ICE	UNPRESERVED	FIELD NOTES
P-D-02	01	3/20/09	1345	W	500,250	2		X		X		~~Cations~~ Anions: Ca, Na, Mg, K, Fe, Br
P-PZ-02	02	3/19/09	1155		500	1				X		
P-PZ-03	03		1250		500	1				X		
P-PZ-04	04		1350		500	1				X		Anions: Cl, Br, Sulfate, nitrate
P-PZ-05	05		1500		500	1				X		
P-PZ-14	06		~~1320~~ 1430		500	1				X		
P-PZ-01	07		1030		500	1				X		Alkalinity & carbonate bicarbonate
P-PZ-10	08	3/20/09	940		500	1				X		
P-CS-13A	09		945		500,250	2		X		X		
P-PZ-11	10		1020		500	1				X		
P-CS-14	11		1025		500,250	2		X		X		
P-D-09	12		1100		500,250	2		X		X		
P-CS-11	13		1155		500,250	2		X		X		
P-CS-11-D	14		1155		500,250	2		X		X		
TOTAL												

TRC PRC PETRONILA QAPP

RELINQUISHED BY: (Signature) DATE/TIME 3/21/09 1100 RECEIVED BY: (Signature)
RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature)
RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature)

☐ DHL DISPOSAL @ $5.00 each ☐ Return

TURN AROUND TIME
RUSH ☐ CALL FIRST
1 DAY ☐ CALL FIRST
2 DAY ☐
NORMAL ☒
OTHER ☐ ____

LABORATORY USE ONLY:
RECEIVING TEMP: 1.6/2.5 THERM #: 57
CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED
☐ CARRIER BILL # ____
☐ APC DELIVERY
☐ HAND DELIVERED

DHL ANALYTICAL

2300 Double Creek Drive • Round Rock, TX 78664
Phone (512) 388-8222 • FAX (512) 388-8229

№ 31316

CHAIN-OF-CUSTODY

CLIENT: TRC
ADDRESS: 505 Entrada Dr Ste 250
PHONE: 512-329-6080 FAX 512-329-8750
DATA REPORTED TO: J. Hawk
ADDITIONAL REPORT COPIES TO: S. Miller

DATE: 3/24/09 PAGE 2 OF 2
PO #: DHL WORK ORDER #: 0903166
PROJECT LOCATION OR NAME: RAC Retest - P2/SW
CLIENT PROJECT #: 114260 / 16420-02 COLLECTOR: BC Garrett

Authorize 5% surcharge for TRRP report? ☐ Yes ☒ No

S=SOIL W=WATER A=AIR P=PAINT SL=SLUDGE OT=OTHER

PRESERVATION: HCl | HNO_3 | H_2SO_4 ☐ NaOH ☐ | ICE | UNPRESERVED

ANALYSES: BTEX ☐ MTBE ☐ | TRPH 418.1 ☐ | TPH 1005 ☐ TPH 1006 ☐ | GASOLINE MOD 8015 ☐ | DIESEL - MOD 8015 ☐ | VOC 8260 ☐ | SVOC 8270 ☐ | PAH 8270 ☐ | HOLDPAH ☐ | 8081 PESTICIDES ☐ | 8082 PCBS ☐ | 8151 HERBICIDES ☐ | TCLP - METALS (RCRA) ☐ | TCLP VOC ☐ | TCLP - PEST ☐ | HERB ☐ | SemiVOC ☐ | TOTAL METALS (RCRA) ☐ | OTHER LIST ☐ | LEAD - TOTAL ☐ | D.W. 200.8 ☐ | TCLP ☐ | RCI ☐ | TOX ☐ | FLASHPOINT ☐ | TDS ☒ | TSS ☐ | % MOISTURE ☐ | CYANIDE ☐ | pH ☒ | HEXAVALENT CHROMIUM ☐ | EXPLOSIVES ☐ | PECHLORATE ☐ | CHLORIDES ☒ | ANIONS ☒ | ALKALINITY ☒ | CATIONS (conductivity) | Sulfide, chloride

Field Sample I.D.	DHL Lab #	Date	Time	Matrix	Container Type	# of Containers	HCl	HNO_3	H_2SO_4 NaOH	ICE	UNPRESERVED	FIELD NOTES
P-CS-01	15	3/24/09	1235	W	500,250	2		X		X		
P-CS-01	15		1235	W		2		X		X		MS
P-CS-01	15		1235	W		2		X		X		MSD
P-CS-06	16		1300	W		2		X		X		
P-CS-02	17		1320	W		2		X		X		
P-CS-04	18		1400	W	↓	2		X		X		Rev per J. Hawk 04/03/09 JD
P-DUP-13	19		1415	W	500	1				X		
P-CS-21	20		1620	W	500,250	2	X			X		
P-EB-W-3-20-09-01	21	3/24/09	1630	W		2	X			X		Equipment Blank
P-EB-W-3-20-09-02	22	↓	1635	W	↓	2	X			X		

RETEST-RAC Retest

per Hawk 3-25-09

Bill TO TRC

Alkalinity - Chlorides/Hardness
Cations — Ca, Na, Mg, K, Fe, Ba
Anions — Cl, Br, Sulfate, Nitrate

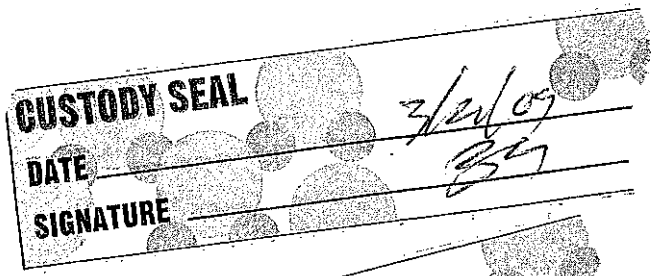
TOTAL

RELINQUISHED BY: (Signature) DATE/TIME 3/24/09 1100 RECEIVED BY: (Signature)
RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature)
RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature)

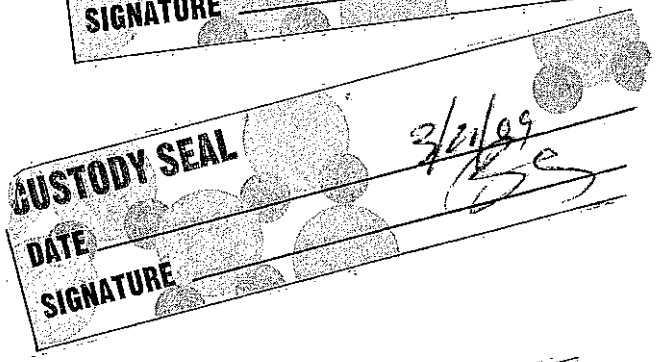
☐ DHL DISPOSAL @ $5.00 each ☐ Return

TURN AROUND TIME
RUSH ☐ CALL FIRST
1 DAY ☐ CALL FIRST
2 DAY ☐
NORMAL ☒
OTHER ☐ ____

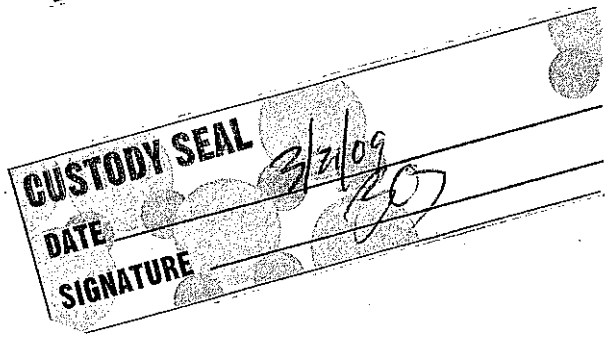
LABORATORY USE ONLY:
RECEIVING TEMP: 1.6/2.5° THERM #: 57
CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED
☐ CARRIER BILL # ____
☐ APC DELIVERY
☒ HAND DELIVERED


CUSTODY SEAL
DATE 3/21/09
SIGNATURE

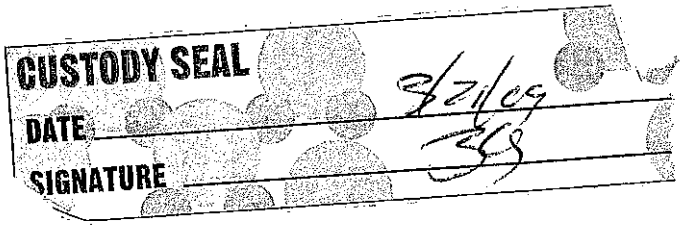

QEC
Quality Environmental Containers
800-255-3950 • 304-255-3900


CUSTODY SEAL
DATE 3/21/09
SIGNATURE


QEC
Quality Environmental Containers
800-255-3950 • 304-255-3900


CUSTODY SEAL
DATE 3/21/09
SIGNATURE


QEC
Quality Environmental Containers
800-255-3950 • 304-255-3900


CUSTODY SEAL
DATE 3/21/09
SIGNATURE


QEC
Quality Environmental Containers
800-255-3950 • 304-255-3900

Laboratory Data Package Signature Page

This data package consists of:

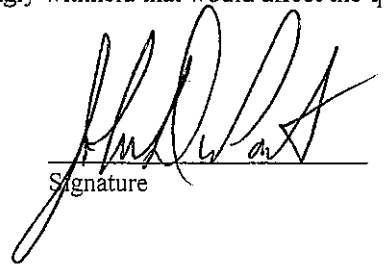
This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC 5.13
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix;
- R10 Other problems or anomalies.

The Exception Report for every "No" or "Not Reviewed (NR)" item in laboratory review checklist.

Release Statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By me signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

Scott Schroeder – Project Manager
John DuPont – General / QA Manager



Signature

04/09/09

Date

DHL Analytical, Inc.

Laboratory Review Checklist: Reportable Data

Project Name: RRC Petronila PZ/SW	Date: 4/9/09
Reviewer Name: Carlos Castro	Laboratory Work Order: 0903166
Prep Batch Number(s): See Prep Dates Report	Run Batch: See Analytical Dates Report

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-Custody (C-O-C)					
R1	OI	1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				R1-01
		2) Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and Quality Control (QC) Identification**					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test Reports**					
		1) Were all samples prepared and analyzed within holding times?		X			R3-01
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample quantitation limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?			X		
		7) Were % moisture (or solids) reported for all soil and sediment samples?			X		
		8) If required for the project, TICs reported?			X		
R4	O	**Surrogate Recovery Data**					
		1) Were surrogates added prior to extraction?			X		
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test Reports/Summary Forms for Blank Samples**					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Where method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations < MQL?	X				
R6	OI	**Laboratory Control Samples (LCS):**					
		1) Were all COCs included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs?	X				
		6) Was the LCSD RPD within QC limits (if applicable)?	X				
R7	OI	**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data**					
		1) Were the project/method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			R7-03
		4) Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical Duplicate Data**					
		1) Were appropriate analytical duplicates analyzed for each matrix?	X				
		2) Were analytical duplicates analyzed at the appropriate frequency?	X				
		3) Were RPDs or relative standard deviations within the laboratory QC limits?		X			R8-03
R9	OI	**Method Quantitation Limits (MQLs):**					
		1) Are the MQLs for each method analyte included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs included in the laboratory data package?	X				
R10	OI	**Other Problems/Anomalies**					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				R10-01
		2) Were all necessary corrective actions performed for the reported data?	X				
		3) Was applicable and available technology used to lower the SQL minimize the matrix interference affects on the sample results?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

DHL Analytical, Inc.

Laboratory Review Checklist (continued): Supporting Data

Project Name: RRC Petronila PZ/SW	Date: 4/9/09
Reviewer Name: Carlos Castro	Laboratory Work Order: 0903166

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial Calibration (ICAL)**					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB):**					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass Spectral Tuning:**					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal Standards (IS):**					
		1) Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**Raw Data (NELAC section 1 appendix A glossary, and section 5.12)**					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual Column Confirmation**					
		1) Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively Identified Compounds (TICs):**					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) Results:**					
		1) Were percent recoveries within method QC limits?	X				
S9	I	**Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions**					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	OI	**Method Detection Limit (MDL) Studies**					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency Test Reports:**					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards Documentation**					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/Analyte Identification Procedures**					
		1) Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of Analyst Competency (DOC)**					
		1) Was DOC conducted consistent with NELAC Chapter 5C?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/Validation Documentation for Methods** (NELAC Chap 5)					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory Standard Operating Procedures (SOPs):**					
		1) Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

DHL Analytical

Sample Receipt Checklist

Client Name TRC Environmental Corp. Date Received: 3/21/2009

Work Order Number 0903166 Received by JB

Checklist completed by: Signature 3/21/09 Date Reviewed by Initials 3/21/09 Date

Carrier name: Hand Delivered

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☑	No ☐	Not Present ☐
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	2.5 °C
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	Not Applicable ☐

Adjusted? NO Checked by

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

CLIENT: TRC Environmental Corp.
Project: RRC Petronila PZ/SW
Lab Order: 0903166

CASE NARRATIVE

The samples were analyzed using the methods outlined in the following references:

Method SW6020 - Metals Analysis
Method E300 - Anions Analysis
Method M2320 B (18th Edition) - Alkalinity Analysis
Method M2540C (18th Edition) - TDS Analysis
Method M4500-H+ B (18th Edition) - pH of a Water
Method M2510 B (18th Edition) - Specific Conductance

Exception Report R1-01

Samples were received and log-in performed on 3/21/09. A total of 22 samples were received. On 3/25/09 TDS was added on to samples PEB-W-3-20-09-02 and P-EB-W-3-20-09-03. On 4/3/09 pH of a Water and Specific Conductance was added to sample P-PZ-13 as per the client. These were performed as requested. The samples arrived in good condition and were properly packaged.

Exception Report R3-01

For Anions analysis sample P-PZ-13 had the Nitrate-N analysis performed outside of HoldTime due to prioritization schedule. The result is flagged with a "C" to designate this.

Exception Report R7-03

For Metals analysis performed on 3/26/09, 3/31/09 and 4/1/09 (batches 34081, 34201 & 34229) the matrix spikes and/or matrix spike duplicate recoveries were out of control limits for a few analytes. These are flagged accordingly in the QC summary report. The reference sample selected for the matrix spikes and matrix spike duplicates (batches 34081 & 34201) were from this work order. The reference sample selected for the matrix spike and matrix spike duplicate (batch 34229) was not from this work order. The LCSs were within control limits for these analytes. No further corrective actions were taken.

Exception Report R8-03

For pH of a Water analysis performed on 4/6/09 the sample and sample duplicate (0904051-02B & 0904051-02B DUP) had the RPD above control limits. This is flagged accordingly in the QC summary report. The other sample and sample duplicate (0903216-03A & 0903216-03A DUP) was within control limits. No further corrective actions were taken.

Exception Report R10-01

For Anions analysis some samples were diluted prior to analysis due to the nature of the samples (chloride concentration).

Ten of the sample locations produced low volumes of water during the sample event of March 20, 2009 and the client prioritized the analysis as follows: Anions (chloride & sulfate), TDS, Metals and Alkalinity. On March 26, 2009 the client collected additional volumes of water for nine of the ten wells. These samples are in work order 0903216. Any testing that could not be performed on the 3/20/09 sample because of limited volume was analyzed on the 3/26/09 samples from the same well. Sample P-PZ-13

was collected on 3/20/09 and was not re-collected on 3/26/09. There was sufficient sample volume to analyze all tests.

CLIENT: TRC Environmental Corp.
Project: RRC Petronila PZ/SW
Lab Order: 0903166

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recv'd
0903166-01	P-D-02		03/20/09 01:45 PM	03/21/09
0903166-02	P-PZ-02		03/19/09 11:55 AM	03/21/09
0903166-03	P-PZ-03		03/19/09 12:50 PM	03/21/09
0903166-04	P-PZ-04		03/19/09 01:50 PM	03/21/09
0903166-05	P-PZ-05		03/19/09 03:00 PM	03/21/09
0903166-06	P-PZ-14		03/19/09 01:25 PM	03/21/09
0903166-07	P-PZ-01		03/19/09 10:30 AM	03/21/09
0903166-08	P-PZ-10		03/20/09 09:40 AM	03/21/09
0903166-09	P-CS-13A		03/20/09 09:45 AM	03/21/09
0903166-10	P-PZ-11		03/20/09 10:20 AM	03/21/09
0903166-11	P-CS-14		03/20/09 10:25 AM	03/21/09
0903166-12	P-D-09		03/20/09 11:00 AM	03/21/09
0903166-13	P-CS-11		03/20/09 11:55 AM	03/21/09
0903166-14	P-CS-11-D		03/20/09 11:55 AM	03/21/09
0903166-15	P-CS-09		03/20/09 12:35 PM	03/21/09
0903166-16	P-CS-06		03/20/09 01:00 PM	03/21/09
0903166-17	P-CS-02		03/20/09 01:20 PM	03/21/09
0903166-18	P-CS-04		03/20/09 02:00 PM	03/21/09
0903166-19	P-PZ-13		03/20/09 02:15 PM	03/21/09
0903166-20	P-CS-21		03/20/09 04:20 PM	03/21/09
0903166-21	P-EB-W-3-20-09-02		03/20/09 04:30 PM	03/21/09
0903166-22	P-EB-W-3-20-09-03		03/20/09 04:35 PM	03/21/09

CLIENT: TRC Environmental Corp.
Project: RRC Petronila PZ/SW
Lab Order: 0903166

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
0903166-01A	P-D-02	03/20/09 01:45 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/23/09 10:22 AM	34081
	P-D-02	03/20/09 01:45 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/23/09 10:22 AM	34081
	P-D-02	03/20/09 01:45 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/23/09 10:22 AM	34081
0903166-01B	P-D-02	03/20/09 01:45 PM	Aqueous	E300	Anion Preparation	03/21/09 09:52 AM	34068
	P-D-02	03/20/09 01:45 PM	Aqueous	E300	Anion Preparation	04/01/09 08:30 AM	34264
	P-D-02	03/20/09 01:45 PM	Aqueous	M2320 B	Alkalinity Preparation	03/30/09 10:23 AM	34199
	P-D-02	03/20/09 01:45 PM	Aqueous	M2540C	TDS Preparation	03/27/09 09:00 AM	34182
0903166-02A	P-PZ-02	03/19/09 11:55 AM	Aqueous	E300	Anion Preparation	03/30/09 08:55 AM	34210
	P-PZ-02	03/19/09 11:55 AM	Aqueous	E300	Anion Preparation	03/30/09 08:55 AM	34210
	P-PZ-02	03/19/09 11:55 AM	Aqueous	M2540C	TDS Preparation	03/26/09 08:00 AM	34159
0903166-03A	P-PZ-03	03/19/09 12:50 PM	Aqueous	E300	Anion Preparation	03/30/09 08:55 AM	34210
	P-PZ-03	03/19/09 12:50 PM	Aqueous	E300	Anion Preparation	03/30/09 08:55 AM	34210
	P-PZ-03	03/19/09 12:50 PM	Aqueous	M2540C	TDS Preparation	03/26/09 08:00 AM	34159
0903166-04A	P-PZ-04	03/19/09 01:50 PM	Aqueous	E300	Anion Preparation	03/30/09 08:55 AM	34210
	P-PZ-04	03/19/09 01:50 PM	Aqueous	E300	Anion Preparation	03/30/09 08:55 AM	34210
	P-PZ-04	03/19/09 01:50 PM	Aqueous	M2320 B	Alkalinity Preparation	03/30/09 10:23 AM	34199
	P-PZ-04	03/19/09 01:50 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/30/09 10:56 AM	34201
	P-PZ-04	03/19/09 01:50 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/30/09 10:56 AM	34201
	P-PZ-04	03/19/09 01:50 PM	Aqueous	M2540C	TDS Preparation	03/26/09 08:00 AM	34159
0903166-05A	P-PZ-05	03/19/09 03:00 PM	Aqueous	E300	Anion Preparation	03/30/09 08:55 AM	34210
	P-PZ-05	03/19/09 03:00 PM	Aqueous	E300	Anion Preparation	03/30/09 08:55 AM	34210
	P-PZ-05	03/19/09 03:00 PM	Aqueous	M2540C	TDS Preparation	03/26/09 08:00 AM	34159
0903166-06A	P-PZ-14	03/19/09 01:25 PM	Aqueous	E300	Anion Preparation	03/30/09 08:55 AM	34210
	P-PZ-14	03/19/09 01:25 PM	Aqueous	E300	Anion Preparation	03/30/09 08:55 AM	34210
	P-PZ-14	03/19/09 01:25 PM	Aqueous	M2540C	TDS Preparation	03/26/09 08:00 AM	34159
0903166-07A	P-PZ-01	03/19/09 10:30 AM	Aqueous	E300	Anion Preparation	03/30/09 08:55 AM	34210
	P-PZ-01	03/19/09 10:30 AM	Aqueous	E300	Anion Preparation	03/30/09 08:55 AM	34210
	P-PZ-01	03/19/09 10:30 AM	Aqueous	M2540C	TDS Preparation	03/26/09 08:00 AM	34159
0903166-08A	P-PZ-10	03/20/09 09:40 AM	Aqueous	E300	Anion Preparation	03/30/09 08:55 AM	34210

CLIENT: TRC Environmental Corp.
Project: RRC Petronila PZ/SW
Lab Order: 0903166

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
	P-PZ-10	03/20/09 09:40 AM	Aqueous	E300	Anion Preparation	03/30/09 08:55 AM	34210
	P-PZ-10	03/20/09 09:40 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/31/09 10:51 AM	34229
	P-PZ-10	03/20/09 09:40 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/31/09 10:51 AM	34229
	P-PZ-10	03/20/09 09:40 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/31/09 10:51 AM	34229
	P-PZ-10	03/20/09 09:40 AM	Aqueous	M2540C	TDS Preparation	03/27/09 09:00 AM	34182
0903166-09A	P-CS-13A	03/20/09 09:45 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/23/09 10:22 AM	34081
	P-CS-13A	03/20/09 09:45 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/23/09 10:22 AM	34081
	P-CS-13A	03/20/09 09:45 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/23/09 10:22 AM	34081
0903166-09B	P-CS-13A	03/20/09 09:45 AM	Aqueous	E300	Anion Preparation	03/21/09 09:52 AM	34068
	P-CS-13A	03/20/09 09:45 AM	Aqueous	E300	Anion Preparation	03/21/09 09:52 AM	34068
	P-CS-13A	03/20/09 09:45 AM	Aqueous	E300	Anion Preparation	03/21/09 09:52 AM	34068
	P-CS-13A	03/20/09 09:45 AM	Aqueous	M2320 B	Alkalinity Preparation	03/30/09 10:23 AM	34199
	P-CS-13A	03/20/09 09:45 AM	Aqueous	M2540C	TDS Preparation	03/27/09 09:00 AM	34182
0903166-10A	P-PZ-11	03/20/09 10:20 AM	Aqueous	E300	Anion Preparation	03/21/09 09:52 AM	34068
	P-PZ-11	03/20/09 10:20 AM	Aqueous	E300	Anion Preparation	03/21/09 09:52 AM	34068
	P-PZ-11	03/20/09 10:20 AM	Aqueous	M2320 B	Alkalinity Preparation	03/30/09 10:23 AM	34199
	P-PZ-11	03/20/09 10:20 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/30/09 10:56 AM	34201
	P-PZ-11	03/20/09 10:20 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/30/09 10:56 AM	34201
	P-PZ-11	03/20/09 10:20 AM	Aqueous	M2540C	TDS Preparation	03/27/09 09:00 AM	34182
0903166-11A	P-CS-14	03/20/09 10:25 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/23/09 10:22 AM	34081
	P-CS-14	03/20/09 10:25 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/23/09 10:22 AM	34081
	P-CS-14	03/20/09 10:25 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/23/09 10:22 AM	34081
0903166-11B	P-CS-14	03/20/09 10:25 AM	Aqueous	E300	Anion Preparation	03/21/09 09:52 AM	34068
	P-CS-14	03/20/09 10:25 AM	Aqueous	E300	Anion Preparation	03/21/09 09:52 AM	34068
	P-CS-14	03/20/09 10:25 AM	Aqueous	E300	Anion Preparation	03/21/09 09:52 AM	34068
	P-CS-14	03/20/09 10:25 AM	Aqueous	M2320 B	Alkalinity Preparation	03/30/09 10:23 AM	34199
	P-CS-14	03/20/09 10:25 AM	Aqueous	M2540C	TDS Preparation	03/27/09 09:00 AM	34182
0903166-12A	P-D-09	03/20/09 11:00 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/23/09 10:22 AM	34081
	P-D-09	03/20/09 11:00 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/23/09 10:22 AM	34081

CLIENT: TRC Environmental Corp.
Project: RRC Petronila PZ/SW
Lab Order: 0903166

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
	P-D-09	03/20/09 11:00 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/23/09 10:22 AM	34081
	P-D-09	03/20/09 11:00 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/23/09 10:22 AM	34081
0903166-12B	P-D-09	03/20/09 11:00 AM	Aqueous	E300	Anion Preparation	03/21/09 09:52 AM	34068
	P-D-09	03/20/09 11:00 AM	Aqueous	E300	Anion Preparation	03/21/09 09:52 AM	34068
	P-D-09	03/20/09 11:00 AM	Aqueous	E300	Anion Preparation	03/21/09 09:52 AM	34068
	P-D-09	03/20/09 11:00 AM	Aqueous	M2320 B	Alkalinity Preparation	03/30/09 10:23 AM	34199
	P-D-09	03/20/09 11:00 AM	Aqueous	M2540C	TDS Preparation	03/27/09 09:00 AM	34182
0903166-13A	P-CS-11	03/20/09 11:55 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/23/09 10:22 AM	34081
	P-CS-11	03/20/09 11:55 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/23/09 10:22 AM	34081
	P-CS-11	03/20/09 11:55 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/23/09 10:22 AM	34081
0903166-13B	P-CS-11	03/20/09 11:55 AM	Aqueous	E300	Anion Preparation	03/21/09 09:52 AM	34068
	P-CS-11	03/20/09 11:55 AM	Aqueous	E300	Anion Preparation	03/21/09 09:52 AM	34068
	P-CS-11	03/20/09 11:55 AM	Aqueous	E300	Anion Preparation	03/21/09 09:52 AM	34068
	P-CS-11	03/20/09 11:55 AM	Aqueous	M2320 B	Alkalinity Preparation	03/30/09 10:23 AM	34199
	P-CS-11	03/20/09 11:55 AM	Aqueous	M2540C	TDS Preparation	03/27/09 09:00 AM	34182
0903166-14A	P-CS-11-D	03/20/09 11:55 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/23/09 10:22 AM	34081
	P-CS-11-D	03/20/09 11:55 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/23/09 10:22 AM	34081
	P-CS-11-D	03/20/09 11:55 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/23/09 10:22 AM	34081
0903166-14B	P-CS-11-D	03/20/09 11:55 AM	Aqueous	E300	Anion Preparation	03/21/09 09:52 AM	34068
	P-CS-11-D	03/20/09 11:55 AM	Aqueous	E300	Anion Preparation	03/21/09 09:52 AM	34068
	P-CS-11-D	03/20/09 11:55 AM	Aqueous	E300	Anion Preparation	03/21/09 09:52 AM	34068
	P-CS-11-D	03/20/09 11:55 AM	Aqueous	M2320 B	Alkalinity Preparation	03/30/09 10:23 AM	34199
	P-CS-11-D	03/20/09 11:55 AM	Aqueous	M2540C	TDS Preparation	03/27/09 09:00 AM	34182
0903166-15A	P-CS-09	03/20/09 12:35 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/23/09 10:22 AM	34081
	P-CS-09	03/20/09 12:35 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/23/09 10:22 AM	34081
	P-CS-09	03/20/09 12:35 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/23/09 10:22 AM	34081
	P-CS-09	03/20/09 12:35 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/23/09 10:22 AM	34081
	P-CS-09	03/20/09 12:35 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/23/09 10:22 AM	34081
0903166-15B	P-CS-09	03/20/09 12:35 PM	Aqueous	E300	Anion Preparation	03/21/09 09:52 AM	34068

CLIENT: TRC Environmental Corp.
Project: RRC Petronila PZ/SW
Lab Order: 0903166

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
	P-CS-09	03/20/09 12:35 PM	Aqueous	E300	Anion Preparation	03/21/09 09:52 AM	34068
	P-CS-09	03/20/09 12:35 PM	Aqueous	E300	Anion Preparation	03/21/09 09:52 AM	34068
	P-CS-09	03/20/09 12:35 PM	Aqueous	M2320 B	Alkalinity Preparation	03/30/09 10:23 AM	34199
	P-CS-09	03/20/09 12:35 PM	Aqueous	M2540C	TDS Preparation	03/27/09 09:00 AM	34182
0903166-16A	P-CS-06	03/20/09 01:00 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/23/09 10:22 AM	34081
	P-CS-06	03/20/09 01:00 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/23/09 10:22 AM	34081
	P-CS-06	03/20/09 01:00 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/23/09 10:22 AM	34081
0903166-16B	P-CS-06	03/20/09 01:00 PM	Aqueous	E300	Anion Preparation	03/21/09 09:52 AM	34068
	P-CS-06	03/20/09 01:00 PM	Aqueous	E300	Anion Preparation	03/21/09 09:52 AM	34068
	P-CS-06	03/20/09 01:00 PM	Aqueous	E300	Anion Preparation	03/21/09 09:52 AM	34068
	P-CS-06	03/20/09 01:00 PM	Aqueous	M2320 B	Alkalinity Preparation	03/30/09 10:23 AM	34199
	P-CS-06	03/20/09 01:00 PM	Aqueous	M2540C	TDS Preparation	03/27/09 09:00 AM	34182
0903166-17A	P-CS-02	03/20/09 01:20 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/23/09 10:22 AM	34081
	P-CS-02	03/20/09 01:20 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/23/09 10:22 AM	34081
	P-CS-02	03/20/09 01:20 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/23/09 10:22 AM	34081
0903166-17B	P-CS-02	03/20/09 01:20 PM	Aqueous	E300	Anion Preparation	03/21/09 09:52 AM	34068
	P-CS-02	03/20/09 01:20 PM	Aqueous	E300	Anion Preparation	03/21/09 09:52 AM	34068
	P-CS-02	03/20/09 01:20 PM	Aqueous	E300	Anion Preparation	03/21/09 09:52 AM	34068
	P-CS-02	03/20/09 01:20 PM	Aqueous	E300	Anion Preparation	03/21/09 09:52 AM	34068
	P-CS-02	03/20/09 01:20 PM	Aqueous	M2320 B	Alkalinity Preparation	03/30/09 10:23 AM	34199
	P-CS-02	03/20/09 01:20 PM	Aqueous	M2540C	TDS Preparation	03/27/09 09:00 AM	34182
0903166-18A	P-CS-04	03/20/09 02:00 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/23/09 10:22 AM	34081
	P-CS-04	03/20/09 02:00 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/23/09 10:22 AM	34081
	P-CS-04	03/20/09 02:00 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/23/09 10:22 AM	34081
0903166-18B	P-CS-04	03/20/09 02:00 PM	Aqueous	E300	Anion Preparation	03/21/09 09:52 AM	34068
	P-CS-04	03/20/09 02:00 PM	Aqueous	E300	Anion Preparation	03/21/09 09:52 AM	34068
	P-CS-04	03/20/09 02:00 PM	Aqueous	E300	Anion Preparation	03/21/09 09:52 AM	34068
	P-CS-04	03/20/09 02:00 PM	Aqueous	M2320 B	Alkalinity Preparation	03/30/09 10:23 AM	34199
	P-CS-04	03/20/09 02:00 PM	Aqueous	M2540C	TDS Preparation	03/27/09 09:00 AM	34182

CLIENT: TRC Environmental Corp.
Project: RRC Petronila PZ/SW
Lab Order: 0903166

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
0903166-19A	P-PZ-13	03/20/09 02:15 PM	Aqueous	E300	Anion Preparation	03/27/09 04:50 PM	34187
	P-PZ-13	03/20/09 02:15 PM	Aqueous	E300	Anion Preparation	03/30/09 08:55 AM	34210
	P-PZ-13	03/20/09 02:15 PM	Aqueous	E300	Anion Preparation	03/30/09 08:55 AM	34210
	P-PZ-13	03/20/09 02:15 PM	Aqueous	E300	Anion Preparation	03/30/09 08:55 AM	34210
	P-PZ-13	03/20/09 02:15 PM	Aqueous	M2320 B	Alkalinity Preparation	03/30/09 10:23 AM	34199
	P-PZ-13	03/20/09 02:15 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/30/09 10:56 AM	34201
	P-PZ-13	03/20/09 02:15 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/30/09 10:56 AM	34201
	P-PZ-13	03/20/09 02:15 PM	Aqueous	M4500-H+ B	pH Preparation	04/06/09 11:09 AM	34329
	P-PZ-13	03/20/09 02:15 PM	Aqueous	M2510 B	Conductivity Preparation	04/06/09 11:20 AM	34343
	P-PZ-13	03/20/09 02:15 PM	Aqueous	M2540C	TDS Preparation	03/27/09 09:00 AM	34182
0903166-20A	P-CS-21	03/20/09 04:20 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/23/09 10:22 AM	34081
	P-CS-21	03/20/09 04:20 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/23/09 10:22 AM	34081
	P-CS-21	03/20/09 04:20 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/23/09 10:22 AM	34081
0903166-20B	P-CS-21	03/20/09 04:20 PM	Aqueous	E300	Anion Preparation	03/21/09 09:52 AM	34068
	P-CS-21	03/20/09 04:20 PM	Aqueous	E300	Anion Preparation	03/21/09 09:52 AM	34068
	P-CS-21	03/20/09 04:20 PM	Aqueous	E300	Anion Preparation	03/21/09 09:52 AM	34068
	P-CS-21	03/20/09 04:20 PM	Aqueous	M2320 B	Alkalinity Preparation	03/30/09 10:23 AM	34199
	P-CS-21	03/20/09 04:20 PM	Aqueous	M2540C	TDS Preparation	03/27/09 09:00 AM	34182
0903166-21A	P-EB-W-3-20-09-02	03/20/09 04:30 PM	Equip Blank	SW3005A	Aq Prep Metals : ICP-MS	03/23/09 10:22 AM	34081
0903166-21B	P-EB-W-3-20-09-02	03/20/09 04:30 PM	Equip Blank	E300	Anion Preparation	03/21/09 09:52 AM	34068
	P-EB-W-3-20-09-02	03/20/09 04:30 PM	Equip Blank	E300	Anion Preparation	03/21/09 09:52 AM	34068
	P-EB-W-3-20-09-02	03/20/09 04:30 PM	Equip Blank	M2320 B	Alkalinity Preparation	03/30/09 10:23 AM	34199
	P-EB-W-3-20-09-02	03/20/09 04:30 PM	Equip Blank	M2540C	TDS Preparation	03/27/09 09:00 AM	34182
0903166-22A	P-EB-W-3-20-09-03	03/20/09 04:35 PM	Equip Blank	SW3005A	Aq Prep Metals : ICP-MS	03/23/09 10:22 AM	34081
0903166-22B	P-EB-W-3-20-09-03	03/20/09 04:35 PM	Equip Blank	E300	Anion Preparation	03/21/09 09:52 AM	34068
	P-EB-W-3-20-09-03	03/20/09 04:35 PM	Equip Blank	E300	Anion Preparation	03/21/09 09:52 AM	34068
	P-EB-W-3-20-09-03	03/20/09 04:35 PM	Equip Blank	M2320 B	Alkalinity Preparation	03/30/09 10:23 AM	34199
	P-EB-W-3-20-09-03	03/20/09 04:35 PM	Equip Blank	M2540C	TDS Preparation	03/27/09 09:00 AM	34182

CLIENT: TRC Environmental Corp.
Project: RRC Petronila PZ/SW
Lab Order: 0903166

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
0903166-01A	P-D-02	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34081	1	03/25/09 08:01 PM	ICP-MS2_090325B
	P-D-02	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34081	500	03/26/09 04:55 PM	ICP-MS3_090326A
	P-D-02	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34081	25	03/26/09 05:52 PM	ICP-MS3_090326A
0903166-01B	P-D-02	Aqueous	M2320 B	Alkalinity	34199	1	03/30/09 09:46 AM	TITRATOR_090330B
	P-D-02	Aqueous	E300	Anions by IC method - Water	34068	5	03/21/09 05:07 PM	IC_090321C
	P-D-02	Aqueous	E300	Anions by IC method - Water	34264	100	04/01/09 06:55 PM	IC2_090401B
	P-D-02	Aqueous	M2540C	Total Dissolved Solids	34182	1	03/27/09 09:30 AM	WC_090327A
0903166-02A	P-PZ-02	Aqueous	E300	Anions by IC method - Water	34210	1000	03/30/09 10:19 AM	IC2_090330A
	P-PZ-02	Aqueous	E300	Anions by IC method - Water	34210	100	03/30/09 10:33 AM	IC2_090330A
	P-PZ-02	Aqueous	M2540C	Total Dissolved Solids	34159	1	03/26/09 09:00 AM	WC_090326A
0903166-03A	P-PZ-03	Aqueous	E300	Anions by IC method - Water	34210	1000	03/30/09 10:48 AM	IC2_090330A
	P-PZ-03	Aqueous	E300	Anions by IC method - Water	34210	100	03/30/09 11:03 AM	IC2_090330A
	P-PZ-03	Aqueous	M2540C	Total Dissolved Solids	34159	1	03/26/09 09:00 AM	WC_090326A
0903166-04A	P-PZ-04	Aqueous	M2320 B	Alkalinity	34199	1	03/30/09 09:53 AM	TITRATOR_090330B
	P-PZ-04	Aqueous	E300	Anions by IC method - Water	34210	1000	03/30/09 11:46 AM	IC2_090330A
	P-PZ-04	Aqueous	E300	Anions by IC method - Water	34210	100	03/30/09 12:15 PM	IC2_090330A
	P-PZ-04	Aqueous	M2540C	Total Dissolved Solids	34159	1	03/26/09 09:00 AM	WC_090326A
	P-PZ-04	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34201	250	03/31/09 01:58 PM	ICP-MS3_090331A
	P-PZ-04	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34201	1	03/31/09 04:33 PM	ICP-MS3_090331A
0903166-05A	P-PZ-05	Aqueous	E300	Anions by IC method - Water	34210	1000	03/30/09 11:17 AM	IC2_090330A
	P-PZ-05	Aqueous	E300	Anions by IC method - Water	34210	100	03/30/09 11:31 AM	IC2_090330A
	P-PZ-05	Aqueous	M2540C	Total Dissolved Solids	34159	1	03/26/09 09:00 AM	WC_090326A
0903166-06A	P-PZ-14	Aqueous	E300	Anions by IC method - Water	34210	1000	03/30/09 12:30 PM	IC2_090330A
	P-PZ-14	Aqueous	E300	Anions by IC method - Water	34210	100	03/30/09 06:36 PM	IC2_090330A
	P-PZ-14	Aqueous	M2540C	Total Dissolved Solids	34159	1	03/26/09 09:00 AM	WC_090326A
0903166-07A	P-PZ-01	Aqueous	E300	Anions by IC method - Water	34210	1000	03/30/09 12:45 PM	IC2_090330A
	P-PZ-01	Aqueous	E300	Anions by IC method - Water	34210	100	03/30/09 06:50 PM	IC2_090330A
	P-PZ-01	Aqueous	M2540C	Total Dissolved Solids	34159	1	03/26/09 09:00 AM	WC_090326A
0903166-08A	P-PZ-10	Aqueous	E300	Anions by IC method - Water	34210	1000	03/30/09 12:59 PM	IC2_090330A

CLIENT: TRC Environmental Corp.
Project: RRC Petronila PZ/SW
Lab Order: 0903166

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
	P-PZ-10	Aqueous	E300	Anions by IC method - Water	34210	100	03/30/09 07:05 PM	IC2_090330A
	P-PZ-10	Aqueous	M2540C	Total Dissolved Solids	34182	1	03/27/09 09:30 AM	WC_090327A
	P-PZ-10	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34229	1	03/31/09 08:55 PM	ICP-MS3_090331A
	P-PZ-10	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34229	100	04/01/09 12:46 PM	ICP-MS3_090401A
	P-PZ-10	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34229	200	04/01/09 01:38 PM	ICP-MS3_090401A
0903166-09A	P-CS-13A	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34081	1	03/25/09 08:06 PM	ICP-MS2_090325B
	P-CS-13A	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34081	500	03/27/09 01:29 PM	ICP-MS2_090327B
	P-CS-13A	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34081	50	03/27/09 02:29 PM	ICP-MS2_090327B
0903166-09B	P-CS-13A	Aqueous	M2320 B	Alkalinity	34199	1	03/30/09 09:57 AM	TITRATOR_090330B
	P-CS-13A	Aqueous	E300	Anions by IC method - Water	34068	5	03/21/09 05:23 PM	IC_090321C
	P-CS-13A	Aqueous	E300	Anions by IC method - Water	34068	1000	03/30/09 01:14 PM	IC2_090330B
	P-CS-13A	Aqueous	E300	Anions by IC method - Water	34068	100	03/30/09 07:20 PM	IC2_090330B
	P-CS-13A	Aqueous	M2540C	Total Dissolved Solids	34182	1	03/27/09 09:30 AM	WC_090327A
0903166-10A	P-PZ-11	Aqueous	M2320 B	Alkalinity	34199	1	03/30/09 10:03 AM	TITRATOR_090330B
	P-PZ-11	Aqueous	E300	Anions by IC method - Water	34068	1000	03/30/09 01:29 PM	IC2_090330B
	P-PZ-11	Aqueous	E300	Anions by IC method - Water	34068	100	03/30/09 07:34 PM	IC2_090330B
	P-PZ-11	Aqueous	M2540C	Total Dissolved Solids	34182	1	03/27/09 09:30 AM	WC_090327A
	P-PZ-11	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34201	100	03/31/09 01:33 PM	ICP-MS3_090331A
	P-PZ-11	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34201	1	03/31/09 04:07 PM	ICP-MS3_090331A
0903166-11A	P-CS-14	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34081	1	03/25/09 08:12 PM	ICP-MS2_090325B
	P-CS-14	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34081	500	03/27/09 01:34 PM	ICP-MS2_090327B
	P-CS-14	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34081	50	03/27/09 02:34 PM	ICP-MS2_090327B
0903166-11B	P-CS-14	Aqueous	M2320 B	Alkalinity	34199	1	03/30/09 10:07 AM	TITRATOR_090330B
	P-CS-14	Aqueous	E300	Anions by IC method - Water	34068	5	03/21/09 05:39 PM	IC_090321C
	P-CS-14	Aqueous	E300	Anions by IC method - Water	34068	1000	03/30/09 01:43 PM	IC2_090330B
	P-CS-14	Aqueous	E300	Anions by IC method - Water	34068	100	03/30/09 07:49 PM	IC2_090330B
	P-CS-14	Aqueous	M2540C	Total Dissolved Solids	34182	1	03/27/09 09:30 AM	WC_090327A
0903166-12A	P-D-09	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34081	1	03/25/09 08:17 PM	ICP-MS2_090325B
	P-D-09	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34081	1000	03/27/09 01:39 PM	ICP-MS2_090327B

CLIENT: TRC Environmental Corp.
Project: RRC Petronila PZ/SW
Lab Order: 0903166

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
	P-D-09	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34081	50	03/27/09 02:39 PM	ICP-MS2_090327B
	P-D-09	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34081	5	03/27/09 04:33 PM	ICP-MS2_090327B
0903166-12B	P-D-09	Aqueous	M2320 B	Alkalinity	34199	1	03/30/09 10:12 AM	TITRATOR_090330B
	P-D-09	Aqueous	E300	Anions by IC method - Water	34068	5	03/21/09 05:54 PM	IC_090321C
	P-D-09	Aqueous	E300	Anions by IC method - Water	34068	1000	03/30/09 01:58 PM	IC2_090330B
	P-D-09	Aqueous	E300	Anions by IC method - Water	34068	100	03/30/09 08:04 PM	IC2_090330B
	P-D-09	Aqueous	M2540C	Total Dissolved Solids	34182	1	03/27/09 09:30 AM	WC_090327A
0903166-13A	P-CS-11	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34081	1	03/25/09 08:23 PM	ICP-MS2_090325B
	P-CS-11	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34081	500	03/27/09 01:45 PM	ICP-MS2_090327B
	P-CS-11	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34081	50	03/27/09 02:45 PM	ICP-MS2_090327B
0903166-13B	P-CS-11	Aqueous	M2320 B	Alkalinity	34199	1	03/30/09 10:16 AM	TITRATOR_090330B
	P-CS-11	Aqueous	E300	Anions by IC method - Water	34068	5	03/21/09 06:10 PM	IC_090321C
	P-CS-11	Aqueous	E300	Anions by IC method - Water	34068	1000	03/30/09 02:13 PM	IC2_090330B
	P-CS-11	Aqueous	E300	Anions by IC method - Water	34068	100	03/30/09 08:33 PM	IC2_090330B
	P-CS-11	Aqueous	M2540C	Total Dissolved Solids	34182	1	03/27/09 09:30 AM	WC_090327A
0903166-14A	P-CS-11-D	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34081	1	03/25/09 08:28 PM	ICP-MS2_090325B
	P-CS-11-D	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34081	500	03/27/09 01:50 PM	ICP-MS2_090327B
	P-CS-11-D	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34081	50	03/27/09 02:50 PM	ICP-MS2_090327B
0903166-14B	P-CS-11-D	Aqueous	M2320 B	Alkalinity	34199	1	03/30/09 10:26 AM	TITRATOR_090330B
	P-CS-11-D	Aqueous	E300	Anions by IC method - Water	34068	5	03/21/09 06:26 PM	IC_090321C
	P-CS-11-D	Aqueous	E300	Anions by IC method - Water	34068	1000	03/30/09 02:27 PM	IC2_090330B
	P-CS-11-D	Aqueous	E300	Anions by IC method - Water	34068	100	03/30/09 08:48 PM	IC2_090330B
	P-CS-11-D	Aqueous	M2540C	Total Dissolved Solids	34182	1	03/27/09 09:30 AM	WC_090327A
0903166-15A	P-CS-09	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34081	1	03/25/09 09:11 PM	ICP-MS2_090325B
	P-CS-09	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34081	500	03/27/09 01:56 PM	ICP-MS2_090327B
	P-CS-09	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34081	10	03/27/09 03:12 PM	ICP-MS2_090327B
	P-CS-09	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34081	500	03/26/09 02:12 PM	ICP-MS3_090326A
	P-CS-09	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34081	5	03/26/09 08:20 PM	ICP-MS3_090326A
0903166-15B	P-CS-09	Aqueous	M2320 B	Alkalinity	34199	1	03/30/09 10:29 AM	TITRATOR_090330B

CLIENT: TRC Environmental Corp.
Project: RRC Petronila PZ/SW
Lab Order: 0903166

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
	P-CS-09	Aqueous	E300	Anions by IC method - Water	34068	5	03/21/09 06:42 PM	IC_090321C
	P-CS-09	Aqueous	E300	Anions by IC method - Water	34068	1000	03/30/09 02:56 PM	IC2_090330B
	P-CS-09	Aqueous	E300	Anions by IC method - Water	34068	100	03/30/09 03:40 PM	IC2_090330B
	P-CS-09	Aqueous	M2540C	Total Dissolved Solids	34182	1	03/27/09 09:30 AM	WC_090327A
0903166-16A	P-CS-06	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34081	1	03/25/09 09:16 PM	ICP-MS2_090325B
	P-CS-06	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34081	500	03/27/09 02:01 PM	ICP-MS2_090327B
	P-CS-06	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34081	50	03/27/09 02:56 PM	ICP-MS2_090327B
0903166-16B	P-CS-06	Aqueous	M2320 B	Alkalinity	34199	1	03/30/09 10:38 AM	TITRATOR_090330B
	P-CS-06	Aqueous	E300	Anions by IC method - Water	34068	5	03/21/09 06:57 PM	IC_090321C
	P-CS-06	Aqueous	E300	Anions by IC method - Water	34068	1000	03/30/09 04:24 PM	IC2_090330B
	P-CS-06	Aqueous	E300	Anions by IC method - Water	34068	100	03/30/09 09:02 PM	IC2_090330B
	P-CS-06	Aqueous	M2540C	Total Dissolved Solids	34182	1	03/27/09 09:30 AM	WC_090327A
0903166-17A	P-CS-02	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34081	1	03/25/09 09:21 PM	ICP-MS2_090325B
	P-CS-02	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34081	50	03/27/09 01:23 PM	ICP-MS2_090327B
	P-CS-02	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34081	100	03/27/09 03:23 PM	ICP-MS2_090327B
0903166-17B	P-CS-02	Aqueous	M2320 B	Alkalinity	34199	1	03/30/09 10:47 AM	TITRATOR_090330B
	P-CS-02	Aqueous	E300	Anions by IC method - Water	34068	1	03/21/09 03:49 PM	IC_090321C
	P-CS-02	Aqueous	E300	Anions by IC method - Water	34068	1000	03/30/09 04:39 PM	IC2_090330B
	P-CS-02	Aqueous	E300	Anions by IC method - Water	34068	100	03/30/09 09:17 PM	IC2_090330B
	P-CS-02	Aqueous	E300	Anions by IC method - Water	34068	10	03/31/09 10:57 AM	IC2_090331A
	P-CS-02	Aqueous	M2540C	Total Dissolved Solids	34182	1	03/27/09 09:30 AM	WC_090327A
0903166-18A	P-CS-04	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34081	1	03/25/09 09:27 PM	ICP-MS2_090325B
	P-CS-04	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34081	500	03/27/09 02:07 PM	ICP-MS2_090327B
	P-CS-04	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34081	50	03/27/09 03:01 PM	ICP-MS2_090327B
0903166-18B	P-CS-04	Aqueous	M2320 B	Alkalinity	34199	1	03/30/09 10:54 AM	TITRATOR_090330B
	P-CS-04	Aqueous	E300	Anions by IC method - Water	34068	5	03/21/09 07:13 PM	IC_090321C
	P-CS-04	Aqueous	E300	Anions by IC method - Water	34068	1000	03/30/09 04:53 PM	IC2_090330B
	P-CS-04	Aqueous	E300	Anions by IC method - Water	34068	100	03/30/09 09:32 PM	IC2_090330B
	P-CS-04	Aqueous	M2540C	Total Dissolved Solids	34182	1	03/27/09 09:30 AM	WC_090327A

CLIENT: TRC Environmental Corp.
Project: RRC Petronila PZ/SW
Lab Order: 0903166

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
0903166-19A	P-PZ-13	Aqueous	M2320 B	Alkalinity	34199	1	03/30/09 10:58 AM	TITRATOR_090330B
	P-PZ-13	Aqueous	E300	Anions by IC method - Water	34187	10	03/27/09 09:12 PM	IC_090327C
	P-PZ-13	Aqueous	E300	Anions by IC method - Water	34210	1000	03/30/09 05:08 PM	IC2_090330A
	P-PZ-13	Aqueous	E300	Anions by IC method - Water	34210	100	03/30/09 09:46 PM	IC2_090330A
	P-PZ-13	Aqueous	E300	Anions by IC method - Water	34210	10	03/31/09 11:11 AM	IC2_090331A
	P-PZ-13	Aqueous	M4500-H+ B	pH	34329	1	04/06/09 10:42 AM	TITRATOR_090406A
	P-PZ-13	Aqueous	M2510 B	Specific Conductance	34343	5	04/06/09 11:20 AM	WC_090406A
	P-PZ-13	Aqueous	M2540C	Total Dissolved Solids	34182	1	03/27/09 09:30 AM	WC_090327A
	P-PZ-13	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34201	100	03/31/09 02:04 PM	ICP-MS3_090331A
	P-PZ-13	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34201	5	03/31/09 04:38 PM	ICP-MS3_090331A
0903166-20A	P-CS-21	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34081	1	03/25/09 09:32 PM	ICP-MS2_090325B
	P-CS-21	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34081	500	03/27/09 02:12 PM	ICP-MS2_090327B
	P-CS-21	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34081	50	03/27/09 03:06 PM	ICP-MS2_090327B
0903166-20B	P-CS-21	Aqueous	M2320 B	Alkalinity	34199	1	03/30/09 11:01 AM	TITRATOR_090330B
	P-CS-21	Aqueous	E300	Anions by IC method - Water	34068	5	03/21/09 07:29 PM	IC_090321C
	P-CS-21	Aqueous	E300	Anions by IC method - Water	34068	1000	03/30/09 05:37 PM	IC2_090330B
	P-CS-21	Aqueous	E300	Anions by IC method - Water	34068	100	03/30/09 10:01 PM	IC2_090330B
	P-CS-21	Aqueous	M2540C	Total Dissolved Solids	34182	1	03/27/09 09:30 AM	WC_090327A
0903166-21A	P-EB-W-3-20-09-02	Equip Blank	SW6020	Trace Metals: ICP-MS - Water	34081	1	03/26/09 04:45 PM	ICP-MS3_090326A
0903166-21B	P-EB-W-3-20-09-02	Equip Blank	M2320 B	Alkalinity	34199	1	03/30/09 11:03 AM	TITRATOR_090330B
	P-EB-W-3-20-09-02	Equip Blank	E300	Anions by IC method - Water	34068	1	03/21/09 02:15 PM	IC_090321C
	P-EB-W-3-20-09-02	Equip Blank	E300	Anions by IC method - Water	34068	1	03/30/09 06:06 PM	IC2_090330B
	P-EB-W-3-20-09-02	Equip Blank	M2540C	Total Dissolved Solids	34182	1	03/27/09 09:30 AM	WC_090327A
0903166-22A	P-EB-W-3-20-09-03	Equip Blank	SW6020	Trace Metals: ICP-MS - Water	34081	1	03/26/09 04:50 PM	ICP-MS3_090326A
0903166-22B	P-EB-W-3-20-09-03	Equip Blank	M2320 B	Alkalinity	34199	1	03/30/09 11:06 AM	TITRATOR_090330B
	P-EB-W-3-20-09-03	Equip Blank	E300	Anions by IC method - Water	34068	1	03/21/09 02:30 PM	IC_090321C
	P-EB-W-3-20-09-03	Equip Blank	E300	Anions by IC method - Water	34068	1	03/30/09 06:21 PM	IC2_090330B
	P-EB-W-3-20-09-03	Equip Blank	M2540C	Total Dissolved Solids	34182	1	03/27/09 09:30 AM	WC_090327A

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-D-02
Project:	RRC Petronila PZ/SW	Lab ID:	0903166-01
Project No:	14420-02	Collection Date:	03/20/09 01:45 PM
Lab Order:	0903166	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		**SW6020**					**Analyst: KW**
Barium	0.0400	0.00300	0.0100		mg/L	1	03/25/09 08:01 PM
Calcium	479	50.0	150		mg/L	500	03/26/09 04:55 PM
Iron	0.238	0.0500	0.150		mg/L	1	03/25/09 08:01 PM
Magnesium	70.6	2.50	7.50		mg/L	25	03/26/09 05:52 PM
Potassium	17.5	2.50	7.50		mg/L	25	03/26/09 05:52 PM
Sodium	3250	50.0	150		mg/L	500	03/26/09 04:55 PM
Anions by IC method - Water		**E300**					**Analyst: DEW**
Bromide	12.5	1.50	5.00		mg/L	5	03/21/09 05:07 PM
Chloride	3970	30.0	100		mg/L	100	04/01/09 06:55 PM
Nitrate-N	5.20	0.500	2.50		mg/L	5	03/21/09 05:07 PM
Sulfate	3310	100	300		mg/L	100	04/01/09 06:55 PM
Alkalinity		**M2320 B**					**Analyst: JBC**
Alkalinity, Bicarbonate (As CaCO3)	247	10.0	20.0		mg/L	1	03/30/09 09:46 AM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	03/30/09 09:46 AM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	03/30/09 09:46 AM
Alkalinity, Total (As CaCO3)	247	10.0	20.0		mg/L	1	03/30/09 09:46 AM
Total Dissolved Solids		**M2540C**					**Analyst: JBC**
Total Dissolved Solids (Residue, Filterable)	12100	10.0	10.0		mg/L	1	03/27/09 09:30 AM

Qualifiers:

	See Final Page of Report for MQLs and MDLs
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between SDL and RL
N	Parameter not NELAC certified
ND	Not Detected at the SDL
RL	Reporting Limit (MQL adjusted for moisture and sample size)
S	Spike Recovery outside control limits
SDL	Sample Detection Limit

DHL Analytical

Date: 04/09/09

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-PZ-02
Project:	RRC Petronila PZ/SW	Lab ID:	0903166-02
Project No:	14420-02	Collection Date:	03/19/09 11:55 AM
Lab Order:	0903166	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Anions by IC method - Water		**E300**					**Analyst: DEW**
Chloride	12700	300	1000		mg/L	1000	03/30/09 10:19 AM
Sulfate	2220	100	300		mg/L	100	03/30/09 10:33 AM
Total Dissolved Solids		**M2540C**					**Analyst: JBC**
Total Dissolved Solids (Residue, Filterable)	35000	10.0	10.0		mg/L	1	03/26/09 09:00 AM

Qualifiers:

	See Final Page of Report for MQLs and MDLs
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between SDL and RL
N	Parameter not NELAC certified
ND	Not Detected at the SDL
RL	Reporting Limit (MQL adjusted for moisture and sample size)
S	Spike Recovery outside control limits
SDL	Sample Detection Limit

DHL Analytical

Date: 04/09/09

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-PZ-03
Project:	RRC Petronila PZ/SW	Lab ID:	0903166-03
Project No:	14420-02	Collection Date:	03/19/09 12:50 PM
Lab Order:	0903166	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Anions by IC method - Water		**E300**					**Analyst: DEW**
Chloride	7140	300	1000		mg/L	1000	03/30/09 10:48 AM
Sulfate	1280	100	300		mg/L	100	03/30/09 11:03 AM
Total Dissolved Solids		**M2540C**					**Analyst: JBC**
Total Dissolved Solids (Residue, Filterable)	19200	10.0	10.0		mg/L	1	03/26/09 09:00 AM

Qualifiers:

	See Final Page of Report for MQLs and MDLs
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between SDL and RL
N	Parameter not NELAC certified
ND	Not Detected at the SDL
RL	Reporting Limit (MQL adjusted for moisture and sample size)
S	Spike Recovery outside control limits
SDL	Sample Detection Limit

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-PZ-04
Project:	RRC Petronila PZ/SW	Lab ID:	0903166-04
Project No:	14420-02	Collection Date:	03/19/09 01:50 PM
Lab Order:	0903166	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		**SW6020**					**Analyst: CZ**
Barium	0.136	0.0150	0.0500		mg/L	1	03/31/09 04:33 PM
Calcium	2440	125	375		mg/L	250	03/31/09 01:58 PM
Iron	ND	0.250	0.750		mg/L	1	03/31/09 04:33 PM
Magnesium	481	125	375		mg/L	250	03/31/09 01:58 PM
Potassium	23.1	0.500	1.50		mg/L	1	03/31/09 04:33 PM
Sodium	5720	125	375		mg/L	250	03/31/09 01:58 PM
Anions by IC method - Water		**E300**					**Analyst: DEW**
Chloride	12900	300	1000		mg/L	1000	03/30/09 11:46 AM
Sulfate	1460	100	300		mg/L	100	03/30/09 12:15 PM
Alkalinity		**M2320 B**					**Analyst: JBC**
Alkalinity, Bicarbonate (As CaCO3)	266	10.0	20.0		mg/L	1	03/30/09 09:53 AM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	03/30/09 09:53 AM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	03/30/09 09:53 AM
Alkalinity, Total (As CaCO3)	266	10.0	20.0		mg/L	1	03/30/09 09:53 AM
Total Dissolved Solids		**M2540C**					**Analyst: JBC**
Total Dissolved Solids (Residue, Filterable)	37300	10.0	10.0		mg/L	1	03/26/09 09:00 AM

Qualifiers:

	See Final Page of Report for MQLs and MDLs
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between SDL and RL
N	Parameter not NELAC certified
ND	Not Detected at the SDL
RL	Reporting Limit (MQL adjusted for moisture and sample size)
S	Spike Recovery outside control limits
SDL	Sample Detection Limit

DHL Analytical

Date: 04/09/09

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-PZ-05
Project:	RRC Petronila PZ/SW	Lab ID:	0903166-05
Project No:	14420-02	Collection Date:	03/19/09 03:00 PM
Lab Order:	0903166	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Anions by IC method - Water		**E300**					**Analyst: DEW**
Chloride	9830	300	1000		mg/L	1000	03/30/09 11:17 AM
Sulfate	682	100	300		mg/L	100	03/30/09 11:31 AM
Total Dissolved Solids		**M2540C**					**Analyst: JBC**
Total Dissolved Solids (Residue, Filterable)	37900	10.0	10.0		mg/L	1	03/26/09 09:00 AM

Qualifiers:

	See Final Page of Report for MQLs and MDLs
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between SDL and RL
N	Parameter not NELAC certified
ND	Not Detected at the SDL
RL	Reporting Limit (MQL adjusted for moisture and sample size)
S	Spike Recovery outside control limits
SDL	Sample Detection Limit

DHL Analytical

Date: 04/09/09

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-PZ-14
Project:	RRC Petronila PZ/SW	Lab ID:	0903166-06
Project No:	14420-02	Collection Date:	03/19/09 01:25 PM
Lab Order:	0903166	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Anions by IC method - Water		**E300**					**Analyst: DEW**
Chloride	12500	300	1000		mg/L	1000	03/30/09 12:30 PM
Sulfate	1570	100	300		mg/L	100	03/30/09 06:36 PM
Total Dissolved Solids		**M2540C**					**Analyst: JBC**
Total Dissolved Solids (Residue, Filterable)	35000	10.0	10.0		mg/L	1	03/26/09 09:00 AM

Qualifiers:

	See Final Page of Report for MQLs and MDLs
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between SDL and RL
N	Parameter not NELAC certified
ND	Not Detected at the SDL
RL	Reporting Limit (MQL adjusted for moisture and sample size)
S	Spike Recovery outside control limits
SDL	Sample Detection Limit

DHL Analytical

Date: 04/09/09

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-PZ-01
Project:	RRC Petronila PZ/SW	Lab ID:	0903166-07
Project No:	14420-02	Collection Date:	03/19/09 10:30 AM
Lab Order:	0903166	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Anions by IC method - Water		**E300**					**Analyst: DEW**
Chloride	4830	300	1000		mg/L	1000	03/30/09 12:45 PM
Sulfate	407	100	300		mg/L	100	03/30/09 06:50 PM
Total Dissolved Solids		**M2540C**					**Analyst: JBC**
Total Dissolved Solids (Residue, Filterable)	17900	10.0	10.0		mg/L	1	03/26/09 09:00 AM

Qualifiers:

	See Final Page of Report for MQLs and MDLs
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between SDL and RL
N	Parameter not NELAC certified
ND	Not Detected at the SDL
RL	Reporting Limit (MQL adjusted for moisture and sample size)
S	Spike Recovery outside control limits
SDL	Sample Detection Limit

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-PZ-10
Project:	RRC Petronila PZ/SW	Lab ID:	0903166-08
Project No:	14420-02	Collection Date:	03/20/09 09:40 AM
Lab Order:	0903166	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		**SW6020**					**Analyst: CZ**
Barium	0.0735	0.0150	0.0500		mg/L	1	03/31/09 08:55 PM
Calcium	902	50.0	150		mg/L	100	04/01/09 12:46 PM
Iron	ND	0.250	0.750		mg/L	1	03/31/09 08:55 PM
Magnesium	240	50.0	150		mg/L	100	04/01/09 12:46 PM
Potassium	17.6	0.500	1.50		mg/L	1	03/31/09 08:55 PM
Sodium	5130	100	300		mg/L	200	04/01/09 01:38 PM
Anions by IC method - Water		**E300**					**Analyst: DEW**
Chloride	7740	300	1000		mg/L	1000	03/30/09 12:59 PM
Sulfate	2410	100	300		mg/L	100	03/30/09 07:05 PM
Total Dissolved Solids		**M2540C**					**Analyst: JBC**
Total Dissolved Solids (Residue, Filterable)	17900	10.0	10.0		mg/L	1	03/27/09 09:30 AM

Qualifiers:

	See Final Page of Report for MQLs and MDLs	J	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-CS-13A
Project:	RRC Petronila PZ/SW	Lab ID:	0903166-09
Project No:	14420-02	Collection Date:	03/20/09 09:45 AM
Lab Order:	0903166	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		**SW6020**					**Analyst: KW**
Barium	0.133	0.00300	0.0100		mg/L	1	03/25/09 08:06 PM
Calcium	1070	50.0	150		mg/L	500	03/27/09 01:29 PM
Iron	0.256	0.0500	0.150		mg/L	1	03/25/09 08:06 PM
Magnesium	227	5.00	15.0		mg/L	50	03/27/09 02:29 PM
Potassium	18.1	5.00	15.0		mg/L	50	03/27/09 02:29 PM
Sodium	3060	50.0	150		mg/L	500	03/27/09 01:29 PM
Anions by IC method - Water		**E300**					**Analyst: DEW**
Bromide	18.3	1.50	5.00		mg/L	5	03/21/09 05:23 PM
Chloride	6530	300	1000		mg/L	1000	03/30/09 01:14 PM
Nitrate-N	ND	0.500	2.50		mg/L	5	03/21/09 05:23 PM
Sulfate	1260	100	300		mg/L	100	03/30/09 07:20 PM
Alkalinity		**M2320 B**					**Analyst: JBC**
Alkalinity, Bicarbonate (As CaCO3)	172	10.0	20.0		mg/L	1	03/30/09 09:57 AM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	03/30/09 09:57 AM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	03/30/09 09:57 AM
Alkalinity, Total (As CaCO3)	172	10.0	20.0		mg/L	1	03/30/09 09:57 AM
Total Dissolved Solids		**M2540C**					**Analyst: JBC**
Total Dissolved Solids (Residue, Filterable)	15000	10.0	10.0		mg/L	1	03/27/09 09:30 AM

Qualifiers:

	See Final Page of Report for MQLs and MDLs
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between SDL and RL
N	Parameter not NELAC certified
ND	Not Detected at the SDL
RL	Reporting Limit (MQL adjusted for moisture and sample size)
S	Spike Recovery outside control limits
SDL	Sample Detection Limit

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-PZ-11
Project:	RRC Petronila PZ/SW	Lab ID:	0903166-10
Project No:	14420-02	Collection Date:	03/20/09 10:20 AM
Lab Order:	0903166	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		**SW6020**					**Analyst: CZ**
Barium	0.0399	0.0150	0.0500	J	mg/L	1	03/31/09 04:07 PM
Calcium	1230	50.0	150		mg/L	100	03/31/09 01:33 PM
Iron	ND	0.250	0.750		mg/L	1	03/31/09 04:07 PM
Magnesium	152	50.0	150		mg/L	100	03/31/09 01:33 PM
Potassium	6.68	0.500	1.50		mg/L	1	03/31/09 04:07 PM
Sodium	3180	50.0	150		mg/L	100	03/31/09 01:33 PM
Anions by IC method - Water		**E300**					**Analyst: DEW**
Chloride	5580	300	1000		mg/L	1000	03/30/09 01:29 PM
Sulfate	2110	100	300		mg/L	100	03/30/09 07:34 PM
Alkalinity		**M2320 B**					**Analyst: JBC**
Alkalinity, Bicarbonate (As CaCO3)	268	10.0	20.0		mg/L	1	03/30/09 10:03 AM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	03/30/09 10:03 AM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	03/30/09 10:03 AM
Alkalinity, Total (As CaCO3)	268	10.0	20.0		mg/L	1	03/30/09 10:03 AM
Total Dissolved Solids		**M2540C**					**Analyst: JBC**
Total Dissolved Solids (Residue, Filterable)	13600	10.0	10.0		mg/L	1	03/27/09 09:30 AM

Qualifiers:

	See Final Page of Report for MQLs and MDLs
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between SDL and RL
N	Parameter not NELAC certified
ND	Not Detected at the SDL
RL	Reporting Limit (MQL adjusted for moisture and sample size)
S	Spike Recovery outside control limits
SDL	Sample Detection Limit

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-CS-14
Project:	RRC Petronila PZ/SW	Lab ID:	0903166-11
Project No:	14420-02	Collection Date:	03/20/09 10:25 AM
Lab Order:	0903166	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		**SW6020**					**Analyst: KW**
Barium	0.124	0.00300	0.0100		mg/L	1	03/25/09 08:12 PM
Calcium	1100	50.0	150		mg/L	500	03/27/09 01:34 PM
Iron	0.200	0.0500	0.150		mg/L	1	03/25/09 08:12 PM
Magnesium	242	5.00	15.0		mg/L	50	03/27/09 02:34 PM
Potassium	18.3	5.00	15.0		mg/L	50	03/27/09 02:34 PM
Sodium	3340	50.0	150		mg/L	500	03/27/09 01:34 PM
Anions by IC method - Water		**E300**					**Analyst: DEW**
Bromide	19.0	1.50	5.00		mg/L	5	03/21/09 05:39 PM
Chloride	6570	300	1000		mg/L	1000	03/30/09 01:43 PM
Nitrate-N	ND	0.500	2.50		mg/L	5	03/21/09 05:39 PM
Sulfate	1300	100	300		mg/L	100	03/30/09 07:49 PM
Alkalinity		**M2320 B**					**Analyst: JBC**
Alkalinity, Bicarbonate (As CaCO3)	110	10.0	20.0		mg/L	1	03/30/09 10:07 AM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	03/30/09 10:07 AM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	03/30/09 10:07 AM
Alkalinity, Total (As CaCO3)	110	10.0	20.0		mg/L	1	03/30/09 10:07 AM
Total Dissolved Solids		**M2540C**					**Analyst: JBC**
Total Dissolved Solids (Residue, Filterable)	14900	10.0	10.0		mg/L	1	03/27/09 09:30 AM

Qualifiers:

	See Final Page of Report for MQLs and MDLs
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between SDL and RL
N	Parameter not NELAC certified
ND	Not Detected at the SDL
RL	Reporting Limit (MQL adjusted for moisture and sample size)
S	Spike Recovery outside control limits
SDL	Sample Detection Limit

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-D-09
Project:	RRC Petronila PZ/SW	Lab ID:	0903166-12
Project No:	14420-02	Collection Date:	03/20/09 11:00 AM
Lab Order:	0903166	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		**SW6020**					**Analyst: KW**
Barium	0.0487	0.00300	0.0100		mg/L	1	03/25/09 08:17 PM
Calcium	967	100	300		mg/L	1000	03/27/09 01:39 PM
Iron	0.222	0.0500	0.150		mg/L	1	03/25/09 08:17 PM
Magnesium	276	5.00	15.0		mg/L	50	03/27/09 02:39 PM
Potassium	15.1	0.500	1.50		mg/L	5	03/27/09 04:33 PM
Sodium	5120	100	300		mg/L	1000	03/27/09 01:39 PM
Anions by IC method - Water		**E300**					**Analyst: DEW**
Bromide	21.7	1.50	5.00		mg/L	5	03/21/09 05:54 PM
Chloride	7990	300	1000		mg/L	1000	03/30/09 01:58 PM
Nitrate-N	10.1	0.500	2.50		mg/L	5	03/21/09 05:54 PM
Sulfate	3210	100	300		mg/L	100	03/30/09 08:04 PM
Alkalinity		**M2320 B**					**Analyst: JBC**
Alkalinity, Bicarbonate (As CaCO3)	214	10.0	20.0		mg/L	1	03/30/09 10:12 AM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	03/30/09 10:12 AM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	03/30/09 10:12 AM
Alkalinity, Total (As CaCO3)	214	10.0	20.0		mg/L	1	03/30/09 10:12 AM
Total Dissolved Solids		**M2540C**					**Analyst: JBC**
Total Dissolved Solids (Residue, Filterable)	19500	10.0	10.0		mg/L	1	03/27/09 09:30 AM

Qualifiers:

	See Final Page of Report for MQLs and MDLs
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between SDL and RL
N	Parameter not NELAC certified
ND	Not Detected at the SDL
RL	Reporting Limit (MQL adjusted for moisture and sample size)
S	Spike Recovery outside control limits
SDL	Sample Detection Limit

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-CS-11
Project:	RRC Petronila PZ/SW	Lab ID:	0903166-13
Project No:	14420-02	Collection Date:	03/20/09 11:55 AM
Lab Order:	0903166	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		**SW6020**					**Analyst: KW**
Barium	0.146	0.00300	0.0100		mg/L	1	03/25/09 08:23 PM
Calcium	1120	50.0	150		mg/L	500	03/27/09 01:45 PM
Iron	0.192	0.0500	0.150		mg/L	1	03/25/09 08:23 PM
Magnesium	237	5.00	15.0		mg/L	50	03/27/09 02:45 PM
Potassium	20.4	5.00	15.0		mg/L	50	03/27/09 02:45 PM
Sodium	3270	50.0	150		mg/L	500	03/27/09 01:45 PM
Anions by IC method - Water		**E300**					**Analyst: DEW**
Bromide	19.3	1.50	5.00		mg/L	5	03/21/09 06:10 PM
Chloride	6620	300	1000		mg/L	1000	03/30/09 02:13 PM
Nitrate-N	0.973	0.500	2.50	J	mg/L	5	03/21/09 06:10 PM
Sulfate	1290	100	300		mg/L	100	03/30/09 08:33 PM
Alkalinity		**M2320 B**					**Analyst: JBC**
Alkalinity, Bicarbonate (As CaCO3)	153	10.0	20.0		mg/L	1	03/30/09 10:16 AM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	03/30/09 10:16 AM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	03/30/09 10:16 AM
Alkalinity, Total (As CaCO3)	153	10.0	20.0		mg/L	1	03/30/09 10:16 AM
Total Dissolved Solids		**M2540C**					**Analyst: JBC**
Total Dissolved Solids (Residue, Filterable)	14400	10.0	10.0		mg/L	1	03/27/09 09:30 AM

Qualifiers:

	See Final Page of Report for MQLs and MDLs
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between SDL and RL
N	Parameter not NELAC certified
ND	Not Detected at the SDL
RL	Reporting Limit (MQL adjusted for moisture and sample size)
S	Spike Recovery outside control limits
SDL	Sample Detection Limit

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-CS-11-D
Project:	RRC Petronila PZ/SW	Lab ID:	0903166-14
Project No:	14420-02	Collection Date:	03/20/09 11:55 AM
Lab Order:	0903166	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		**SW6020**					**Analyst: KW**
Barium	0.141	0.00300	0.0100		mg/L	1	03/25/09 08:28 PM
Calcium	1090	50.0	150		mg/L	500	03/27/09 01:50 PM
Iron	0.197	0.0500	0.150		mg/L	1	03/25/09 08:28 PM
Magnesium	231	5.00	15.0		mg/L	50	03/27/09 02:50 PM
Potassium	19.8	5.00	15.0		mg/L	50	03/27/09 02:50 PM
Sodium	3240	50.0	150		mg/L	500	03/27/09 01:50 PM
Anions by IC method - Water		**E300**					**Analyst: DEW**
Bromide	19.0	1.50	5.00		mg/L	5	03/21/09 06:26 PM
Chloride	6530	300	1000		mg/L	1000	03/30/09 02:27 PM
Nitrate-N	1.03	0.500	2.50	J	mg/L	5	03/21/09 06:26 PM
Sulfate	1280	100	300		mg/L	100	03/30/09 08:48 PM
Alkalinity		**M2320 B**					**Analyst: JBC**
Alkalinity, Bicarbonate (As CaCO3)	152	10.0	20.0		mg/L	1	03/30/09 10:26 AM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	03/30/09 10:26 AM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	03/30/09 10:26 AM
Alkalinity, Total (As CaCO3)	152	10.0	20.0		mg/L	1	03/30/09 10:26 AM
Total Dissolved Solids		**M2540C**					**Analyst: JBC**
Total Dissolved Solids (Residue, Filterable)	14600	10.0	10.0		mg/L	1	03/27/09 09:30 AM

Qualifiers:

	See Final Page of Report for MQLs and MDLs
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between SDL and RL
N	Parameter not NELAC certified
ND	Not Detected at the SDL
RL	Reporting Limit (MQL adjusted for moisture and sample size)
S	Spike Recovery outside control limits
SDL	Sample Detection Limit

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-CS-09
Project:	RRC Petronila PZ/SW	Lab ID:	0903166-15
Project No:	14420-02	Collection Date:	03/20/09 12:35 PM
Lab Order:	0903166	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		**SW6020**					**Analyst: KW**
Barium	0.162	0.00300	0.0100		mg/L	1	03/25/09 09:11 PM
Calcium	948	50.0	150		mg/L	500	03/26/09 02:12 PM
Iron	0.330	0.0500	0.150		mg/L	1	03/25/09 09:11 PM
Magnesium	223	50.0	150		mg/L	500	03/26/09 02:12 PM
Potassium	24.1	0.500	1.50		mg/L	5	03/26/09 08:20 PM
Sodium	3290	50.0	150		mg/L	500	03/26/09 02:12 PM
Anions by IC method - Water		**E300**					**Analyst: DEW**
Bromide	20.0	1.50	5.00		mg/L	5	03/21/09 06:42 PM
Chloride	6650	300	1000		mg/L	1000	03/30/09 02:56 PM
Nitrate-N	ND	0.500	2.50		mg/L	5	03/21/09 06:42 PM
Sulfate	1280	100	300		mg/L	100	03/30/09 03:40 PM
Alkalinity		**M2320 B**					**Analyst: JBC**
Alkalinity, Bicarbonate (As CaCO3)	89.0	10.0	20.0		mg/L	1	03/30/09 10:29 AM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	03/30/09 10:29 AM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	03/30/09 10:29 AM
Alkalinity, Total (As CaCO3)	89.0	10.0	20.0		mg/L	1	03/30/09 10:29 AM
Total Dissolved Solids		**M2540C**					**Analyst: JBC**
Total Dissolved Solids (Residue, Filterable)	14500	10.0	10.0		mg/L	1	03/27/09 09:30 AM

Qualifiers:

	See Final Page of Report for MQLs and MDLs
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between SDL and RL
N	Parameter not NELAC certified
ND	Not Detected at the SDL
RL	Reporting Limit (MQL adjusted for moisture and sample size)
S	Spike Recovery outside control limits
SDL	Sample Detection Limit

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-CS-06
Project:	RRC Petronila PZ/SW	Lab ID:	0903166-16
Project No:	14420-02	Collection Date:	03/20/09 01:00 PM
Lab Order:	0903166	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		**SW6020**					**Analyst: KW**
Barium	0.126	0.00300	0.0100		mg/L	1	03/25/09 09:16 PM
Calcium	807	50.0	150		mg/L	500	03/27/09 02:01 PM
Iron	0.383	0.0500	0.150		mg/L	1	03/25/09 09:16 PM
Magnesium	190	5.00	15.0		mg/L	50	03/27/09 02:56 PM
Potassium	19.0	5.00	15.0		mg/L	50	03/27/09 02:56 PM
Sodium	2810	50.0	150		mg/L	500	03/27/09 02:01 PM
Anions by IC method - Water		**E300**					**Analyst: DEW**
Bromide	15.7	1.50	5.00		mg/L	5	03/21/09 06:57 PM
Chloride	5450	300	1000		mg/L	1000	03/30/09 04:24 PM
Nitrate-N	ND	0.500	2.50		mg/L	5	03/21/09 06:57 PM
Sulfate	1170	100	300		mg/L	100	03/30/09 09:02 PM
Alkalinity		**M2320 B**					**Analyst: JBC**
Alkalinity, Bicarbonate (As CaCO3)	89.9	10.0	20.0		mg/L	1	03/30/09 10:38 AM
Alkalinity, Carbonate (As CaCO3)	22.2	10.0	20.0		mg/L	1	03/30/09 10:38 AM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	03/30/09 10:38 AM
Alkalinity, Total (As CaCO3)	112	10.0	20.0		mg/L	1	03/30/09 10:38 AM
Total Dissolved Solids		**M2540C**					**Analyst: JBC**
Total Dissolved Solids (Residue, Filterable)	11700	10.0	10.0		mg/L	1	03/27/09 09:30 AM

Qualifiers:

	See Final Page of Report for MQLs and MDLs
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between SDL and RL
N	Parameter not NELAC certified
ND	Not Detected at the SDL
RL	Reporting Limit (MQL adjusted for moisture and sample size)
S	Spike Recovery outside control limits
SDL	Sample Detection Limit

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-CS-02
Project:	RRC Petronila PZ/SW	Lab ID:	0903166-17
Project No:	14420-02	Collection Date:	03/20/09 01:20 PM
Lab Order:	0903166	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		**SW6020**					**Analyst: KW**
Barium	0.0988	0.00300	0.0100		mg/L	1	03/25/09 09:21 PM
Calcium	104	5.00	15.0		mg/L	50	03/27/09 01:23 PM
Iron	0.188	0.0500	0.150		mg/L	1	03/25/09 09:21 PM
Magnesium	19.8	5.00	15.0		mg/L	50	03/27/09 01:23 PM
Potassium	5.83	0.100	0.300		mg/L	1	03/25/09 09:21 PM
Sodium	553	10.0	30.0		mg/L	100	03/27/09 03:23 PM
Anions by IC method - Water		**E300**					**Analyst: DEW**
Bromide	2.06	0.300	1.00		mg/L	1	03/21/09 03:49 PM
Chloride	561	30.0	100		mg/L	100	03/30/09 09:17 PM
Nitrate-N	6.28	0.100	0.500		mg/L	1	03/21/09 03:49 PM
Sulfate	262	10.0	30.0		mg/L	10	03/31/09 10:57 AM
Alkalinity		**M2320 B**					**Analyst: JBC**
Alkalinity, Bicarbonate (As CaCO3)	512	10.0	20.0		mg/L	1	03/30/09 10:47 AM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	03/30/09 10:47 AM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	03/30/09 10:47 AM
Alkalinity, Total (As CaCO3)	512	10.0	20.0		mg/L	1	03/30/09 10:47 AM
Total Dissolved Solids		**M2540C**					**Analyst: JBC**
Total Dissolved Solids (Residue, Filterable)	1880	10.0	10.0		mg/L	1	03/27/09 09:30 AM

Qualifiers:

	See Final Page of Report for MQLs and MDLs
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between SDL and RL
N	Parameter not NELAC certified
ND	Not Detected at the SDL
RL	Reporting Limit (MQL adjusted for moisture and sample size)
S	Spike Recovery outside control limits
SDL	Sample Detection Limit

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-CS-04
Project:	RRC Petronila PZ/SW	Lab ID:	0903166-18
Project No:	14420-02	Collection Date:	03/20/09 02:00 PM
Lab Order:	0903166	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		**SW6020**					**Analyst: KW**
Barium	0.125	0.00300	0.0100		mg/L	1	03/25/09 09:27 PM
Calcium	776	50.0	150		mg/L	500	03/27/09 02:07 PM
Iron	0.158	0.0500	0.150		mg/L	1	03/25/09 09:27 PM
Magnesium	181	5.00	15.0		mg/L	50	03/27/09 03:01 PM
Potassium	17.6	5.00	15.0		mg/L	50	03/27/09 03:01 PM
Sodium	2180	50.0	150		mg/L	500	03/27/09 02:07 PM
Anions by IC method - Water		**E300**					**Analyst: DEW**
Bromide	12.7	1.50	5.00		mg/L	5	03/21/09 07:13 PM
Chloride	4570	300	1000		mg/L	1000	03/30/09 04:53 PM
Nitrate-N	1.05	0.500	2.50	J	mg/L	5	03/21/09 07:13 PM
Sulfate	1080	100	300		mg/L	100	03/30/09 09:32 PM
Alkalinity		**M2320 B**					**Analyst: JBC**
Alkalinity, Bicarbonate (As CaCO3)	122	10.0	20.0		mg/L	1	03/30/09 10:54 AM
Alkalinity, Carbonate (As CaCO3)	39.2	10.0	20.0		mg/L	1	03/30/09 10:54 AM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	03/30/09 10:54 AM
Alkalinity, Total (As CaCO3)	161	10.0	20.0		mg/L	1	03/30/09 10:54 AM
Total Dissolved Solids		**M2540C**					**Analyst: JBC**
Total Dissolved Solids (Residue, Filterable)	10400	10.0	10.0		mg/L	1	03/27/09 09:30 AM

Qualifiers:

	See Final Page of Report for MQLs and MDLs	J	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-PZ-13
Project:	RRC Petronila PZ/SW	Lab ID:	0903166-19
Project No:	14420-02	Collection Date:	03/20/09 02:15 PM
Lab Order:	0903166	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		**SW6020**					**Analyst: CZ**
Barium	7.92	0.0750	0.250		mg/L	5	03/31/09 04:38 PM
Calcium	2660	50.0	150		mg/L	100	03/31/09 02:04 PM
Iron	38.6	1.25	3.75		mg/L	5	03/31/09 04:38 PM
Magnesium	340	50.0	150		mg/L	100	03/31/09 02:04 PM
Potassium	41.0	2.50	7.50		mg/L	5	03/31/09 04:38 PM
Sodium	3160	50.0	150		mg/L	100	03/31/09 02:04 PM
Anions by IC method - Water		**E300**					**Analyst: DEW**
Bromide	37.8	3.00	10.0		mg/L	10	03/27/09 09:12 PM
Chloride	10300	300	1000		mg/L	1000	03/30/09 05:08 PM
Nitrate-N	2.36	1.00	5.00	JC	mg/L	10	03/27/09 09:12 PM
Sulfate	122	10.0	30.0		mg/L	10	03/27/09 09:12 PM
Alkalinity		**M2320 B**					**Analyst: JBC**
Alkalinity, Bicarbonate (As CaCO3)	187	10.0	20.0		mg/L	1	03/30/09 10:58 AM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	03/30/09 10:58 AM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	03/30/09 10:58 AM
Alkalinity, Total (As CaCO3)	187	10.0	20.0		mg/L	1	03/30/09 10:58 AM
pH		**M4500-H+ B**					**Analyst: JBC**
pH	6.93	0	0		pH Units	1	04/06/09 10:42 AM
Specific Conductance		**M2510 B**					**Analyst: AAD**
Specific Conductance	34800	50.0	50.0		µmhos/cm	5	04/06/09 11:20 AM
Total Dissolved Solids		**M2540C**					**Analyst: JBC**
Total Dissolved Solids (Residue, Filterable)	21500	10.0	10.0		mg/L	1	03/27/09 09:30 AM

Qualifiers:

	See Final Page of Report for MQLs and MDLs
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between SDL and RL
N	Parameter not NELAC certified
ND	Not Detected at the SDL
RL	Reporting Limit (MQL adjusted for moisture and sample size)
S	Spike Recovery outside control limits
SDL	Sample Detection Limit

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-CS-21
Project:	RRC Petronila PZ/SW	Lab ID:	0903166-20
Project No:	14420-02	Collection Date:	03/20/09 04:20 PM
Lab Order:	0903166	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		**SW6020**					**Analyst: KW**
Barium	0.114	0.00300	0.0100		mg/L	1	03/25/09 09:32 PM
Calcium	1220	50.0	150		mg/L	500	03/27/09 02:12 PM
Iron	0.314	0.0500	0.150		mg/L	1	03/25/09 09:32 PM
Magnesium	263	5.00	15.0		mg/L	50	03/27/09 03:06 PM
Potassium	18.2	5.00	15.0		mg/L	50	03/27/09 03:06 PM
Sodium	3470	50.0	150		mg/L	500	03/27/09 02:12 PM
Anions by IC method - Water		**E300**					**Analyst: DEW**
Bromide	21.6	1.50	5.00		mg/L	5	03/21/09 07:29 PM
Chloride	7460	300	1000		mg/L	1000	03/30/09 05:37 PM
Nitrate-N	ND	0.500	2.50		mg/L	5	03/21/09 07:29 PM
Sulfate	1370	100	300		mg/L	100	03/30/09 10:01 PM
Alkalinity		**M2320 B**					**Analyst: JBC**
Alkalinity, Bicarbonate (As CaCO3)	82.3	10.0	20.0		mg/L	1	03/30/09 11:01 AM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	03/30/09 11:01 AM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	03/30/09 11:01 AM
Alkalinity, Total (As CaCO3)	82.3	10.0	20.0		mg/L	1	03/30/09 11:01 AM
Total Dissolved Solids		**M2540C**					**Analyst: JBC**
Total Dissolved Solids (Residue, Filterable)	16600	10.0	10.0		mg/L	1	03/27/09 09:30 AM

Qualifiers:

	See Final Page of Report for MQLs and MDLs
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between SDL and RL
N	Parameter not NELAC certified
ND	Not Detected at the SDL
RL	Reporting Limit (MQL adjusted for moisture and sample size)
S	Spike Recovery outside control limits
SDL	Sample Detection Limit

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-EB-W-3-20-09-02
Project:	RRC Petronila PZ/SW	Lab ID:	0903166-21
Project No:	14420-02	Collection Date:	03/20/09 04:30 PM
Lab Order:	0903166	Matrix:	Equip Blank

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		**SW6020**					**Analyst: CZ**
Barium	ND	0.00300	0.0100		mg/L	1	03/26/09 04:45 PM
Calcium	ND	0.100	0.300		mg/L	1	03/26/09 04:45 PM
Iron	ND	0.0500	0.150		mg/L	1	03/26/09 04:45 PM
Magnesium	ND	0.100	0.300		mg/L	1	03/26/09 04:45 PM
Potassium	ND	0.100	0.300		mg/L	1	03/26/09 04:45 PM
Sodium	ND	0.100	0.300		mg/L	1	03/26/09 04:45 PM
Anions by IC method - Water		**E300**					**Analyst: DEW**
Bromide	ND	0.300	1.00		mg/L	1	03/21/09 02:15 PM
Chloride	ND	0.300	1.00		mg/L	1	03/30/09 06:06 PM
Nitrate-N	ND	0.100	0.500		mg/L	1	03/21/09 02:15 PM
Sulfate	ND	1.00	3.00		mg/L	1	03/30/09 06:06 PM
Alkalinity		**M2320 B**					**Analyst: JBC**
Alkalinity, Bicarbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	03/30/09 11:03 AM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	03/30/09 11:03 AM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	03/30/09 11:03 AM
Alkalinity, Total (As CaCO3)	ND	10.0	20.0		mg/L	1	03/30/09 11:03 AM
Total Dissolved Solids		**M2540C**					**Analyst: JBC**
Total Dissolved Solids (Residue, Filterable)	ND	10.0	10.0		mg/L	1	03/27/09 09:30 AM

Qualifiers:

	See Final Page of Report for MQLs and MDLs
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between SDL and RL
N	Parameter not NELAC certified
ND	Not Detected at the SDL
RL	Reporting Limit (MQL adjusted for moisture and sample size)
S	Spike Recovery outside control limits
SDL	Sample Detection Limit

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-EB-W-3-20-09-03
Project:	RRC Petronila PZ/SW	Lab ID:	0903166-22
Project No:	14420-02	Collection Date:	03/20/09 04:35 PM
Lab Order:	0903166	Matrix:	Equip Blank

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		**SW6020**					**Analyst: CZ**
Barium	ND	0.00300	0.0100		mg/L	1	03/26/09 04:50 PM
Calcium	ND	0.100	0.300		mg/L	1	03/26/09 04:50 PM
Iron	ND	0.0500	0.150		mg/L	1	03/26/09 04:50 PM
Magnesium	ND	0.100	0.300		mg/L	1	03/26/09 04:50 PM
Potassium	ND	0.100	0.300		mg/L	1	03/26/09 04:50 PM
Sodium	ND	0.100	0.300		mg/L	1	03/26/09 04:50 PM
Anions by IC method - Water		**E300**					**Analyst: DEW**
Bromide	ND	0.300	1.00		mg/L	1	03/21/09 02:30 PM
Chloride	ND	0.300	1.00		mg/L	1	03/30/09 06:21 PM
Nitrate-N	ND	0.100	0.500		mg/L	1	03/21/09 02:30 PM
Sulfate	ND	1.00	3.00		mg/L	1	03/30/09 06:21 PM
Alkalinity		**M2320 B**					**Analyst: JBC**
Alkalinity, Bicarbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	03/30/09 11:06 AM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	03/30/09 11:06 AM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	03/30/09 11:06 AM
Alkalinity, Total (As CaCO3)	ND	10.0	20.0		mg/L	1	03/30/09 11:06 AM
Total Dissolved Solids		**M2540C**					**Analyst: JBC**
Total Dissolved Solids (Residue, Filterable)	ND	10.0	10.0		mg/L	1	03/27/09 09:30 AM

Qualifiers:

	See Final Page of Report for MQLs and MDLs
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between SDL and RL
N	Parameter not NELAC certified
ND	Not Detected at the SDL
RL	Reporting Limit (MQL adjusted for moisture and sample size)
S	Spike Recovery outside control limits
SDL	Sample Detection Limit

CLIENT: TRC Environmental Corp.
Work Order: 0903166
Project: RRC Petronila PZ/SW

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_090325B

Sample ID:	ICV1-090325	Batch ID:	R42533	TestNo:	SW6020	Units:	mg/L
SampType:	ICV	Run ID:	ICP-MS2_090325B	Analysis Date:	03/25/09 12:17 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.0978	0.0100	0.100	0	97.8	90	110			
Iron	2.61	0.150	2.50	0	104	90	110			
Potassium	2.47	0.300	2.50	0	98.8	90	110			

Sample ID:	CCV7-090325	Batch ID:	R42533	TestNo:	SW6020	Units:	mg/L
SampType:	CCV	Run ID:	ICP-MS2_090325B	Analysis Date:	03/25/09 07:13 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.193	0.0100	0.200	0	96.4	90	110			
Iron	4.84	0.150	5.00	0	96.9	90	110			

Sample ID:	CCV8-090325	Batch ID:	R42533	TestNo:	SW6020	Units:	mg/L
SampType:	CCV	Run ID:	ICP-MS2_090325B	Analysis Date:	03/25/09 08:38 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.192	0.0100	0.200	0	96.2	90	110			
Iron	4.69	0.150	5.00	0	93.7	90	110			
Potassium	5.20	0.300	5.00	0	104	90	110			

Sample ID:	CCV9-090325	Batch ID:	R42533	TestNo:	SW6020	Units:	mg/L
SampType:	CCV	Run ID:	ICP-MS2_090325B	Analysis Date:	03/25/09 09:48 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.190	0.0100	0.200	0	95.0	90	110			
Iron	4.66	0.150	5.00	0	93.1	90	110			
Potassium	4.91	0.300	5.00	0	98.3	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903166
Project: RRC Petronila PZ/SW

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_090327B

Sample ID:	ICV1-090327	Batch ID:	R42579	TestNo:	SW6020	Units:	mg/L
SampType:	ICV	Run ID:	ICP-MS2_090327B	Analysis Date:	03/27/09 11:18 AM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	2.52	0.300	2.50	0	101	90	110			
Magnesium	2.49	0.300	2.50	0	99.5	90	110			
Potassium	2.54	0.300	2.50	0	102	90	110			
Sodium	2.36	0.300	2.50	0	94.6	90	110			

Sample ID:	CCV2-090327	Batch ID:	R42579	TestNo:	SW6020	Units:	mg/L
SampType:	CCV	Run ID:	ICP-MS2_090327B	Analysis Date:	03/27/09 01:00 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	5.17	0.300	5.00	0	103	90	110			
Magnesium	4.96	0.300	5.00	0	99.3	90	110			
Sodium	4.82	0.300	5.00	0	96.4	90	110			

Sample ID:	CCV3-090327	Batch ID:	R42579	TestNo:	SW6020	Units:	mg/L
SampType:	CCV	Run ID:	ICP-MS2_090327B	Analysis Date:	03/27/09 02:18 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	5.06	0.300	5.00	0	101	90	110			
Magnesium	4.94	0.300	5.00	0	98.7	90	110			
Potassium	4.97	0.300	5.00	0	99.4	90	110			
Sodium	4.87	0.300	5.00	0	97.4	90	110			

Sample ID:	CCV4-090327	Batch ID:	R42579	TestNo:	SW6020	Units:	mg/L
SampType:	CCV	Run ID:	ICP-MS2_090327B	Analysis Date:	03/27/09 03:28 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Magnesium	4.99	0.300	5.00	0	99.9	90	110			
Potassium	5.04	0.300	5.00	0	101	90	110			
Sodium	4.94	0.300	5.00	0	98.8	90	110			

Sample ID:	CCV5-090327	Batch ID:	R42579	TestNo:	SW6020	Units:	mg/L
SampType:	CCV	Run ID:	ICP-MS2_090327B	Analysis Date:	03/27/09 04:17 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Potassium	4.94	0.300	5.00	0	98.9	90	110			

Sample ID:	CCV6-090327	Batch ID:	R42579	TestNo:	SW6020	Units:	mg/L
SampType:	CCV	Run ID:	ICP-MS2_090327B	Analysis Date:	03/27/09 04:39 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Potassium	4.95	0.300	5.00	0	99.1	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903166
Project: RRC Petronila PZ/SW

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_090326A

Sample ID:	MB-34081	Batch ID:	34081	TestNo:	SW6020	Units:	mg/L
SampType:	MBLK	Run ID:	ICP-MS3_090326A	Analysis Date:	03/26/09 12:19 PM	Prep Date:	03/23/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	ND	0.0100								
Calcium	ND	0.300								
Iron	ND	0.150								
Magnesium	ND	0.300								
Potassium	ND	0.300								
Sodium	ND	0.300								

Sample ID:	LCS-34081	Batch ID:	34081	TestNo:	SW6020	Units:	mg/L
SampType:	LCS	Run ID:	ICP-MS3_090326A	Analysis Date:	03/26/09 12:45 PM	Prep Date:	03/23/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.204	0.0100	0.200	0	102	80	120			
Calcium	5.00	0.300	5.00	0	100	80	120			
Iron	4.86	0.150	5.00	0	97.3	80	120			
Magnesium	5.05	0.300	5.00	0	101	80	120			
Potassium	5.25	0.300	5.00	0	105	80	120			
Sodium	5.00	0.300	5.00	0	100	80	120			

Sample ID:	LCSD-34081	Batch ID:	34081	TestNo:	SW6020	Units:	mg/L
SampType:	LCSD	Run ID:	ICP-MS3_090326A	Analysis Date:	03/26/09 12:50 PM	Prep Date:	03/23/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.205	0.0100	0.200	0	102	80	120	0.441	15	
Calcium	5.02	0.300	5.00	0	100	80	120	0.359	15	
Iron	4.86	0.150	5.00	0	97.1	80	120	0.185	15	
Magnesium	5.09	0.300	5.00	0	102	80	120	0.789	15	
Potassium	5.26	0.300	5.00	0	105	80	120	0.133	15	
Sodium	5.11	0.300	5.00	0	102	80	120	2.22	15	

Sample ID:	0903166-15A SD	Batch ID:	34081	TestNo:	SW6020	Units:	mg/L
SampType:	SD	Run ID:	ICP-MS3_090326A	Analysis Date:	03/26/09 02:18 PM	Prep Date:	03/23/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	910	750	0	948				4.14	10	
Magnesium	0	750	0	223				0	10	
Sodium	3300	750	0	3290				0.577	10	

Sample ID:	0903166-15A PDS	Batch ID:	34081	TestNo:	SW6020	Units:	mg/L
SampType:	PDS	Run ID:	ICP-MS3_090326A	Analysis Date:	03/26/09 02:23 PM	Prep Date:	03/23/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	3390	150	2500	948	97.8	75	125			
Magnesium	2670	150	2500	223	98.0	75	125			
Sodium	5320	150	2500	3290	81.2	75	125			

Sample ID:	0903166-15A MS	Batch ID:	34081	TestNo:	SW6020	Units:	mg/L
SampType:	MS	Run ID:	ICP-MS3_090326A	Analysis Date:	03/26/09 02:28 PM	Prep Date:	03/23/09

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903166
Project: RRC Petronila PZ/SW

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_090326A

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	982	150	5.00	948	680	80	120			S
Magnesium	230	150	5.00	223	140	80	120			S
Sodium	3360	150	5.00	3290	1440	80	120			S

Sample ID: 0903166-15A MSD | Batch ID: 34081 | TestNo: SW6020 | Units: mg/L
SampType: MSD | Run ID: ICP-MS3_090326A | Analysis Date: 03/26/09 02:33 PM | Prep Date: 03/23/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	980	150	5.00	948	630	80	120	0.255	15	S
Magnesium	231	150	5.00	223	160	80	120	0.433	15	S
Sodium	3380	150	5.00	3290	1870	80	120	0.638	15	S

Sample ID: 0903166-15A SD | Batch ID: 34081 | TestNo: SW6020 | Units: mg/L
SampType: SD | Run ID: ICP-MS3_090326A | Analysis Date: 03/26/09 08:25 PM | Prep Date: 03/23/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.165	0.250	0	0.178				7.71	10	
Iron	0	3.75	0	0.946				0	10	
Potassium	22.6	7.50	0	24.1				6.61	10	

Sample ID: 0903166-15A PDS | Batch ID: 34081 | TestNo: SW6020 | Units: mg/L
SampType: PDS | Run ID: ICP-MS3_090326A | Analysis Date: 03/26/09 08:30 PM | Prep Date: 03/23/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	1.18	0.0500	1.00	0.178	99.9	75	125			
Iron	25.5	0.750	25.0	0.946	98.2	75	125			
Potassium	47.8	1.50	25.0	24.1	94.6	75	125			

Sample ID: 0903166-15A MS | Batch ID: 34081 | TestNo: SW6020 | Units: mg/L
SampType: MS | Run ID: ICP-MS3_090326A | Analysis Date: 03/26/09 08:35 PM | Prep Date: 03/23/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.376	0.0500	0.200	0.178	98.8	80	120			
Iron	5.48	0.750	5.00	0.946	90.6	80	120			
Potassium	28.9	1.50	5.00	24.1	96.0	80	120			

Sample ID: 0903166-15A MSD | Batch ID: 34081 | TestNo: SW6020 | Units: mg/L
SampType: MSD | Run ID: ICP-MS3_090326A | Analysis Date: 03/26/09 08:40 PM | Prep Date: 03/23/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.386	0.0500	0.200	0.178	104	80	120	2.49	15	
Iron	5.52	0.750	5.00	0.946	91.4	80	120	0.728	15	
Potassium	28.8	1.50	5.00	24.1	93.7	80	120	0.398	15	

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903166
Project: RRC Petronila PZ/SW

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_090326A

Sample ID:	ICV1-090326	Batch ID:	R42551	TestNo:	SW6020	Units:	mg/L
SampType:	ICV	Run ID:	ICP-MS3_090326A	Analysis Date:	03/26/09 11:53 AM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.0978	0.0100	0.100	0	97.8	90	110			
Calcium	2.42	0.300	2.50	0	96.6	90	110			
Iron	2.51	0.150	2.50	0	100	90	110			
Magnesium	2.43	0.300	2.50	0	97.1	90	110			
Potassium	2.46	0.300	2.50	0	98.6	90	110			
Sodium	2.40	0.300	2.50	0	95.8	90	110			

Sample ID:	CCV1-090326	Batch ID:	R42551	TestNo:	SW6020	Units:	mg/L
SampType:	CCV	Run ID:	ICP-MS3_090326A	Analysis Date:	03/26/09 12:55 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.205	0.0100	0.200	0	103	90	110			
Calcium	4.83	0.300	5.00	0	96.6	90	110			
Iron	4.88	0.150	5.00	0	97.5	90	110			
Magnesium	4.98	0.300	5.00	0	99.5	90	110			
Potassium	5.11	0.300	5.00	0	102	90	110			
Sodium	4.97	0.300	5.00	0	99.5	90	110			

Sample ID:	CCV2-090326	Batch ID:	R42551	TestNo:	SW6020	Units:	mg/L
SampType:	CCV	Run ID:	ICP-MS3_090326A	Analysis Date:	03/26/09 02:02 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	4.90	0.300	5.00	0	97.9	90	110			
Magnesium	4.87	0.300	5.00	0	97.4	90	110			
Sodium	4.80	0.300	5.00	0	96.0	90	110			

Sample ID:	CCV3-090326	Batch ID:	R42551	TestNo:	SW6020	Units:	mg/L
SampType:	CCV	Run ID:	ICP-MS3_090326A	Analysis Date:	03/26/09 03:04 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	5.00	0.300	5.00	0	99.9	90	110			
Magnesium	4.93	0.300	5.00	0	98.5	90	110			
Sodium	4.82	0.300	5.00	0	96.5	90	110			

Sample ID:	CCV4-090326	Batch ID:	R42551	TestNo:	SW6020	Units:	mg/L
SampType:	CCV	Run ID:	ICP-MS3_090326A	Analysis Date:	03/26/09 04:14 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.198	0.0100	0.200	0	98.8	90	110			
Calcium	4.89	0.300	5.00	0	97.7	90	110			
Iron	4.81	0.150	5.00	0	96.2	90	110			
Magnesium	4.80	0.300	5.00	0	96.0	90	110			
Potassium	5.15	0.300	5.00	0	103	90	110			
Sodium	4.72	0.300	5.00	0	94.3	90	110			

Sample ID:	CCV5-090326	Batch ID:	R42551	TestNo:	SW6020	Units:	mg/L
SampType:	CCV	Run ID:	ICP-MS3_090326A	Analysis Date:	03/26/09 05:05 PM	Prep Date:	

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903166
Project: RRC Petronila PZ/SW

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_090326A

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.199	0.0100	0.200	0	99.4	90	110			
Calcium	4.90	0.300	5.00	0	98.1	90	110			
Iron	4.87	0.150	5.00	0	97.5	90	110			
Magnesium	4.80	0.300	5.00	0	96.1	90	110			
Potassium	5.16	0.300	5.00	0	103	90	110			
Sodium	4.71	0.300	5.00	0	94.2	90	110			

Sample ID: CCV6-090326 Batch ID: R42551 TestNo: SW6020 Units: mg/L
SampType: CCV Run ID: ICP-MS3_090326A Analysis Date: 03/26/09 05:57 PM Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Magnesium	4.82	0.300	5.00	0	96.5	90	110			
Potassium	5.11	0.300	5.00	0	102	90	110			

Sample ID: CCV7-090326 Batch ID: R42551 TestNo: SW6020 Units: mg/L
SampType: CCV Run ID: ICP-MS3_090326A Analysis Date: 03/26/09 07:19 PM Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.199	0.0100	0.200	0	99.4	90	110			
Iron	4.99	0.150	5.00	0	99.9	90	110			
Potassium	5.11	0.300	5.00	0	102	90	110			

Sample ID: CCV8-090326 Batch ID: R42551 TestNo: SW6020 Units: mg/L
SampType: CCV Run ID: ICP-MS3_090326A Analysis Date: 03/26/09 08:46 PM Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.197	0.0100	0.200	0	98.7	90	110			
Iron	4.94	0.150	5.00	0	98.8	90	110			
Potassium	5.08	0.300	5.00	0	102	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903166
Project: RRC Petronila PZ/SW

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_090331A

Sample ID:	MB-34201	Batch ID:	34201	TestNo:	SW6020	Units:	mg/L
SampType:	MBLK	Run ID:	ICP-MS3_090331A	Analysis Date:	03/31/09 12:53 PM	Prep Date:	03/30/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	ND	0.0100								
Calcium	ND	0.300								
Iron	ND	0.150								
Magnesium	ND	0.300								
Potassium	ND	0.300								
Sodium	ND	0.300								

Sample ID:	LCS-34201	Batch ID:	34201	TestNo:	SW6020	Units:	mg/L
SampType:	LCS	Run ID:	ICP-MS3_090331A	Analysis Date:	03/31/09 01:09 PM	Prep Date:	03/30/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.200	0.0100	0.200	0	99.8	80	120			
Calcium	4.99	0.300	5.00	0	99.7	80	120			
Iron	4.85	0.150	5.00	0	97.0	80	120			
Magnesium	4.80	0.300	5.00	0	96.0	80	120			
Potassium	4.94	0.300	5.00	0	98.9	80	120			
Sodium	4.86	0.300	5.00	0	97.2	80	120			

Sample ID:	LCSD-34201	Batch ID:	34201	TestNo:	SW6020	Units:	mg/L
SampType:	LCSD	Run ID:	ICP-MS3_090331A	Analysis Date:	03/31/09 01:14 PM	Prep Date:	03/30/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.197	0.0100	0.200	0	98.4	80	120	1.31	15	
Calcium	4.95	0.300	5.00	0	99.0	80	120	0.724	15	
Iron	4.84	0.150	5.00	0	96.8	80	120	0.186	15	
Magnesium	4.78	0.300	5.00	0	95.6	80	120	0.418	15	
Potassium	4.94	0.300	5.00	0	98.7	80	120	0.182	15	
Sodium	4.88	0.300	5.00	0	97.6	80	120	0.349	15	

Sample ID:	0903166-10A SD	Batch ID:	34201	TestNo:	SW6020	Units:	mg/L
SampType:	SD	Run ID:	ICP-MS3_090331A	Analysis Date:	03/31/09 01:38 PM	Prep Date:	03/30/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	1210	750	0	1230				1.90	10	
Magnesium	0	750	0	152				0	10	
Sodium	3160	750	0	3180				0.851	10	

Sample ID:	0903166-10A PDS	Batch ID:	34201	TestNo:	SW6020	Units:	mg/L
SampType:	PDS	Run ID:	ICP-MS3_090331A	Analysis Date:	03/31/09 01:43 PM	Prep Date:	03/30/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	3720	150	2500	1230	99.3	75	125			
Magnesium	2480	150	2500	152	92.9	75	125			
Sodium	5520	150	2500	3180	93.4	75	125			

Sample ID:	0903166-10A MS	Batch ID:	34201	TestNo:	SW6020	Units:	mg/L
SampType:	MS	Run ID:	ICP-MS3_090331A	Analysis Date:	03/31/09 01:48 PM	Prep Date:	03/30/09

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903166
Project: RRC Petronila PZ/SW

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_090331A

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	1280	150	25.0	1230	178	80	120			S
Magnesium	174	150	25.0	152	88.2	80	120			
Sodium	3270	150	25.0	3180	332	80	120			S

Sample ID: 0903166-10A MSD | Batch ID: 34201 | TestNo: SW6020 | Units: mg/L
SampType: MSD | Run ID: ICP-MS3_090331A | Analysis Date: 03/31/09 01:53 PM | Prep Date: 03/30/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	1230	150	25.0	1230	-2.00	80	120	3.58	15	S
Magnesium	173	150	25.0	152	82.0	80	120	0.893	15	
Sodium	3200	150	25.0	3180	72.0	80	120	2.01	15	S

Sample ID: 0903166-10A SD | Batch ID: 34201 | TestNo: SW6020 | Units: mg/L
SampType: SD | Run ID: ICP-MS3_090331A | Analysis Date: 03/31/09 04:12 PM | Prep Date: 03/30/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0	0.250	0	0.0399				0	10	
Iron	0	3.75	0	0				0	10	
Potassium	6.88	7.50	0	6.68				3.10	10	

Sample ID: 0903166-10A PDS | Batch ID: 34201 | TestNo: SW6020 | Units: mg/L
SampType: PDS | Run ID: ICP-MS3_090331A | Analysis Date: 03/31/09 04:17 PM | Prep Date: 03/30/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	1.03	0.0500	1.00	0.0399	99.4	75	125			
Iron	24.0	0.750	25.0	0	95.9	75	125			
Potassium	30.4	1.50	25.0	6.68	94.7	75	125			

Sample ID: 0903166-10A MS | Batch ID: 34201 | TestNo: SW6020 | Units: mg/L
SampType: MS | Run ID: ICP-MS3_090331A | Analysis Date: 03/31/09 04:23 PM | Prep Date: 03/30/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	1.04	0.0500	1.00	0.0399	100	80	120			
Iron	23.8	0.750	25.0	0	95.3	80	120			
Potassium	30.5	1.50	25.0	6.68	95.5	80	120			

Sample ID: 0903166-10A MSD | Batch ID: 34201 | TestNo: SW6020 | Units: mg/L
SampType: MSD | Run ID: ICP-MS3_090331A | Analysis Date: 03/31/09 04:28 PM | Prep Date: 03/30/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	1.03	0.0500	1.00	0.0399	99.1	80	120	1.11	15	
Iron	23.5	0.750	25.0	0	93.8	80	120	1.56	15	
Potassium	30.6	1.50	25.0	6.68	95.5	80	120	0.0491	15	

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903166
Project: RRC Petronila PZ/SW

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_090331A

Sample ID:	ICV1-090331	Batch ID:	R42622	TestNo:	SW6020	Units:	mg/L
SampType:	ICV	Run ID:	ICP-MS3_090331A	Analysis Date:	03/31/09 12:36 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.101	0.0100	0.100	0	101	90	110			
Calcium	2.48	0.300	2.50	0	99.4	90	110			
Iron	2.58	0.150	2.50	0	103	90	110			
Magnesium	2.46	0.300	2.50	0	98.6	90	110			
Potassium	2.51	0.300	2.50	0	100	90	110			
Sodium	2.52	0.300	2.50	0	101	90	110			

Sample ID:	CCV1-090330	Batch ID:	R42622	TestNo:	SW6020	Units:	mg/L
SampType:	CCV	Run ID:	ICP-MS3_090331A	Analysis Date:	03/31/09 01:19 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.199	0.0100	0.200	0	99.4	90	110			
Calcium	5.02	0.300	5.00	0	100	90	110			
Iron	4.92	0.150	5.00	0	98.3	90	110			
Magnesium	4.87	0.300	5.00	0	97.4	90	110			
Potassium	5.04	0.300	5.00	0	101	90	110			
Sodium	4.91	0.300	5.00	0	98.2	90	110			

Sample ID:	CCV2-090331	Batch ID:	R42622	TestNo:	SW6020	Units:	mg/L
SampType:	CCV	Run ID:	ICP-MS3_090331A	Analysis Date:	03/31/09 02:09 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	5.02	0.300	5.00	0	100	90	110			
Magnesium	4.76	0.300	5.00	0	95.2	90	110			
Sodium	4.80	0.300	5.00	0	96.1	90	110			

Sample ID:	CCV4-090331	Batch ID:	R42622	TestNo:	SW6020	Units:	mg/L
SampType:	CCV	Run ID:	ICP-MS3_090331A	Analysis Date:	03/31/09 03:57 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.195	0.0100	0.200	0	97.4	90	110			
Iron	4.81	0.150	5.00	0	96.3	90	110			
Potassium	4.99	0.300	5.00	0	99.7	90	110			

Sample ID:	CCV5-090331	Batch ID:	R42622	TestNo:	SW6020	Units:	mg/L
SampType:	CCV	Run ID:	ICP-MS3_090331A	Analysis Date:	03/31/09 05:04 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.200	0.0100	0.200	0	100	90	110			
Iron	4.79	0.150	5.00	0	95.8	90	110			
Potassium	5.04	0.300	5.00	0	101	90	110			

Sample ID:	CCV8-090331	Batch ID:	R42622	TestNo:	SW6020	Units:	mg/L
SampType:	CCV	Run ID:	ICP-MS3_090331A	Analysis Date:	03/31/09 08:19 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.199	0.0100	0.200	0	99.6	90	110			
Iron	4.71	0.150	5.00	0	94.2	90	110			
Potassium	5.03	0.300	5.00	0	101	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903166
Project: RRC Petronila PZ/SW

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_090331A

Sample ID:	CCV9-090331	Batch ID:	R42622	TestNo:	SW6020		Units:	mg/L	
SampType:	CCV	Run ID:	ICP-MS3_090331A	Analysis Date:	03/31/09 09:46 PM		Prep Date:		

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.200	0.0100	0.200	0	100	90	110			
Iron	4.77	0.150	5.00	0	95.4	90	110			
Potassium	4.98	0.300	5.00	0	99.6	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903166
Project: RRC Petronila PZ/SW

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_090401A

Sample ID:	MB-34229	Batch ID:	34229	TestNo:	SW6020	Units:	mg/L
SampType:	MBLK	Run ID:	ICP-MS3_090401A	Analysis Date:	04/01/09 11:50 AM	Prep Date:	03/31/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	ND	0.0100								
Calcium	ND	0.300								
Iron	ND	0.150								
Magnesium	ND	0.300								
Potassium	ND	0.300								
Sodium	ND	0.300								

Sample ID:	LCS-34229	Batch ID:	34229	TestNo:	SW6020	Units:	mg/L
SampType:	LCS	Run ID:	ICP-MS3_090401A	Analysis Date:	04/01/09 12:10 PM	Prep Date:	03/31/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.197	0.0100	0.200	0	98.6	80	120			
Calcium	4.85	0.300	5.00	0	97.0	80	120			
Iron	4.85	0.150	5.00	0	97.0	80	120			
Magnesium	4.73	0.300	5.00	0	94.5	80	120			
Potassium	4.95	0.300	5.00	0	99.0	80	120			
Sodium	4.80	0.300	5.00	0	96.0	80	120			

Sample ID:	LCSD-34229	Batch ID:	34229	TestNo:	SW6020	Units:	mg/L
SampType:	LCSD	Run ID:	ICP-MS3_090401A	Analysis Date:	04/01/09 12:15 PM	Prep Date:	03/31/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.196	0.0100	0.200	0	97.8	80	120	0.815	15	
Calcium	4.78	0.300	5.00	0	95.6	80	120	1.54	15	
Iron	4.75	0.150	5.00	0	95.1	80	120	2.06	15	
Magnesium	4.69	0.300	5.00	0	93.7	80	120	0.850	15	
Potassium	4.92	0.300	5.00	0	98.4	80	120	0.608	15	
Sodium	4.75	0.300	5.00	0	95.0	80	120	1.05	15	

Sample ID:	0903216-03A SD	Batch ID:	34229	TestNo:	SW6020	Units:	mg/L
SampType:	SD	Run ID:	ICP-MS3_090401A	Analysis Date:	04/01/09 12:25 PM	Prep Date:	03/31/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	1070	750	0	1120				4.85	10	
Magnesium	340	750	0	334				1.82	10	
Sodium	2830	750	0	2990				5.41	10	

Sample ID:	0903216-03A PDS	Batch ID:	34229	TestNo:	SW6020	Units:	mg/L
SampType:	PDS	Run ID:	ICP-MS3_090401A	Analysis Date:	04/01/09 12:31 PM	Prep Date:	03/31/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	3640	150	2500	1120	101	75	125			
Magnesium	2710	150	2500	334	94.9	75	125			
Sodium	5340	150	2500	2990	94.1	75	125			

Sample ID:	0903216-03A MS	Batch ID:	34229	TestNo:	SW6020	Units:	mg/L
SampType:	MS	Run ID:	ICP-MS3_090401A	Analysis Date:	04/01/09 12:36 PM	Prep Date:	03/31/09

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903166
Project: RRC Petronila PZ/SW

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_090401A

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	1170	150	25.0	1120	188	80	120			S
Magnesium	365	150	25.0	334	125	80	120			S
Sodium	3100	150	25.0	2990	466	80	120			S

Sample ID: 0903216-03A MSD | Batch ID: 34229 | TestNo: SW6020 | Units: mg/L
SampType: MSD | Run ID: ICP-MS3_090401A | Analysis Date: 04/01/09 12:41 PM | Prep Date: 03/31/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	1140	150	25.0	1120	106	80	120	1.77	15	
Magnesium	357	150	25.0	334	90.6	80	120	2.40	15	
Sodium	3010	150	25.0	2990	96.0	80	120	3.03	15	

Sample ID: 0903216-03A SD | Batch ID: 34229 | TestNo: SW6020 | Units: mg/L
SampType: SD | Run ID: ICP-MS3_090401A | Analysis Date: 04/01/09 03:47 PM | Prep Date: 03/31/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.108	0.250	0	0.106				1.00	10	
Iron	0	3.75	0	0.668				0	10	
Potassium	30.2	7.50	0	30.5				0.889	10	

Sample ID: 0903216-03A PDS | Batch ID: 34229 | TestNo: SW6020 | Units: mg/L
SampType: PDS | Run ID: ICP-MS3_090401A | Analysis Date: 04/01/09 03:53 PM | Prep Date: 03/31/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	1.08	0.0500	1.00	0.106	97.8	75	125			
Iron	25.2	0.750	25.0	0.668	98.1	75	125			
Potassium	53.2	1.50	25.0	30.5	90.8	75	125			

Sample ID: 0903216-03A MS | Batch ID: 34229 | TestNo: SW6020 | Units: mg/L
SampType: MS | Run ID: ICP-MS3_090401A | Analysis Date: 04/01/09 03:58 PM | Prep Date: 03/31/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	1.12	0.0500	1.00	0.106	101	80	120			
Iron	25.0	0.750	25.0	0.668	97.3	80	120			
Potassium	54.6	1.50	25.0	30.5	96.2	80	120			

Sample ID: 0903216-03A MSD | Batch ID: 34229 | TestNo: SW6020 | Units: mg/L
SampType: MSD | Run ID: ICP-MS3_090401A | Analysis Date: 04/01/09 04:03 PM | Prep Date: 03/31/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	1.10	0.0500	1.00	0.106	99.6	80	120	1.35	15	
Iron	24.9	0.750	25.0	0.668	96.8	80	120	0.441	15	
Potassium	54.4	1.50	25.0	30.5	95.8	80	120	0.183	15	

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903166
Project: RRC Petronila PZ/SW

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_090401A

Sample ID:	ICV1-090401	Batch ID:	R42647	TestNo:	SW6020	Units:	mg/L
SampType:	ICV	Run ID:	ICP-MS3_090401A	Analysis Date:	04/01/09 11:15 AM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.100	0.0100	0.100	0	101	90	110			
Calcium	2.50	0.300	2.50	0	99.8	90	110			
Iron	2.64	0.150	2.50	0	106	90	110			
Magnesium	2.46	0.300	2.50	0	98.4	90	110			
Potassium	2.52	0.300	2.50	0	101	90	110			
Sodium	2.41	0.300	2.50	0	96.2	90	110			

Sample ID:	CCV1-090401	Batch ID:	R42647	TestNo:	SW6020	Units:	mg/L
SampType:	CCV	Run ID:	ICP-MS3_090401A	Analysis Date:	04/01/09 12:56 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.197	0.0100	0.200	0	98.7	90	110			
Calcium	4.92	0.300	5.00	0	98.5	90	110			
Iron	4.89	0.150	5.00	0	97.9	90	110			
Magnesium	4.85	0.300	5.00	0	97.0	90	110			
Potassium	5.07	0.300	5.00	0	101	90	110			
Sodium	4.92	0.300	5.00	0	98.4	90	110			

Sample ID:	CCV2-090401	Batch ID:	R42647	TestNo:	SW6020	Units:	mg/L
SampType:	CCV	Run ID:	ICP-MS3_090401A	Analysis Date:	04/01/09 02:04 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Sodium	4.84	0.300	5.00	0	96.8	90	110			

Sample ID:	CCV4-090401	Batch ID:	R42647	TestNo:	SW6020	Units:	mg/L
SampType:	CCV	Run ID:	ICP-MS3_090401A	Analysis Date:	04/01/09 03:31 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.198	0.0100	0.200	0	98.8	90	110			
Iron	4.88	0.150	5.00	0	97.6	90	110			
Potassium	5.04	0.300	5.00	0	101	90	110			

Sample ID:	CCV5-090401	Batch ID:	R42647	TestNo:	SW6020	Units:	mg/L
SampType:	CCV	Run ID:	ICP-MS3_090401A	Analysis Date:	04/01/09 04:13 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.198	0.0100	0.200	0	99.2	90	110			
Iron	4.96	0.150	5.00	0	99.2	90	110			
Potassium	5.08	0.300	5.00	0	102	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903166
Project: RRC Petronila PZ/SW

ANALYTICAL QC SUMMARY REPORT

RunID: IC_090321C

Sample ID:	LCS-34068	Batch ID:	34068		TestNo:		E300		Units:		mg/L
SampType:	LCS	Run ID:	IC_090321C		Analysis Date:		03/21/09 10:56 AM		Prep Date:		03/21/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide		20.4	1.00	20.00	0	102	90	110			
Nitrate-N		5.19	0.500	5.000	0	104	90	110			

Sample ID:	LCSD-34068	Batch ID:	34068		TestNo:		E300		Units:		mg/L
SampType:	LCSD	Run ID:	IC_090321C		Analysis Date:		03/21/09 11:12 AM		Prep Date:		03/21/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide		20.3	1.00	20.00	0	102	90	110	0.382	20	
Nitrate-N		5.17	0.500	5.000	0	103	90	110	0.369	20	

Sample ID:	MB-34068	Batch ID:	34068		TestNo:		E300		Units:		mg/L
SampType:	MBLK	Run ID:	IC_090321C		Analysis Date:		03/21/09 11:28 AM		Prep Date:		03/21/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide		ND	1.00								
Nitrate-N		ND	0.500								

Sample ID:	0903165-01BMS	Batch ID:	34068		TestNo:		E300		Units:		mg/L
SampType:	MS	Run ID:	IC_090321C		Analysis Date:		03/21/09 03:17 PM		Prep Date:		03/21/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide		19.2	1.00	20.00	0.5896	93.0	90	110			
Nitrate-N		9.22	0.500	5.000	4.222	99.9	90	110			

Sample ID:	0903165-01BMSD	Batch ID:	34068		TestNo:		E300		Units:		mg/L
SampType:	MSD	Run ID:	IC_090321C		Analysis Date:		03/21/09 03:33 PM		Prep Date:		03/21/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide		19.5	1.00	20.00	0.5896	94.3	90	110	1.39	20	
Nitrate-N		9.25	0.500	5.000	4.222	101	90	110	0.408	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903166
Project: RRC Petronila PZ/SW

ANALYTICAL QC SUMMARY REPORT

RunID: IC_090321C

Sample ID:	ICV-090321	Batch ID:	R42638		TestNo:		E300		Units:		mg/L
SampType:	ICV	Run ID:	IC_090321C		Analysis Date:		03/21/09 10:41 AM		Prep Date:		03/21/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide		53.0	1.00	50.00	0	106	90	110			
Nitrate-N		13.4	0.500	12.50	0	108	90	110			

Sample ID:	CCV1-090321	Batch ID:	R42638		TestNo:		E300		Units:		mg/L
SampType:	CCV	Run ID:	IC_090321C		Analysis Date:		03/21/09 01:43 PM		Prep Date:		03/21/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide		20.5	1.00	20.00	0	102	90	110			
Nitrate-N		5.20	0.500	5.000	0	104	90	110			

Sample ID:	CCV2-090321	Batch ID:	R42638		TestNo:		E300		Units:		mg/L
SampType:	CCV	Run ID:	IC_090321C		Analysis Date:		03/21/09 04:52 PM		Prep Date:		03/21/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide		20.3	1.00	20.00	0	101	90	110			
Nitrate-N		5.15	0.500	5.000	0	103	90	110			

Sample ID:	CCV3-090321	Batch ID:	R42638		TestNo:		E300		Units:		mg/L
SampType:	CCV	Run ID:	IC_090321C		Analysis Date:		03/21/09 07:44 PM		Prep Date:		03/21/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide		20.4	1.00	20.00	0	102	90	110			
Nitrate-N		5.18	0.500	5.000	0	104	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903166
Project: RRC Petronila PZ/SW

ANALYTICAL QC SUMMARY REPORT

RunID: IC_090327C

Sample ID:	LCS-34187	Batch ID:	34187		TestNo:		E300		Units:		mg/L
SampType:	LCS	Run ID:	IC_090327C		Analysis Date:		03/27/09 08:14 PM		Prep Date:		03/27/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide		20.8	1.00	20.00	0	104	90	110			
Nitrate-N		5.26	0.500	5.000	0	105	90	110			
Sulfate		31.3	3.00	30.00	0	104	90	110			

Sample ID:	LCSD-34187	Batch ID:	34187		TestNo:		E300		Units:		mg/L
SampType:	LCSD	Run ID:	IC_090327C		Analysis Date:		03/27/09 08:28 PM		Prep Date:		03/27/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide		20.7	1.00	20.00	0	103	90	110	0.372	20	
Nitrate-N		5.22	0.500	5.000	0	104	90	110	0.683	20	
Sulfate		31.2	3.00	30.00	0	104	90	110	0.353	20	

Sample ID:	MB-34187	Batch ID:	34187		TestNo:		E300		Units:		mg/L
SampType:	MBLK	Run ID:	IC_090327C		Analysis Date:		03/27/09 08:58 PM		Prep Date:		03/27/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide		ND	1.00								
Nitrate-N		ND	0.500								
Sulfate		ND	3.00								

Sample ID:	0903222-05EMS	Batch ID:	34187		TestNo:		E300		Units:		mg/L
SampType:	MS	Run ID:	IC_090327C		Analysis Date:		03/27/09 10:31 PM		Prep Date:		03/27/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide		19.8	1.00	20.00	0.4432	96.7	90	110			
Nitrate-N		5.09	0.500	5.000	0.1553	98.6	90	110			
Sulfate		48.5	3.00	30.00	16.72	106	90	110			

Sample ID:	0903222-05EMSD	Batch ID:	34187		TestNo:		E300		Units:		mg/L
SampType:	MSD	Run ID:	IC_090327C		Analysis Date:		03/27/09 10:47 PM		Prep Date:		03/27/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide		20.0	1.00	20.00	0.4432	97.9	90	110	1.15	20	
Nitrate-N		5.15	0.500	5.000	0.1553	99.9	90	110	1.24	20	
Sulfate		48.7	3.00	30.00	16.72	107	90	110	0.556	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903166
Project: RRC Petronila PZ/SW

ANALYTICAL QC SUMMARY REPORT

RunID: IC_090327C

Sample ID:	ICV-090327	Batch ID:	R42576		TestNo:		E300		Units:		mg/L
SampType:	ICV	Run ID:	IC_090327C		Analysis Date:		03/27/09 07:59 PM		Prep Date:		03/27/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide		52.9	1.00	50.00	0	106	90	110			
Nitrate-N		13.4	0.500	12.50	0	107	90	110			
Sulfate		79.7	3.00	75.00	0	106	90	110			

Sample ID:	CCV1-090327	Batch ID:	R42576		TestNo:		E300		Units:		mg/L
SampType:	CCV	Run ID:	IC_090327C		Analysis Date:		03/27/09 11:02 PM		Prep Date:		03/27/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide		20.6	1.00	20.00	0	103	90	110			
Nitrate-N		5.21	0.500	5.000	0	104	90	110			
Sulfate		31.1	3.00	30.00	0	104	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903166
Project: RRC Petronila PZ/SW

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_090330A

Sample ID:	LCS-34210	Batch ID:	34210		TestNo:		E300		Units:		mg/L
SampType:	LCS	Run ID:	IC2_090330A		Analysis Date:		03/30/09 09:28 AM		Prep Date:		03/30/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		9.27	1.00	10.00	0	92.7	90	110			
Sulfate		28.9	3.00	30.00	0	96.5	90	110			

Sample ID:	LCSD-34210	Batch ID:	34210		TestNo:		E300		Units:		mg/L
SampType:	LCSD	Run ID:	IC2_090330A		Analysis Date:		03/30/09 09:43 AM		Prep Date:		03/30/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		9.25	1.00	10.00	0	92.5	90	110	0.240	20	
Sulfate		28.9	3.00	30.00	0	96.3	90	110	0.195	20	

Sample ID:	MB-34210	Batch ID:	34210		TestNo:		E300		Units:		mg/L
SampType:	MBLK	Run ID:	IC2_090330A		Analysis Date:		03/30/09 09:57 AM		Prep Date:		03/30/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		ND	1.00								
Sulfate		ND	3.00								

Sample ID:	0903166-02AMS	Batch ID:	34210		TestNo:		E300		Units:		mg/L
SampType:	MS	Run ID:	IC2_090330A		Analysis Date:		03/30/09 10:16 PM		Prep Date:		03/30/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		18400	1000	10000	7599	108	90	110			
Sulfate		30300	3000	30000	1528	95.9	90	110			

Sample ID:	0903166-02AMSD	Batch ID:	34210		TestNo:		E300		Units:		mg/L
SampType:	MSD	Run ID:	IC2_090330A		Analysis Date:		03/30/09 10:30 PM		Prep Date:		03/30/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		18300	1000	10000	7599	107	90	110	0.332	20	
Sulfate		30300	3000	30000	1528	96.0	90	110	0.154	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903166
Project: RRC Petronila PZ/SW

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_090330A

Sample ID:	ICV-090330	Batch ID:	R42587		TestNo:	E300		Units:	mg/L	
SampType:	ICV	Run ID:	IC2_090330A		Analysis Date:	03/30/09 09:04 AM		Prep Date:	03/30/09	
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride	23.8	1.00	25.00	0	95.4	90	110			
Sulfate	74.1	3.00	75.00	0	98.8	90	110			

Sample ID:	CCV1-090330	Batch ID:	R42587		TestNo:	E300		Units:	mg/L	
SampType:	CCV	Run ID:	IC2_090330A		Analysis Date:	03/30/09 12:01 PM		Prep Date:	03/30/09	
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride	10.0	1.00	10.00	0	100	90	110			
Sulfate	30.1	3.00	30.00	0	100	90	110			

Sample ID:	CCV2-090330	Batch ID:	R42587		TestNo:	E300		Units:	mg/L	
SampType:	CCV	Run ID:	IC2_090330A		Analysis Date:	03/30/09 02:41 PM		Prep Date:	03/30/09	
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride	9.19	1.00	10.00	0	91.9	90	110			
Sulfate	28.6	3.00	30.00	0	95.2	90	110			

Sample ID:	CCV3-090330	Batch ID:	R42587		TestNo:	E300		Units:	mg/L	
SampType:	CCV	Run ID:	IC2_090330A		Analysis Date:	03/30/09 05:23 PM		Prep Date:	03/30/09	
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride	9.20	1.00	10.00	0	92.0	90	110			
Sulfate	28.6	3.00	30.00	0	95.4	90	110			

Sample ID:	CCV4-090330	Batch ID:	R42587		TestNo:	E300		Units:	mg/L	
SampType:	CCV	Run ID:	IC2_090330A		Analysis Date:	03/30/09 08:18 PM		Prep Date:	03/30/09	
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride	9.31	1.00	10.00	0	93.1	90	110			
Sulfate	28.7	3.00	30.00	0	95.8	90	110			

Sample ID:	CCV5-090330	Batch ID:	R42587		TestNo:	E300		Units:	mg/L	
SampType:	CCV	Run ID:	IC2_090330A		Analysis Date:	03/31/09 09:17 AM		Prep Date:	03/31/09	
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride	10.6	1.00	10.00	0	106	90	110			
Sulfate	29.7	3.00	30.00	0	98.9	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903166
Project: RRC Petronila PZ/SW

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_090330B

Sample ID:	LCS-34068	Batch ID:	34068		TestNo:		E300		Units:		mg/L
SampType:	LCS	Run ID:	IC2_090330B		Analysis Date:		03/30/09 09:28 AM		Prep Date:		03/21/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		9.27	1.00	10.00	0	92.7	90	110			
Sulfate		28.9	3.00	30.00	0	96.5	90	110			

Sample ID:	LCSD-34068	Batch ID:	34068		TestNo:		E300		Units:		mg/L
SampType:	LCSD	Run ID:	IC2_090330B		Analysis Date:		03/30/09 09:43 AM		Prep Date:		03/21/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		9.25	1.00	10.00	0	92.5	90	110	0.240	20	
Sulfate		28.9	3.00	30.00	0	96.3	90	110	0.195	20	

Sample ID:	MB-34068	Batch ID:	34068		TestNo:		E300		Units:		mg/L
SampType:	MBLK	Run ID:	IC2_090330B		Analysis Date:		03/30/09 09:57 AM		Prep Date:		03/21/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		ND	1.00								
Sulfate		ND	3.00								

Sample ID:	0903166-15BMS	Batch ID:	34068		TestNo:		E300		Units:		mg/L
SampType:	MS	Run ID:	IC2_090330B		Analysis Date:		03/30/09 03:11 PM		Prep Date:		03/21/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		13400	1000	10000	3989	93.9	90	110			
Sulfate		29300	3000	30000	930.4	94.6	90	110			

Sample ID:	0903166-15BMSD	Batch ID:	34068		TestNo:		E300		Units:		mg/L
SampType:	MSD	Run ID:	IC2_090330B		Analysis Date:		03/30/09 03:25 PM		Prep Date:		03/21/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		13400	1000	10000	3989	94.2	90	110	0.203	20	
Sulfate		29400	3000	30000	930.4	94.8	90	110	0.254	20	

Sample ID:	0903166-17BMS	Batch ID:	34068		TestNo:		E300		Units:		mg/L
SampType:	MS	Run ID:	IC2_090330B		Analysis Date:		03/30/09 03:55 PM		Prep Date:		03/21/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		9620	1000	10000	403.7	92.2	90	110			
Sulfate		28800	3000	30000	0	95.9	90	110			

Sample ID:	0903166-17BMSD	Batch ID:	34068		TestNo:		E300		Units:		mg/L
SampType:	MSD	Run ID:	IC2_090330B		Analysis Date:		03/30/09 04:09 PM		Prep Date:		03/21/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		9510	1000	10000	403.7	91.1	90	110	1.17	20	
Sulfate		28700	3000	30000	0	95.7	90	110	0.207	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903166
Project: RRC Petronila PZ/SW

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_090330B

Sample ID:	ICV-090330	Batch ID:	R42609		TestNo:	E300		Units:	mg/L	
SampType:	ICV	Run ID:	IC2_090330B		Analysis Date:	03/30/09 09:04 AM		Prep Date:	03/30/09	
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride	23.8	1.00	25.00	0	95.4	90	110			
Sulfate	74.1	3.00	75.00	0	98.8	90	110			

Sample ID:	CCV1-090330	Batch ID:	R42609		TestNo:	E300		Units:	mg/L	
SampType:	CCV	Run ID:	IC2_090330B		Analysis Date:	03/30/09 12:01 PM		Prep Date:	03/30/09	
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride	10.0	1.00	10.00	0	100	90	110			
Sulfate	30.1	3.00	30.00	0	100	90	110			

Sample ID:	CCV2-090330	Batch ID:	R42609		TestNo:	E300		Units:	mg/L	
SampType:	CCV	Run ID:	IC2_090330B		Analysis Date:	03/30/09 02:41 PM		Prep Date:	03/30/09	
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride	9.19	1.00	10.00	0	91.9	90	110			
Sulfate	28.6	3.00	30.00	0	95.2	90	110			

Sample ID:	CCV3-090330	Batch ID:	R42609		TestNo:	E300		Units:	mg/L	
SampType:	CCV	Run ID:	IC2_090330B		Analysis Date:	03/30/09 05:23 PM		Prep Date:	03/30/09	
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride	9.20	1.00	10.00	0	92.0	90	110			
Sulfate	28.6	3.00	30.00	0	95.4	90	110			

Sample ID:	CCV4-090330	Batch ID:	R42609		TestNo:	E300		Units:	mg/L	
SampType:	CCV	Run ID:	IC2_090330B		Analysis Date:	03/30/09 08:18 PM		Prep Date:	03/30/09	
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride	9.31	1.00	10.00	0	93.1	90	110			
Sulfate	28.7	3.00	30.00	0	95.8	90	110			

Sample ID:	CCV5-090330	Batch ID:	R42609		TestNo:	E300		Units:	mg/L	
SampType:	CCV	Run ID:	IC2_090330B		Analysis Date:	03/31/09 09:17 AM		Prep Date:	03/31/09	
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride	10.6	1.00	10.00	0	106	90	110			
Sulfate	29.7	3.00	30.00	0	98.9	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903166
Project: RRC Petronila PZ/SW

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_090331A

Sample ID:	LCS-34210	Batch ID:	34210	TestNo:	E300			Units:	mg/L		
SampType:	LCS	Run ID:	IC2_090331A	Analysis Date:	03/31/09 09:48 AM			Prep Date:	03/30/09		
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Sulfate		28.7	3.00	30.00	0	95.7	90	110			

Sample ID:	LCSD-34210	Batch ID:	34210	TestNo:	E300			Units:	mg/L		
SampType:	LCSD	Run ID:	IC2_090331A	Analysis Date:	03/31/09 10:02 AM			Prep Date:	03/30/09		
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Sulfate		29.0	3.00	30.00	0	96.7	90	110	1.04	20	

Sample ID:	MB-34210	Batch ID:	34210	TestNo:	E300			Units:	mg/L		
SampType:	MBLK	Run ID:	IC2_090331A	Analysis Date:	03/31/09 10:42 AM			Prep Date:	03/30/09		
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Sulfate		ND	3.00								

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903166
Project: RRC Petronila PZ/SW

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_090331A

Sample ID:	ICV-090331	Batch ID:	R42601		TestNo:		E300		Units:		mg/L
SampType:	ICV	Run ID:	IC2_090331A		Analysis Date:		03/31/09 09:33 AM		Prep Date:		03/31/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Sulfate		75.0	3.00	75.00	0	100	90	110			

Sample ID:	CCV1-090331	Batch ID:	R42601		TestNo:		E300		Units:		mg/L
SampType:	CCV	Run ID:	IC2_090331A		Analysis Date:		03/31/09 11:55 AM		Prep Date:		03/31/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Sulfate		28.5	3.00	30.00	0	94.9	90	110			

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903166
Project: RRC Petronila PZ/SW

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_090401B

Sample ID:	LCS-090401	Batch ID:	34264		TestNo:		E300		Units:		mg/L
SampType:	LCS	Run ID:	IC2_090401B		Analysis Date:		04/01/09 11:23 AM		Prep Date:		04/01/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		9.04	1.00	10.00	0	90.4	90	110			
Sulfate		28.3	3.00	30.00	0	94.3	90	110			

Sample ID:	LCSD-090401	Batch ID:	34264		TestNo:		E300		Units:		mg/L
SampType:	LCSD	Run ID:	IC2_090401B		Analysis Date:		04/01/09 11:38 AM		Prep Date:		04/01/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		9.05	1.00	10.00	0	90.5	90	110	0.106	20	
Sulfate		28.3	3.00	30.00	0	94.5	90	110	0.201	20	

Sample ID:	MB-090401	Batch ID:	34264		TestNo:		E300		Units:		mg/L
SampType:	MBLK	Run ID:	IC2_090401B		Analysis Date:		04/01/09 11:52 AM		Prep Date:		04/01/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		ND	1.00	0							
Sulfate		ND	3.00	0							

Sample ID:	0903195-01B MS	Batch ID:	34264		TestNo:		E300		Units:		mg/L
SampType:	MS	Run ID:	IC2_090401B		Analysis Date:		04/01/09 02:25 PM		Prep Date:		04/01/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		28.8	1.00	10.00	19.48	93.6	90	110			
Sulfate		34.1	3.00	30.00	5.690	94.7	90	110			

Sample ID:	0903195-01B MSD	Batch ID:	34264		TestNo:		E300		Units:		mg/L
SampType:	MSD	Run ID:	IC2_090401B		Analysis Date:		04/01/09 02:59 PM		Prep Date:		04/01/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		28.6	1.00	10.00	19.48	91.6	90	110	0.692	20	
Sulfate		33.9	3.00	30.00	5.690	94.2	90	110	0.448	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903166
Project: RRC Petronila PZ/SW

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_090401B

Sample ID:	ICV-090401	Batch ID:	R42644		TestNo:	E300		Units:	mg/L	
SampType:	ICV	Run ID:	IC2_090401B		Analysis Date:	04/01/09 09:14 AM		Prep Date:	04/01/09	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		24.0	1.00	25.00	0	96.0	90	110			
Sulfate		74.8	3.00	75.00	0	99.7	90	110			

Sample ID:	CCV1-090401	Batch ID:	R42644		TestNo:	E300		Units:	mg/L	
SampType:	CCV	Run ID:	IC2_090401B		Analysis Date:	04/01/09 11:06 AM		Prep Date:	04/01/09	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		9.30	1.00	10.00	0	93.0	90	110			
Sulfate		28.7	3.00	30.00	0	95.8	90	110			

Sample ID:	CCV2-090401	Batch ID:	R42644		TestNo:	E300		Units:	mg/L	
SampType:	CCV	Run ID:	IC2_090401B		Analysis Date:	04/01/09 02:39 PM		Prep Date:	04/01/09	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		9.12	1.00	10.00	0	91.2	90	110			
Sulfate		28.3	3.00	30.00	0	94.4	90	110			

Sample ID:	CCV3-090401	Batch ID:	R42644		TestNo:	E300		Units:	mg/L	
SampType:	CCV	Run ID:	IC2_090401B		Analysis Date:	04/01/09 05:27 PM		Prep Date:	04/01/09	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		9.20	1.00	10.00	0	92.0	90	110			
Sulfate		28.6	3.00	30.00	0	95.4	90	110			

Sample ID:	CCV4-090401	Batch ID:	R42644		TestNo:	E300		Units:	mg/L	
SampType:	CCV	Run ID:	IC2_090401B		Analysis Date:	04/01/09 06:26 PM		Prep Date:	04/01/09	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		9.12	1.00	10.00	0	91.2	90	110			
Sulfate		28.5	3.00	30.00	0	95.0	90	110			

Sample ID:	CCV5-090401	Batch ID:	R42644		TestNo:	E300		Units:	mg/L	
SampType:	CCV	Run ID:	IC2_090401B		Analysis Date:	04/01/09 07:10 PM		Prep Date:	04/01/09	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		9.18	1.00	10.00	0	91.8	90	110			
Sulfate		28.6	3.00	30.00	0	95.4	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903166
Project: RRC Petronila PZ/SW

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_090330B

Sample ID:	LCS-090330	Batch ID:	34199	TestNo:	M2320 B	Units:	mg/L
SampType:	LCS	Run ID:	TITRATOR_090330B	Analysis Date:	03/30/09 09:14 AM	Prep Date:	03/30/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	55.5	20.0	50.00	0	111	74	129			

Sample ID:	MB-34199	Batch ID:	34199	TestNo:	M2320 B	Units:	mg/L
SampType:	MBLK	Run ID:	TITRATOR_090330B	Analysis Date:	03/30/09 09:16 AM	Prep Date:	03/30/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	ND	20.0	0							
Alkalinity, Carbonate (As CaCO3)	ND	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	ND	20.0	0							
Alkalinity, Total (As CaCO3)	ND	20.0	0							

Sample ID:	0903166-15B DUP	Batch ID:	34199	TestNo:	M2320 B	Units:	mg/L
SampType:	DUP	Run ID:	TITRATOR_090330B	Analysis Date:	03/30/09 10:32 AM	Prep Date:	03/30/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	87.9	20.0	0	89.00				1.24	20	
Alkalinity, Carbonate (As CaCO3)	0	20.0	0	0				0	20	
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0	0				0	20	
Alkalinity, Total (As CaCO3)	87.9	20.0	0	89.00				1.24	20	

Sample ID:	0903171-01D DUP	Batch ID:	34199	TestNo:	M2320 B	Units:	mg/L
SampType:	DUP	Run ID:	TITRATOR_090330B	Analysis Date:	03/30/09 11:27 AM	Prep Date:	03/30/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	371	20.0	0	374.0				0.859	20	
Alkalinity, Carbonate (As CaCO3)	0	20.0	0	0				0	20	
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0	0				0	20	
Alkalinity, Total (As CaCO3)	371	20.0	0	374.0				0.859	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903166
Project: RRC Petronila PZ/SW

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_090330B

Sample ID:	ICV-090330	Batch ID:	R42585	TestNo:	M2320 B	Units:	mg/L
SampType:	ICV	Run ID:	TITRATOR_090330B	Analysis Date:	03/30/09 09:10 AM	Prep Date:	03/30/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	11.2	20.0	0							
Alkalinity, Carbonate (As CaCO3)	89.9	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0							
Alkalinity, Total (As CaCO3)	101	20.0	100.0	0	101	98	102			

Sample ID:	CCV1-090330	Batch ID:	R42585	TestNo:	M2320 B	Units:	mg/L
SampType:	CCV	Run ID:	TITRATOR_090330B	Analysis Date:	03/30/09 10:21 AM	Prep Date:	03/30/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	15.2	20.0	0							
Alkalinity, Carbonate (As CaCO3)	87.2	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0							
Alkalinity, Total (As CaCO3)	102	20.0	100.0	0	102	90	110			

Sample ID:	CCV2-090330	Batch ID:	R42585	TestNo:	M2320 B	Units:	mg/L
SampType:	CCV	Run ID:	TITRATOR_090330B	Analysis Date:	03/30/09 11:11 AM	Prep Date:	03/30/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	17.0	20.0	0							
Alkalinity, Carbonate (As CaCO3)	85.9	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0							
Alkalinity, Total (As CaCO3)	103	20.0	100.0	0	103	90	110			

Sample ID:	CCV3-090330	Batch ID:	R42585	TestNo:	M2320 B	Units:	mg/L
SampType:	CCV	Run ID:	TITRATOR_090330B	Analysis Date:	03/30/09 11:45 AM	Prep Date:	03/30/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	19.2	20.0	0							
Alkalinity, Carbonate (As CaCO3)	83.2	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0							
Alkalinity, Total (As CaCO3)	102	20.0	100.0	0	102	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903166
Project: RRC Petronila PZ/SW

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_090406A

Sample ID:	0903216-03A DUP	Batch ID:	34329		TestNo:	M4500-H+ B			Units:		pH Units
SampType:	DUP	Run ID:	TITRATOR_090406A		Analysis Date:	04/06/09 10:47 AM			Prep Date:		04/06/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
pH		7.49	0	0	7.470				0.267	5	

Sample ID:	0904051-02B DUP	Batch ID:	34329		TestNo:	M4500-H+ B			Units:		pH Units
SampType:	DUP	Run ID:	TITRATOR_090406A		Analysis Date:	04/06/09 10:59 AM			Prep Date:		04/06/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
pH		11.5	0	0	10.25				11.3	5	R

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903166
Project: RRC Petronila PZ/SW

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_090406A

Sample ID:	ICV-090406	Batch ID:	R42716		TestNo:		M4500-H+ B		Units:		pH Units
SampType:	ICV	Run ID:	TITRATOR_090406A		Analysis Date:		04/06/09 10:41 AM		Prep Date:		04/06/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
pH		9.97	0	10.00	0	99.7	99	101			

Sample ID:	CCV1-090406	Batch ID:	R42716		TestNo:		M4500-H+ B		Units:		pH Units
SampType:	CCV	Run ID:	TITRATOR_090406A		Analysis Date:		04/06/09 10:50 AM		Prep Date:		04/06/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
pH		7.03	0	7.000	0	100	97.1	102.9			

Sample ID:	CCV2-090406	Batch ID:	R42716		TestNo:		M4500-H+ B		Units:		pH Units
SampType:	CCV	Run ID:	TITRATOR_090406A		Analysis Date:		04/06/09 11:01 AM		Prep Date:		04/06/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
pH		7.07	0	7.000	0	101	97.1	102.9			

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903166
Project: RRC Petronila PZ/SW

ANALYTICAL QC SUMMARY REPORT

RunID: WC_090326A

Sample ID:	MB-34159	Batch ID:	34159		TestNo:	M2540C			Units:		mg/L
SampType:	MBLK	Run ID:	WC_090326A		Analysis Date:	03/26/09 09:00 AM			Prep Date:		03/26/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Fi		ND	10.0								

Sample ID:	LCS-34159	Batch ID:	34159		TestNo:	M2540C			Units:		mg/L
SampType:	LCS	Run ID:	WC_090326A		Analysis Date:	03/26/09 09:00 AM			Prep Date:		03/26/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Fi		756	10.0	745.6	0	101	90	113			

Sample ID:	0903165-01B DUP	Batch ID:	34159		TestNo:	M2540C			Units:		mg/L
SampType:	DUP	Run ID:	WC_090326A		Analysis Date:	03/26/09 09:00 AM			Prep Date:		03/26/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Fi		4200	10.0	0	4377				4.10	5	

Sample ID:	0903152-05B DUP	Batch ID:	34159		TestNo:	M2540C			Units:		mg/L
SampType:	DUP	Run ID:	WC_090326A		Analysis Date:	03/26/09 09:00 AM			Prep Date:		03/26/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Fi		29400	10.0	0	30440				3.34	5	

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903166
Project: RRC Petronila PZ/SW

ANALYTICAL QC SUMMARY REPORT

RunID: WC_090327A

Sample ID:	MB-34182	Batch ID:	34182		TestNo:	M2540C			Units:		mg/L
SampType:	MBLK	Run ID:	WC_090327A		Analysis Date:	03/27/09 09:30 AM			Prep Date:		03/27/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Fi		ND	10.0								

Sample ID:	LCS-34182	Batch ID:	34182		TestNo:	M2540C			Units:		mg/L
SampType:	LCS	Run ID:	WC_090327A		Analysis Date:	03/27/09 09:30 AM			Prep Date:		03/27/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Fi		746	10.0	745.6	0	100	90	113			

Sample ID:	0903166-15B DUP	Batch ID:	34182		TestNo:	M2540C			Units:		mg/L
SampType:	DUP	Run ID:	WC_090327A		Analysis Date:	03/27/09 09:30 AM			Prep Date:		03/27/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Fi		14700	10.0	0	14540				1.16	5	

Sample ID:	0903186-02C DUP	Batch ID:	34182		TestNo:	M2540C			Units:		mg/L
SampType:	DUP	Run ID:	WC_090327A		Analysis Date:	03/27/09 09:30 AM			Prep Date:		03/27/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Fi		280	10.0	0	277.0				1.08	5	

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903166
Project: RRC Petronila PZ/SW

ANALYTICAL QC SUMMARY REPORT

RunID: WC_090406A

Sample ID:	MB-34343	Batch ID:	34343		TestNo:	M2510 B			Units:		µmhos/cm
SampType:	MBLK	Run ID:	WC_090406A		Analysis Date:	04/06/09 11:20 AM			Prep Date:		04/06/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Specific Conductance		ND	10.0								

Sample ID:	LCS-34343	Batch ID:	34343		TestNo:	M2510 B			Units:		µmhos/cm
SampType:	LCS	Run ID:	WC_090406A		Analysis Date:	04/06/09 11:20 AM			Prep Date:		04/06/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Specific Conductance		1380	10.0	1413	0	97.6	95	105			

Sample ID:	0903216-09A-DUP	Batch ID:	34343		TestNo:	M2510 B			Units:		µmhos/cm
SampType:	DUP	Run ID:	WC_090406A		Analysis Date:	04/06/09 11:20 AM			Prep Date:		04/06/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Specific Conductance		42000	50.0	0	42500				1.30	2	

Sample ID:	0904018-03B-DUP	Batch ID:	34343		TestNo:	M2510 B			Units:		µmhos/cm
SampType:	DUP	Run ID:	WC_090406A		Analysis Date:	04/06/09 11:20 AM			Prep Date:		04/06/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Specific Conductance		320000	200	0	322600				0.934	2	

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903166
Project: RRC Petronila PZ/SW

ANALYTICAL QC SUMMARY REPORT

RunID: WC_090406A

Sample ID:	ICV-090406	Batch ID:	CONDW-04/06/09	TestNo:		M2510 B			Units:		µmhos/cm
SampType:	ICV	Run ID:	WC_090406A	Analysis Date:		04/06/09 11:20 AM			Prep Date:		04/06/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Specific Conductance		12900	10.0	12880	0	100	95	105			

Sample ID:	CCV1-090406	Batch ID:	CONDW-04/06/09	TestNo:		M2510 B			Units:		µmhos/cm
SampType:	CCV	Run ID:	WC_090406A	Analysis Date:		04/06/09 11:20 AM			Prep Date:		04/06/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Specific Conductance		12900	10.0	12880	0	100	95	105			

Sample ID:	CCV2-090406	Batch ID:	CONDW-04/06/09	TestNo:		M2510 B			Units:		µmhos/cm
SampType:	CCV	Run ID:	WC_090406A	Analysis Date:		04/06/09 11:20 AM			Prep Date:		04/06/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Specific Conductance		12800	10.0	12880	0	99.8	95	105			

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903166
Project: RRC Petronila PZ/SW

MQL SUMMARY REPORT

TestNo: E300 Analyte	MDL mg/L	MQL mg/L
Bromide	0.300	1.00
Chloride	0.300	1.00
Nitrate-N	0.100	0.500
Sulfate	1.00	3.00

TestNo: M2320 B Analyte	MDL mg/L	MQL mg/L
Alkalinity, Bicarbonate (As CaCO3)	10.0	20.0
Alkalinity, Carbonate (As CaCO3)	10.0	20.0
Alkalinity, Hydroxide (As CaCO3)	10.0	20.0
Alkalinity, Total (As CaCO3)	10.0	20.0

TestNo: SW6020 Analyte	MDL mg/L	MQL mg/L
Barium	0.00300	0.0100
Calcium	0.100	0.300
Iron	0.0500	0.150
Magnesium	0.100	0.300
Potassium	0.100	0.300
Sodium	0.100	0.300

TestNo: M2510 B Analyte	MDL µmhos/cm	MQL µmhos/cm
Specific Conductance	10.0	10.0

TestNo: M2540C Analyte	MDL mg/L	MQL mg/L
Total Dissolved Solids (Residue, Fi	10.0	10.0

Qualifiers:
MQL - Method Quantitation Limit as defined by TRRP
MDL - Method Detection Limit as defined by TRRP

April 09, 2009

James Harte
TRC Environmental Corp.
505 East Huntland Drive Suite 250
Austin, Texas 78752

TEL: (512) 329-6080
FAX: (512) 329-8750

Order No: 0903216

RE: RRC Petronila PZ/SW

Dear James Harte:

DHL Analytical received 9 sample(s) on 3/27/2009 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

John DuPont
Lab Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-08C-TX

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DHL ANALYTICAL

2300 Double Creek Drive • Round Rock, TX 78664
Phone (512) 388-8222 • FAX (512) 388-8229

№ 39785

CHAIN-OF-CUSTODY

CLIENT: TRC Solutions
ADDRESS: 505 E. Huntland Dr. ste. 250 Austin, TX 78752
PHONE: 512-684-3103 FAX:
DATA REPORTED TO: James Harte, Steve Miller
ADDITIONAL REPORT COPIES TO:

DATE: 03/26/09 PAGE 1 OF 1
PO #: 166420 Phase 4 DHL WORK ORDER #: 0903214
PROJECT LOCATION OR NAME: Petronila
CLIENT PROJECT #: 166420.0.0.4 COLLECTOR: J. Harte

Authorize 5% surcharge for TRRP report? ☐ Yes ☒ No

S=SOIL W=WATER A=AIR P=PAINT SL=SLUDGE OT=OTHER

PRESERVATION: HCl | HNO_3 | H_2SO_4 ☐ NaOH ☐ | ICE | UNPRESERVED

ANALYSES: BTEX ☐ MTBE ☐ | TRPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐ | GASOLINE MOD 8015 ☐ | DIESEL - MOD 8015 ☐ | VOC 8260 ☐ | SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ | 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ | 8082 PCBS ☐ | TCLP - METALS (RCRA) ☐ TCLP VOC ☐ | TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ | TOTAL METALS (RCRA) ☐ OTHER LIST ☐ | LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐ | RCI ☐ TOX ☐ FLASHPOINT ☐ | TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ | DRO ☐ HEXAVALENT CHROMIUM ☐ | EXPLOSIVES ☐ PECHLORATE ☐ | CHLORIDE ☐ AMMONIA ☐ ALKALINITY ☐ | Perchlorate Parameters per Method 6850 | Nitrate/Nitrite Parameters per Method 300.0 | Hex Chrome

Field Sample I.D.	DHL Lab #	Date	Time	Matrix	Container Type	# of Containers	HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESERVED	FIELD NOTES
P-PZ-02	01	03/26/09	12:30	W	500mL	1				X	X	Br, NO_3, Alk, pH Cond
P-PZ-01	02	"	1200	"	"	"				X	X	In accordance
P-PZ-03	03	"	1315	"	"	"						Project
P-PZ-04	04	"	1335	"	"	"						Pl: NO_3
P-PZ-05	05	"	1415	"	"	"						" QAPP/IK
P-PZ-06	06	"	1425	"	"	"						Cl, SO_4, TDS Cat/An
P-PZ-11	07	"	1530	"	"	"						Br, NO_3
P-PZ-10	08	"	1550	"	"	"						Br, NO_3, Alk
P-PZ-14	09	"	1630	"	"	"						" " "
~~P-PZ-12~~ (JH)												

TOTAL

RELINQUISHED BY: (Signature) DATE/TIME 03/26/09 ; 18:20 RECEIVED BY: (Signature) FedEx
RELINQUISHED BY: (Signature) FedEx DATE/TIME 3/27/09 0930 RECEIVED BY: (Signature)
RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature)

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TURN AROUND TIME
RUSH ☐ CALL FIRST
1 DAY ☐ CALL FIRST
2 DAY ☐
NORMAL ☒
OTHER ☐ ____

LABORATORY USE ONLY:
RECEIVING TEMP: 1.8°C THERM #: 57
CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED
☒ CARRIER BILL # FedEx
☐ APC DELIVERY
☐ HAND DELIVERED

FedEx Express US Airbill

FedEx Tracking Number 8665 9021 7763

Form ID No. 0200 Recipient's Copy

1 From

Date 07/20/09

Sender's Name J. Hartle Phone 512 684-3103

Company TRC

Address 505 E. Huntland Dr. Ste 250

Dept/Floor/Suite/Room

City Austin State TX ZIP 78752

2 Your Internal Billing Reference 166420 Ph 5

3 To

Recipient's Name Sample Receiving Phone 512 388-8222

Company DHL Annex Hub

Recipient's Address 2300 Double Creek Dr.

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept/Floor/Suite/Room

Address

To request a package be held at a specific FedEx location, print FedEx address here.

City Round Rock State TX ZIP 78664

8665 9021 7763

4a Express Package Service — Packages up to 150 lbs.

- [x] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.
- [ ] FedEx 2Day — Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

FedEx Envelope rate not available. Minimum charge: One-pound rate.

* To most locations.

4b Express Freight Service — Packages over 150 lbs.

- [ ] FedEx 1Day Freight* — Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 2Day Freight — Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available.

* Call for Confirmation: ** To most locations.

5 Packaging

- [ ] FedEx Envelope*
- [ ] FedEx Pak — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak.
- [ ] FedEx Box
- [ ] FedEx Tube
- [x] Other

* Declared value limit $500.

6 Special Handling — Include FedEx address in Section 3.

- [ ] SATURDAY Delivery — Not available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.
- [ ] HOLD Weekday at FedEx Location — Not available for FedEx First Overnight.
- [ ] HOLD Saturday at FedEx Location — Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Does this shipment contain dangerous goods? One box must be checked.

- [x] No
- [ ] Yes — As per attached Shipper's Declaration.
- [ ] Yes — Shipper's Declaration not required.
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging.

- [ ] Cargo Aircraft Only

7 Payment Bill to: Enter FedEx Acct. No. or Credit Card No. below. Obtain Recip. Acct. No.

- [x] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

Total Packages	Total Weight	Total Declared Value†
1	1 lb.	$ .00

†Our liability is limited to $100 unless you declare a higher value. See back for details. Credit Card Auth.

8 Residential Delivery Signature Options If you require a signature, check Direct or Indirect.

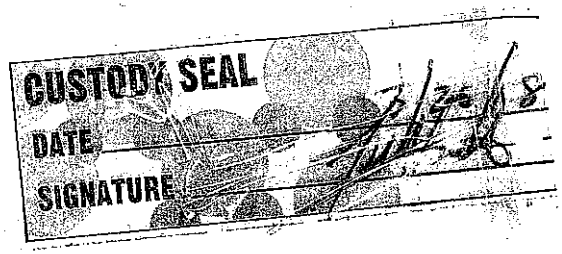
- [ ] No Signature Required — Package may be left without obtaining a signature for delivery.
- [x] Direct Signature — Someone at recipient's address may sign for delivery. Fee applies.
- [ ] Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. Fee applies.

520

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Laboratory Data Package Signature Page

This data package consists of:

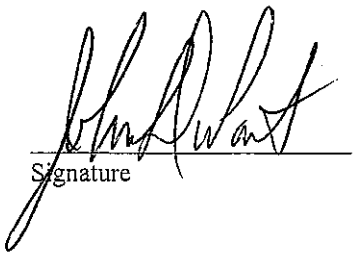
This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC 5.13
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix;
- R10 Other problems or anomalies.

The Exception Report for every "No" or "Not Reviewed (NR)" item in laboratory review checklist.

Release Statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By me signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

Scott Schroeder – Project Manager
John DuPont – General / QA Manager



Signature

04/09/09
Date

DHL Analytical, Inc.

Laboratory Review Checklist: Reportable Data

Project Name: RRC Petronila PZ/SW	Date: 4/9/09
Reviewer Name: Carlos Castro	Laboratory Work Order: 0903216
Prep Batch Number(s): See Prep Dates Report	Run Batch: See Analytical Dates Report

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-Custody (C-O-C)					
R1	OI	1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				R1-01
		2) Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and Quality Control (QC) Identification**					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test Reports**					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample quantitation limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?			X		
		7) Were % moisture (or solids) reported for all soil and sediment samples?			X		
		8) If required for the project, TICs reported?			X		
R4	O	**Surrogate Recovery Data**					
		1) Were surrogates added prior to extraction?			X		
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test Reports/Summary Forms for Blank Samples**					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Where method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations < MQL?	X				
R6	OI	**Laboratory Control Samples (LCS):**					
		1) Were all COCs included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs?	X				
		6) Was the LCSD RPD within QC limits (if applicable)?	X				
R7	OI	**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data**					
		1) Were the project/method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			R7-03
		4) Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical Duplicate Data**					
		1) Were appropriate analytical duplicates analyzed for each matrix?	X				
		2) Were analytical duplicates analyzed at the appropriate frequency?	X				
		3) Were RPDs or relative standard deviations within the laboratory QC limits?		X			R8-03
R9	OI	**Method Quantitation Limits (MQLs):**					
		1) Are the MQLs for each method analyte included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs included in the laboratory data package?	X				
R10	OI	**Other Problems/Anomalies**					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				R10-01
		2) Were all necessary corrective actions performed for the reported data?	X				
		3) Was applicable and available technology used to lower the SQL minimize the matrix interference affects on the sample results?	X				

CW 4/9/09

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

DHL Analytical, Inc.

Laboratory Review Checklist (continued): Supporting Data

Project Name: RRC Petronila PZ/SW	Date: 4/9/09
Reviewer Name: Carlos Castro	Laboratory Work Order: 0903216

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial Calibration (ICAL)**					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB):**					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass Spectral Tuning:**					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal Standards (IS):**					
		1) Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**Raw Data (NELAC section 1 appendix A glossary, and section 5.12)**					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual Column Confirmation**					
		1) Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively Identified Compounds (TICs):**					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) Results:**					
		1) Were percent recoveries within method QC limits?	X				
S9	I	**Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions**					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	OI	**Method Detection Limit (MDL) Studies**					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency Test Reports:**					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards Documentation**					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/Analyte Identification Procedures**					
		1) Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of Analyst Competency (DOC)**					
		1) Was DOC conducted consistent with NELAC Chapter 5C?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/Validation Documentation for Methods** (NELAC Chap 5)					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory Standard Operating Procedures (SOPs):**					
		1) Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

DHL Analytical

Sample Receipt Checklist

Client Name TRC Environmental Corp. Date Received: 3/27/2009

Work Order Number 0903216 Received by AK

Checklist completed by: Signature 3/27/09 Date Reviewed by Initials 03/27/09 Date

Carrier name: FedEx 1day

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	1.8 °C
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	Not Applicable ☑

Adjusted? _____ Checked by _____

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

DHL Analytical Date: 04/09/09

CLIENT: TRC Environmental Corp.
Project: RRC Petronila PZ/SW
Lab Order: 0903216

CASE NARRATIVE

The samples were analyzed using the methods outlined in the following references:

Method SW6020 - Metals Analysis
Method E300 - Anions Analysis
Method M2320 B (18th Edition) - Alkalinity Analysis
Method M2510 B (18th Edition) - Specific Conductance
Method M2540C (18th Edition) - TDS Analysis
Method M4500-H+ B (18th Edition) - pH of a Water

Exception Report R1-01

Samples were received and log-in performed on 3/71/09 . A total of 9 samples were received. The samples arrived in good condition and were properly packaged.

Exception Report R7-03

For Metals analysis performed on 4/1/09 the matrix spike recovery was above control limits for a few analytes. These are flagged accordingly in the QC summary report. The reference sample selected for the matrix spike and matrix spike duplicate was from this work order. The LCS was within control limits for these analytes. No further corrective actions were taken.

Exception Report R8-03

For pH of a Water analysis performed on 4/6/09 the sample and sample duplicate (0904051-02B & 0904051-02B DUP) had the RPD above control limits. This is flagged accordingly in the QC summary report. The other sample and sample duplicate (0903216-03A & 0903216-03A DUP) was within control limits. No further corrective actions were taken.

Exception Report R10-01

Ten of the sample locations produced low volumes of water during the sample event of March 20, 2009 and the client prioritized the analysis as follows: Anions (chloride & sulfate), TDS, Metals and Alkalinity. On March 26, 2009 the client collected additional volumes of water for nine of the ten wells. These samples are in work order 0903216. Any testing that could not be performed on the 3/20/09 sample because of limited volume was analyzed on the 3/26/09 samples from the same well. Sample P-PZ-13 was collected on 3/20/09 and was not re-collected on 3/26/09. There was sufficient sample volume to analyze all tests.

CLIENT: TRC Environmental Corp.
Project: RRC Petronila PZ/SW
Lab Order: 0903216

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recv'd
0903216-01	P-PZ-02		03/26/09 12:30 PM	03/27/09
0903216-02	P-PZ-01		03/26/09 12:00 PM	03/27/09
0903216-03	P-PZ-03		03/26/09 01:15 PM	03/27/09
0903216-04	P-PZ-04		03/26/09 01:35 PM	03/27/09
0903216-05	P-PZ-05		03/26/09 02:15 PM	03/27/09
0903216-06	P-PZ-06		03/26/09 02:25 PM	03/27/09
0903216-07	P-PZ-11		03/26/09 03:30 PM	03/27/09
0903216-08	P-PZ-10		03/26/09 03:50 PM	03/27/09
0903216-09	P-PZ-14		03/26/09 04:30 PM	03/27/09

CLIENT: TRC Environmental Corp.
Project: RRC Petronila PZ/SW
Lab Order: 0903216

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
0903216-01A	P-PZ-02	03/26/09 12:30 PM	Aqueous	E300	Anion Preparation	03/27/09 08:30 AM	34185
	P-PZ-02	03/26/09 12:30 PM	Aqueous	M2320 B	Alkalinity Preparation	04/02/09 11:15 AM	34279
	P-PZ-02	03/26/09 12:30 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/31/09 10:51 AM	34229
	P-PZ-02	03/26/09 12:30 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/31/09 10:51 AM	34229
	P-PZ-02	03/26/09 12:30 PM	Aqueous	M4500-H+ B	pH Preparation	04/06/09 11:09 AM	34329
	P-PZ-02	03/26/09 12:30 PM	Aqueous	M2510 B	Conductivity Preparation	04/06/09 11:20 AM	34343
0903216-02A	P-PZ-01	03/26/09 12:00 PM	Aqueous	E300	Anion Preparation	03/27/09 08:30 AM	34185
	P-PZ-01	03/26/09 12:00 PM	Aqueous	M2320 B	Alkalinity Preparation	04/02/09 11:15 AM	34279
	P-PZ-01	03/26/09 12:00 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/31/09 10:51 AM	34229
	P-PZ-01	03/26/09 12:00 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/31/09 10:51 AM	34229
	P-PZ-01	03/26/09 12:00 PM	Aqueous	M4500-H+ B	pH Preparation	04/06/09 11:09 AM	34329
	P-PZ-01	03/26/09 12:00 PM	Aqueous	M2510 B	Conductivity Preparation	04/06/09 11:20 AM	34343
0903216-03A	P-PZ-03	03/26/09 01:15 PM	Aqueous	E300	Anion Preparation	03/27/09 08:30 AM	34185
	P-PZ-03	03/26/09 01:15 PM	Aqueous	M2320 B	Alkalinity Preparation	04/02/09 11:15 AM	34279
	P-PZ-03	03/26/09 01:15 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/31/09 10:51 AM	34229
	P-PZ-03	03/26/09 01:15 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/31/09 10:51 AM	34229
	P-PZ-03	03/26/09 01:15 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/31/09 10:51 AM	34229
	P-PZ-03	03/26/09 01:15 PM	Aqueous	M4500-H+ B	pH Preparation	04/06/09 11:09 AM	34329
	P-PZ-03	03/26/09 01:15 PM	Aqueous	M2510 B	Conductivity Preparation	04/06/09 11:20 AM	34343
0903216-04A	P-PZ-04	03/26/09 01:35 PM	Aqueous	E300	Anion Preparation	03/27/09 08:30 AM	34185
	P-PZ-04	03/26/09 01:35 PM	Aqueous	M4500-H+ B	pH Preparation	04/06/09 11:09 AM	34329
	P-PZ-04	03/26/09 01:35 PM	Aqueous	M2510 B	Conductivity Preparation	04/06/09 11:20 AM	34343
0903216-05A	P-PZ-05	03/26/09 02:15 PM	Aqueous	E300	Anion Preparation	03/27/09 08:30 AM	34185
	P-PZ-05	03/26/09 02:15 PM	Aqueous	M2320 B	Alkalinity Preparation	04/02/09 11:15 AM	34279
	P-PZ-05	03/26/09 02:15 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/31/09 10:51 AM	34229
	P-PZ-05	03/26/09 02:15 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/31/09 10:51 AM	34229
	P-PZ-05	03/26/09 02:15 PM	Aqueous	M4500-H+ B	pH Preparation	04/06/09 11:09 AM	34329
	P-PZ-05	03/26/09 02:15 PM	Aqueous	M2510 B	Conductivity Preparation	04/06/09 11:20 AM	34343
0903216-06A	P-PZ-06	03/26/09 02:25 PM	Aqueous	E300	Anion Preparation	03/27/09 08:30 AM	34185

CLIENT: TRC Environmental Corp.
Project: RRC Petronila PZ/SW
Lab Order: 0903216

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
	P-PZ-06	03/26/09 02:25 PM	Aqueous	E300	Anion Preparation	03/27/09 08:30 AM	34185
	P-PZ-06	03/26/09 02:25 PM	Aqueous	E300	Anion Preparation	03/27/09 08:30 AM	34185
	P-PZ-06	03/26/09 02:25 PM	Aqueous	M2320 B	Alkalinity Preparation	04/02/09 11:15 AM	34279
	P-PZ-06	03/26/09 02:25 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/31/09 10:51 AM	34229
	P-PZ-06	03/26/09 02:25 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/31/09 10:51 AM	34229
	P-PZ-06	03/26/09 02:25 PM	Aqueous	M4500-H+ B	pH Preparation	04/06/09 11:09 AM	34329
	P-PZ-06	03/26/09 02:25 PM	Aqueous	M2510 B	Conductivity Preparation	04/06/09 11:20 AM	34343
	P-PZ-06	03/26/09 02:25 PM	Aqueous	M2540C	TDS Preparation	04/02/09 05:00 PM	34292
0903216-07A	P-PZ-11	03/26/09 03:30 PM	Aqueous	E300	Anion Preparation	03/27/09 08:30 AM	34185
	P-PZ-11	03/26/09 03:30 PM	Aqueous	M4500-H+ B	pH Preparation	04/06/09 11:09 AM	34329
	P-PZ-11	03/26/09 03:30 PM	Aqueous	M2510 B	Conductivity Preparation	04/06/09 11:20 AM	34343
0903216-08A	P-PZ-10	03/26/09 03:50 PM	Aqueous	E300	Anion Preparation	03/27/09 08:30 AM	34185
	P-PZ-10	03/26/09 03:50 PM	Aqueous	M2320 B	Alkalinity Preparation	04/03/09 11:23 AM	34307
	P-PZ-10	03/26/09 03:50 PM	Aqueous	M4500-H+ B	pH Preparation	04/06/09 11:09 AM	34329
	P-PZ-10	03/26/09 03:50 PM	Aqueous	M2510 B	Conductivity Preparation	04/06/09 11:20 AM	34343
0903216-09A	P-PZ-14	03/26/09 04:30 PM	Aqueous	E300	Anion Preparation	03/27/09 08:30 AM	34185
	P-PZ-14	03/26/09 04:30 PM	Aqueous	M2320 B	Alkalinity Preparation	04/03/09 11:23 AM	34307
	P-PZ-14	03/26/09 04:30 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/31/09 10:51 AM	34229
	P-PZ-14	03/26/09 04:30 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/31/09 10:51 AM	34229
	P-PZ-14	03/26/09 04:30 PM	Aqueous	M4500-H+ B	pH Preparation	04/06/09 11:09 AM	34329
	P-PZ-14	03/26/09 04:30 PM	Aqueous	M2510 B	Conductivity Preparation	04/06/09 11:20 AM	34343

CLIENT: TRC Environmental Corp.
Project: RRC Petronila PZ/SW
Lab Order: 0903216

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
0903216-01A	P-PZ-02	Aqueous	M2320 B	Alkalinity	34279	1	04/02/09 12:07 PM	TITRATOR_090402B
	P-PZ-02	Aqueous	E300	Anions by IC method - Water	34185	10	03/27/09 04:31 PM	IC_090327B
	P-PZ-02	Aqueous	M4500-H+ B	pH	34329	1	04/06/09 10:43 AM	TITRATOR_090406A
	P-PZ-02	Aqueous	M2510 B	Specific Conductance	34343	5	04/06/09 11:20 AM	WC_090406A
	P-PZ-02	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34229	1	03/31/09 09:00 PM	ICP-MS3_090331A
	P-PZ-02	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34229	200	04/01/09 02:35 PM	ICP-MS3_090401A
0903216-02A	P-PZ-01	Aqueous	M2320 B	Alkalinity	34279	1	04/02/09 12:11 PM	TITRATOR_090402B
	P-PZ-01	Aqueous	E300	Anions by IC method - Water	34185	5	03/27/09 04:46 PM	IC_090327B
	P-PZ-01	Aqueous	M4500-H+ B	pH	34329	1	04/06/09 10:44 AM	TITRATOR_090406A
	P-PZ-01	Aqueous	M2510 B	Specific Conductance	34343	2	04/06/09 11:20 AM	WC_090406A
	P-PZ-01	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34229	1	03/31/09 09:06 PM	ICP-MS3_090331A
	P-PZ-01	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34229	50	04/01/09 02:40 PM	ICP-MS3_090401A
0903216-03A	P-PZ-03	Aqueous	M2320 B	Alkalinity	34279	1	04/02/09 12:20 PM	TITRATOR_090402B
	P-PZ-03	Aqueous	E300	Anions by IC method - Water	34185	5	03/27/09 05:02 PM	IC_090327B
	P-PZ-03	Aqueous	M4500-H+ B	pH	34329	1	04/06/09 10:45 AM	TITRATOR_090406A
	P-PZ-03	Aqueous	M2510 B	Specific Conductance	34343	2	04/06/09 11:20 AM	WC_090406A
	P-PZ-03	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34229	1	03/31/09 09:11 PM	ICP-MS3_090331A
	P-PZ-03	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34229	100	04/01/09 12:20 PM	ICP-MS3_090401A
	P-PZ-03	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34229	1	04/01/09 03:42 PM	ICP-MS3_090401A
0903216-04A	P-PZ-04	Aqueous	E300	Anions by IC method - Water	34185	10	03/27/09 05:18 PM	IC_090327B
	P-PZ-04	Aqueous	M4500-H+ B	pH	34329	1	04/06/09 10:48 AM	TITRATOR_090406A
	P-PZ-04	Aqueous	M2510 B	Specific Conductance	34343	5	04/06/09 11:20 AM	WC_090406A
0903216-05A	P-PZ-05	Aqueous	M2320 B	Alkalinity	34279	1	04/02/09 12:24 PM	TITRATOR_090402B
	P-PZ-05	Aqueous	E300	Anions by IC method - Water	34185	10	03/27/09 05:32 PM	IC_090327B
	P-PZ-05	Aqueous	M4500-H+ B	pH	34329	1	04/06/09 10:49 AM	TITRATOR_090406A
	P-PZ-05	Aqueous	M2510 B	Specific Conductance	34343	5	04/06/09 11:20 AM	WC_090406A
	P-PZ-05	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34229	1	03/31/09 09:16 PM	ICP-MS3_090331A
	P-PZ-05	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34229	100	04/01/09 02:45 PM	ICP-MS3_090401A
0903216-06A	P-PZ-06	Aqueous	M2320 B	Alkalinity	34279	1	04/02/09 12:30 PM	TITRATOR_090402B

CLIENT: TRC Environmental Corp.
Project: RRC Petronila PZ/SW
Lab Order: 0903216

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
	P-PZ-06	Aqueous	E300	Anions by IC method - Water	34185	10	03/27/09 06:02 PM	IC_090327B
	P-PZ-06	Aqueous	E300	Anions by IC method - Water	34185	100	03/31/09 03:10 PM	IC_090331B
	P-PZ-06	Aqueous	E300	Anions by IC method - Water	34185	1000	03/31/09 04:44 PM	IC_090331B
	P-PZ-06	Aqueous	M4500-H+ B	pH	34329	1	04/06/09 10:51 AM	TITRATOR_090406A
	P-PZ-06	Aqueous	M2510 B	Specific Conductance	34343	5	04/06/09 11:20 AM	WC_090406A
	P-PZ-06	Aqueous	M2540C	Total Dissolved Solids	34292	1	04/02/09 05:00 PM	WC_090402D
	P-PZ-06	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34229	1	03/31/09 09:21 PM	ICP-MS3_090331A
	P-PZ-06	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34229	200	04/01/09 02:50 PM	ICP-MS3_090401A
0903216-07A	P-PZ-11	Aqueous	E300	Anions by IC method - Water	34185	5	03/27/09 06:16 PM	IC_090327B
	P-PZ-11	Aqueous	M4500-H+ B	pH	34329	1	04/06/09 10:53 AM	TITRATOR_090406A
	P-PZ-11	Aqueous	M2510 B	Specific Conductance	34343	2	04/06/09 11:20 AM	WC_090406A
0903216-08A	P-PZ-10	Aqueous	M2320 B	Alkalinity	34307	1	04/03/09 10:57 AM	TITRATOR_090403A
	P-PZ-10	Aqueous	E300	Anions by IC method - Water	34185	10	03/27/09 06:31 PM	IC_090327B
	P-PZ-10	Aqueous	M4500-H+ B	pH	34329	1	04/06/09 10:54 AM	TITRATOR_090406A
	P-PZ-10	Aqueous	M2510 B	Specific Conductance	34343	2	04/06/09 11:20 AM	WC_090406A
0903216-09A	P-PZ-14	Aqueous	M2320 B	Alkalinity	34307	1	04/03/09 11:06 AM	TITRATOR_090403A
	P-PZ-14	Aqueous	E300	Anions by IC method - Water	34185	10	03/27/09 06:46 PM	IC_090327B
	P-PZ-14	Aqueous	M4500-H+ B	pH	34329	1	04/06/09 10:55 AM	TITRATOR_090406A
	P-PZ-14	Aqueous	M2510 B	Specific Conductance	34343	5	04/06/09 11:20 AM	WC_090406A
	P-PZ-14	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34229	100	04/01/09 12:51 PM	ICP-MS3_090401A
	P-PZ-14	Aqueous	SW6020	Trace Metals: ICP-MS - Water	34229	1	04/01/09 04:08 PM	ICP-MS3_090401A

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-PZ-02
Project:	RRC Petronila PZ/SW	Lab ID:	0903216-01
Project No:	166420.0.0.4	Collection Date:	03/26/09 12:30 PM
Lab Order:	0903216	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		**SW6020**					**Analyst: CZ**
Barium	0.160	0.0150	0.0500		mg/L	1	03/31/09 09:00 PM
Calcium	1640	100	300		mg/L	200	04/01/09 02:35 PM
Iron	4.98	0.250	0.750		mg/L	1	03/31/09 09:00 PM
Magnesium	354	100	300		mg/L	200	04/01/09 02:35 PM
Potassium	23.2	0.500	1.50		mg/L	1	03/31/09 09:00 PM
Sodium	6620	100	300		mg/L	200	04/01/09 02:35 PM
Anions by IC method - Water		**E300**					**Analyst: JBC**
Bromide	38.3	3.00	10.0		mg/L	10	03/27/09 04:31 PM
Nitrate-N	ND	1.00	5.00		mg/L	10	03/27/09 04:31 PM
Alkalinity		**M2320 B**					**Analyst: JBC**
Alkalinity, Bicarbonate (As CaCO3)	298	10.0	20.0		mg/L	1	04/02/09 12:07 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	04/02/09 12:07 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	04/02/09 12:07 PM
Alkalinity, Total (As CaCO3)	298	10.0	20.0		mg/L	1	04/02/09 12:07 PM
pH		**M4500-H+ B**					**Analyst: JBC**
pH	7.37	0	0		pH Units	1	04/06/09 10:43 AM
Specific Conductance		**M2510 B**					**Analyst: AAD**
Specific Conductance	46400	50.0	50.0		µmhos/cm	5	04/06/09 11:20 AM

Qualifiers:

	See Final Page of Report for MQLs and MDLs
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between SDL and RL
N	Parameter not NELAC certified
ND	Not Detected at the SDL
RL	Reporting Limit (MQL adjusted for moisture and sample size)
S	Spike Recovery outside control limits
SDL	Sample Detection Limit

DHL Analytical

Date: 04/09/09

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-PZ-01
Project:	RRC Petronila PZ/SW	Lab ID:	0903216-02
Project No:	166420.0.0.4	Collection Date:	03/26/09 12:00 PM
Lab Order:	0903216	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		**SW6020**					**Analyst: CZ**
Barium	0.982	0.0150	0.0500		mg/L	1	03/31/09 09:06 PM
Calcium	1270	25.0	75.0		mg/L	50	04/01/09 02:40 PM
Iron	8.44	0.250	0.750		mg/L	1	03/31/09 09:06 PM
Magnesium	133	25.0	75.0		mg/L	50	04/01/09 02:40 PM
Potassium	23.3	0.500	1.50		mg/L	1	03/31/09 09:06 PM
Sodium	1150	25.0	75.0		mg/L	50	04/01/09 02:40 PM
Anions by IC method - Water		**E300**					**Analyst: JBC**
Bromide	15.6	1.50	5.00		mg/L	5	03/27/09 04:46 PM
Nitrate-N	ND	0.500	2.50		mg/L	5	03/27/09 04:46 PM
Alkalinity		**M2320 B**					**Analyst: JBC**
Alkalinity, Bicarbonate (As CaCO3)	290	10.0	20.0		mg/L	1	04/02/09 12:11 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	04/02/09 12:11 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	04/02/09 12:11 PM
Alkalinity, Total (As CaCO3)	290	10.0	20.0		mg/L	1	04/02/09 12:11 PM
pH		**M4500-H+ B**					**Analyst: JBC**
pH	7.30	0	0		pH Units	1	04/06/09 10:44 AM
Specific Conductance		**M2510 B**					**Analyst: AAD**
Specific Conductance	14800	20.0	20.0		µmhos/cm	2	04/06/09 11:20 AM

Qualifiers:

	See Final Page of Report for MQLs and MDLs
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between SDL and RL
N	Parameter not NELAC certified
ND	Not Detected at the SDL
RL	Reporting Limit (MQL adjusted for moisture and sample size)
S	Spike Recovery outside control limits
SDL	Sample Detection Limit

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-PZ-03
Project:	RRC Petronila PZ/SW	Lab ID:	0903216-03
Project No:	166420.0.0.4	Collection Date:	03/26/09 01:15 PM
Lab Order:	0903216	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		**SW6020**					**Analyst: CZ**
Barium	0.106	0.0150	0.0500		mg/L	1	04/01/09 03:42 PM
Calcium	1120	50.0	150		mg/L	100	04/01/09 12:20 PM
Iron	0.668	0.250	0.750	J	mg/L	1	04/01/09 03:42 PM
Magnesium	334	50.0	150		mg/L	100	04/01/09 12:20 PM
Potassium	30.5	0.500	1.50		mg/L	1	04/01/09 03:42 PM
Sodium	2990	50.0	150		mg/L	100	04/01/09 12:20 PM
Anions by IC method - Water		**E300**					**Analyst: JBC**
Bromide	22.0	1.50	5.00		mg/L	5	03/27/09 05:02 PM
Nitrate-N	ND	0.500	2.50		mg/L	5	03/27/09 05:02 PM
Alkalinity		**M2320 B**					**Analyst: JBC**
Alkalinity, Bicarbonate (As CaCO3)	393	10.0	20.0		mg/L	1	04/02/09 12:20 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	04/02/09 12:20 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	04/02/09 12:20 PM
Alkalinity, Total (As CaCO3)	393	10.0	20.0		mg/L	1	04/02/09 12:20 PM
pH		**M4500-H+ B**					**Analyst: JBC**
pH	7.47	0	0		pH Units	1	04/06/09 10:45 AM
Specific Conductance		**M2510 B**					**Analyst: AAD**
Specific Conductance	23400	20.0	20.0		µmhos/cm	2	04/06/09 11:20 AM

Qualifiers:

	See Final Page of Report for MQLs and MDLs
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between SDL and RL
N	Parameter not NELAC certified
ND	Not Detected at the SDL
RL	Reporting Limit (MQL adjusted for moisture and sample size)
S	Spike Recovery outside control limits
SDL	Sample Detection Limit

DHL Analytical

Date: 04/09/09

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-PZ-04
Project:	RRC Petronila PZ/SW	Lab ID:	0903216-04
Project No:	166420.0.0.4	Collection Date:	03/26/09 01:35 PM
Lab Order:	0903216	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Anions by IC method - Water		**E300**					**Analyst: JBC**
Bromide	33.2	3.00	10.0		mg/L	10	03/27/09 05:18 PM
Nitrate-N	2.80	1.00	5.00	J	mg/L	10	03/27/09 05:18 PM
pH		**M4500-H+ B**					**Analyst: JBC**
pH	6.96	0	0		pH Units	1	04/06/09 10:48 AM
Specific Conductance		**M2510 B**					**Analyst: AAD**
Specific Conductance	44800	50.0	50.0		µmhos/cm	5	04/06/09 11:20 AM

Qualifiers:

	See Final Page of Report for MQLs and MDLs
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between SDL and RL
N	Parameter not NELAC certified
ND	Not Detected at the SDL
RL	Reporting Limit (MQL adjusted for moisture and sample size)
S	Spike Recovery outside control limits
SDL	Sample Detection Limit

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-PZ-05
Project:	RRC Petronila PZ/SW	Lab ID:	0903216-05
Project No:	166420.0.0.4	Collection Date:	03/26/09 02:15 PM
Lab Order:	0903216	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		**SW6020**					**Analyst: CZ**
Barium	1.01	0.0150	0.0500		mg/L	1	03/31/09 09:16 PM
Calcium	2900	50.0	150		mg/L	100	04/01/09 02:45 PM
Iron	13.9	0.250	0.750		mg/L	1	03/31/09 09:16 PM
Magnesium	297	50.0	150		mg/L	100	04/01/09 02:45 PM
Potassium	45.2	0.500	1.50		mg/L	1	03/31/09 09:16 PM
Sodium	804	50.0	150		mg/L	100	04/01/09 02:45 PM
Anions by IC method - Water		**E300**					**Analyst: JBC**
Bromide	29.0	3.00	10.0		mg/L	10	03/27/09 05:32 PM
Nitrate-N	ND	1.00	5.00		mg/L	10	03/27/09 05:32 PM
Alkalinity		**M2320 B**					**Analyst: JBC**
Alkalinity, Bicarbonate (As CaCO3)	242	10.0	20.0		mg/L	1	04/02/09 12:24 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	04/02/09 12:24 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	04/02/09 12:24 PM
Alkalinity, Total (As CaCO3)	242	10.0	20.0		mg/L	1	04/02/09 12:24 PM
pH		**M4500-H+ B**					**Analyst: JBC**
pH	7.09	0	0		pH Units	1	04/06/09 10:49 AM
Specific Conductance		**M2510 B**					**Analyst: AAD**
Specific Conductance	26800	50.0	50.0		µmhos/cm	5	04/06/09 11:20 AM

Qualifiers:

	See Final Page of Report for MQLs and MDLs
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between SDL and RL
N	Parameter not NELAC certified
ND	Not Detected at the SDL
RL	Reporting Limit (MQL adjusted for moisture and sample size)
S	Spike Recovery outside control limits
SDL	Sample Detection Limit

DHL Analytical

Date: 04/09/09

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-PZ-06
Project:	RRC Petronila PZ/SW	Lab ID:	0903216-06
Project No:	166420.0.0.4	Collection Date:	03/26/09 02:25 PM
Lab Order:	0903216	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		**SW6020**					**Analyst: CZ**
Barium	0.189	0.0150	0.0500		mg/L	1	03/31/09 09:21 PM
Calcium	2060	100	300		mg/L	200	04/01/09 02:50 PM
Iron	1.79	0.250	0.750		mg/L	1	03/31/09 09:21 PM
Magnesium	407	100	300		mg/L	200	04/01/09 02:50 PM
Potassium	23.2	0.500	1.50		mg/L	1	03/31/09 09:21 PM
Sodium	5620	100	300		mg/L	200	04/01/09 02:50 PM
Anions by IC method - Water		**E300**					**Analyst: JBC**
Bromide	36.2	3.00	10.0		mg/L	10	03/27/09 06:02 PM
Chloride	16300	300	1000		mg/L	1000	03/31/09 04:44 PM
Nitrate-N	ND	1.00	5.00		mg/L	10	03/27/09 06:02 PM
Sulfate	1950	100	300		mg/L	100	03/31/09 03:10 PM
Alkalinity		**M2320 B**					**Analyst: JBC**
Alkalinity, Bicarbonate (As CaCO3)	293	10.0	20.0		mg/L	1	04/02/09 12:30 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	04/02/09 12:30 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	04/02/09 12:30 PM
Alkalinity, Total (As CaCO3)	293	10.0	20.0		mg/L	1	04/02/09 12:30 PM
pH		**M4500-H+ B**					**Analyst: JBC**
pH	6.96	0	0		pH Units	1	04/06/09 10:51 AM
Specific Conductance		**M2510 B**					**Analyst: AAD**
Specific Conductance	45200	50.0	50.0		µmhos/cm	5	04/06/09 11:20 AM
Total Dissolved Solids		**M2540C**					**Analyst: AAD**
Total Dissolved Solids (Residue, Filterable)	27300	10.0	10.0		mg/L	1	04/02/09 05:00 PM

Qualifiers:

	See Final Page of Report for MQLs and MDLs
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between SDL and RL
N	Parameter not NELAC certified
ND	Not Detected at the SDL
RL	Reporting Limit (MQL adjusted for moisture and sample size)
S	Spike Recovery outside control limits
SDL	Sample Detection Limit

DHL Analytical

Date: 04/09/09

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-PZ-11
Project:	RRC Petronila PZ/SW	Lab ID:	0903216-07
Project No:	166420.0.0.4	Collection Date:	03/26/09 03:30 PM
Lab Order:	0903216	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Anions by IC method - Water		**E300**					**Analyst: JBC**
Bromide	16.0	1.50	5.00		mg/L	5	03/27/09 06:16 PM
Nitrate-N	22.7	0.500	2.50		mg/L	5	03/27/09 06:16 PM
pH		**M4500-H+ B**					**Analyst: JBC**
pH	7.10	0	0		pH Units	1	04/06/09 10:53 AM
Specific Conductance		**M2510 B**					**Analyst: AAD**
Specific Conductance	21900	20.0	20.0		µmhos/cm	2	04/06/09 11:20 AM

Qualifiers:

	See Final Page of Report for MQLs and MDLs
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between SDL and RL
N	Parameter not NELAC certified
ND	Not Detected at the SDL
RL	Reporting Limit (MQL adjusted for moisture and sample size)
S	Spike Recovery outside control limits
SDL	Sample Detection Limit

DHL Analytical

Date: 04/09/09

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-PZ-10
Project:	RRC Petronila PZ/SW	Lab ID:	0903216-08
Project No:	166420.0.0.4	Collection Date:	03/26/09 03:50 PM
Lab Order:	0903216	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Anions by IC method - Water		**E300**					**Analyst: JBC**
Bromide	23.6	3.00	10.0		mg/L	10	03/27/09 06:31 PM
Nitrate-N	ND	1.00	5.00		mg/L	10	03/27/09 06:31 PM
Alkalinity		**M2320 B**					**Analyst: JBC**
Alkalinity, Bicarbonate (As CaCO3)	397	10.0	20.0		mg/L	1	04/03/09 10:57 AM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	04/03/09 10:57 AM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	04/03/09 10:57 AM
Alkalinity, Total (As CaCO3)	397	10.0	20.0		mg/L	1	04/03/09 10:57 AM
pH		**M4500-H+ B**					**Analyst: JBC**
pH	7.04	0	0		pH Units	1	04/06/09 10:54 AM
Specific Conductance		**M2510 B**					**Analyst: AAD**
Specific Conductance	29600	20.0	20.0		µmhos/cm	2	04/06/09 11:20 AM

Qualifiers:

	See Final Page of Report for MQLs and MDLs
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between SDL and RL
N	Parameter not NELAC certified
ND	Not Detected at the SDL
RL	Reporting Limit (MQL adjusted for moisture and sample size)
S	Spike Recovery outside control limits
SDL	Sample Detection Limit

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-PZ-14
Project:	RRC Petronila PZ/SW	Lab ID:	0903216-09
Project No:	166420.0.0.4	Collection Date:	03/26/09 04:30 PM
Lab Order:	0903216	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		**SW6020**					**Analyst: CZ**
Barium	0.223	0.0150	0.0500		mg/L	1	04/01/09 04:08 PM
Calcium	2580	50.0	150		mg/L	100	04/01/09 12:51 PM
Iron	3.18	0.250	0.750		mg/L	1	04/01/09 04:08 PM
Magnesium	622	50.0	150		mg/L	100	04/01/09 12:51 PM
Potassium	13.7	0.500	1.50		mg/L	1	04/01/09 04:08 PM
Sodium	4640	50.0	150		mg/L	100	04/01/09 12:51 PM
Anions by IC method - Water		**E300**					**Analyst: JBC**
Bromide	37.5	3.00	10.0		mg/L	10	03/27/09 06:46 PM
Nitrate-N	ND	1.00	5.00		mg/L	10	03/27/09 06:46 PM
Alkalinity		**M2320 B**					**Analyst: JBC**
Alkalinity, Bicarbonate (As CaCO3)	288	10.0	20.0		mg/L	1	04/03/09 11:06 AM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	04/03/09 11:06 AM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	04/03/09 11:06 AM
Alkalinity, Total (As CaCO3)	288	10.0	20.0		mg/L	1	04/03/09 11:06 AM
pH		**M4500-H+ B**					**Analyst: JBC**
pH	7.29	0	0		pH Units	1	04/06/09 10:55 AM
Specific Conductance		**M2510 B**					**Analyst: AAD**
Specific Conductance	42500	50.0	50.0		µmhos/cm	5	04/06/09 11:20 AM

Qualifiers:

	See Final Page of Report for MQLs and MDLs
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between SDL and RL
N	Parameter not NELAC certified
ND	Not Detected at the SDL
RL	Reporting Limit (MQL adjusted for moisture and sample size)
S	Spike Recovery outside control limits
SDL	Sample Detection Limit

CLIENT: TRC Environmental Corp.
Work Order: 0903216
Project: RRC Petronila PZ/SW

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_090331A

Sample ID:	ICV1-090331	Batch ID:	R42622	TestNo:	SW6020	Units:	mg/L
SampType:	ICV	Run ID:	ICP-MS3_090331A	Analysis Date:	03/31/09 12:36 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.101	0.0100	0.100	0	101	90	110			
Iron	2.58	0.150	2.50	0	103	90	110			
Potassium	2.51	0.300	2.50	0	100	90	110			

Sample ID:	CCV8-090331	Batch ID:	R42622	TestNo:	SW6020	Units:	mg/L
SampType:	CCV	Run ID:	ICP-MS3_090331A	Analysis Date:	03/31/09 08:19 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.199	0.0100	0.200	0	99.6	90	110			
Iron	4.71	0.150	5.00	0	94.2	90	110			
Potassium	5.03	0.300	5.00	0	101	90	110			

Sample ID:	CCV9-090331	Batch ID:	R42622	TestNo:	SW6020	Units:	mg/L
SampType:	CCV	Run ID:	ICP-MS3_090331A	Analysis Date:	03/31/09 09:46 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.200	0.0100	0.200	0	100	90	110			
Iron	4.77	0.150	5.00	0	95.4	90	110			
Potassium	4.98	0.300	5.00	0	99.6	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903216
Project: RRC Petronila PZ/SW

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_090401A

Sample ID:	MB-34229	Batch ID:	34229		TestNo:		SW6020		Units:		mg/L
SampType:	MBLK	Run ID:	ICP-MS3_090401A		Analysis Date:		04/01/09 11:50 AM		Prep Date:		03/31/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium		ND	0.0100								
Calcium		ND	0.300								
Iron		ND	0.150								
Magnesium		ND	0.300								
Potassium		ND	0.300								
Sodium		ND	0.300								

Sample ID:	LCS-34229	Batch ID:	34229		TestNo:		SW6020		Units:		mg/L
SampType:	LCS	Run ID:	ICP-MS3_090401A		Analysis Date:		04/01/09 12:10 PM		Prep Date:		03/31/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium		0.197	0.0100	0.200	0	98.6	80	120			
Calcium		4.85	0.300	5.00	0	97.0	80	120			
Iron		4.85	0.150	5.00	0	97.0	80	120			
Magnesium		4.73	0.300	5.00	0	94.5	80	120			
Potassium		4.95	0.300	5.00	0	99.0	80	120			
Sodium		4.80	0.300	5.00	0	96.0	80	120			

Sample ID:	LCSD-34229	Batch ID:	34229		TestNo:		SW6020		Units:		mg/L
SampType:	LCSD	Run ID:	ICP-MS3_090401A		Analysis Date:		04/01/09 12:15 PM		Prep Date:		03/31/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium		0.196	0.0100	0.200	0	97.8	80	120	0.815	15	
Calcium		4.78	0.300	5.00	0	95.6	80	120	1.54	15	
Iron		4.75	0.150	5.00	0	95.1	80	120	2.06	15	
Magnesium		4.69	0.300	5.00	0	93.7	80	120	0.850	15	
Potassium		4.92	0.300	5.00	0	98.4	80	120	0.608	15	
Sodium		4.75	0.300	5.00	0	95.0	80	120	1.05	15	

Sample ID:	0903216-03A SD	Batch ID:	34229		TestNo:		SW6020		Units:		mg/L
SampType:	SD	Run ID:	ICP-MS3_090401A		Analysis Date:		04/01/09 12:25 PM		Prep Date:		03/31/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium		1070	750	0	1120				4.85	10	
Magnesium		340	750	0	334				1.82	10	
Sodium		2830	750	0	2990				5.41	10	

Sample ID:	0903216-03A PDS	Batch ID:	34229		TestNo:		SW6020		Units:		mg/L
SampType:	PDS	Run ID:	ICP-MS3_090401A		Analysis Date:		04/01/09 12:31 PM		Prep Date:		03/31/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium		3640	150	2500	1120	101	75	125			
Magnesium		2710	150	2500	334	94.9	75	125			
Sodium		5340	150	2500	2990	94.1	75	125			

Sample ID:	0903216-03A MS	Batch ID:	34229		TestNo:		SW6020		Units:		mg/L
SampType:	MS	Run ID:	ICP-MS3_090401A		Analysis Date:		04/01/09 12:36 PM		Prep Date:		03/31/09

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903216
Project: RRC Petronila PZ/SW

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_090401A

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	1170	150	25.0	1120	188	80	120			S
Magnesium	365	150	25.0	334	125	80	120			S
Sodium	3100	150	25.0	2990	466	80	120			S

Sample ID: 0903216-03A MSD | Batch ID: 34229 | TestNo: SW6020 | Units: mg/L
SampType: MSD | Run ID: ICP-MS3_090401A | Analysis Date: 04/01/09 12:41 PM | Prep Date: 03/31/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	1140	150	25.0	1120	106	80	120	1.77	15	
Magnesium	357	150	25.0	334	90.6	80	120	2.40	15	
Sodium	3010	150	25.0	2990	96.0	80	120	3.03	15	

Sample ID: 0903216-03A SD | Batch ID: 34229 | TestNo: SW6020 | Units: mg/L
SampType: SD | Run ID: ICP-MS3_090401A | Analysis Date: 04/01/09 03:47 PM | Prep Date: 03/31/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.108	0.250	0	0.106				1.00	10	
Iron	0	3.75	0	0.668				0	10	
Potassium	30.2	7.50	0	30.5				0.889	10	

Sample ID: 0903216-03A PDS | Batch ID: 34229 | TestNo: SW6020 | Units: mg/L
SampType: PDS | Run ID: ICP-MS3_090401A | Analysis Date: 04/01/09 03:53 PM | Prep Date: 03/31/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	1.08	0.0500	1.00	0.106	97.8	75	125			
Iron	25.2	0.750	25.0	0.668	98.1	75	125			
Potassium	53.2	1.50	25.0	30.5	90.8	75	125			

Sample ID: 0903216-03A MS | Batch ID: 34229 | TestNo: SW6020 | Units: mg/L
SampType: MS | Run ID: ICP-MS3_090401A | Analysis Date: 04/01/09 03:58 PM | Prep Date: 03/31/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	1.12	0.0500	1.00	0.106	101	80	120			
Iron	25.0	0.750	25.0	0.668	97.3	80	120			
Potassium	54.6	1.50	25.0	30.5	96.2	80	120			

Sample ID: 0903216-03A MSD | Batch ID: 34229 | TestNo: SW6020 | Units: mg/L
SampType: MSD | Run ID: ICP-MS3_090401A | Analysis Date: 04/01/09 04:03 PM | Prep Date: 03/31/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	1.10	0.0500	1.00	0.106	99.6	80	120	1.35	15	
Iron	24.9	0.750	25.0	0.668	96.8	80	120	0.441	15	
Potassium	54.4	1.50	25.0	30.5	95.8	80	120	0.183	15	

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903216
Project: RRC Petronila PZ/SW

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_090401A

Sample ID:	ICV1-090401	Batch ID:	R42647	TestNo:	SW6020	Units:	mg/L
SampType:	ICV	Run ID:	ICP-MS3_090401A	Analysis Date:	04/01/09 11:15 AM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.100	0.0100	0.100	0	101	90	110			
Calcium	2.50	0.300	2.50	0	99.8	90	110			
Iron	2.64	0.150	2.50	0	106	90	110			
Magnesium	2.46	0.300	2.50	0	98.4	90	110			
Potassium	2.52	0.300	2.50	0	101	90	110			
Sodium	2.41	0.300	2.50	0	96.2	90	110			

Sample ID:	CCV1-090401	Batch ID:	R42647	TestNo:	SW6020	Units:	mg/L
SampType:	CCV	Run ID:	ICP-MS3_090401A	Analysis Date:	04/01/09 12:56 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.197	0.0100	0.200	0	98.7	90	110			
Calcium	4.92	0.300	5.00	0	98.5	90	110			
Iron	4.89	0.150	5.00	0	97.9	90	110			
Magnesium	4.85	0.300	5.00	0	97.0	90	110			
Potassium	5.07	0.300	5.00	0	101	90	110			
Sodium	4.92	0.300	5.00	0	98.4	90	110			

Sample ID:	CCV2-090401	Batch ID:	R42647	TestNo:	SW6020	Units:	mg/L
SampType:	CCV	Run ID:	ICP-MS3_090401A	Analysis Date:	04/01/09 02:04 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	4.80	0.300	5.00	0	96.0	90	110			
Magnesium	4.78	0.300	5.00	0	95.7	90	110			
Sodium	4.84	0.300	5.00	0	96.8	90	110			

Sample ID:	CCV3-090401	Batch ID:	R42647	TestNo:	SW6020	Units:	mg/L
SampType:	CCV	Run ID:	ICP-MS3_090401A	Analysis Date:	04/01/09 02:56 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	4.99	0.300	5.00	0	99.8	90	110			
Magnesium	4.90	0.300	5.00	0	98.0	90	110			
Sodium	4.95	0.300	5.00	0	99.0	90	110			

Sample ID:	CCV4-090401	Batch ID:	R42647	TestNo:	SW6020	Units:	mg/L
SampType:	CCV	Run ID:	ICP-MS3_090401A	Analysis Date:	04/01/09 03:31 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.198	0.0100	0.200	0	98.8	90	110			
Iron	4.88	0.150	5.00	0	97.6	90	110			
Potassium	5.04	0.300	5.00	0	101	90	110			

Sample ID:	CCV5-090401	Batch ID:	R42647	TestNo:	SW6020	Units:	mg/L
SampType:	CCV	Run ID:	ICP-MS3_090401A	Analysis Date:	04/01/09 04:13 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.198	0.0100	0.200	0	99.2	90	110			
Iron	4.96	0.150	5.00	0	99.2	90	110			
Potassium	5.08	0.300	5.00	0	102	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903216
Project: RRC Petronila PZ/SW

ANALYTICAL QC SUMMARY REPORT

RunID: IC_090327B

Sample ID:	LCS-34185	Batch ID:	34185		TestNo:		E300		Units:		mg/L
SampType:	LCS	Run ID:	IC_090327B		Analysis Date:		03/27/09 09:32 AM		Prep Date:		03/27/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide		20.7	1.00	20.00	0	103	90	110			
Nitrate-N		5.22	0.500	5.000	0	104	90	110			

Sample ID:	LCSD-34185	Batch ID:	34185		TestNo:		E300		Units:		mg/L
SampType:	LCSD	Run ID:	IC_090327B		Analysis Date:		03/27/09 09:48 AM		Prep Date:		03/27/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide		20.7	1.00	20.00	0	103	90	110	0.0363	20	
Nitrate-N		5.22	0.500	5.000	0	104	90	110	0.142	20	

Sample ID:	MB-34185	Batch ID:	34185		TestNo:		E300		Units:		mg/L
SampType:	MBLK	Run ID:	IC_090327B		Analysis Date:		03/27/09 10:03 AM		Prep Date:		03/27/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide		ND	1.00	0							
Nitrate-N		ND	0.500	0							

Sample ID:	0903215-01B MS	Batch ID:	34185		TestNo:		E300		Units:		mg/L
SampType:	MS	Run ID:	IC_090327B		Analysis Date:		03/27/09 03:43 PM		Prep Date:		03/27/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide		20.1	1.00	20.00	0.7300	97.0	90	110			
Nitrate-N		4.97	0.500	5.000	0	99.3	90	110			

Sample ID:	0903215-01B MSD	Batch ID:	34185		TestNo:		E300		Units:		mg/L
SampType:	MSD	Run ID:	IC_090327B		Analysis Date:		03/27/09 03:59 PM		Prep Date:		03/27/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide		20.2	1.00	20.00	0.7300	97.5	90	110	0.446	20	
Nitrate-N		4.98	0.500	5.000	0	99.7	90	110	0.384	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903216
Project: RRC Petronila PZ/SW

ANALYTICAL QC SUMMARY REPORT

RunID: IC_090327B

Sample ID:	ICV-090327	Batch ID:	R42569		TestNo:		E300		Units:		mg/L
SampType:	ICV	Run ID:	IC_090327B		Analysis Date:		03/27/09 09:03 AM		Prep Date:		03/27/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide		53.1	1.00	50.00	0	106	90	110			
Nitrate-N		13.4	0.500	12.50	0	107	90	110			

Sample ID:	CCV1-090327	Batch ID:	R42569		TestNo:		E300		Units:		mg/L
SampType:	CCV	Run ID:	IC_090327B		Analysis Date:		03/27/09 10:53 AM		Prep Date:		03/27/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide		20.7	1.00	20.00	0	103	90	110			
Nitrate-N		5.24	0.500	5.000	0	105	90	110			

Sample ID:	CCV2-090327	Batch ID:	R42569		TestNo:		E300		Units:		mg/L
SampType:	CCV	Run ID:	IC_090327B		Analysis Date:		03/27/09 02:52 PM		Prep Date:		03/27/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide		20.6	1.00	20.00	0	103	90	110			
Nitrate-N		5.19	0.500	5.000	0	104	90	110			

Sample ID:	CCV3-090327	Batch ID:	R42569		TestNo:		E300		Units:		mg/L
SampType:	CCV	Run ID:	IC_090327B		Analysis Date:		03/27/09 05:47 PM		Prep Date:		03/27/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide		20.6	1.00	20.00	0	103	90	110			
Nitrate-N		5.20	0.500	5.000	0	104	90	110			

Sample ID:	CCV4-090327	Batch ID:	R42569		TestNo:		E300		Units:		mg/L
SampType:	CCV	Run ID:	IC_090327B		Analysis Date:		03/27/09 07:44 PM		Prep Date:		03/27/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide		20.6	1.00	20.00	0	103	90	110			
Nitrate-N		5.20	0.500	5.000	0	104	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903216
Project: RRC Petronila PZ/SW

ANALYTICAL QC SUMMARY REPORT

RunID: IC_090331B

Sample ID:	LCS-34185	Batch ID:	34185		TestNo:		E300		Units:		mg/L
SampType:	LCS	Run ID:	IC_090331B		Analysis Date:		03/31/09 09:32 AM		Prep Date:		03/27/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		10.2	1.00	10.00	0	102	90	110			
Sulfate		30.6	3.00	30.00	0	102	90	110			

Sample ID:	LCSD-34185	Batch ID:	34185		TestNo:		E300		Units:		mg/L
SampType:	LCSD	Run ID:	IC_090331B		Analysis Date:		03/31/09 09:48 AM		Prep Date:		03/27/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		10.2	1.00	10.00	0	102	90	110	0.205	20	
Sulfate		30.6	3.00	30.00	0	102	90	110	0.173	20	

Sample ID:	MB-34185	Batch ID:	34185		TestNo:		E300		Units:		mg/L
SampType:	MBLK	Run ID:	IC_090331B		Analysis Date:		03/31/09 10:03 AM		Prep Date:		03/27/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		ND	1.00								
Sulfate		ND	3.00								

Sample ID:	0903215-01B MS	Batch ID:	34185		TestNo:		E300		Units:		mg/L
SampType:	MS	Run ID:	IC_090331B		Analysis Date:		03/31/09 11:36 AM		Prep Date:		03/27/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		30.8	1.00	10.00	21.45	93.8	90	110			
Sulfate		84.5	3.00	30.00	52.98	105	90	110			

Sample ID:	0903215-01B MSD	Batch ID:	34185		TestNo:		E300		Units:		mg/L
SampType:	MSD	Run ID:	IC_090331B		Analysis Date:		03/31/09 11:52 AM		Prep Date:		03/27/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		30.8	1.00	10.00	21.45	93.1	90	110	0.207	20	
Sulfate		83.7	3.00	30.00	52.98	102	90	110	0.917	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903216
Project: RRC Petronila PZ/SW

ANALYTICAL QC SUMMARY REPORT

RunID: IC_090331B

Sample ID:	ICV-090331	Batch ID:	R42603		TestNo:		E300		Units:		mg/L
SampType:	ICV	Run ID:	IC_090331B		Analysis Date:		03/31/09 09:10 AM		Prep Date:		03/31/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		25.8	1.00	25.00	0	103	90	110			
Sulfate		77.8	3.00	75.00	0	104	90	110			

Sample ID:	CCV1-090331	Batch ID:	R42603		TestNo:		E300		Units:		mg/L
SampType:	CCV	Run ID:	IC_090331B		Analysis Date:		03/31/09 12:08 PM		Prep Date:		03/31/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		10.1	1.00	10.00	0	101	90	110			
Sulfate		30.5	3.00	30.00	0	102	90	110			

Sample ID:	CCV2-090331	Batch ID:	R42603		TestNo:		E300		Units:		mg/L
SampType:	CCV	Run ID:	IC_090331B		Analysis Date:		03/31/09 02:52 PM		Prep Date:		03/31/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		10.5	1.00	10.00	0	105	90	110			
Sulfate		30.8	3.00	30.00	0	103	90	110			

Sample ID:	CCV3-090331	Batch ID:	R42603		TestNo:		E300		Units:		mg/L
SampType:	CCV	Run ID:	IC_090331B		Analysis Date:		03/31/09 05:47 PM		Prep Date:		03/31/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		10.2	1.00	10.00	0	102	90	110			
Sulfate		30.6	3.00	30.00	0	102	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903216
Project: RRC Petronila PZ/SW

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_090402B

Sample ID:	MB-34279	Batch ID:	34279	TestNo:	M2320 B	Units:	mg/L
SampType:	MBLK	Run ID:	TITRATOR_090402B	Analysis Date:	04/02/09 10:45 AM	Prep Date:	04/02/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	ND	20.0								
Alkalinity, Carbonate (As CaCO3)	ND	20.0								
Alkalinity, Hydroxide (As CaCO3)	ND	20.0								
Alkalinity, Total (As CaCO3)	ND	20.0								

Sample ID:	LCS-34279	Batch ID:	34279	TestNo:	M2320 B	Units:	mg/L
SampType:	LCS	Run ID:	TITRATOR_090402B	Analysis Date:	04/02/09 10:48 AM	Prep Date:	04/02/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	54.6	20.0	50.00	0	109	74	129			

Sample ID:	0903183-08D DUP	Batch ID:	34279	TestNo:	M2320 B	Units:	mg/L
SampType:	DUP	Run ID:	TITRATOR_090402B	Analysis Date:	04/02/09 11:04 AM	Prep Date:	04/02/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	265	20.0	0	261.8				1.21	20	
Alkalinity, Carbonate (As CaCO3)	0	20.0	0	0				0	20	
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0	0				0	20	
Alkalinity, Total (As CaCO3)	265	20.0	0	261.8				1.21	20	

Sample ID:	0903216-02A DUP	Batch ID:	34279	TestNo:	M2320 B	Units:	mg/L
SampType:	DUP	Run ID:	TITRATOR_090402B	Analysis Date:	04/02/09 12:15 PM	Prep Date:	04/02/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	288	20.0	0	290.4				0.969	20	
Alkalinity, Carbonate (As CaCO3)	0	20.0	0	0				0	20	
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0	0				0	20	
Alkalinity, Total (As CaCO3)	288	20.0	0	290.4				0.969	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903216
Project: RRC Petronila PZ/SW

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_090402B

Sample ID:	ICV-090402	Batch ID:	R42660	TestNo:	M2320 B	Units:	mg/L
SampType:	ICV	Run ID:	TITRATOR_090402B	Analysis Date:	04/02/09 10:43 AM	Prep Date:	04/02/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	11.8	20.0	0							
Alkalinity, Carbonate (As CaCO3)	88.8	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0							
Alkalinity, Total (As CaCO3)	101	20.0	100.0	0	101	98	102			

Sample ID:	CCV1-090402	Batch ID:	R42660	TestNo:	M2320 B	Units:	mg/L
SampType:	CCV	Run ID:	TITRATOR_090402B	Analysis Date:	04/02/09 11:43 AM	Prep Date:	04/02/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	16.2	20.0	0							
Alkalinity, Carbonate (As CaCO3)	84.8	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0							
Alkalinity, Total (As CaCO3)	101	20.0	100.0	0	101	90	110			

Sample ID:	CCV2-090402	Batch ID:	R42660	TestNo:	M2320 B	Units:	mg/L
SampType:	CCV	Run ID:	TITRATOR_090402B	Analysis Date:	04/02/09 12:35 PM	Prep Date:	04/02/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	16.8	20.0	0							
Alkalinity, Carbonate (As CaCO3)	83.7	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0							
Alkalinity, Total (As CaCO3)	100	20.0	100.0	0	100	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903216
Project: RRC Petronila PZ/SW

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_090403A

Sample ID:	MB-34307	Batch ID:	34307		TestNo:		M2320 B		Units:		mg/L
SampType:	MBLK	Run ID:	TITRATOR_090403A		Analysis Date:		04/03/09 10:49 AM		Prep Date:		04/03/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)		ND	20.0								
Alkalinity, Carbonate (As CaCO3)		ND	20.0								
Alkalinity, Hydroxide (As CaCO3)		ND	20.0								
Alkalinity, Total (As CaCO3)		ND	20.0								

Sample ID:	LCS-34307	Batch ID:	34307		TestNo:		M2320 B		Units:		mg/L
SampType:	LCS	Run ID:	TITRATOR_090403A		Analysis Date:		04/03/09 10:53 AM		Prep Date:		04/03/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)		54.9	20.0	50.00	0	110	74	129			

Sample ID:	0903216-08A DUP	Batch ID:	34307		TestNo:		M2320 B		Units:		mg/L
SampType:	DUP	Run ID:	TITRATOR_090403A		Analysis Date:		04/03/09 11:02 AM		Prep Date:		04/03/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)		391	20.0	0	396.6				1.52	20	
Alkalinity, Carbonate (As CaCO3)		0	20.0	0	0				0	20	
Alkalinity, Hydroxide (As CaCO3)		0	20.0	0	0				0	20	
Alkalinity, Total (As CaCO3)		391	20.0	0	396.6				1.52	20	

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903216
Project: RRC Petronila PZ/SW

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_090403A

Sample ID:	ICV-090403	Batch ID:	R42682	TestNo:	M2320 B	Units:	mg/L
SampType:	ICV	Run ID:	TITRATOR_090403A	Analysis Date:	04/03/09 10:46 AM	Prep Date:	04/03/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	12.2	20.0	0							
Alkalinity, Carbonate (As CaCO3)	85.9	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0							
Alkalinity, Total (As CaCO3)	98.1	20.0	100.0	0	98.1	98	102			

Sample ID:	CCV-090403	Batch ID:	R42682	TestNo:	M2320 B	Units:	mg/L
SampType:	CCV	Run ID:	TITRATOR_090403A	Analysis Date:	04/03/09 12:05 PM	Prep Date:	04/03/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	18.4	20.0	0							
Alkalinity, Carbonate (As CaCO3)	79.8	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0							
Alkalinity, Total (As CaCO3)	98.2	20.0	100.0	0	98.2	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903216
Project: RRC Petronila PZ/SW

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_090406A

Sample ID:	0903216-03A DUP	Batch ID:	34329		TestNo:	M4500-H+ B			Units:		pH Units
SampType:	DUP	Run ID:	TITRATOR_090406A		Analysis Date:	04/06/09 10:47 AM			Prep Date:		04/06/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
pH		7.49	0	0	7.470				0.267	5	

Sample ID:	0904051-02B DUP	Batch ID:	34329		TestNo:	M4500-H+ B			Units:		pH Units
SampType:	DUP	Run ID:	TITRATOR_090406A		Analysis Date:	04/06/09 10:59 AM			Prep Date:		04/06/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
pH		11.5	0	0	10.25				11.3	5	R

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903216
Project: RRC Petronila PZ/SW

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_090406A

Sample ID:	ICV-090406	Batch ID:	R42716	TestNo:		M4500-H+ B		Units:		pH Units
SampType:	ICV	Run ID:	TITRATOR_090406A	Analysis Date:		04/06/09 10:41 AM		Prep Date:		04/06/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit Qual
pH		9.97	0	10.00	0	99.7	99	101		

Sample ID:	CCV1-090406	Batch ID:	R42716	TestNo:		M4500-H+ B		Units:		pH Units
SampType:	CCV	Run ID:	TITRATOR_090406A	Analysis Date:		04/06/09 10:50 AM		Prep Date:		04/06/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit Qual
pH		7.03	0	7.000	0	100	97.1	102.9		

Sample ID:	CCV2-090406	Batch ID:	R42716	TestNo:		M4500-H+ B		Units:		pH Units
SampType:	CCV	Run ID:	TITRATOR_090406A	Analysis Date:		04/06/09 11:01 AM		Prep Date:		04/06/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit Qual
pH		7.07	0	7.000	0	101	97.1	102.9		

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903216
Project: RRC Petronila PZ/SW

ANALYTICAL QC SUMMARY REPORT

RunID: WC_090402D

Sample ID:	MB-34292	Batch ID:	34292		TestNo:	M2540C			Units:		mg/L
SampType:	MBLK	Run ID:	WC_090402D		Analysis Date:	04/02/09 05:00 PM			Prep Date:		04/02/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Fi		ND	10.0								

Sample ID:	LCS-34292	Batch ID:	34292		TestNo:	M2540C			Units:		mg/L
SampType:	LCS	Run ID:	WC_090402D		Analysis Date:	04/02/09 05:00 PM			Prep Date:		04/02/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Fi		780	10.0	745.6	0	105	90	113			

Sample ID:	0903216-06A-DUP	Batch ID:	34292		TestNo:	M2540C			Units:		mg/L
SampType:	DUP	Run ID:	WC_090402D		Analysis Date:	04/02/09 05:00 PM			Prep Date:		04/02/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Fi		26700	10.0	0	27300				2.22	5	

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903216
Project: RRC Petronila PZ/SW

ANALYTICAL QC SUMMARY REPORT

RunID: WC_090406A

Sample ID:	MB-34343	Batch ID:	34343		TestNo:	M2510 B			Units:		µmhos/cm
SampType:	MBLK	Run ID:	WC_090406A		Analysis Date:	04/06/09 11:20 AM			Prep Date:		04/06/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Specific Conductance		ND	10.0								

Sample ID:	LCS-34343	Batch ID:	34343		TestNo:	M2510 B			Units:		µmhos/cm
SampType:	LCS	Run ID:	WC_090406A		Analysis Date:	04/06/09 11:20 AM			Prep Date:		04/06/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Specific Conductance		1380	10.0	1413	0	97.6	95	105			

Sample ID:	0903216-09A-DUP	Batch ID:	34343		TestNo:	M2510 B			Units:		µmhos/cm
SampType:	DUP	Run ID:	WC_090406A		Analysis Date:	04/06/09 11:20 AM			Prep Date:		04/06/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Specific Conductance		42000	50.0	0	42500				1.30	2	

Sample ID:	0904018-03B-DUP	Batch ID:	34343		TestNo:	M2510 B			Units:		µmhos/cm
SampType:	DUP	Run ID:	WC_090406A		Analysis Date:	04/06/09 11:20 AM			Prep Date:		04/06/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Specific Conductance		320000	200	0	322600				0.934	2	

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903216
Project: RRC Petronila PZ/SW

ANALYTICAL QC SUMMARY REPORT

RunID: WC_090406A

Sample ID:	ICV-090406	Batch ID:	CONDW-04/06/09	TestNo:		M2510 B			Units:		µmhos/cm
SampType:	ICV	Run ID:	WC_090406A	Analysis Date:		04/06/09 11:20 AM			Prep Date:		04/06/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Specific Conductance		12900	10.0	12880	0	100	95	105			

Sample ID:	CCV1-090406	Batch ID:	CONDW-04/06/09	TestNo:		M2510 B			Units:		µmhos/cm
SampType:	CCV	Run ID:	WC_090406A	Analysis Date:		04/06/09 11:20 AM			Prep Date:		04/06/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Specific Conductance		12900	10.0	12880	0	100	95	105			

Sample ID:	CCV2-090406	Batch ID:	CONDW-04/06/09	TestNo:		M2510 B			Units:		µmhos/cm
SampType:	CCV	Run ID:	WC_090406A	Analysis Date:		04/06/09 11:20 AM			Prep Date:		04/06/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Specific Conductance		12800	10.0	12880	0	99.8	95	105			

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0903216
Project: RRC Petronila PZ/SW

MQL SUMMARY REPORT

TestNo: E300 Analyte	MDL mg/L	MQL mg/L
Bromide	0.300	1.00
Chloride	0.300	1.00
Nitrate-N	0.100	0.500
Sulfate	1.00	3.00

TestNo: M2320 B Analyte	MDL mg/L	MQL mg/L
Alkalinity, Bicarbonate (As CaCO3)	10.0	20.0
Alkalinity, Carbonate (As CaCO3)	10.0	20.0
Alkalinity, Hydroxide (As CaCO3)	10.0	20.0
Alkalinity, Total (As CaCO3)	10.0	20.0

TestNo: SW6020 Analyte	MDL mg/L	MQL mg/L
Barium	0.00300	0.0100
Calcium	0.100	0.300
Iron	0.0500	0.150
Magnesium	0.100	0.300
Potassium	0.100	0.300
Sodium	0.100	0.300

TestNo: M2510 B Analyte	MDL µmhos/cm	MQL µmhos/cm
Specific Conductance	10.0	10.0

TestNo: M2540C Analyte	MDL mg/L	MQL mg/L
Total Dissolved Solids (Residue, Fi	10.0	10.0

Qualifiers:
MQL - Method Quantitation Limit as defined by TRRP
MDL - Method Detection Limit as defined by TRRP

Data Review Report

Site:	Petronila Creek
Laboratory:	DHL Analytical – Round Rock, Texas
Work Order(s):	0903125, 0903142, 0903151, 0903152, 0903166
Reviewer:	Steve Miller/TRC Environmental Corporation
Date:	April 10, 2009

Table 1: Samples Reviewed

Matrix	TRC Sample ID	Collection Date	Lab Sample ID
Aqueous	P-MW-26	3/17/2009	0903125-01
Aqueous	P-MW-27	3/17/2009	0903125-02
Aqueous	P-MW-30	3/17/2009	0903125-03
Aqueous	P-MW-29	3/17/2009	0903125-04
Aqueous	P-MW-28	3/17/2009	0903125-05
Aqueous	P-MW-25	3/17/2009	0903125-06
Aqueous	P-MW-24	3/17/2009	0903125-07
Aqueous	P-MW-23	3/17/2009	0903125-08
Aqueous	P-MW-01	3/18/2009	0903142-01
Aqueous	P-MW-02	3/18/2009	0903142-02
Aqueous	P-D3-MW-27	3/18/2009	0903142-03
Aqueous	P-D3-MW-27-D	3/18/2009	0903142-04
Aqueous	P-MW-03	3/18/2009	0903142-05
Aqueous	P-MW-22	3/18/2009	0903142-06
Aqueous	P-MW-15	3/18/2009	0903142-07
Aqueous	P-MW-14	3/18/2009	0903142-08
Aqueous	P-MW-13	3/18/2009	0903142-09
Aqueous	P-MW-16	3/18/2009	0903142-10
Aqueous	P-D2-MW-12	3/18/2009	0903142-11
Aqueous	P-MW-12	3/18/2009	0903142-12
Aqueous	P-MW-20	3/18/2009	0903142-13
Aqueous	P-MW-21	3/18/2009	0903142-14
Aqueous	P-MW-18	3/18/2009	0903142-15
Aqueous	P-D-01	3/19/2009	0903151-01
Aqueous	P-PZ-07	3/19/2009	0903151-02
Aqueous	P-PZ-07-D	3/19/2009	0903151-03
Aqueous	P-PZ-08	3/19/2009	0903151-04

Table 1: Samples Reviewed (continued)

Matrix	TRC Sample ID	Collection Date	Lab Sample ID
Aqueous	P-MW-17	3/19/2009	0903152-01
Aqueous	P-MW-19	3/19/2009	0903152-02
Aqueous	P-MW-4	3/19/2009	0903152-03
Aqueous	P-MW-5	3/19/2009	0903152-04
Aqueous	P-MW-6	3/19/2009	0903152-05
Aqueous	P-MW-7	3/19/2009	0903152-06
Aqueous	P-MW-8	3/19/2009	0903152-07
Aqueous	P-EB-W-03-19-09-1	3/19/2009	0903152-08
Aqueous	P-MW-09	3/20/2009	0903165-01
Aqueous	P-MW-10	3/20/2009	0903165-02
Aqueous	P-MW-11	3/20/2009	0903165-03
Aqueous	P-MW-10-D	3/20/2009	0903165-04
Aqueous	P-EB-W-03-20-09-01	3/20/2009	0903165-05
Aqueous	P-D-02	3/20/2009	0903166-01
Aqueous	P-PZ-02	3/19/2009	0903166-02
Aqueous	P-PZ-03	3/19/2009	0903166-03
Aqueous	P-PZ-04	3/19/2009	0903166-04
Aqueous	P-PZ-05	3/19/2009	0903166-05
Aqueous	P-PZ-14	3/19/2009	0903166-06
Aqueous	P-PZ-01	3/19/2009	0903166-07
Aqueous	P-PZ-10	3/20/2009	0903166-08
Aqueous	P-CS-13A	3/20/2009	0903166-09
Aqueous	P-PZ-11	3/20/2009	0903166-10
Aqueous	P-CS-14	3/20/2009	0903166-11
Aqueous	P-D-09	3/20/2009	0903166-12
Aqueous	P-CS-11	3/20/2009	0903166-13
Aqueous	P-CS-11-D	3/20/2009	0903166-14
Aqueous	P-CS-09	3/20/2009	0903166-15
Aqueous	P-CS-06	3/20/2009	0903166-16
Aqueous	P-CS-02	3/20/2009	0903166-17
Aqueous	P-CS-04	3/20/2009	0903166-18
Aqueous	P-PZ-13	3/20/2009	0903166-19
Aqueous	P-CS-21	3/20/2009	0903166-20
Aqueous	P-EB-W-3-20-09-02	3/20/2009	0903166-21
Aqueous	P-EB-W-3-20-09-03	3/20/2009	0903166-22
Aqueous	P-PZ-02	3/26/2009	0903216-01
Aqueous	P-PZ-01	3/26/2009	0903216-02
Aqueous	P-PZ-03	3/26/2009	0903216-03

Aqueous	P-PZ-04	3/26/2009	0903216-04
Aqueous	P-PZ-05	3/26/2009	0903216-05
Aqueous	P-PZ-06	3/26/2009	0903216-06
Aqueous	P-PZ-11	3/26/2009	0903216-07
Aqueous	P-PZ-10	3/26/2009	0903216-08
Aqueous	P-PZ-14	3/26/2009	0903216-09

The samples listed in Table 1 were analyzed for:

- Barium, Calcium, Iron, Magnesium, Potassium, and Sodium by SW846 Method 6020
- Bromide, Chloride, Nitrate, and Sulfate by U.S. EPA Method 300.0
- Alkalinity by Standard Method (SM) 2320 B
- pH by SM 4500-H+ B
- Specific Conductance by SM 2510 B
- Total Dissolved Solids (TDS) by SM 2540 C

Data review was performed in accordance with the *Investigation of Increased Salinity Along Petronila Creek (Segment 2204) Quality Assurance Project Plan* (March 7, 2008) (the QAPP). QAPP-specified recovery limits were used for evaluation criteria.

Sensitivity

All reporting limits for undetected analytes are at or below the required reporting limit specified in QAPP Table A7.1. This indicates that sample results were generated using analytical methodology and instruments with sufficiently low detection limits.

Temperature and Holding Times

Maximum holding times and temperature guidelines are established for each method to ensure that analyses are conducted prior to possible changes in analyte concentration over time and that analyte concentrations do not change due to temperature fluctuations.

Samples were received at the laboratory adequately preserved. Most sample preparations and analyses were performed within the EPA-recommended holding times specified in QAPP Table B2.1. The following issues were identified regarding holding times and preservation:

- Samples P-MW-03, P-MW-22, P-MW-15, P-MW-14, P-MW-13, P-MW-16, P-MW-12, P-MW-20, P-MW-21, and P-MW-18 were analyzed 1 day past the QAPP-specified holding time for TDS. This finding is indicative of a likely low bias for TDS in the listed samples.

- Sample P-PZ-13 was analyzed for nitrate seven days after collection. The QAPP-required holding time for nitrate is 48 hours after collection. The reported concentration of nitrate in sample P-PZ-13 may be biased low due to the extended time between collection and analysis.

Method Blanks

A method blank is an aliquot of reagent matrix taken through the analytical process as though it were an actual sample. The purpose of a method blank analysis is to monitor for laboratory sources of contamination.

Most target analytes were not detected in reported method blank analyses. These results indicate that laboratory's efforts to adequately control contamination were largely successful. The following interpretation issues were identified:

- TDS was detected at the reporting limit (10.0 mg/L) in the method blank associated with batch 34098 in work order 0903125. No data interpretation issues are indicated since reported concentrations of TDS in all associated samples are more one thousand times the blank concentration.
- TDS was also detected at the reporting limit (10.0 mg/L) in the method blank associated with batch 34109 in work order 0903142. No data interpretation issues are indicated since reported concentrations of TDS in all associated samples are more one hundred times the blank concentration.

Equipment Blanks

Equipment blanks are aliquots of analyte-free water that are poured over decontaminated sample collection equipment, collected in sample containers, and submitted to the laboratory for analysis. The purpose of an equipment blank is to monitor for sources of contamination present due to inadequate equipment decontamination.

Low-level values for specific conductance and TDS are reported in P-EB-W-03-19-09-1. No data interpretation issues are indicated since the equipment blank concentrations are miniscule compared to associated field sample concentrations.

Sodium was detected (0.254 mg/L) in the equipment blank identified as P-EB-W-03-20-09-01. Again, no data interpretation issues are indicated because detected concentrations of sodium in associated samples are more than three thousand times the equipment blank concentration.

Laboratory Control Samples

To assess the preparatory and analytical accuracy and precision in the absence of matrix effects, laboratory control sample (LCS) analyses were performed. Target analytes are spiked at known concentrations into analyte-free matrix and processed (prepared and analyzed) with the project samples.

All recoveries of spiked analytes reported in LCS analyses are within acceptance criteria indicating adequate laboratory control at the time of sample analysis.

Matrix Spikes

A matrix spike sample is a field sample that is spiked at known concentrations with target analytes. Both spiked and unspiked aliquots of this sample are analyzed. This type of spiked sample is analyzed to assess matrix effects for the specific sites associated with the investigation as well as on the preparatory and analytical procedures.

All recoveries and relative percent difference (RPD) values are within QAPP-specified control limits and no data interpretation issues are indicated for the following:

- Sample P-MW-24 for barium and iron
- Sample P-MW-26 for chloride and sulfate
- Sample P-MW-16 for barium, iron, potassium, bromide, nitrate, chloride, and sulfate
- Sample P-MW-01 for chloride and sulfate
- Sample P-PZ-07 for bromide, chloride, sulfate, and nitrate
- Sample P-CS-02 for chloride and sulfate
- Sample P-MW-09 for bromide and nitrate
- Sample P-CS-09 for chloride and sulfate
- Sample P-PZ-02 for chloride and sulfate

The following recoveries and/or RPD values do not meet QAPP-defined limits:

- Recoveries of calcium, sodium, magnesium, and potassium are outside of QAPP-specified limits in the MS/MSD analyses of sample P-MW-24. No data interpretation issues are indicated for any listed analyte since detected concentrations of calcium, sodium, magnesium, and potassium in the un-spiked analysis of sample P-MW-24 are more than ten times the spiking concentration.
- Recoveries of bromide and nitrate are greater than QAPP-defined limits in the MS/MSD analysis of sample P-MW-26. These results are indicative of a likely high bias for detected concentrations of bromide and nitrate in the un-spiked analysis of P-MW-26. These high biases may extend to other samples collected as part of this project.
- Recoveries of calcium, magnesium, and sodium are outside of QAPP-specified limits in the MS/MSD analyses of sample P-MW-16. No data interpretation issues are indicated for any listed analyte since detected concentrations of calcium, sodium, and magnesium in the un-spiked analysis of sample P-MW-24 are more than ninety times the spiking concentration.

- Recoveries of iron, calcium, magnesium, and sodium are outside QAPP-specified limits in the MS/MSD analysis of sample P-PZ-07. No data interpretation issues are indicated for calcium, magnesium, and sodium since detected concentrations of these analytes in the un-spiked analysis of sample P-PZ-07 are more than seventy times the spiking concentration. Low iron recoveries are indicative of a low bias in the un-spiked analysis of P-PZ-07 due to matrix interferences. This low bias for iron may also extend to other samples collected as part of this project.
- Recoveries of calcium, magnesium, and sodium are greater than QAPP-specified limits in the MS/MSD analyses of sample P-CS-09. No data interpretation issues are indicated for any listed analyte since detected concentrations of calcium, sodium, and magnesium in the un-spiked analysis of sample P-MW-24 are more than forty times the spiking concentration.
- Recoveries of calcium and sodium are greater than QAPP-specified limits in the MS/MSD analyses of sample P-PZ-11. No data interpretation issues are indicated for any listed analyte since detected concentrations of calcium and sodium in the un-spiked analysis of sample P-PZ-11 are more than forty times the spiking concentration.
- Recoveries of calcium, magnesium, and sodium are greater than QAPP-specified limits in the MS analyses of sample P-PZ-03. No data interpretation issues are indicated for any listed analyte since recoveries of calcium, sodium, and magnesium in the MSD analysis of sample P-PZ-03 are within limits. It is also noted that concentrations of calcium, sodium, and magnesium in the un-spiked analysis of sample P-PZ-03 are more than ten times the spiking concentration.
- Recoveries of calcium, magnesium, and sodium are greater than QAPP-specified limits in the MS analyses of sample P-MW-09. No data interpretation issues are indicated for calcium and magnesium since recoveries in the MSD analysis of sample P-MW-09 are within limits. Both recoveries of sodium are greater than control limits; however, the concentration in the un-spiked analysis of P-MW-09 is more than one hundred times the spiking concentration. Therefore, no data interpretation issues are indicated by any of the aberrant recoveries.

Laboratory Duplicates

A laboratory duplicate is a second analysis of a submitted field sample analyzed to satisfy a method or laboratory policy requirement – the sample submitter does not specifically request this analysis. Laboratory duplicate pairs provide an indication of measurement variability in sample preparation and analysis given the presence of matrix effects.

All recoveries are within expected limits and no data interpretation issues are indicated for the following laboratory duplicate analyses:

- Sample P-MW-23 for pH and specific conductance
- Sample P-MW-26 for alkalinity
- Sample P-MW-09 for alkalinity, TDS, and specific conductance

- Samples P-MW-24 and P-MW-27 for TDS
- Samples P-MW-16 and P-PZ-02 for pH, alkalinity, specific conductance, and TDS
- Sample P-MW-08 for pH
- Sample P-CS-09 for alkalinity
- Sample P-MW-6 for TDS
- Sample P-PZ-01 for alkalinity
- Sample P-PZ-03 for pH
- Sample P-PZ-06 for TDS
- Sample P-PZ-07 for pH, specific conductance, and TDS
- Sample P-PZ-10 for alkalinity
- Sample P-PZ-14 for specific conductance

Field Duplicates

A field duplicate is a second field sample taken as close in space and time as another sample. Field duplicate pairs provide an indication of measurement variability in sample preparation and analysis as well as sample collection procedures given the presence of matrix effects.

Sample P-D3-MW-27-D was submitted as a field duplicate of sample P-D3-MW-27. Calculated RPD values are presented in the following table:

Analyte	Sample Results	Duplicate Results	Units	RPD	Flag
Barium	0.131	0.128	mg/L	2.3	
Calcium	3410	3290	mg/L	3.6	
Iron	3.97	3.80	mg/L	4.4	
Magnesium	571	574	mg/L	0.52	
Potassium	42.4	42.2	mg/L	0.47	
Sodium	17400	17600	mg/L	1.1	
Bromide	152	153	mg/L	0.66	
Chloride	38400	38400	mg/L	0	
Nitrate	ND	ND	mg/L	NC	
Sulfate	2310	2350	mg/L	1.7	
Alkalinity, Bicarbonate	262	264	mg/L	0.76	
Alkalinity, Carbonate	ND	ND	mg/L	NC	
Alkalinity, Hydroxide	ND	ND	mg/L	NC	
Alkalinity, Total	262	264	mg/L	0.76	
pH	6.38	6.36	pH Units	0.31	
Specific Conductance	114000	112000	µmhos/cm	1.8	
TDS	70700	70000	mg/L	1.0	

NC Not Calculated ND Not detected

All calculated RPD values are within QAPP-specified limits and no data interpretation issues are indicated by these results.

Sample P-PZ-07-D was submitted as a field duplicate of sample P-PZ-07. Calculated RPD values are presented in the following table:

Analyte	Sample Results	Duplicate Results	Units	RPD	Flag
Barium	0.10	0.0931	mg/L	7.1	
Calcium	1450	1500	mg/L	3.4	
Iron	3.57	2.68	mg/L	28	*
Magnesium	355	348	mg/L	2.0	
Potassium	24.5	24.1	mg/L	1.6	
Sodium	4140	4080	mg/L	1.4	
Bromide	29.5	35.7	mg/L	19	
Chloride	9340	9280	mg/L	0.64	
Nitrate	0.946	0.878	mg/L	7.4	
Sulfate	1320	1310	mg/L	0.76	
Alkalinity, Bicarbonate	260	250	mg/L	3.9	
Alkalinity, Carbonate	ND	ND	mg/L	NC	
Alkalinity, Hydroxide	ND	ND	mg/L	NC	
Alkalinity, Total	260	250	mg/L	3.9	
pH	6.55	6.55	pH Units	0	
Specific Conductance	29000	29200	µmhos/cm	0.69	
TDS	22000	20800	mg/L	5.6	

NC Not Calculated
ND Not detected

Most calculated RPD values are within QAPP-specified limits and no data interpretation issues are indicated by these results. The calculated RPD value for iron is indicative of more variability than expected. This excessive imprecision may extend to other samples collected as part of this project.

Sample P-MW-10-D was submitted as a field duplicate of sample P-MW-10. Calculated RPD values are presented in the following table:

Analyte	Sample Results	Duplicate Results	Units	RPD	Flag
Barium	0.0229	0.0225	mg/L	1.8	
Calcium	801	802	mg/L	0.12	
Iron	ND	ND	mg/L	NC	
Magnesium	253	254	mg/L	0.39	
Potassium	15.4	15.3	mg/L	0.65	
Sodium	4250	4210	mg/L	0.95	
Bromide	14.9	15.4	mg/L	3.3	
Chloride	6540	6380	mg/L	2.5	
Nitrate	102	105	mg/L	2.9	
Sulfate	3440	3420	mg/L	0.58	
Alkalinity, Bicarbonate	236	240	mg/L	1.7	
Alkalinity, Carbonate	ND	ND	mg/L	NC	
Alkalinity, Hydroxide	ND	ND	mg/L	NC	
Alkalinity, Total	236	240	mg/L	1.7	
pH	7.08	7.06	pH Units	0.28	
Specific Conductance	25800	25500	µmhos/cm	1.2	
TDS	18000	17000	mg/L	5.7	

NC Not Calculated
ND Not detected

All calculated RPD values are within QAPP-specified limits and no data interpretation issues are indicated by these results.

Sample P-CS-11-D was submitted as a field duplicate of sample P-CS-11. Calculated RPD values are presented in the following table:

Analyte	Sample Results	Duplicate Results	Units	RPD	Flag
Barium	0.146	0.141	mg/L	3.5	
Calcium	1120	1090	mg/L	2.7	
Iron	0.192	0.197	mg/L	2.6	
Magnesium	237	231	mg/L	2.6	
Potassium	20.4	19.8	mg/L	3.0	
Sodium	3270	3240	mg/L	0.92	
Bromide	19.3	19.0	mg/L	1.6	
Chloride	6620	6530	mg/L	1.4	
Nitrate	0.973	1.03	mg/L	5.7	
Sulfate	1290	1280	mg/L	0.78	
Alkalinity, Bicarbonate	153	152	mg/L	0.66	
Alkalinity, Carbonate	ND	ND	mg/L	NC	
Alkalinity, Hydroxide	ND	ND	mg/L	NC	
Alkalinity, Total	153	152	mg/L	0.66	
TDS	14400	14600	mg/L	1.4	

NC Not Calculated ND Not detected

All calculated RPD values are within QAPP-specified limits and no data interpretation issues are indicated by these results.

APPENDIX C
SOIL BORING AND WELL CONSTRUCTION LOGS

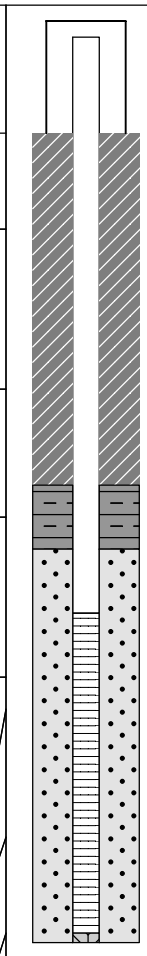
BORING LOG and WELL CONSTRUCTION

P-MW-23

Client: Railroad Commission of Texas	TRC Project #: 166420
Site: Petronila Creek	Start Date: 3/3/09
Address: Driscoll, TX	Finish Date: 3/3/09
Project: RRC Petronila	Permit #: NA
Drilling Company: Boart Longyear — Drilling Crew: A. Marshall & Crew	TRC Site Rep.: J. Harte
Drilling Method: Sonic	TRC Reviewer: M. Webre
Boring Diameter (in): 6 — Boring Depth (ft bgs): 25	X-Y Coord. System: Tx St Pln South NAD83
Sampling Method: Roto-Sonic Core Barrel (4" Diameter)	X-Coordinate: 1236467.225
Blow Count Method: NA	Y-Coordinate: 17137539.766
Field Screening Parameter: None	Elevation Datum: NAVD 88
Meter: None — Units: None	Ground Elevation (ft): 50.268
Well Depth (ft bgs): 25 — Well Depth (ft toc): 28.18	Well Elevation (ft): 53.446
Casing Length (ft): 17.88 — Screen Length (ft): 10	Well Measuring Point: Top of Casing
Surface Completion: 4' x 4' Concrete Pad with Stick-up Bollards	Depth to Water (ft toc): 12.02
Well Development: PVC Disposable Bailers	Date/Time: 3/4/09, 13:42

Elevation (ft)	Depth (ft)	Sample Interval	Sample Recovery	Analytical	Field Screening	Lithology	Lithologic Description
50	0				NM		CH: Fat Clay; Little Silt, Gray to Dark Gray, No Odor, Dry to Moist, High Toughness, High Plasticity, Hard Consistency, Some Rootlets and Vegetation.
					NM		CH: Fat Clay; Few Silt, Gray to Dark Gray, No Odor, Dry to Moist, High Toughness, High Plasticity, Hard Consistency.
45	5						
					NM		CL: Lean Clay; Little Silt, Few Very Fine Sand, Brown to Brownish Yellow with gray mottling, No Odor, Moist to Wet Towards Bottom, High Toughness, Medium to High Plasticity, Hard to Soft Consistency. Caliche between 10 and 12 feet bgs.
40	10						
							CL: Silty Lean Clay; Few Very Fine Sand, Few Caliche, Brown to Brownish Yellow, No Odor, Moist to Wet, Medium Toughness, Medium Plasticity, Soft to Very Soft Consistency.
35	15				NM		
							ML: Silt; Some Clay, Few Very Fine Sand and Gravel; Gravel, angular up to 0.25inch in size, Brown to Brownish Yellow, No Odor, Moist to Wet, Medium to Low Toughness, Medium Plasticity, Soft Consistency.
30	20				NM		ML: Silt; Few Clay, Few Very Fine to Fine Sand, Brown to Brownish Yellow with Iron Oxide Nodules up to 0.125 inch in size, No Odor, Very Moist to Wet, Medium Toughness, Medium Plasticity, Soft Consistency.
							CL: Lean Clay; Some Silt, Few Very Fine to Fine Sand, Brown to Brownish Yellow with Iron Oxide Nodules up to 0.125 inch in size, No Odor, Moist, High Toughness, High Plasticity, Hard Consistency.
25	25				NM		
	30						These logs should not be used separately from the original report.

Well Construction Diagram

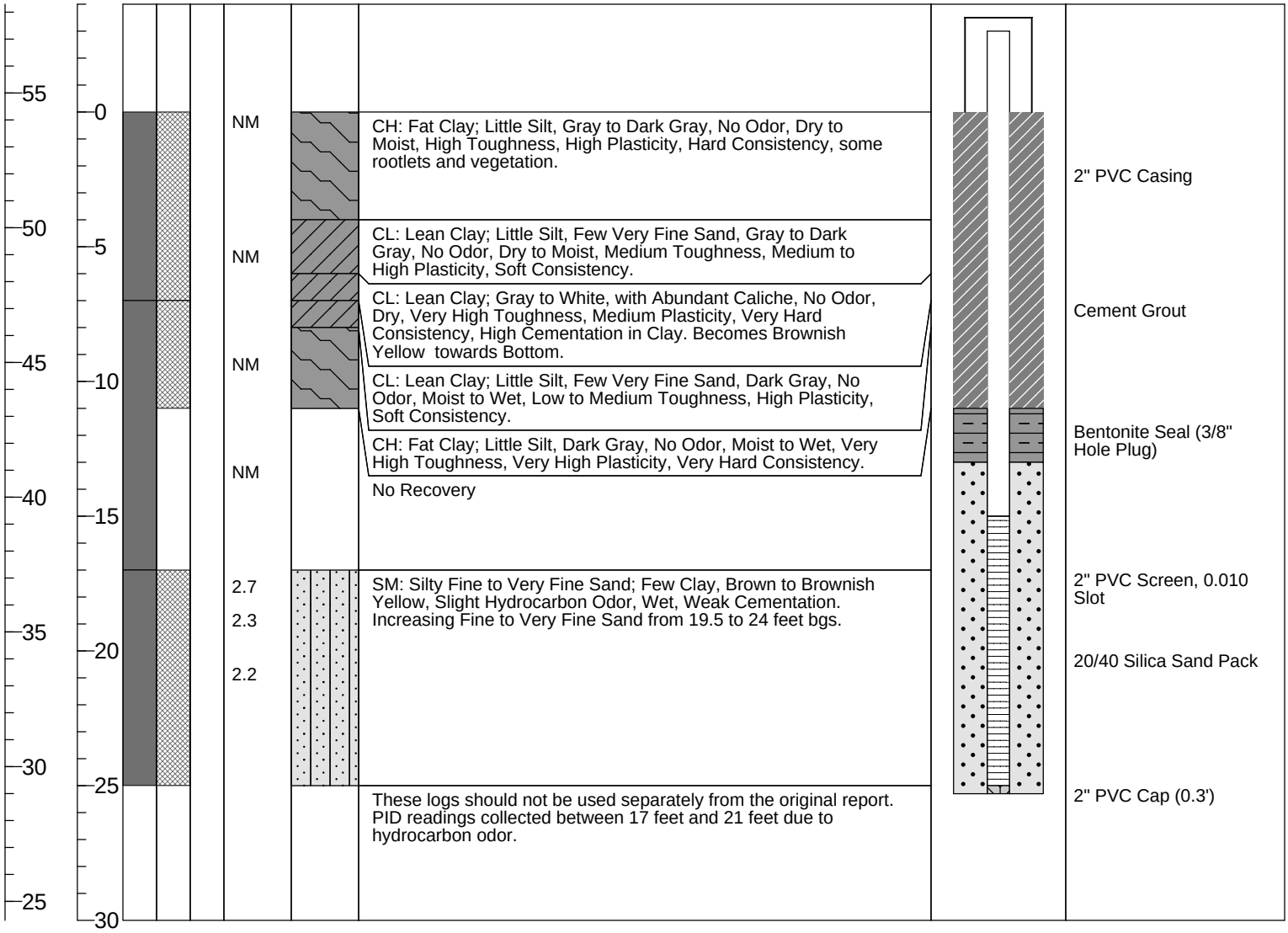


- 2" PVC Casing
- Cement Grout
- Bentonite Seal (3/8" Hole Plug)
- 2" PVC Screen, 0.010 Slot
- 20/40 Silica Sand Pack
- 2" PVC Cap (0.3')

BORING LOG and WELL CONSTRUCTION

P-MW-24

Client: Railroad Commission of Texas	TRC Project #: 166420
Site: Petronila Creek	Start Date: 3/3/09
Address: Driscoll, TX	Finish Date: 3/3/09
Project: RRC Petronila	Permit #: NA
Drilling Company: Boart Longyear — Drilling Crew: A. Marshall & Crew	TRC Site Rep.: J. Harte
Drilling Method: Hand Auger 0-4 feet, Sonic 4-25 feet	TRC Reviewer: M. Webre
Boring Diameter (in): 6 — Boring Depth (ft bgs): 25	X-Y Coord. System: Tx St Pln South NAD83
Sampling Method: Roto-Sonic Core Barrel (4" Diameter)	X-Coordinate: 1237194.229
Blow Count Method: NA	Y-Coordinate: 17137796.844
Field Screening Parameter: Volatile Organic Compound	Elevation Datum: NAVD 88
Meter: MiniRAE 2000 — Units: ppm	Ground Elevation (ft): 54.295
Well Depth (ft bgs): 25 — Well Depth (ft toc): 28.32	Well Elevation (ft): 57.616
Casing Length (ft): 18.02 — Screen Length (ft): 10	Well Measuring Point: Top of Casing
Surface Completion: 4' x 4' Concrete Pad with Stick-up Bollards	Depth to Water (ft toc): 17.78
Well Development: Submersible Pump and PVC Disposable Bailer	Date/Time: 3/4/09, 16:31

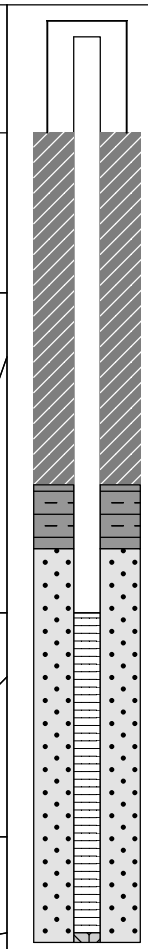


BORING LOG and WELL CONSTRUCTION

P-MW-25

Client: Railroad Commission of Texas	TRC Project #: 166420
Site: Petronila Creek	Start Date: 3/3/09
Address: Driscoll, TX	Finish Date: 3/3/09
Project: RRC Petronila	Permit #: NA
Drilling Company: Boart Longyear — Drilling Crew: A. Marshall & Crew	TRC Site Rep.: J. Harte
Drilling Method: Hand Auger 0-5 feet, Sonic 5-25 feet	TRC Reviewer: M. Webre
Boring Diameter (in): 6 — Boring Depth (ft bgs): 25	X-Y Coord. System: Tx St Pln South NAD83
Sampling Method: Roto-Sonic Core Barrel (4" Diameter)	X-Coordinate: 1238183.431
Blow Count Method: NA	Y-Coordinate: 17137265.619
Field Screening Parameter: None	Elevation Datum: NAVD 88
Meter: None — Units: None	Ground Elevation (ft): 54.612
Well Depth (ft bgs): 25 — Well Depth (ft toc): 28.06	Well Elevation (ft): 57.669
Casing Length (ft): 17.76 — Screen Length (ft): 10	Well Measuring Point: Top of Casing
Surface Completion: 4' x 4' Concrete Pad with Stick-up Bollards	Depth to Water (ft toc): 19.21
Well Development: Submersible Pump and PVC Disposable Bailer	Date/Time: 3/4/09, 16:04

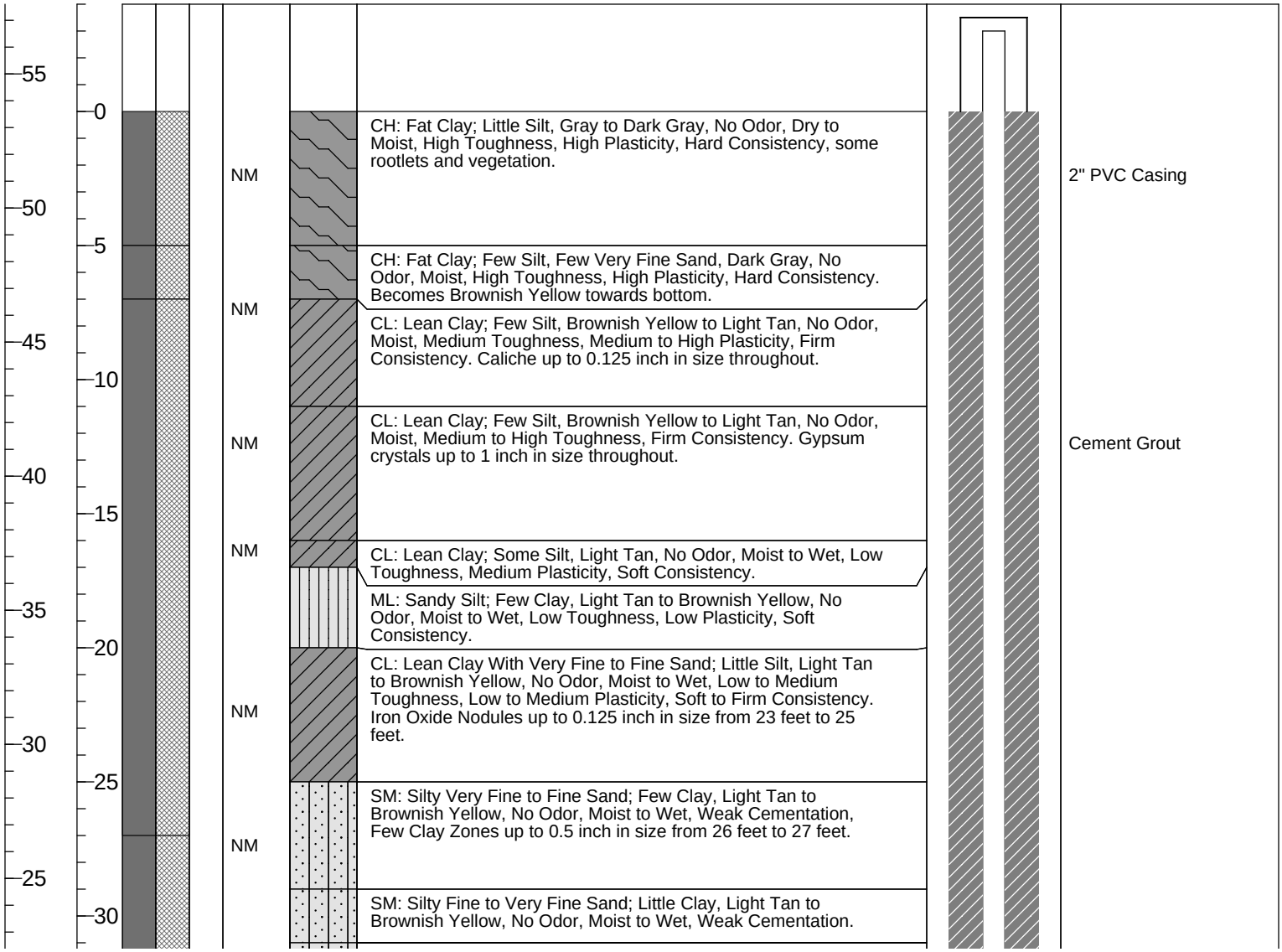
Elevation (ft)	Depth (ft)	Sample Interval	Sample Recovery	Analytical	Field Screening	Lithology	Lithologic Description
55	0				NM		CH: Fat Clay; Little Silt, Gray to Dark Gray, No Odor, Dry to Moist, High Toughness, High Plasticity, Hard Consistency, some rootlets and vegetation.
50	5				NM		CH: Fat Clay; Few Silt and Very Fine Sand, Gray to Dark Gray, No Odor, Dry to Moist, Medium Toughness, High Plasticity, Hard Consistency. Increasing Caliche towards Bottom, High Cementation in Clay.
45	10				NM		CL: Lean Clay; Some Silt, Dark Gray, No Odor, Moist, Low to Medium Toughness, High Plasticity, Soft Consistency, Caliche nodules up to 0.125-inch in size throughout. Increasing Caliche towards Bottom.
40	15				NM		CL: Lean Clay; Some Silt, Few Very Fine Sand, Dark Gray, No Odor, Moist to Wet, Medium Toughness, Medium Plasticity, Firm Consistency.
35	20				NM		CL: Lean Clay; Little Silt and Very Fine Sand, Gray to Dark Gray, No Odor, Wet from 17 to 20 feet bgs., Moist to Wet 20 to 22 feet bgs., Medium to High Toughness, High Plasticity, Hard Consistency. Iron Oxide Nodules up to 0.125 inch in size throughout.
30	25				NM		CL: Lean Clay; Some Silt, Few Fine to Very Fine Sand with Caliche up to 0.125 inch in size, Brown to Brownish Yellow, No Odor, Moist to Wet, Medium Toughness, High Plasticity, Medium Consistency.
25	30						These logs should not be used separately from the original report.

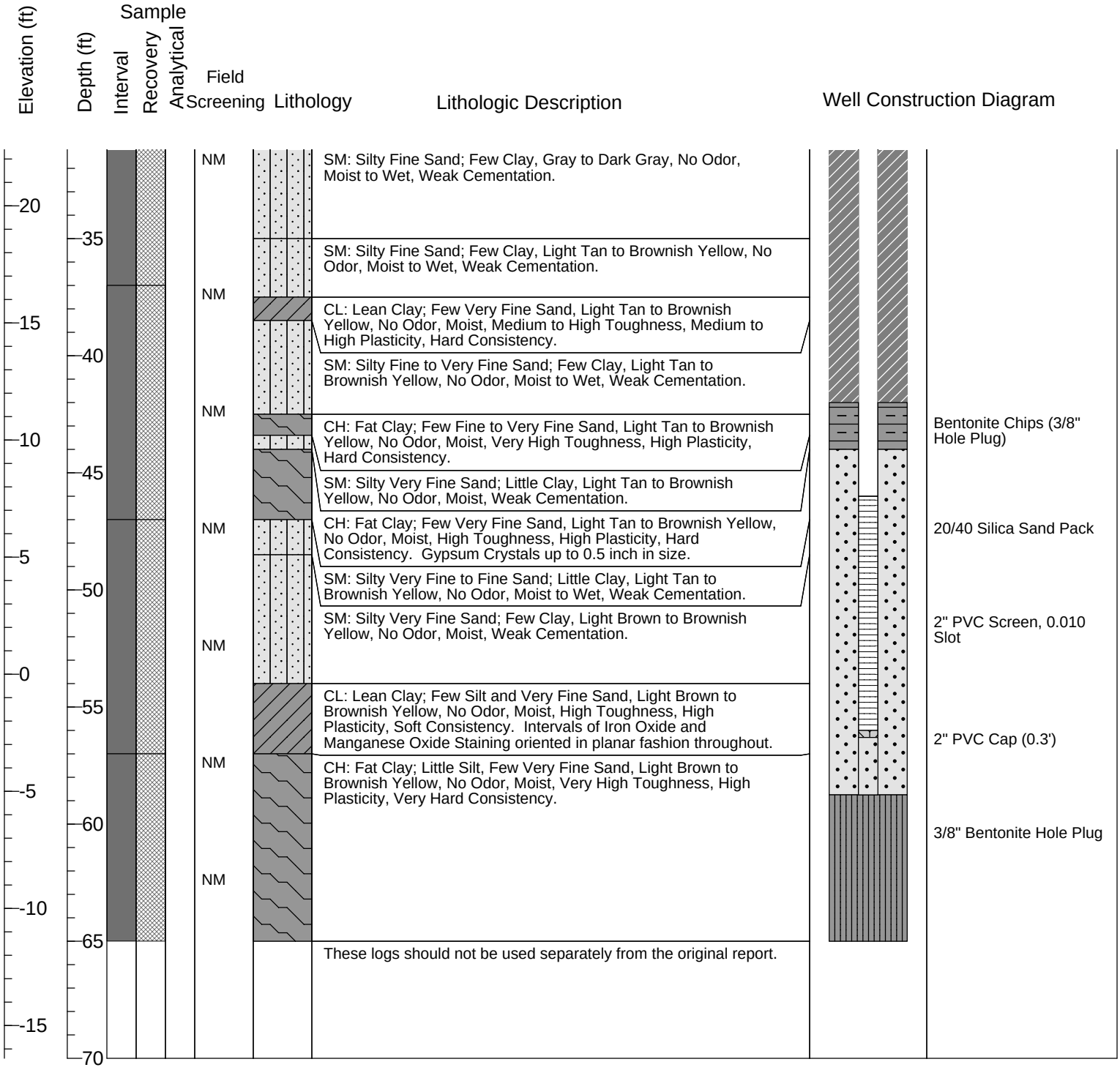


BORING LOG and WELL CONSTRUCTION

P-MW-26

Client: Railroad Commission of Texas	TRC Project #: 166420
Site: Petronila Creek	Start Date: 3/4/09
Address: Driscoll, TX	Finish Date: 3/4/09
Project: RRC Petronila	Permit #: NA
Drilling Company: Boart Longyear — Drilling Crew: A. Marshall & Crew	TRC Site Rep.: J. Harte
Drilling Method: Hand Auger 0-5 feet, Sonic 5 - 65 feet	TRC Reviewer: M. Webre
Boring Diameter (in): 6 — Boring Depth (ft bgs): 65	X-Y Coord. System: Tx St Pln South NAD83
Sampling Method: Roto-Sonic Core Barrel (4" Diameter)	X-Coordinate: 1237569.805
Blow Count Method: NA	Y-Coordinate: 17130926.669
Field Screening Parameter: None	Elevation Datum: NAVD 88
Meter: None — Units: None	Ground Elevation (ft): 53.602
Well Depth (ft bgs): 56 — Well Depth (ft toc): 58.95	Well Elevation (ft): 56.554
Casing Length (ft): 48.65 — Screen Length (ft): 10	Well Measuring Point: Top of Casing
Surface Completion: 4' x 4' Concrete Pad with Stick-up Bollards	Depth to Water (ft toc): 11.11
Well Development: Submersible Pump	Date/Time: 3/5/09, 12:00

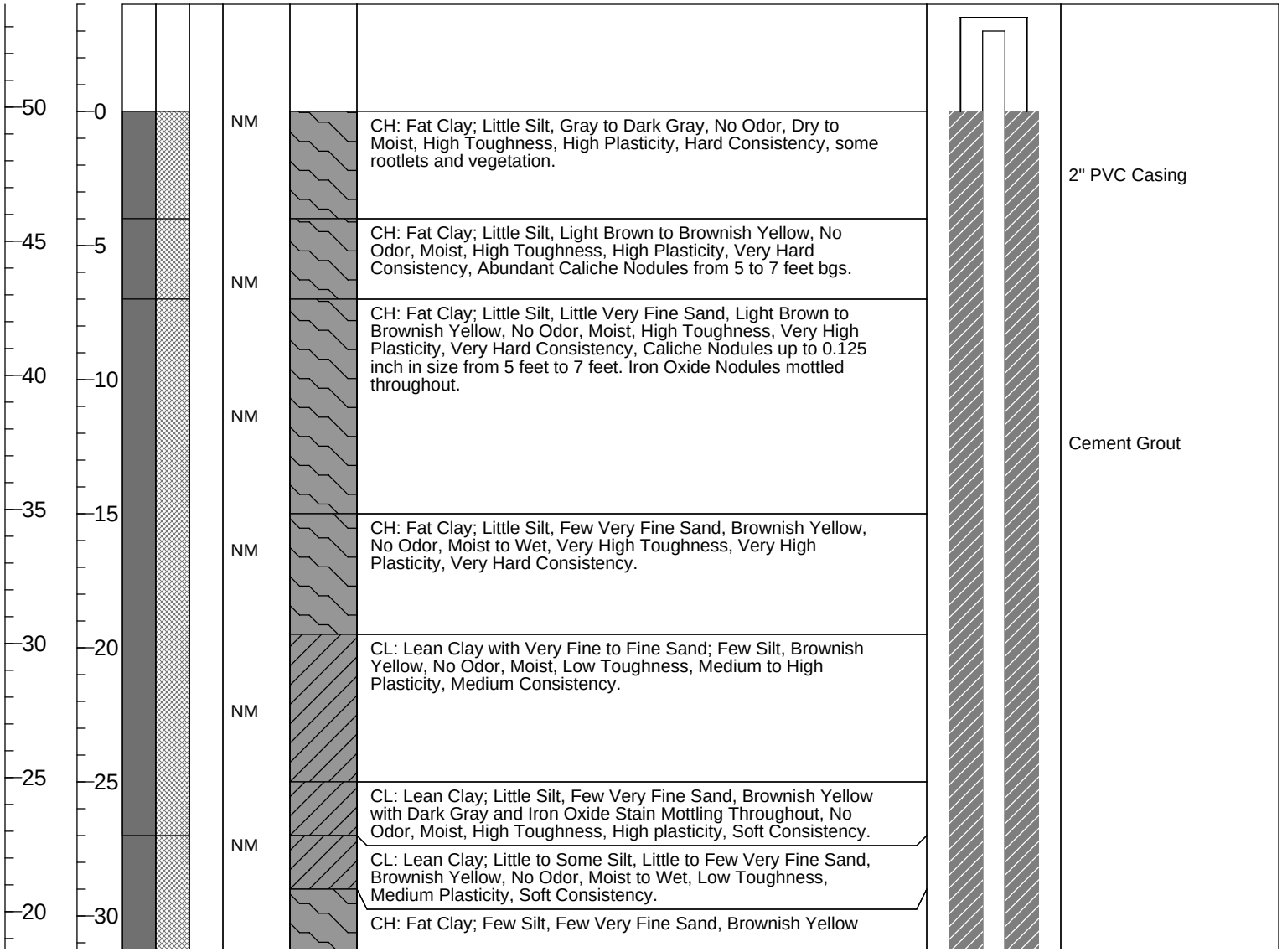


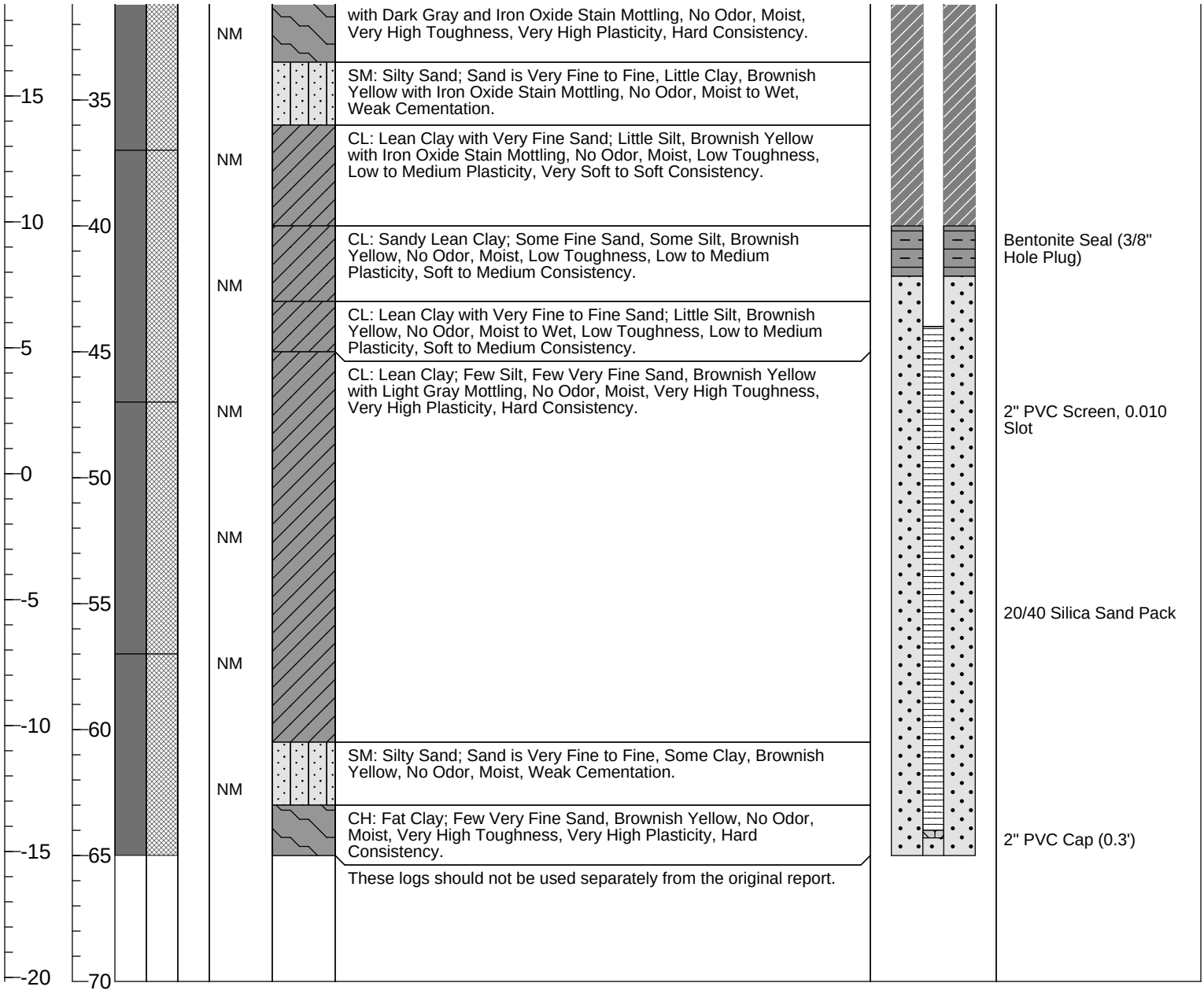

Elevation (ft)
Depth (ft)
Sample Interval
Sample Recovery
Analytical
Field Screening
Lithology
Lithologic Description
Well Construction Diagram
20
35
15
40
10
45
5
50
0
55
-5
60
-10
65
-15
70
NM
NM
NM
NM
NM
NM
SM: Silty Fine Sand; Few Clay, Gray to Dark Gray, No Odor, Moist to Wet, Weak Cementation.
SM: Silty Fine Sand; Few Clay, Light Tan to Brownish Yellow, No Odor, Moist to Wet, Weak Cementation.
CL: Lean Clay; Few Very Fine Sand, Light Tan to Brownish Yellow, No Odor, Moist, Medium to High Toughness, Medium to High Plasticity, Hard Consistency.
SM: Silty Fine to Very Fine Sand; Few Clay, Light Tan to Brownish Yellow, No Odor, Moist to Wet, Weak Cementation.
CH: Fat Clay; Few Fine to Very Fine Sand, Light Tan to Brownish Yellow, No Odor, Moist, Very High Toughness, High Plasticity, Hard Consistency.
SM: Silty Very Fine Sand; Little Clay, Light Tan to Brownish Yellow, No Odor, Moist, Weak Cementation.
CH: Fat Clay; Few Very Fine Sand, Light Tan to Brownish Yellow, No Odor, Moist, High Toughness, High Plasticity, Hard Consistency. Gypsum Crystals up to 0.5 inch in size.
SM: Silty Very Fine to Fine Sand; Little Clay, Light Tan to Brownish Yellow, No Odor, Moist to Wet, Weak Cementation.
SM: Silty Very Fine Sand; Few Clay, Light Brown to Brownish Yellow, No Odor, Moist, Weak Cementation.
CL: Lean Clay; Few Silt and Very Fine Sand, Light Brown to Brownish Yellow, No Odor, Moist, High Toughness, High Plasticity, Soft Consistency. Intervals of Iron Oxide and Manganese Oxide Staining oriented in planar fashion throughout.
CH: Fat Clay; Little Silt, Few Very Fine Sand, Light Brown to Brownish Yellow, No Odor, Moist, Very High Toughness, High Plasticity, Very Hard Consistency.
These logs should not be used separately from the original report.
Bentonite Chips (3/8" Hole Plug)
20/40 Silica Sand Pack
2" PVC Screen, 0.010 Slot
2" PVC Cap (0.3')
3/8" Bentonite Hole Plug

BORING LOG and WELL CONSTRUCTION

P-MW-27

Client: Railroad Commission of Texas	TRC Project #: 166420
Site: Petronila Creek	Start Date: 3/4/09
Address: Driscoll, TX	Finish Date: 3/4/09
Project: RRC Petronila	Permit #: NA
Drilling Company: Boart Longyear — Drilling Crew: A. Marshall & Crew	TRC Site Rep.: J. Harte
Drilling Method: Hand Auger 0-4 feet, Sonic 4 - 65 feet	TRC Reviewer: M. Webre
Boring Diameter (in): 6 — Boring Depth (ft bgs): 65	X-Y Coord. System: Tx St Pln South NAD83
Sampling Method: Roto-Sonic Core Barrel (4" Diameter)	X-Coordinate: 1240296.866
Blow Count Method: NA	Y-Coordinate: 17129035.715
Field Screening Parameter: None	Elevation Datum: NAVD 88
Meter: None — Units: None	Ground Elevation (ft): 49.838
Well Depth (ft bgs): 64 — Well Depth (ft toc): 67.96	Well Elevation (ft): 52.795
Casing Length (ft): 47.66 — Screen Length (ft): 20	Well Measuring Point: Top of Casing
Surface Completion: 4' x 4' Concrete Pad with Stick-up Bollards	Depth to Water (ft toc): 11.58
Well Development: Submersible Pump	Date/Time: 3/6/09, 11:10




Elevation (ft)
Depth (ft)
Sample Interval
Recovery
Analytical
Field Screening
Lithology
Lithologic Description
Well Construction Diagram
15
10
5
0
-5
-10
-15
-20
35
40
45
50
55
60
65
70
NM
NM
NM
NM
NM
NM
NM
with Dark Gray and Iron Oxide Stain Mottling, No Odor, Moist, Very High Toughness, Very High Plasticity, Hard Consistency.
SM: Silty Sand; Sand is Very Fine to Fine, Little Clay, Brownish Yellow with Iron Oxide Stain Mottling, No Odor, Moist to Wet, Weak Cementation.
CL: Lean Clay with Very Fine Sand; Little Silt, Brownish Yellow with Iron Oxide Stain Mottling, No Odor, Moist, Low Toughness, Low to Medium Plasticity, Very Soft to Soft Consistency.
CL: Sandy Lean Clay; Some Fine Sand, Some Silt, Brownish Yellow, No Odor, Moist, Low Toughness, Low to Medium Plasticity, Soft to Medium Consistency.
CL: Lean Clay with Very Fine to Fine Sand; Little Silt, Brownish Yellow, No Odor, Moist to Wet, Low Toughness, Low to Medium Plasticity, Soft to Medium Consistency.
CL: Lean Clay; Few Silt, Few Very Fine Sand, Brownish Yellow with Light Gray Mottling, No Odor, Moist, Very High Toughness, Very High Plasticity, Hard Consistency.
SM: Silty Sand; Sand is Very Fine to Fine, Some Clay, Brownish Yellow, No Odor, Moist, Weak Cementation.
CH: Fat Clay; Few Very Fine Sand, Brownish Yellow, No Odor, Moist, Very High Toughness, Very High Plasticity, Hard Consistency.
These logs should not be used separately from the original report.
Bentonite Seal (3/8" Hole Plug)
2" PVC Screen, 0.010 Slot
20/40 Silica Sand Pack
2" PVC Cap (0.3')

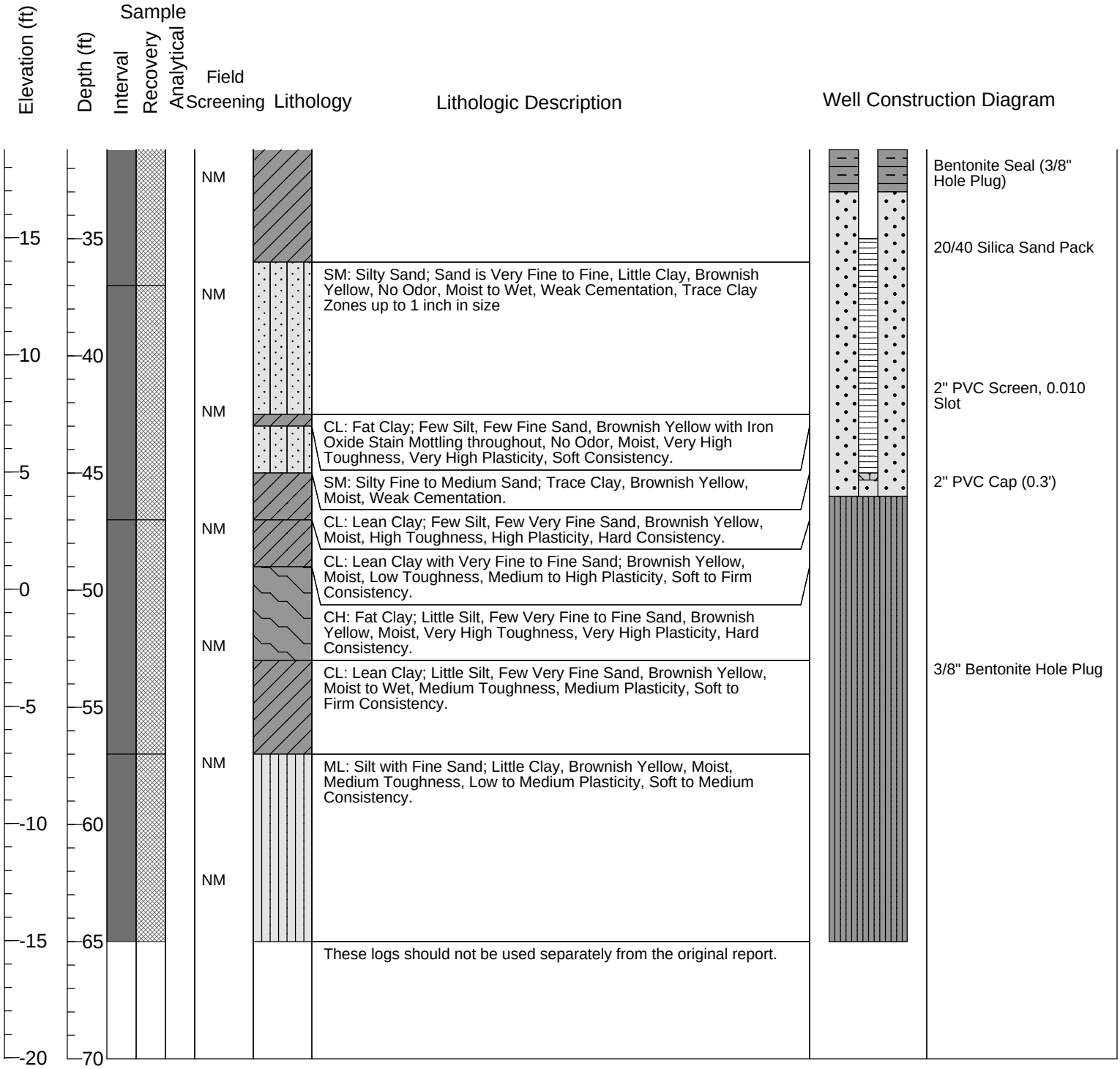
BORING LOG and WELL CONSTRUCTION

P-MW-28

Client: Railroad Commission of Texas	TRC Project #: 166420
Site: Petronila Creek	Start Date: 3/5/09
Address: Driscoll, TX	Finish Date: 3/5/09
Project: RRC Petronila	Permit #: NA
Drilling Company: Boart Longyear — Drilling Crew: A. Marshall & Crew	TRC Site Rep.: J. Harte
Drilling Method: Hand Auger 0-4 feet, Sonic 4 - 65 feet	TRC Reviewer: M. Webre
Boring Diameter (in): 6 — Boring Depth (ft bgs): 65	X-Y Coord. System: Tx St Pln South NAD83
Sampling Method: Roto-Sonic Core Barrel (4" Diameter)	X-Coordinate: 1241464.084
Blow Count Method: NA	Y-Coordinate: 17126746.986
Field Screening Parameter: None	Elevation Datum: NAVD 88
Meter: None — Units: None	Ground Elevation (ft): 49.956
Well Depth (ft bgs): 45 — Well Depth (ft toc): 47.80	Well Elevation (ft): 52.764
Casing Length (ft): 37.50 — Screen Length (ft): 10	Well Measuring Point: Top of Casing
Surface Completion: 4' x 4' Concrete Pad with Stick-up Bollards	Depth to Water (ft toc): 12.37
Well Development: PVC Disposable Bailers	Date/Time: 3/6/09, 10:00

Elevation (ft)	Depth (ft)	Sample Interval	Sample Recovery	Sample Analytical	Field Screening	Lithology	Lithologic Description	Well Construction Diagram
50	0				NM		CL: Lean Clay; Little Silt, Gray to Dark Gray, No Odor, Dry to Moist, High Toughness, High Plasticity, Hard Consistency, some rootlets and vegetation.	2" PVC Casing
45	5				NM		CH: Fat Clay; Little Silt, Few Very Fine to Fine Sand, Brownish Yellow to Light tan from 4 feet to 5 feet; Dark Gray from 5 feet to 8 feet, No Odor, Moist, Very High Toughness, High Plasticity, Hard Consistency. Some Caliche and gypsum crystals up to 0.125 inch in size throughout.	
40	10				NM		CL: Lean Clay with Medium to Coarse Sand; Brownish Yellow with Light Gray Mottling, No Odor, Moist, Medium to High Toughness, High Plasticity, Hard Consistency. Caliche nodules throughout. Decreasing Toughness towards bottom.	Cement Grout
35	15				NM			
30	20				NM		CL: Lean Clay; Little Silt, Few Very Fine to Fine Sand, Brownish Yellow to Light Brown with Dark Gray Mottling Throughout, No Odor, Moist, High Toughness and High Consistency, Caliche Nodules Throughout, Soft Consistency Layers with Low Toughness from 17.5 feet to 18.5 feet and 27 feet to 27.5 feet.	
25	25				NM			
20	30				NM		CL: Lean Clay with Very Fine to Fine Sand; Little Silt, Brownish Yellow, No Odor, Moist to Wet, Medium Toughness, Medium Plasticity, Soft Consistency, Iron Oxide nodules from 34 feet to 36 feet.	

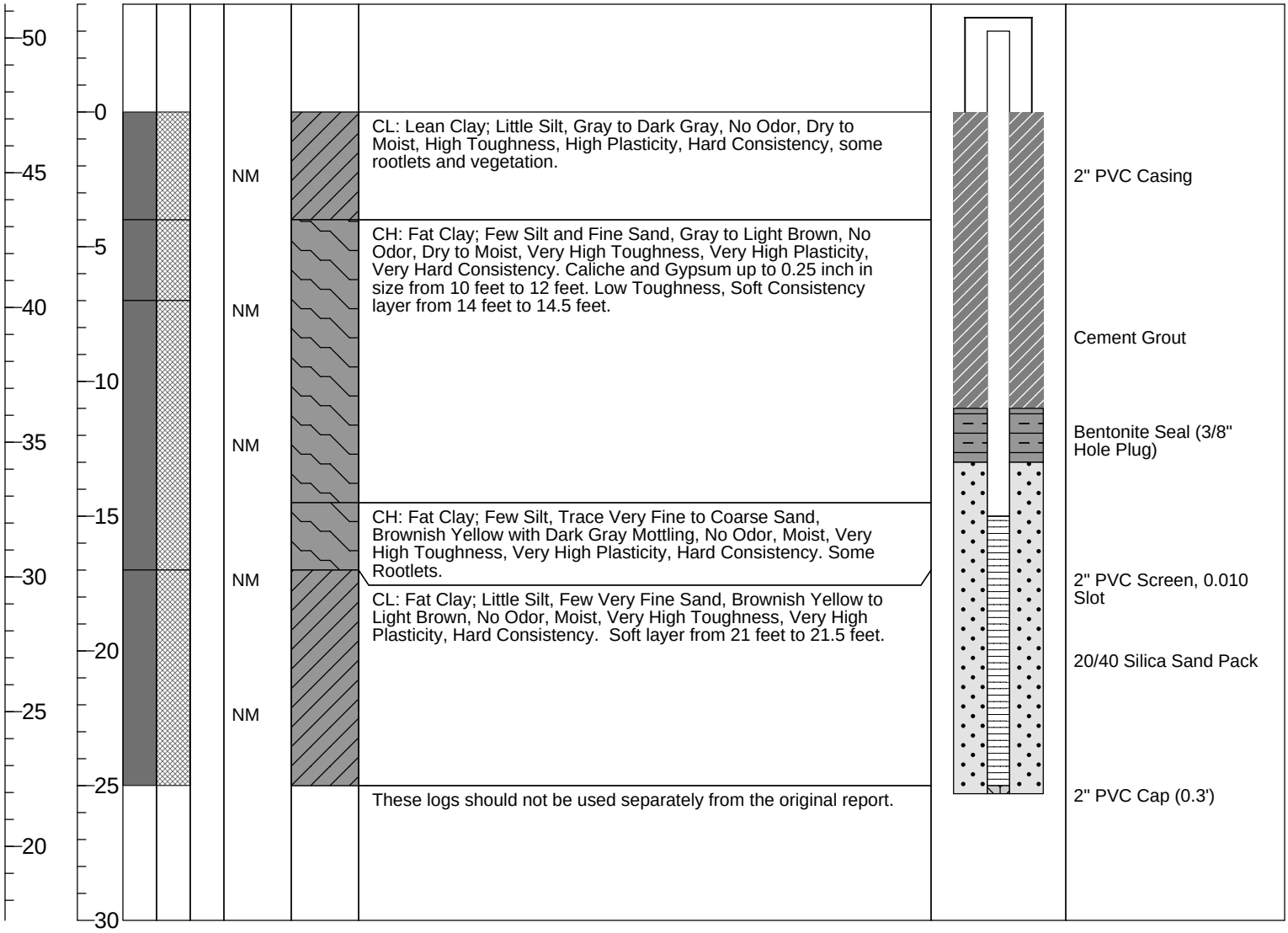
TRC	**BORING LOG and WELL CONSTRUCTION**	**P-MW-28**
Client: Railroad Commission of Texas	Site: Petronila Creek	Page 2 of 2



BORING LOG and WELL CONSTRUCTION

P-MW-29

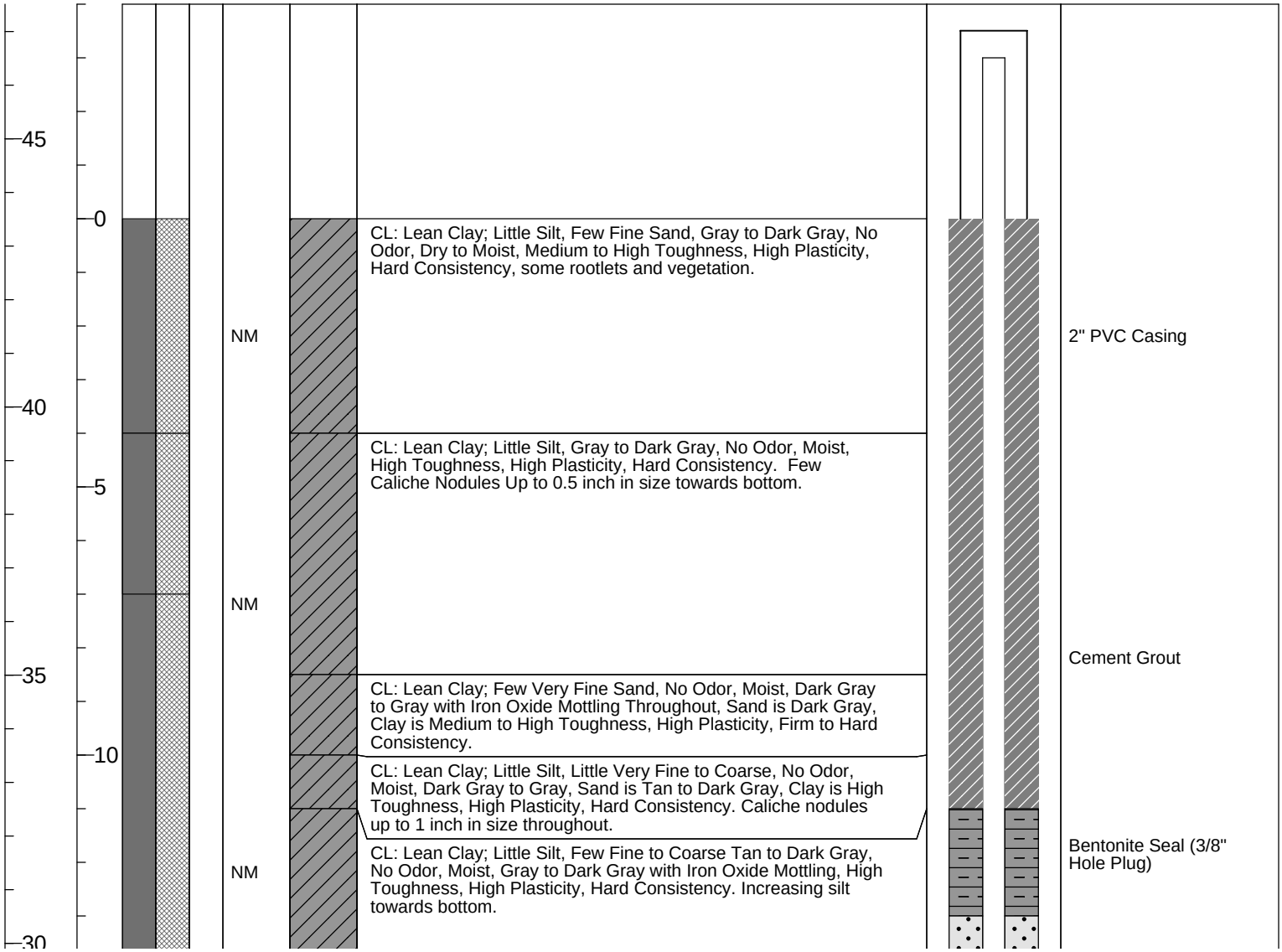
Client: Railroad Commission of Texas	TRC Project #: 166420
Site: Petronila Creek	Start Date: 3/5/09
Address: Driscoll, TX	Finish Date: 3/5/09
Project: RRC Petronila	Permit #: NA
Drilling Company: Boart Longyear — Drilling Crew: A. Marshall & Crew	TRC Site Rep.: J. Harte
Drilling Method: Hand Auger 0-4 feet, Sonic 4 - 25 feet	TRC Reviewer: M. Webre
Boring Diameter (in): 6 — Boring Depth (ft bgs): 25	X-Y Coord. System: Tx St Pln South NAD83
Sampling Method: Roto-Sonic Core Barrel (4" Diameter)	X-Coordinate: 1242480.239
Blow Count Method: NA	Y-Coordinate: 17126473.859
Field Screening Parameter: None	Elevation Datum: NAVD 88
Meter: None — Units: None	Ground Elevation (ft): 47.257
Well Depth (ft bgs): 25 — Well Depth (ft toc): 28.01	Well Elevation (ft): 50.272
Casing Length (ft): 17.71 — Screen Length (ft): 10	Well Measuring Point: Top of Casing
Surface Completion: 4' x 4' Concrete Pad with Stick-up Bollards	Depth to Water (ft toc): 17.49
Well Development: PVC Disposable Bailer	Date/Time: 3/6/09, 09:15



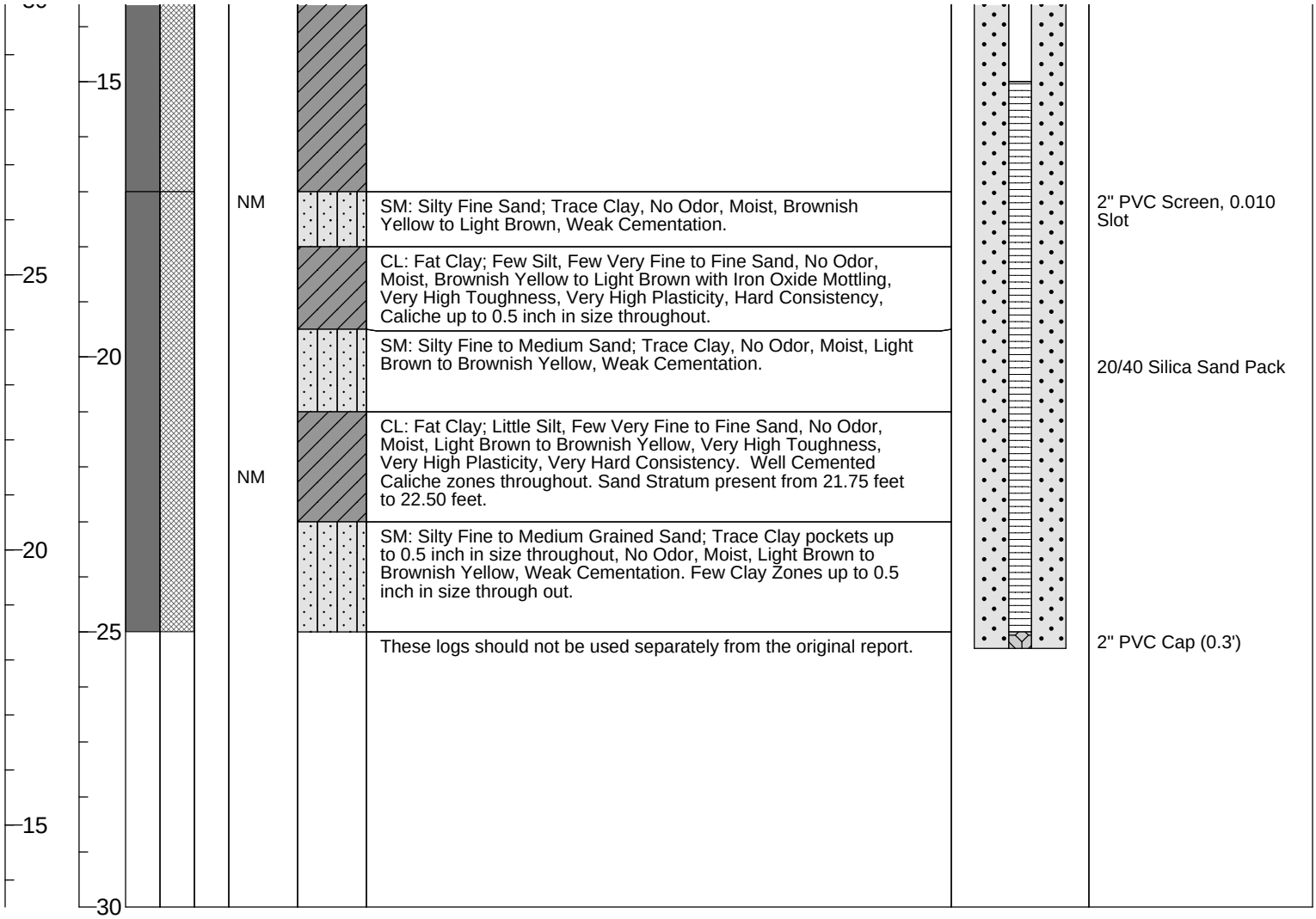
BORING LOG and WELL CONSTRUCTION

P-MW-30

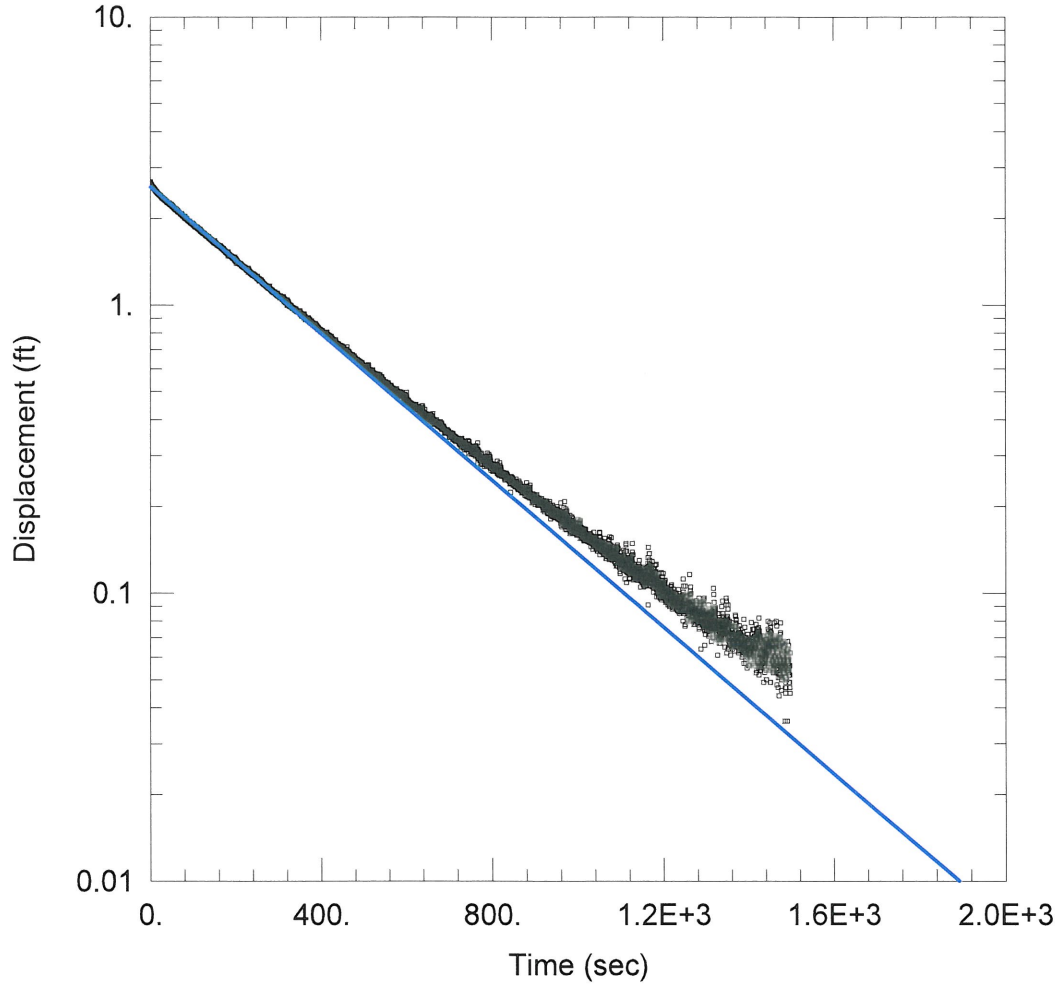
Client: Railroad Commission of Texas	TRC Project #: 166420
Site: Petronila Creek	Start Date: 3/5/09
Address: Driscoll, TX	Finish Date: 3/5/09
Project: RRC Petronila	Permit #: NA
Drilling Company: Boart Longyear Drilling Crew: A. Marshall & Crew	TRC Site Rep.: J. Harte
Drilling Method: Hand Auger 0-4 feet, Sonic 4 - 25 feet	TRC Reviewer: M. Webre
Boring Diameter (in): 6 Boring Depth (ft bgs): 25	X-Y Coord. System: Tx St Pln South NAD83
Sampling Method: Roto-Sonic Core Barrel (4" Diameter)	X-Coordinate: 1244321.664
Blow Count Method: NA	Y-Coordinate: 17124436.866
Field Screening Parameter: None	Elevation Datum: NAVD 88
Meter: None Units: None	Ground Elevation (ft): 43.510
Well Depth (ft bgs): 25 Well Depth (ft toc): 28.15	Well Elevation (ft): 46.656
Casing Length (ft): 17.85 Screen Length (ft): 10	Well Measuring Point: Top of Casing
Surface Completion: 4' x 4' Concrete Pad with Stick-up Bollards	Depth to Water (ft toc): 19.55
Well Development: Submersible Pump	Date/Time: 3/5/09, 17:30



TRC	**BORING LOG and WELL CONSTRUCTION**	**P-MW-30**
Client: Railroad Commission of Texas	Site: Petronila Creek	Page 2 of 2



APPENDIX D
SLUG TEST RESULTS



WELL TEST ANALYSIS

Data Set: S:\...\P-MW-05-1.aqt
Date: 07/20/09 Time: 15:41:14

STATE OF TEXAS
JAMES M. HARTE
GEOLOGY
No. 4018
LICENSED PROFESSIONAL GEOSCIENTIST
05/20/09

PROJECT INFORMATION

Company: TRC
Client: Railroad Commission of Texas
Project: 166420
Location: Petronila
Test Well: P-MW-05-1
Test Date: 3/23/09

AQUIFER DATA

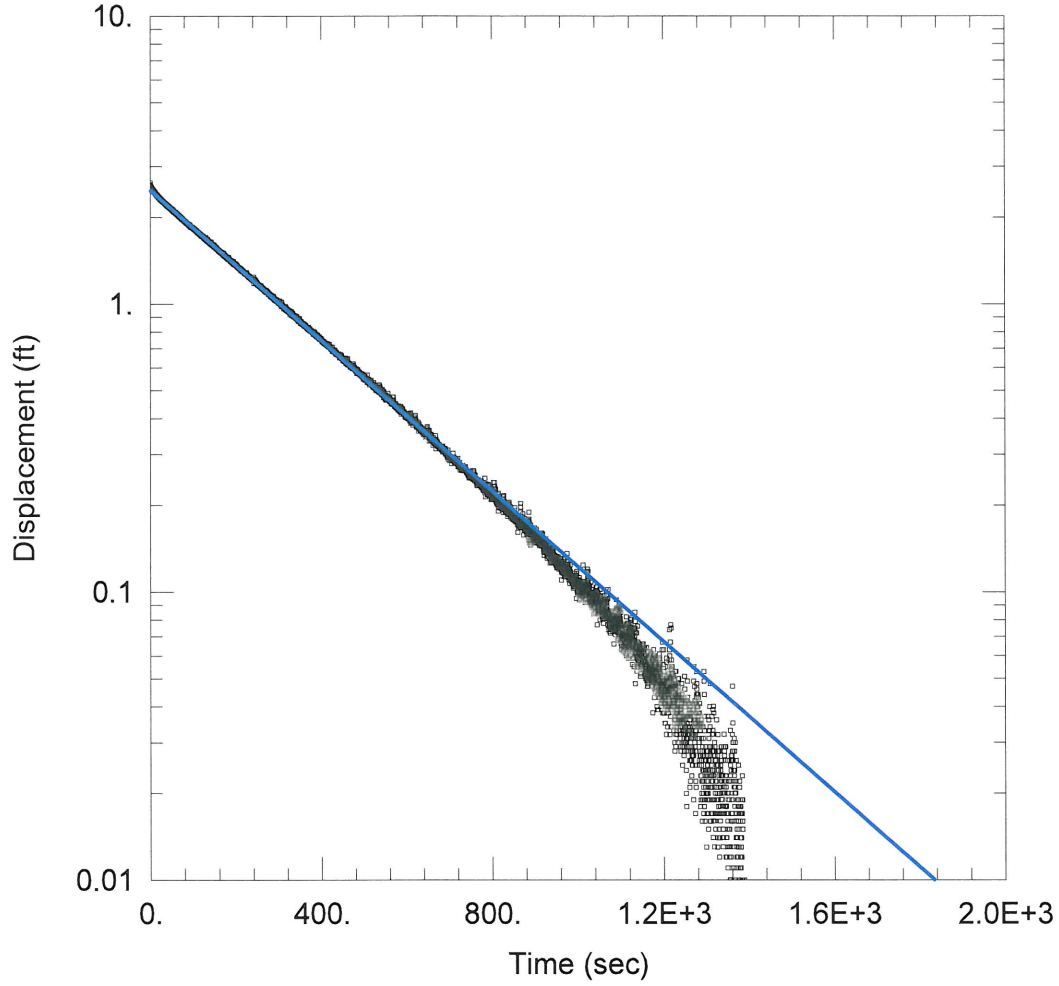
Saturated Thickness: 47.44 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (P-MW-05-1)

Initial Displacement: 2.68 ft
Total Well Penetration Depth: 27.65 ft
Casing Radius: 0.083 ft
Static Water Column Height: 27.65 ft
Screen Length: 5. ft
Wellbore Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.0001484 cm/sec
y0 = 2.571 ft



WELL TEST ANALYSIS

Data Set: S:\...\P-MW-05-2.aqt
Date: 07/20/09 Time: 15:46:19

STATE OF TEXAS
JAMES M. HARTE
GEOLOGY
No. 4018
LICENSED
PROFESSIONAL GEOSCIENTIST
08/20/09

PROJECT INFORMATION

Company: TRC
Client: Railroad Commission of Texas
Project: 166420
Location: Petronila
Test Well: P-MW-05-2
Test Date: 3/23/09

AQUIFER DATA

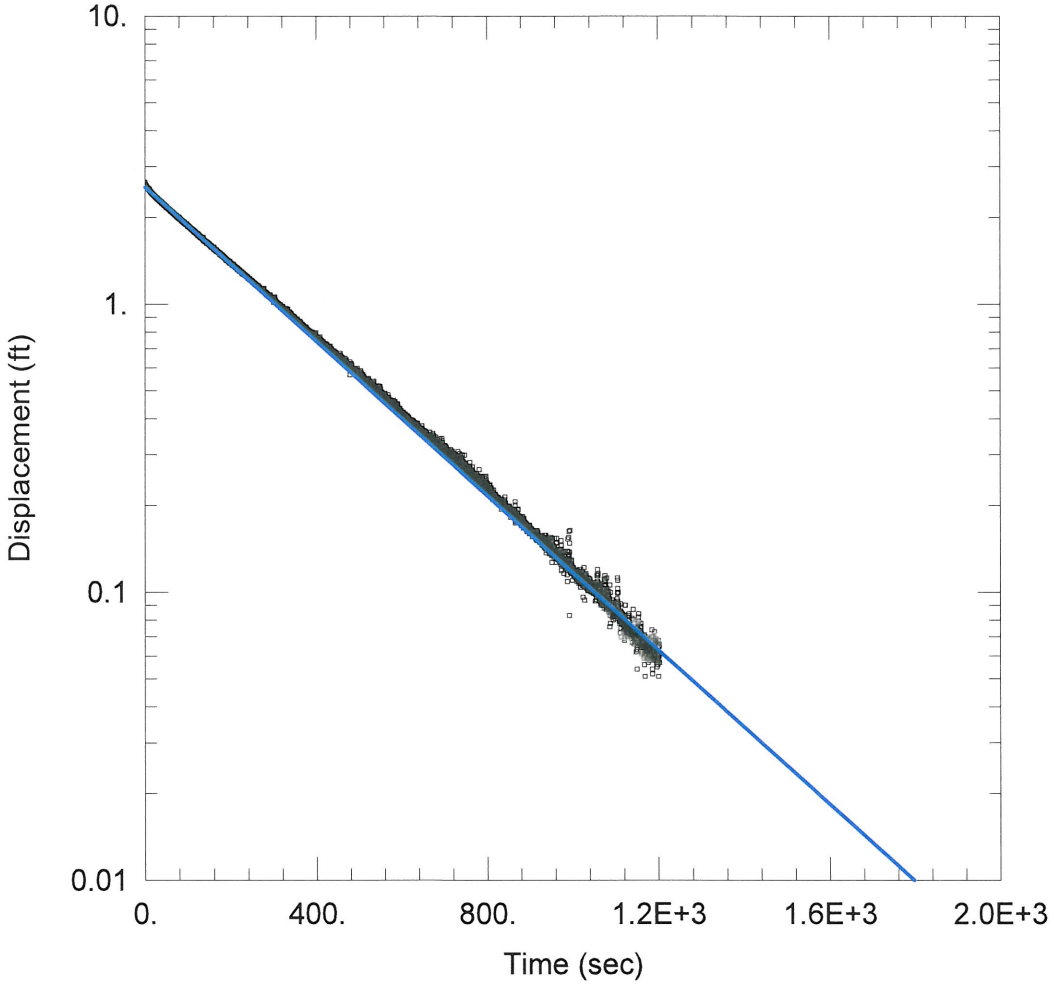
Saturated Thickness: 47.44 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (P-MW-05-2)

Initial Displacement: 2.639 ft
Total Well Penetration Depth: 27.6 ft
Casing Radius: 0.083 ft
Static Water Column Height: 27.6 ft
Screen Length: 5. ft
Wellbore Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
K = 0.000152 cm/sec
Solution Method: Bouwer-Rice
y0 = 2.477 ft



WELL TEST ANALYSIS

Data Set: S:\...\P-MW-05-3.aqt
Date: 07/20/09 Time: 15:49:36

STATE OF TEXAS
JAMES M. HARTE
GEOLOGY
No. 4018
LICENSED
PROFESSIONAL GEOSCIENTIST
08/20/09

PROJECT INFORMATION

Company: TRC
Client: Railroad Commission of Texas
Project: 166420
Location: Petronila
Test Well: P-MW-05-3
Test Date: 3/23/09

AQUIFER DATA

Saturated Thickness: 47.44 ft Anisotropy Ratio (Kz/Kr): 1.

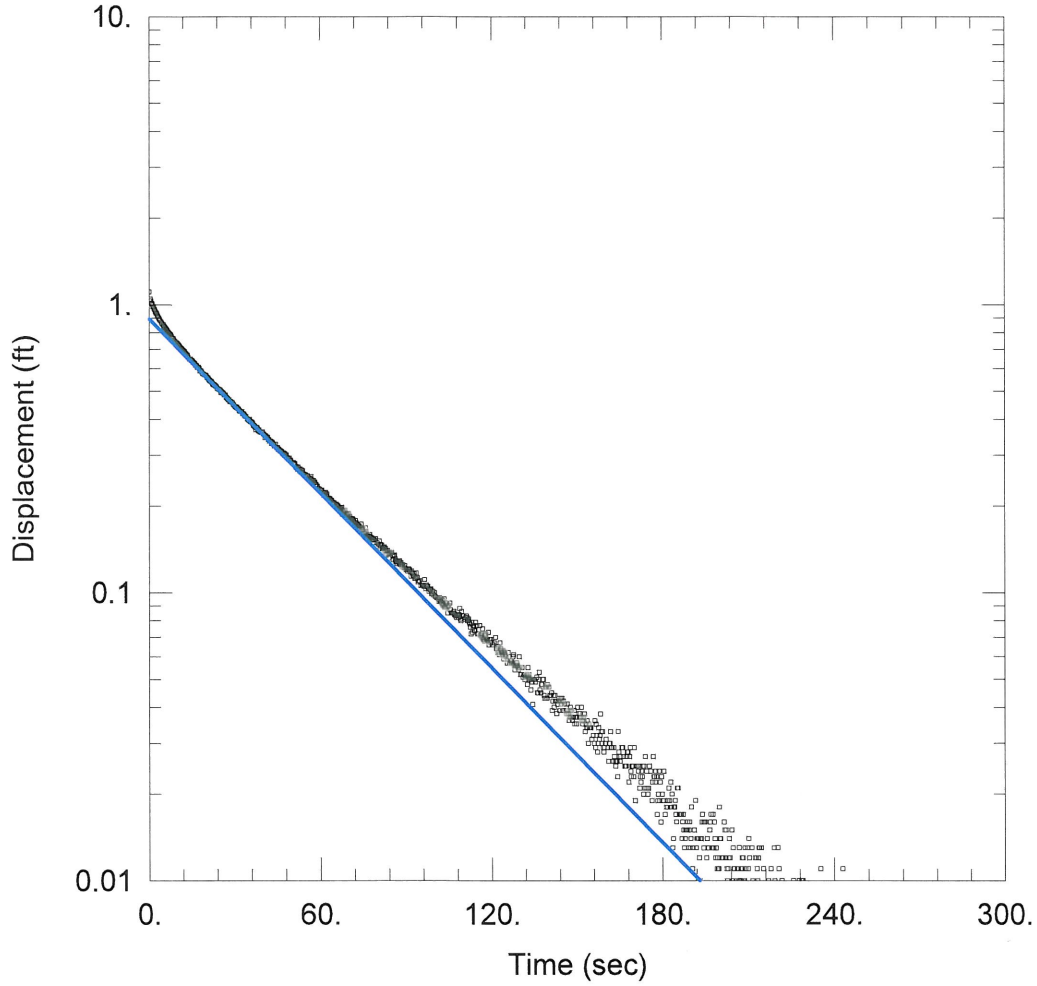
WELL DATA (P-MW-05-3)

Initial Displacement: 2.648 ft
Total Well Penetration Depth: 27.6 ft
Casing Radius: 0.083 ft
Static Water Column Height: 27.6 ft
Screen Length: 5. ft
Wellbore Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.0001559 cm/sec
y0 = 2.544 ft



WELL TEST ANALYSIS

Data Set: S:\...\P-MW-24-1-visual.aqt
Date: 07/20/09 Time: 16:16:33

PROJECT INFORMATION

Company: TRC
Client: Railroad Commission of Texas
Project: 166420
Location: Petronila
Test Well: P-MW-24-1
Test Date: 3/23/09

STATE OF TEXAS
JAMES M. HARTE
GEOLOGY
No. 4018
LICENSED
PROFESSIONAL GEOSCIENTIST
08/24/09

AQUIFER DATA

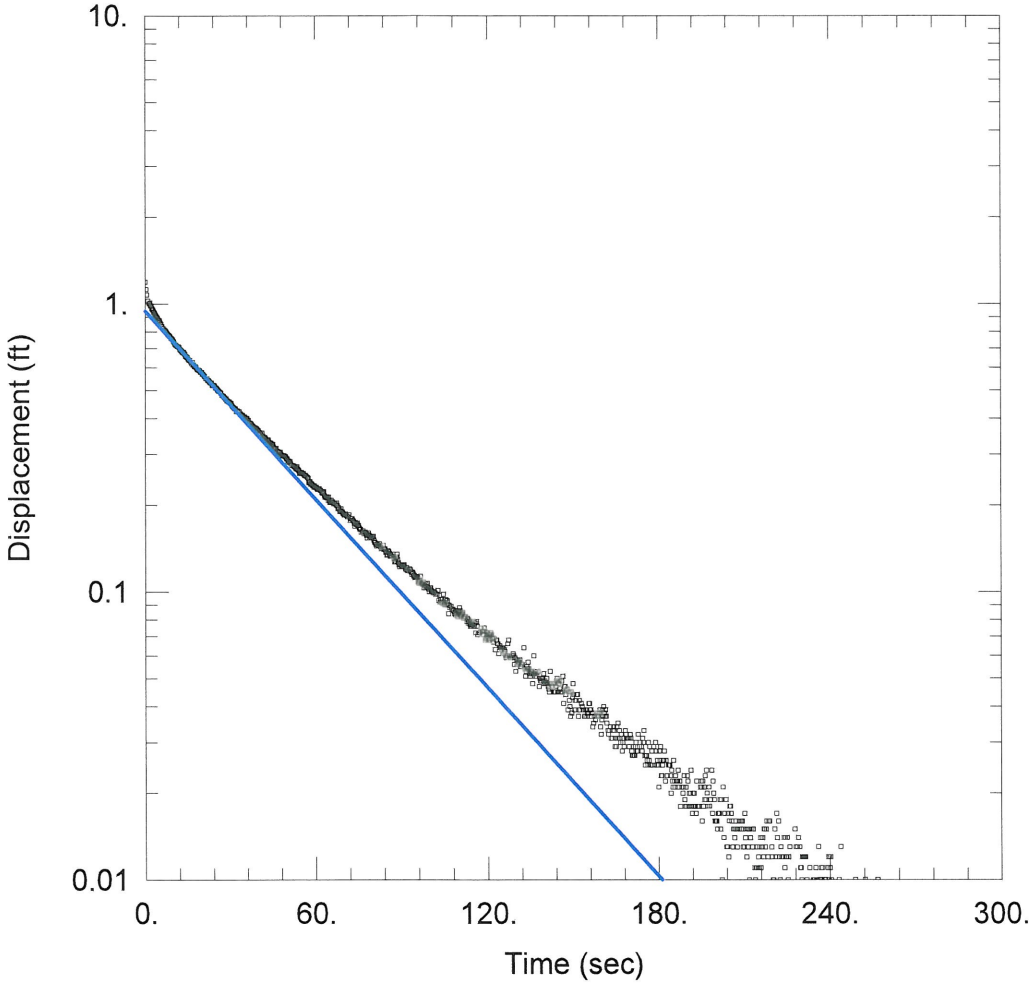
Saturated Thickness: 47.44 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (P-MW-24-1)

Initial Displacement: 1.109 ft
Total Well Penetration Depth: 7.08 ft
Casing Radius: 0.083 ft
Static Water Column Height: 7.08 ft
Screen Length: 10. ft
Wellbore Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.0005367 cm/sec
y0 = 0.892 ft



WELL TEST ANALYSIS

Data Set: S:\...\P-MW-24-2-visual.aqt
Date: 07/20/09 Time: 16:22:59

PROJECT INFORMATION

Company: TRC
Client: Railroad Commission of Texas
Project: 166420
Location: Petronila
Test Well: P-MW-24-2
Test Date: 3/23/09

STATE OF TEXAS
JAMES M. HARTE
GEOLOGY
No. 4018
LICENSED
PROFESSIONAL GEOSCIENTIST
08/20/09

AQUIFER DATA

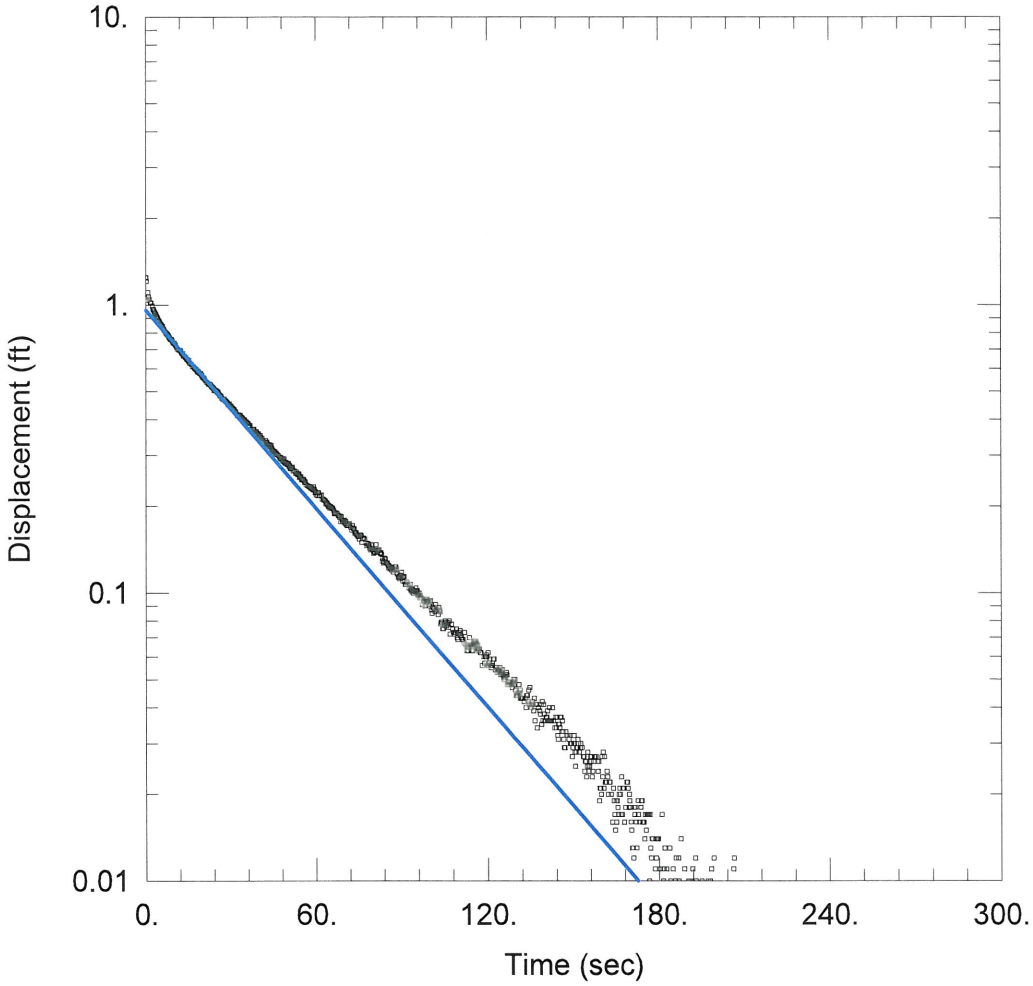
Saturated Thickness: 47.44 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (P-MW-24-2)

Initial Displacement: 1.189 ft
Total Well Penetration Depth: 7.08 ft
Casing Radius: 0.083 ft
Static Water Column Height: 7.08 ft
Screen Length: 10. ft
Wellbore Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
K = 0.0005791 cm/sec
Solution Method: Bouwer-Rice
y0 = 0.9435 ft



WELL TEST ANALYSIS

Data Set: S:\...\P-MW-24-3-visual.aqt
Date: 07/20/09 Time: 16:23:32

PROJECT INFORMATION

Company: TRC
Client: Railroad Commission of Texas
Project: 166420
Location: Petronila
Test Well: P-MW-24-3
Test Date: 3/23/09

STATE OF TEXAS
JAMES M. HARTE
GEOLOGY
No. 4018
LICENSED
PROFESSIONAL GEOSCIENTIST
08/20/09

AQUIFER DATA

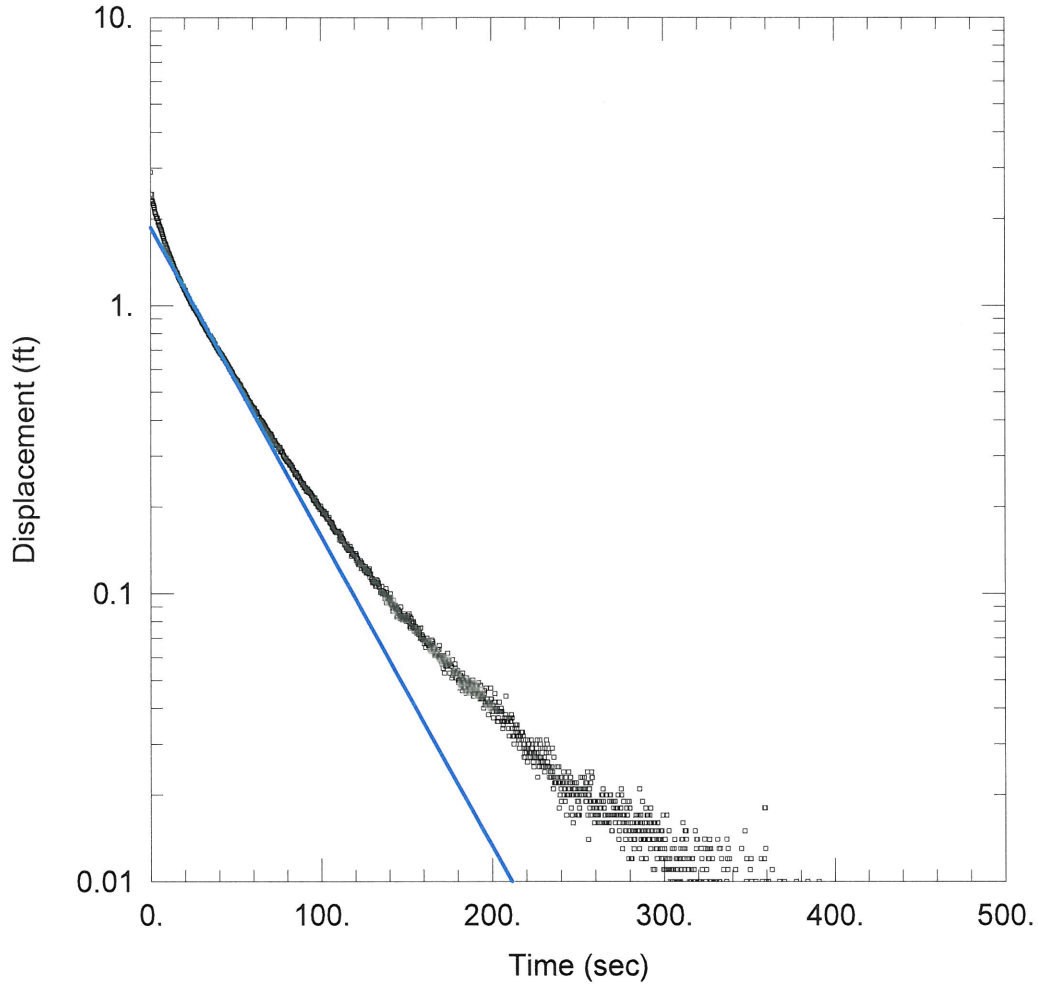
Saturated Thickness: 47.44 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (P-MW-24-3)

Initial Displacement: 1.246 ft
Total Well Penetration Depth: 7.08 ft
Casing Radius: 0.083 ft
Static Water Column Height: 7.08 ft
Screen Length: 10. ft
Wellbore Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.0006102 cm/sec
y0 = 0.958 ft



WELL TEST ANALYSIS

Data Set: S:\...\P-MW-24-4-visual.aqt
Date: 07/20/09 Time: 16:24:11

STATE OF TEXAS
JAMES M. HARTE
GEOLOGY
No. 4018
LICENSED
PROFESSIONAL GEOSCIENTIST
08/20/09

PROJECT INFORMATION

Company: TRC
Client: Railroad Commission of Texas
Project: 166420
Location: Petronila
Test Well: P-MW-24-4
Test Date: 3/23/09

AQUIFER DATA

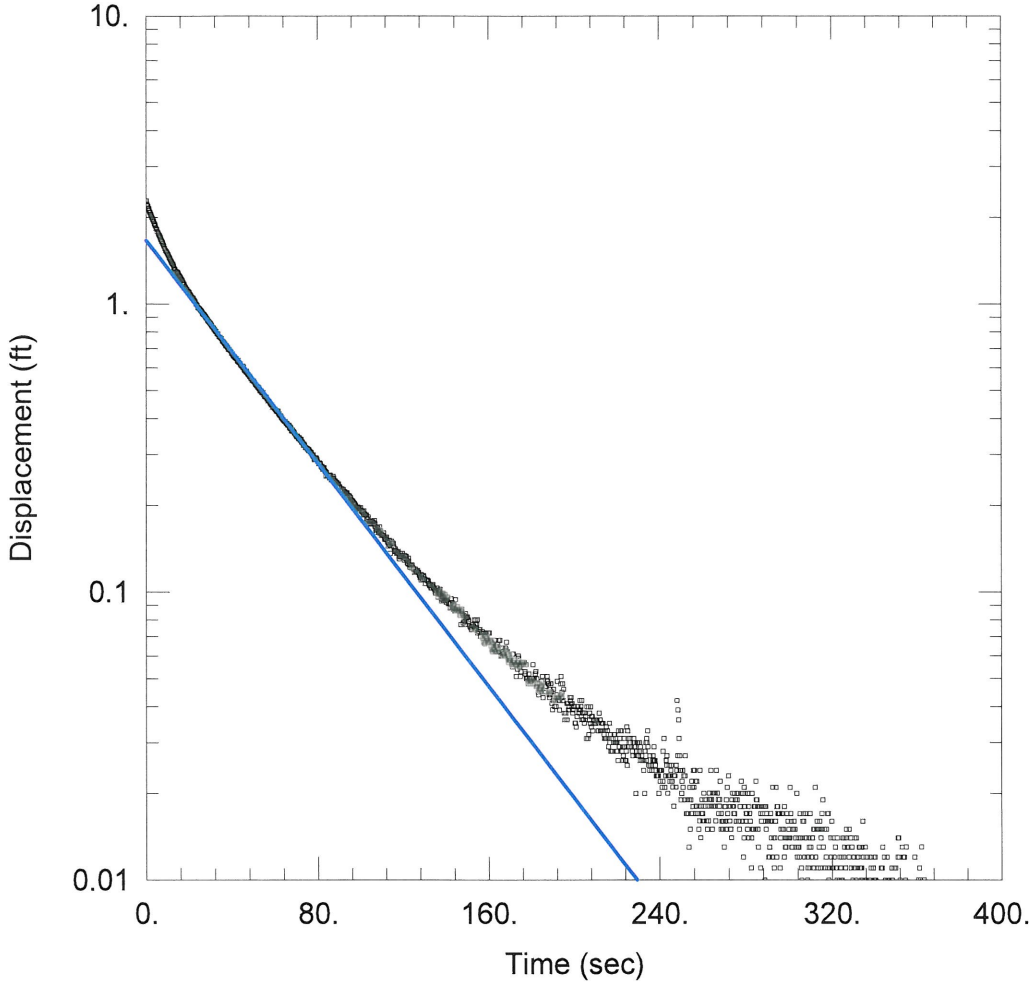
Saturated Thickness: 47.44 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (P-MW-24-4)

Initial Displacement: 2.908 ft
Total Well Penetration Depth: 7.08 ft
Casing Radius: 0.083 ft
Static Water Column Height: 7.08 ft
Screen Length: 10. ft
Wellbore Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.0005704 cm/sec
y0 = 1.869 ft



WELL TEST ANALYSIS

Data Set: S:\...\P-MW-24-5-visual.aqt
Date: 07/20/09 Time: 16:24:58

PROJECT INFORMATION

Company: TRC
Client: Railroad Commission of Texas
Project: 166420
Location: Petronila
Test Well: P-MW-24-5
Test Date: 3/23/09

STATE OF TEXAS
JAMES M. HARTE
GEOLOGY
No. 4018
LICENSED
PROFESSIONAL GEOSCIENTIST
08/21/09

AQUIFER DATA

Saturated Thickness: 47.44 ft Anisotropy Ratio (Kz/Kr): 1.

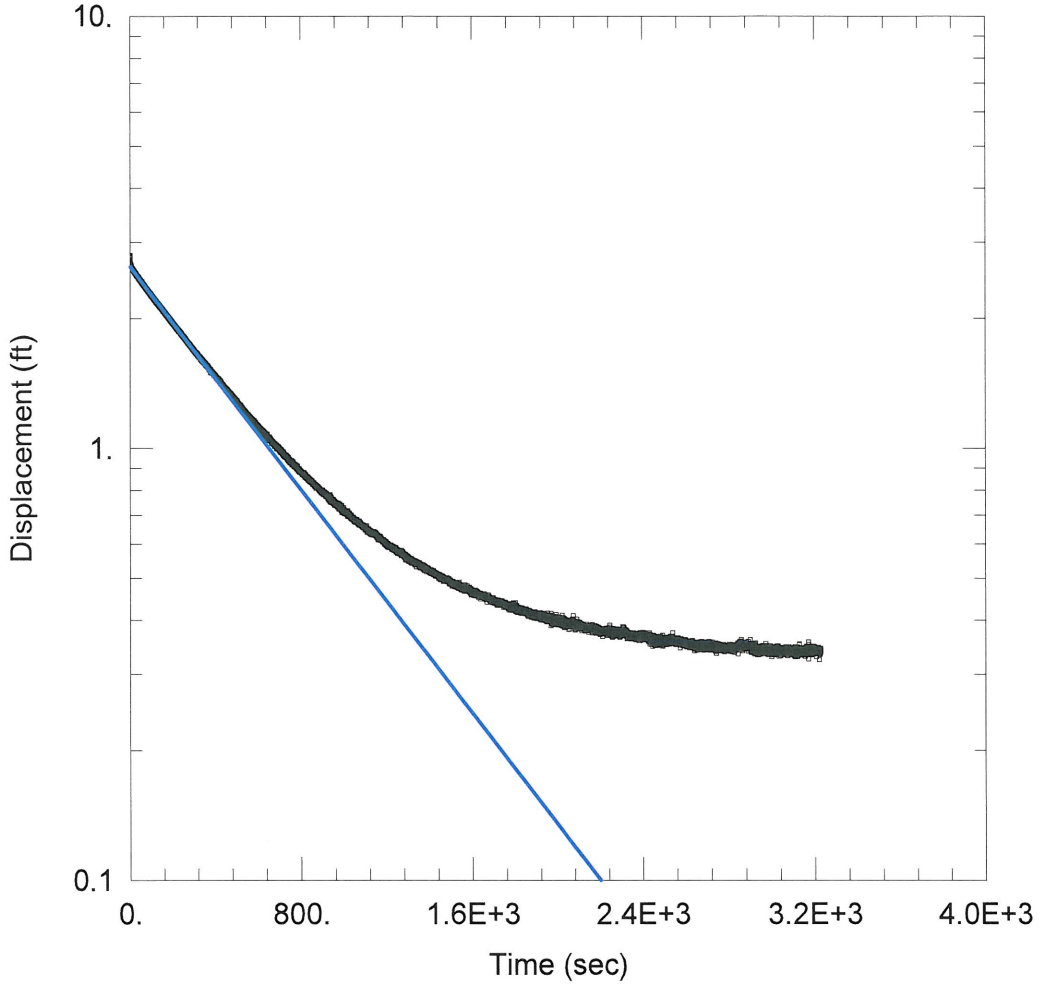
WELL DATA (P-MW-24-5)

Initial Displacement: 2.28 ft
Total Well Penetration Depth: 7.07 ft
Casing Radius: 0.083 ft
Static Water Column Height: 7.07 ft
Screen Length: 10. ft
Wellbore Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.0005141 cm/sec y0 = 1.661 ft



WELL TEST ANALYSIS

Data Set: S:\...\P-MW-27-1.aqt
Date: 07/20/09 Time: 16:27:29

STATE OF TEXAS
JAMES M. HARTE
GEOLOGY
No. 4018
LICENSED
PROFESSIONAL GEOSCIENTIST
08/20/09

PROJECT INFORMATION

Company: TRC
Client: Railroad Commission of Texas
Project: 166420
Location: Petronila
Test Well: P-MW-27-1
Test Date: 3/25/09

AQUIFER DATA

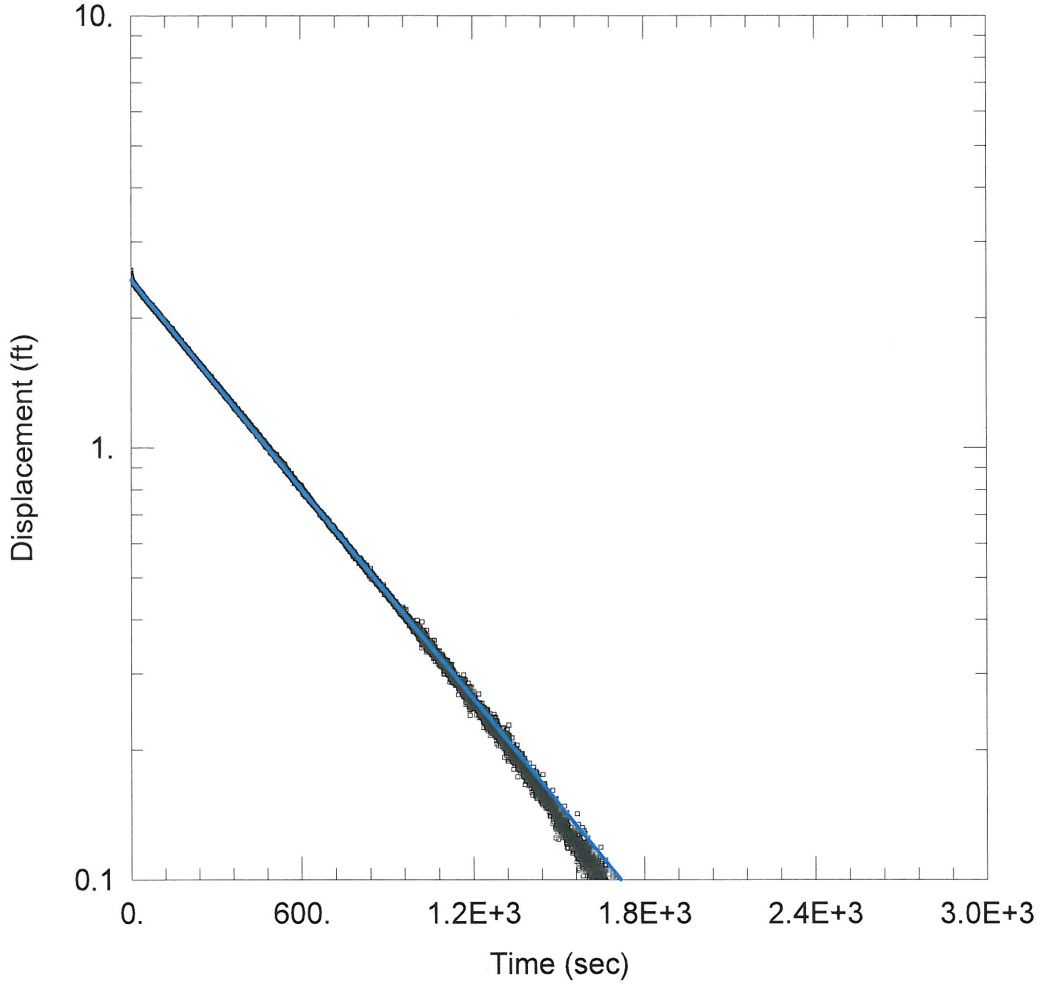
Saturated Thickness: 47.44 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (P-MW-27-1)

Initial Displacement: 2.796 ft
Total Well Penetration Depth: 51.8 ft
Casing Radius: 0.083 ft
Static Water Column Height: 51.8 ft
Screen Length: 20. ft
Wellbore Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 3.093E-5 cm/sec
y0 = 2.628 ft



WELL TEST ANALYSIS

Data Set: S:\...\P-MW-27-2.aqt
Date: 07/20/09 Time: 16:28:18

STATE OF TEXAS
JAMES M. HARTE
GEOLOGY
No. 4018
LICENSED PROFESSIONAL GEOSCIENTIST
08/20/09

PROJECT INFORMATION

Company: TRC
Client: Railroad Commission of Texas
Project: 166420
Location: Petronila
Test Well: P-MW-27-2
Test Date: 3/25/09

AQUIFER DATA

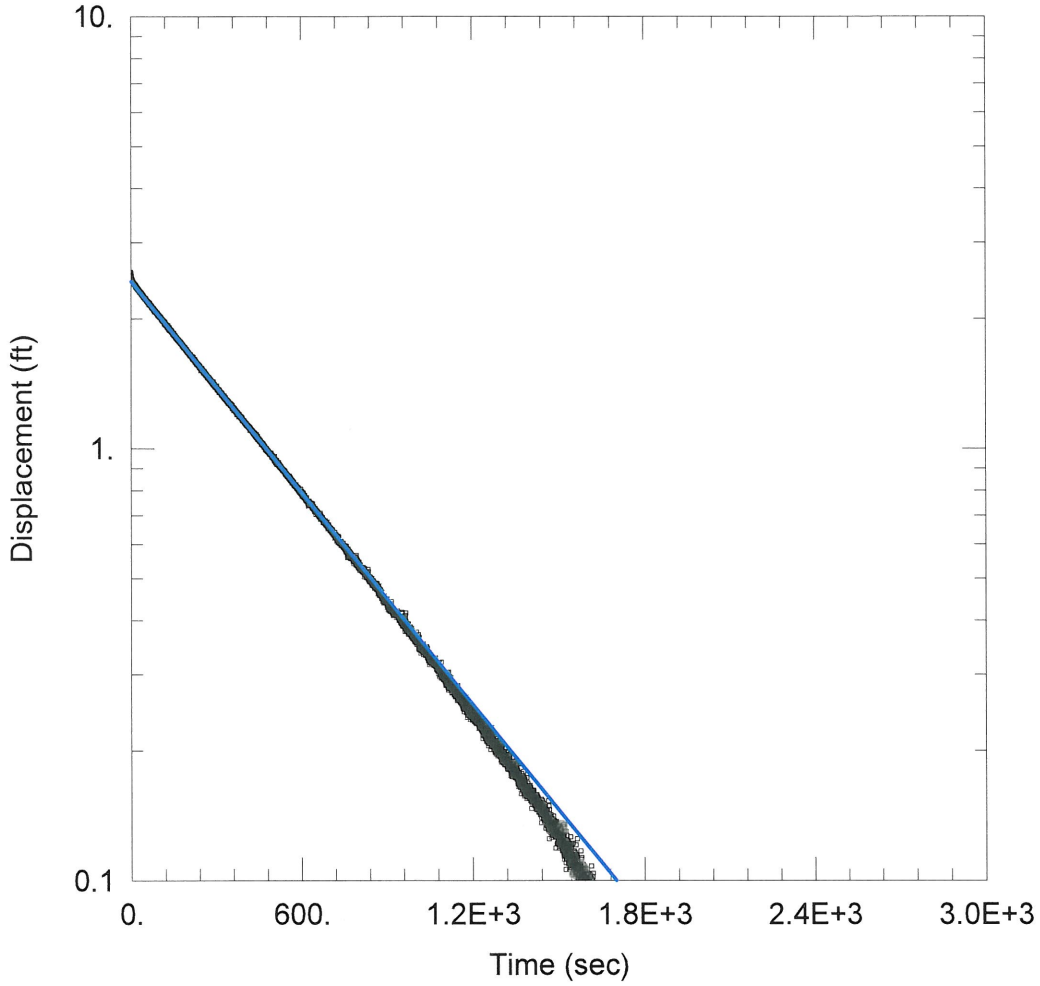
Saturated Thickness: 47.44 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (P-MW-27-2)

Initial Displacement: 2.58 ft
Total Well Penetration Depth: 51.75 ft
Casing Radius: 0.083 ft
Static Water Column Height: 51.75 ft
Screen Length: 20. ft
Wellbore Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 3.874E-5 cm/sec
y0 = 2.444 ft



WELL TEST ANALYSIS

Data Set: S:\...\P-MW-27-3.aqt
Date: 07/20/09 Time: 16:30:49

STATE OF TEXAS
JAMES M. HARTE
GEOLOGY
No. 4018
LICENSED
PROFESSIONAL GEOSCIENTIST
08/20/09

PROJECT INFORMATION

Company: TRC
Client: Railroad Commission of Texas
Project: 166420
Location: Petronila
Test Well: P-MW-27-3
Test Date: 3/25/09

AQUIFER DATA

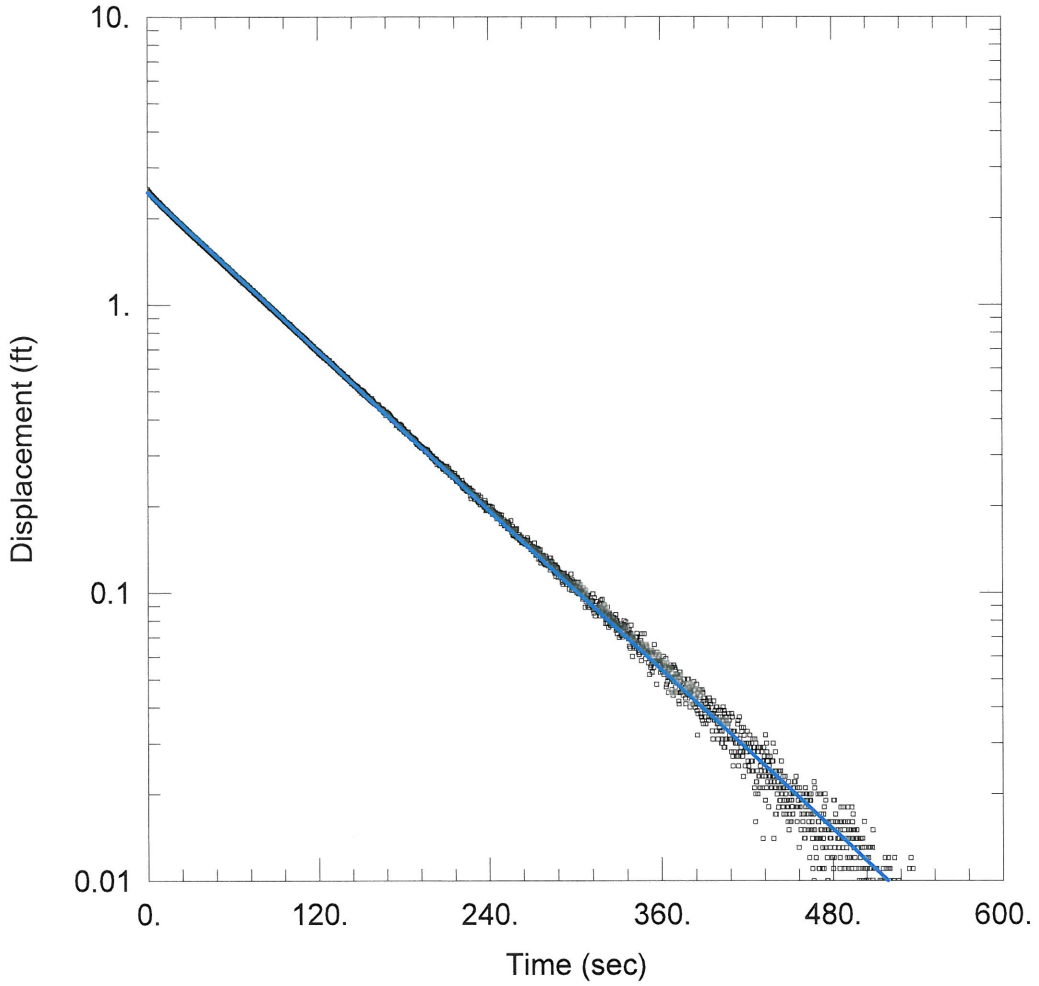
Saturated Thickness: 47.44 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (P-MW-27-3)

Initial Displacement: 2.562 ft
Total Well Penetration Depth: 51.75 ft
Casing Radius: 0.083 ft
Static Water Column Height: 51.75 ft
Screen Length: 20. ft
Wellbore Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 3.907E-5 cm/sec
y0 = 2.437 ft



WELL TEST ANALYSIS

Data Set: S:\...\P-MW-28-1.aqt
Date: 07/20/09 Time: 16:34:00

STATE OF TEXAS
JAMES M. HARTE
GEOLOGY
No. 4018
LICENSED
PROFESSIONAL GEOSCIENTIST
08/20/09

PROJECT INFORMATION

Company: TRC
Client: Railroad Commission of Texas
Project: 166420
Location: Petronila
Test Well: P-MW-28-1
Test Date: 3/24/09

AQUIFER DATA

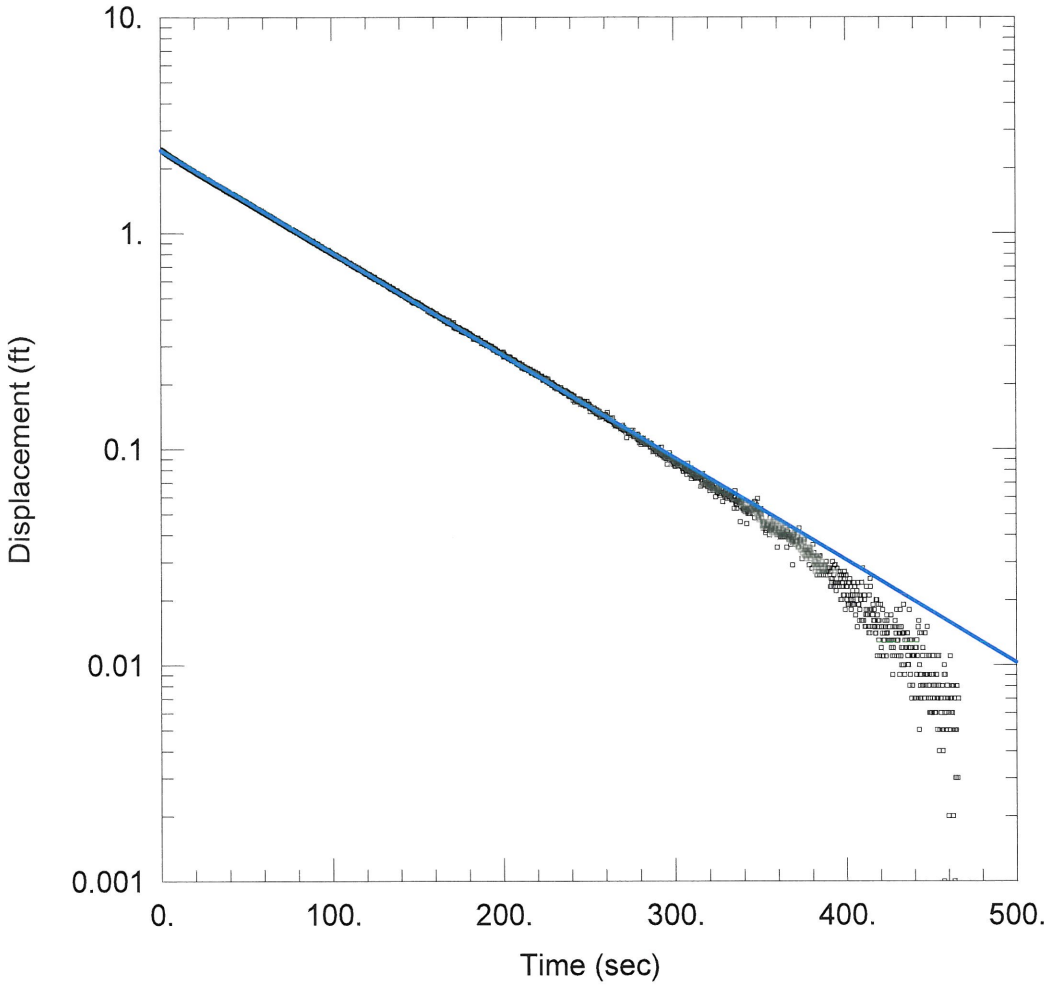
Saturated Thickness: 47.44 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (P-MW-28-1)

Initial Displacement: 2.517 ft
Total Well Penetration Depth: 27.98 ft
Casing Radius: 0.083 ft
Static Water Column Height: 27.98 ft
Screen Length: 10. ft
Wellbore Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.0003172 cm/sec
y0 = 2.454 ft



WELL TEST ANALYSIS

Data Set: S:\...\P-MW-28-2.aqt
Date: 07/20/09 Time: 16:34:28

STATE OF TEXAS
JAMES M. HARTE
GEOLOGY
No. 4018
LICENSED
PROFESSIONAL GEOSCIENTIST
08/21/09

PROJECT INFORMATION

Company: TRC
Client: Railroad Commission of Texas
Project: 166420
Location: Petronila
Test Well: P-MW-28-2
Test Date: 3/24/09

AQUIFER DATA

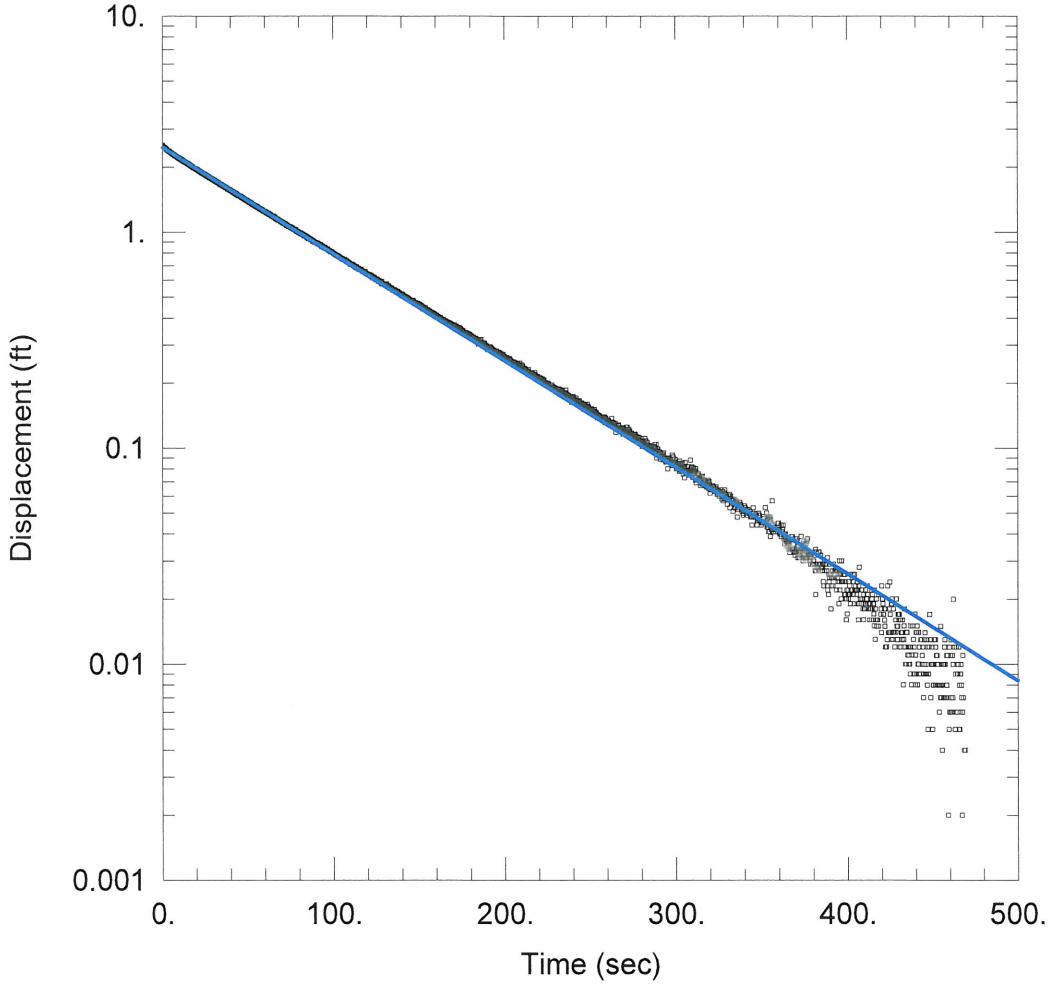
Saturated Thickness: 47.44 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (P-MW-28-2)

Initial Displacement: 2.443 ft
Total Well Penetration Depth: 27.98 ft
Casing Radius: 0.083 ft
Static Water Column Height: 27.98 ft
Screen Length: 10. ft
Wellbore Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
K = 0.0003266 cm/sec
Solution Method: Bouwer-Rice
y0 = 2.418 ft



WELL TEST ANALYSIS

Data Set: S:\...\P-MW-28-3.aqt
Date: 07/20/09 Time: 16:38:08

STATE OF TEXAS
JAMES M. HARTE
GEOLOGY
No. 4018
LICENSED
PROFESSIONAL GEOSCIENTIST
08/21/09

PROJECT INFORMATION

Company: TRC
Client: Railroad Commission of Texas
Project: 166420
Location: Petronila
Test Well: P-MW-28-3
Test Date: 3/24/09

AQUIFER DATA

Saturated Thickness: 47.44 ft Anisotropy Ratio (Kz/Kr): 1.

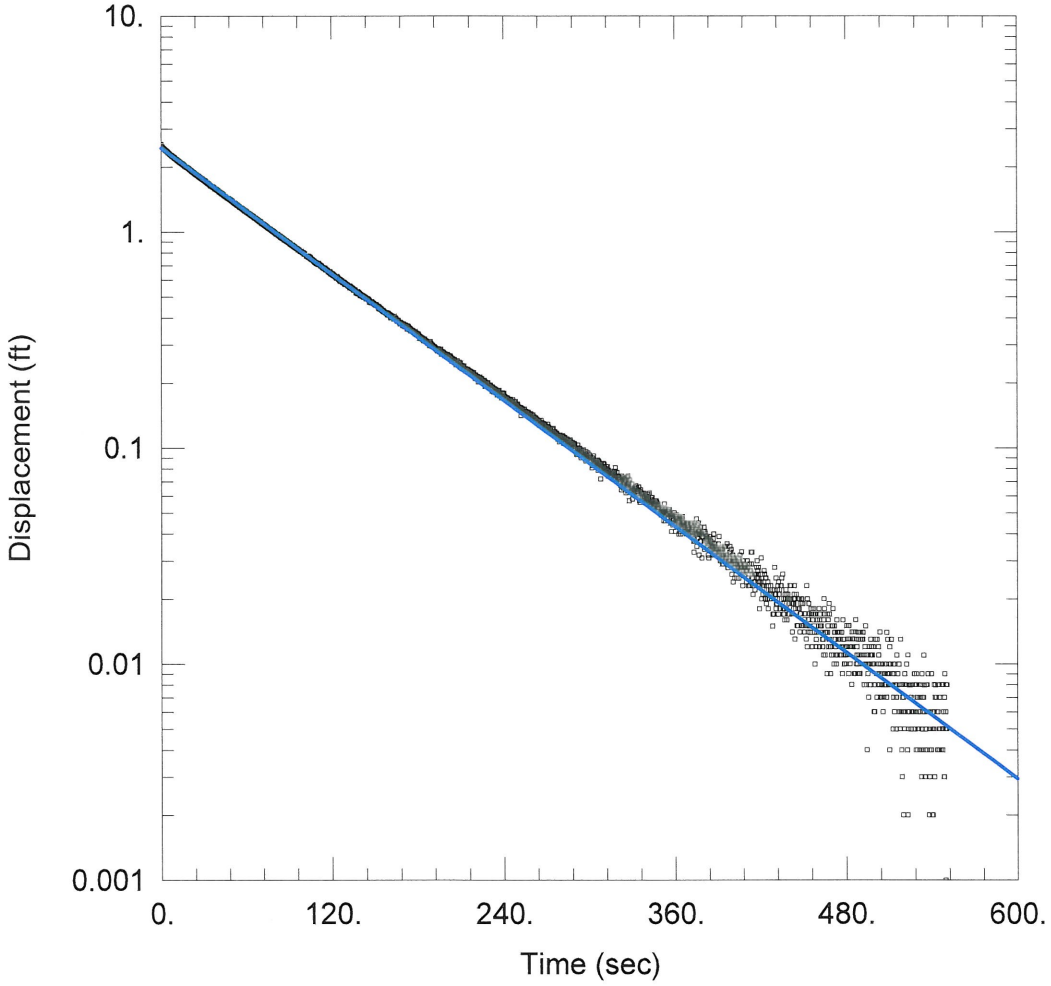
WELL DATA (P-MW-28-3)

Initial Displacement: 2.522 ft Static Water Column Height: 27.98 ft
Total Well Penetration Depth: 27.98 ft Screen Length: 10. ft
Casing Radius: 0.083 ft Wellbore Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.0003399 cm/sec y0 = 2.462 ft



WELL TEST ANALYSIS

Data Set: S:\...\P-MW-28-4.aqt
Date: 07/20/09 Time: 16:38:23

STATE OF TEXAS
JAMES M. HARTE
GEOLOGY
No. 4018
LICENSED
PROFESSIONAL GEOSCIENTIST
08/20/09

PROJECT INFORMATION

Company: TRC
Client: Railroad Commission of Texas
Project: 166420
Location: Petronila
Test Well: P-MW-28-4
Test Date: 3/24/09

AQUIFER DATA

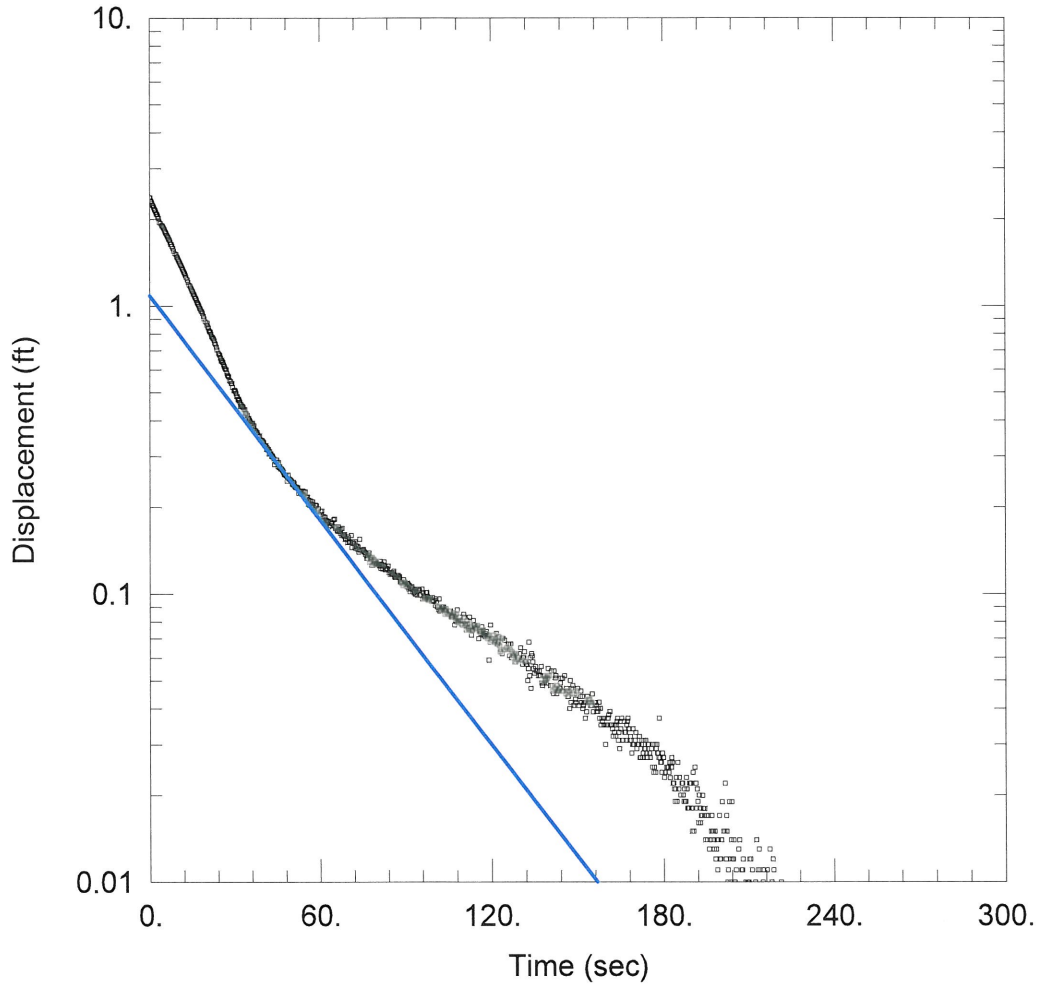
Saturated Thickness: 47.44 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (P-MW-28-4)

Initial Displacement: 2.546 ft
Total Well Penetration Depth: 27.98 ft
Casing Radius: 0.083 ft
Static Water Column Height: 27.98 ft
Screen Length: 10. ft
Wellbore Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
K = 0.0003352 cm/sec
Solution Method: Bouwer-Rice
y0 = 2.446 ft



WELL TEST ANALYSIS

Data Set: S:\...\P-MW-30-1.aqt
Date: 07/20/09 Time: 16:39:04

PROJECT INFORMATION

Company: TRC
Client: Railroad Commission of Texas
Project: 166420
Location: Petronila
Test Well: P-MW-30-1
Test Date: 3/24/09

STATE OF TEXAS
JAMES M. HARTE
GEOLOGY
No. 4018
LICENSED
PROFESSIONAL GEOSCIENTIST
08/20/09

AQUIFER DATA

Saturated Thickness: 47.44 ft Anisotropy Ratio (Kz/Kr): 1.

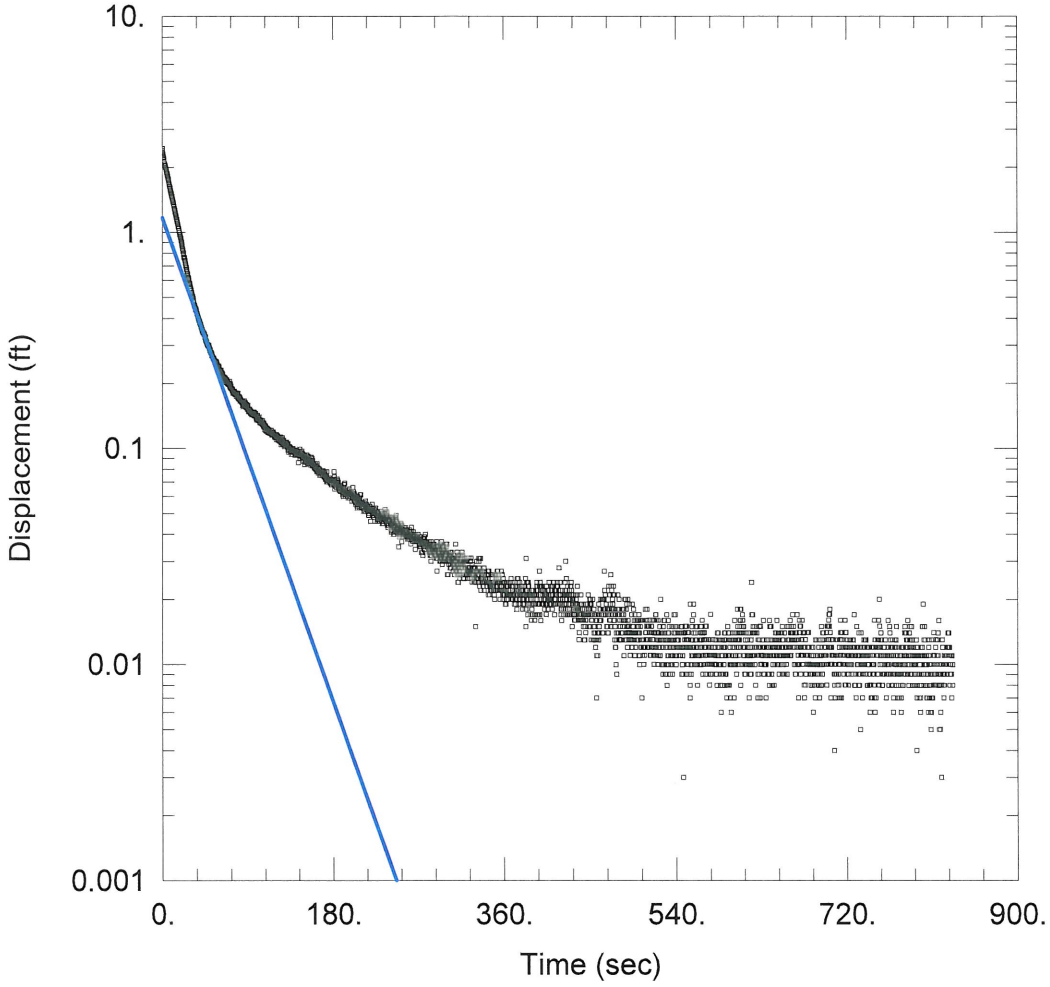
WELL DATA (P-MW-30-1)

Initial Displacement: 2.38 ft
Total Well Penetration Depth: 5.42 ft
Casing Radius: 0.083 ft
Static Water Column Height: 5.42 ft
Screen Length: 10. ft
Wellbore Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.0006493 cm/sec
y0 = 1.086 ft



WELL TEST ANALYSIS

Data Set: S:\...\P-MW-30-2.aqt
Date: 07/20/09 Time: 16:39:22

STATE OF TEXAS
JAMES M. HARTE
GEOLOGY
No. 4018
LICENSED
PROFESSIONAL GEOSCIENTIST
08/20/09

PROJECT INFORMATION

Company: TRC
Client: Railroad Commission of Texas
Project: 166420
Location: Petronila
Test Well: P-MW-30-2
Test Date: 3/24/09

AQUIFER DATA

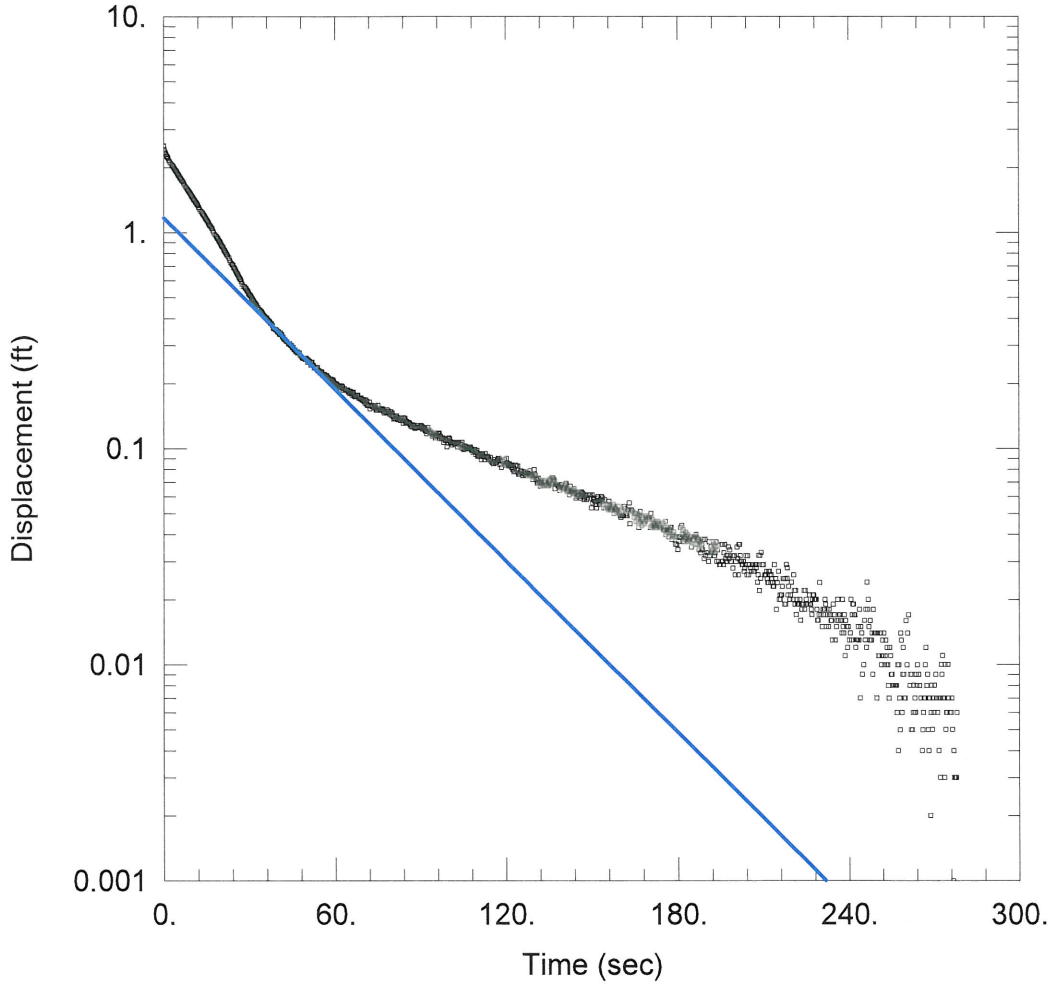
Saturated Thickness: 47.44 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (P-MW-30-2)

Initial Displacement: 2.445 ft
Total Well Penetration Depth: 5.41 ft
Casing Radius: 0.083 ft
Static Water Column Height: 5.41 ft
Screen Length: 10. ft
Wellbore Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.0006215 cm/sec
y0 = 1.171 ft



WELL TEST ANALYSIS

Data Set: S:\...\P-MW-30-3.aqt
Date: 07/20/09 Time: 16:39:56

STATE OF TEXAS
JAMES M. HARTE
GEOLOGY
No. 4018
LICENSED
PROFESSIONAL GEOSCIENTIST
08/20/09

PROJECT INFORMATION

Company: TRC
Client: Railroad Commission of Texas
Project: 166420
Location: Petronila
Test Well: P-MW-30-3
Test Date: 3/24/09

AQUIFER DATA

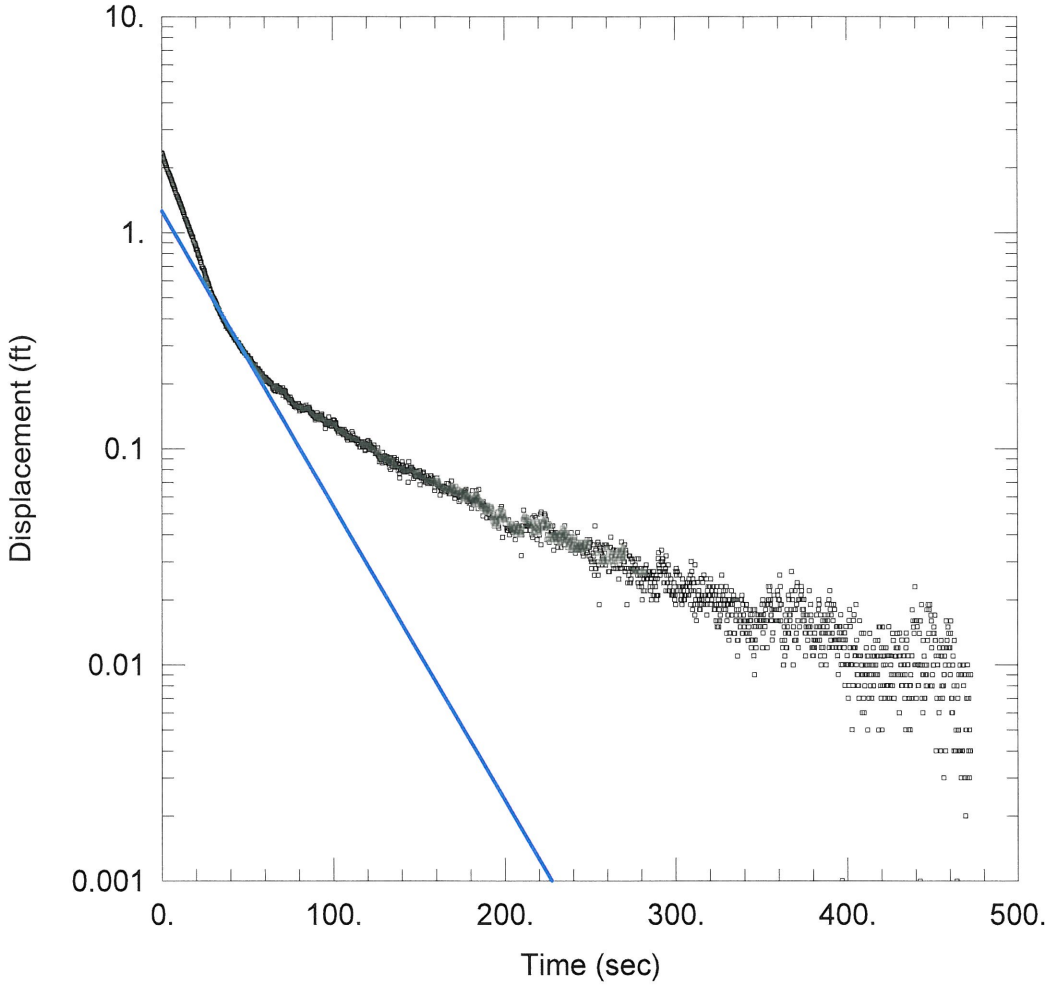
Saturated Thickness: 47.44 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (P-MW-30-3)

Initial Displacement: 2.52 ft
Total Well Penetration Depth: 5.39 ft
Casing Radius: 0.083 ft
Static Water Column Height: 5.39 ft
Screen Length: 10. ft
Wellbore Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.0006605 cm/sec
y0 = 1.166 ft



WELL TEST ANALYSIS

Data Set: S:\...\P-MW-30-4.aqt
Date: 07/20/09 Time: 16:40:08

STATE OF TEXAS
JAMES M. HARTE
GEOLOGY
No. 4018
LICENSED
PROFESSIONAL GEOSCIENTIST
08/20/09

PROJECT INFORMATION

Company: TRC
Client: Railroad Commission of Texas
Project: 166420
Location: Petronila
Test Well: P-MW-30-4
Test Date: 3/24/09

AQUIFER DATA

Saturated Thickness: 47.44 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (P-MW-30-4)

Initial Displacement: 2.344 ft
Total Well Penetration Depth: 5.41 ft
Casing Radius: 0.083 ft
Static Water Column Height: 5.41 ft
Screen Length: 10. ft
Wellbore Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
K = 0.0006805 cm/sec
Solution Method: Bouwer-Rice
y0 = 1.259 ft